



प्रज्ञानं ब्रह्म



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3. Evaluative Report of the Institution

1. **Name of the Institution:** **Kasturba Medical College, Mangalore**
2. **Year of establishment:** 01.01.1955
3. **Is the Institution part of the university?** Yes
4. **Names of programs offered** (UG, PG, PharmD, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.)

UNDERGRADUATE: MBBS

POSTGRADUATE DEGREE: M.D.(General Medicine), M.S.(General Surgery), M.S.(Obst.& Gynae), M.D.(Paediatrics), M.S.(Orthopaedics), M.S.(Ophthalmology), M.S.(E.N.T.), M.D.(Anaesthesiology), M.D.(Skin & V.D.), M.D. (Radiodiagnosis), M.D.(Pathology, M.D.(Microbiology), M.D.(Pharmacology), M.D.(Biochemistry), M.D.(Physiology), M.D.(Anatomy).

POSTGRADUATE DIPLOMA: D.G.O (Diploma in Obst. & Gynae.), D.C.H.(Diploma in Paediatrics), D.Ortho.(Diploma in Orthopaedics), D.O.(Diploma in Ophthalmology), D.L.O (Diploma in E.N.T.), D.A.(Diploma in Anaesthesiology), D.D.V.L (Diploma in Skin & V.D.), D.C.P (Diploma in Pathology)

MSc: M.Sc. (Medical) Anatomy, M.Sc. (Medical) Physiology, M.Sc. (Medical) Biochemistry, M.Sc. (Medical) Microbiology, M.Sc. (Medical) Pharmacology

5. **Interdisciplinary programs and departments/institutions involved:**

In view of the course having to be conducted as per the specifications laid down by the regulatory body we have not been able to introduce any interdisciplinary courses. We have however started doing integrated teaching (which are inter-disciplinary in nature) for some of our subjects. Attempts are being made to de-emphasize compartmentalization of disciplines so as to achieve both horizontal and vertical integration in different phases.

6. **Courses in collaboration with other universities, industries, foreign institutions:** The institution does not have any collaborative arrangements within and outside the country. However, our University has many such tie-ups and our students have been beneficiaries of the same. In 2014, 6 of our students have been to Netherlands to study in various hospitals in fields of their choice. The institution is also a part of two global medical student exchange programmes namely Global Health learning Opportunities (GHLO) and Global Education in Medicine Exchange (GEMx).

3. Evaluative Report of the Institution

7. Details of programs discontinued, if any, with reasons: Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

Participation of the institution in the courses offered by other institutions: Nil

9. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	77	77	77
Associate Professor/Reader	132	132	132
Assistant Professor	70	66	66
Lecturer	6	6	6
Tutor / Clinical Instructor	12	12	12
Senior Resident	92	39	39

In addition to this we have 48 PG tutors and 248 Junior residents. The details are present in the individual department files.

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

Sl.No.	Name of the faculty	Qualification	Designation	Specialization	Teaching Experience (Yrs)
1.	Dr. Vasudha V. Saralaya	MBBS MS	Prof. & Head	Anatomy	18
2.	Dr. Latha V. Prabhu	MBBS MS	Prof.	Anatomy	26
3.	Dr. Samapath Kumar Madhyastha	M Sc, Ph D	Addl. Prof.	Anatomy	18
4.	Dr. Mangala M. Pai	MBBS MD	Assoc. Prof.	Anatomy	14
5.	Dr. Ashwin K.	MBBS MD	Assoc. Prof.	Anatomy	14
6.	Dr. Rajanigandha Vadagaonkar	MBBS MD	Assoc. Prof.	Anatomy	12
7.	Dr. Chettiar Ganesh Kumar	MBBS MD	Assoc. Prof.	Anatomy	11
8.	Dr. Mamatha T.	MBBS MD	Assoc. Prof.	Anatomy	09
9.	Dr. Prameela M.D.	MBBS MD	Assoc. Prof.	Anatomy	10
10.	Dr. Murlimanju B V	MBBS MD	Asst. Prof.	Anatomy	06
11.	Dr. Rajalakshmi Rai	M Sc, Ph D	Assoc. Prof.	Anatomy	15
12.	Mrs. Jiji P J	M Sc	Sr Lecturer	Anatomy	14
13.	Mrs. Ashwin R Rai	M Sc	Lecturer	Anatomy	06
14.	Ms. Teresa Joy	M Sc	Lecturer	Anatomy	05

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15.	Mrs. Vandana Blossom	M Sc	Tutor	Anatomy	01
16.	Mrs. Priya Marina Menezes	M Sc	Tutor	Anatomy	<01
17.	Mr. Y Lakshmisha Rao	M Sc	Tutor	Anatomy	<01
18.	Dr Sheila R Pai	MBBS MD	Prof. & Head	Physiology	21
19.	Dr M Ramesh Bhat	MBBS MD	Prof.	Physiology	31
20.	Dr. Ganaraja B	M Sc., Ph D	Addl. Prof.	Physiology	26
21.	Dr Anupama N	MBBS MD	Assoc. Prof.	Physiology	13
22.	Dr. K. Bhagyalakshmi	MBBS MD	Assoc. Prof.	Physiology	11
23.	Dr. Subbalakshmi N K	M Sc, Ph D	Assoc. Prof.	Physiology	22
24.	Dr. Sneha Shetty Bhoja	MBBS MD	Assoc. Prof.	Physiology	09
25.	Dr. Suman Veerappa Budihal	MBBS MD	Assoc. Prof.	Physiology	08
26.	Dr. Vinodini N A	M Sc, Ph D	Assoc. Prof.	Physiology	21
27.	Dr. Rekha D Kini	M Sc, Ph D	Assoc. Prof.	Physiology	18
28.	Dr. Nayanatara Arun Kumar	M Sc, Ph D	Assoc. Prof.	Physiology	18
29.	Dr. Pratik Kumar Chatterjee	MBBS MD	Asst. Prof.	Physiology	07
30.	Dr. Rashmi K S	M Sc	Lecturer	Physiology	06
31.	Dr. Poornima Ajay Manjrekar	MBBS MD, Ph D	Prof. & Head	Biochemistry	15
32.	Dr. Benedicta G. D'Souza	M Sc., Ph D	Prof.	Biochemistry	28
33.	Dr. Beena V. Shetty	M Sc., Ph D	Prof.	Biochemistry	32
34.	Dr. M. Nandini	M Sc., Ph D	Addl. Prof.	Biochemistry	28
35.	Dr. Anupama Hegde	MBBS MD	Assoc. Prof.	Biochemistry	14
36.	Dr. Rukmini M S	MBBS MD	Assoc. Prof.	Biochemistry	14
37.	Dr. Gayathri M Rao	M Sc., Ph D	Assoc. Prof.	Biochemistry	23
38.	Dr. K Ashok Prabhu	M Sc., Ph D	Assoc. Prof.	Biochemistry	24
39.	Dr. Sudha K	M Sc., Ph D	Assoc. Prof.	Biochemistry	23
40.	Dr. Reshma Kumarachandra	M Sc., Ph D	Assoc. Prof.	Biochemistry	23
	Dr. Vinod Chandran	MBBS MD	Assoc. Prof.	Biochemistry	10
41.	Dr. Ashok Shenoy K	MBBS MD	Prof. & Head	Pharmacology	15
42.	Dr. Mukta N Chowta	MBBS MD	Addl. Prof.	Pharmacology	14
43.	Dr. Sheetal Dinkar Ullal	MBBS MD	Assoc. Prof.	Pharmacology	11
44.	Dr. Sahana Devadas Acharya	MBBS MD	Assoc. Prof.	Pharmacology	08
45.	Dr. Preethi G. Pai	MBBS MD	Assoc. Prof.	Pharmacology	07

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46.	Dr. Ashwin Kamath K. Anandaraya	MBBS MD	Assoc. Prof.	Pharmacology	06
47.	Dr. Rashmi R. Rao	MBBS MD	Asst. Prof.	Pharmacology	01
48.	Dr. Rajeshwari	M Sc.,Ph D	Asst. Prof.	Pharmacology	10
49.	Mr. Zahoor Ahmad Rather	M Sc	Lecturer	Pharmacology	01
50.	Dr Hema Kini	MBBS MD	Prof. & Head	Pathology	23
51.	Dr Urmila N Khadilkar	MBBS MD	Prof.	Pathology	31
52.	Dr Ramadas Naik	MBBS MD	Prof.	Pathology	30
53.	Dr Radha R Pai	MBBS MD	Prof.	Pathology	27
54.	Dr Flora D Lobo	MBBS MD	Prof.	Pathology	24
55.	Dr Kausalya Kumari Sahu	MBBS MD	Addl. Prof.	Pathology	22
56.	Dr Sharada Rai	MBBS MD	Assoc. Prof.	Pathology	17
57.	Dr Jyoti R Kini	MBBS MD	Assoc. Prof.	Pathology	14
58.	Dr Nirupama M	MBBS MD	Assoc. Prof.	Pathology	10
59.	Dr Shrijeet Chakraborti	MBBS MD, DNB	Assoc. Prof.	Pathology	06
60.	Dr Debarshi Saha	MBBS MD	Assoc. Prof.	Pathology	05
61.	Dr. Deepa Adiga S A	MBBS MD	Asst. Prof.	Pathology	04
62.	Dr. Jessica Minal	MBBS MD	Asst. Prof.	Pathology	04
63.	Dr. Sridevi H B	MBBS MD	Asst. Prof.	Pathology	<01
64.	Dr. Pooja K S	MBBS MD	Asst. Prof.	Pathology	02
65.	Dr. Chaithra G V	MBBS MD	Asst. Prof.	Pathology	<01
66.	Dr Ranjitha Rao	MBBS MD	Asst. Prof.	Pathology	<01
67.	Dr Shrikala Baliga	MBBS MD	Prof. & Head	Microbiology	20
68.	Dr Shalini Shenoy Mulki	MBBS MD	Prof.	Microbiology	22
69.	Dr K Vidyalakshmi	MBBS MD	Addl. Prof.	Microbiology	19
70.	Dr. K Gopalakrishna Bhat	MSc , Ph D	Addl. Prof.	Microbiology	28
71.	Dr Suchitra Shenoy M	MBBS MD	Assoc. Prof.	Microbiology	11
72.	Dr. K Vishwas Saralaya	M Sc, Ph D	Assoc. Prof.	Microbiology	23
73.	Dr. Sevitha Bhat	MBBS MD	Assoc. Prof.	Microbiology	06
74.	Dr. M. Radhakrishna	M Sc, Ph D	Assoc. Prof.	Microbiology	28
75.	Dr. Ethel Suman	M Sc, Ph D	Assoc. Prof.	Microbiology	23
76.	Dr. B Dhanashree	M Sc, Ph D	Assoc. Prof.	Microbiology	23
77.	Dr. K Ashwini Hegde	M Sc, Ph D	Assoc. Prof.	Microbiology	26
78.	Dr. J Udayalaxmi	M Sc, Ph D	Selection Gr Lecturer	Microbiology	22
79.	Dr. Pooja Rao	MBBS MD	Asst. Prof.	Microbiology	02

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80.	Dr. B Suresh Kumar Shetty	MBBS MD, PGCTM	Prof. & Head	Forensic Medicine	13
81.	Dr. Prateek Rastogi	MBBS MD, PGDMLE	Assoc. Prof.	Forensic Medicine	12
82.	Dr. Tanuj Kanchan	MBBS MD, DFM	Assoc. Prof.	Forensic Medicine	10
83.	Dr. Jagadish Rao P P	MBBS MD, DNB	Assoc. Prof.	Forensic Medicine	11
84.	Dr. Raghavendra Babu Y P	MBBS MD	Assoc. Prof.	Forensic Medicine	09
85.	Dr. Rakshatha Nayak	MBBS	Tutor	Forensic Medicine	<01
86.	Dr. Sonali Prabhakar	MBBS	Tutor	Forensic Medicine	<01
87.	Dr. Vimala Christina Colaco K	MBBS	Tutor	Forensic Medicine	<01
88.	Dr. Kripali Rai	MBBS	Tutor	Forensic Medicine	<01
89.	Dr. B. Unnikrishnan	MBBS MD	Prof. & Head	Community Medicine	14
90.	Dr. Animesh Jain	MBBS MD	Assoc. Prof.	Community Medicine	10
91.	Dr. Harsha Kumar H N	MBBS MD	Assoc. Prof.	Community Medicine	07
92.	Dr. Nitin Joseph	MBBS MD	Assoc. Prof.	Community Medicine	07
93.	Dr. Rekha T	MBBS MD	Assoc. Prof.	Community Medicine	07
94.	Dr. Prasanna Mithra P	MBBS MD	Assoc. Prof.	Community Medicine	06
95.	Dr. Nithin Kumar	MBBS MD	Assoc. Prof.	Community Medicine	06
96.	Dr. Vaman Kulkarni	MBBS MD	Asst. Prof.	Community Medicine	04
97.	Dr. Ramesh Holla	MBBS MD	Asst. Prof.	Community Medicine	03
98.	Dr. Darshan B B	MBBS MD	Asst. Prof.	Community Medicine	02
99.	Dr. Avinash Kumar	MBBS MD	Asst. Prof.	Community Medicine	<01
100.	Mr. M Shashidar Kotian	M Sc	Sel. Grade Lecturer	Community Medicine	33

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101	Dr. Sharol Lionel Fernandes	MBBS	Tutor	Community Medicine	<01
102	DR. R. Nikhil Kumar Patnaik	MBBS	Tutor	Community Medicine	<01
103	Dr. G Sirish	MBBS	Tutor	Community Medicine	<01
104	Dr. Manasa K N	MBBS	Tutor	Community Medicine	<01
105	Dr. Manoj Kumar Prasad	MBBS	Tutor	Community Medicine	<01
106	Dr Raghavendra Bhat	MBBS MD	Prof. & Head	General Medicine	29
107	Dr M Venkatraya Prabhu	MBBS MD	Prof. & Dean	General Medicine	29
108	Dr M Chakrapani	MBBS MD	Prof. & Assoc. Dean	General Medicine	23
109	Dr Prabha Adhikari M R	MBBS MD	Prof.	General Medicine	29
110	Dr Mohammad Ismail Hejamady	MBBS MD	Prof.	General Medicine	23
111	Dr Christopher C Pais	MBBS MD	Prof.	General Medicine	23
112	Dr Damodara Shenoy	MBBS MD, DCH(PAED)	Prof.	General Medicine	17
113	Dr John Thomas Ramapuram	MBBS MD	Prof.	General Medicine	23
114	Dr Dinesha	MBBS MD, PGDHSC	Prof.	General Medicine	19
115	Dr Nithyananda Chowta K	MBBS MD	Addl. Prof.	General Medicine	21
116	Dr Sathish Rao B	MBBS MD	Addl. Prof.	General Medicine	12
117	Dr Meenakshi A Shetty	MBBS MD	Assoc. Prof.	General Medicine	17
118	Dr Sushanth Kumar B	MBBS MD DNB	Assoc. Prof.	General Medicine	12
119	Dr Krishna Prasad	MBBS MD DM (Med Onco)	Assoc. Prof.	General Medicine	09
120	Dr Venugopala D	MBBS DNB	Assoc. Prof.	General Medicine	14
121	Dr Muralidhara Yadiyal B	MBBS MD, DNB	Assoc. Prof.	General Medicine	13

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122	Dr Thajuddeen K	MBBS MD	Assoc. Prof.	General Medicine	13
123	Dr Jayakumar J	MBBS MD	Assoc. Prof.	General Medicine	09
124	Dr Girish M	MBBS MD	Assoc. Prof.	General Medicine	09
125	Dr A Harish Rao	MBBS MD	Assoc. Prof.	General Medicine	11
126	Dr Arun S	MBBS MD	Assoc. Prof.	General Medicine	07
127	Dr Alam Nawaz	MBBS MD	Assoc. Prof.	General Medicine	08
128	Dr Basavaprabhu A	MBBS MD	Assoc. Prof.	General Medicine	06
129	Dr Pavan MR	MBBS MD	Assoc. Prof.	General Medicine	06
130	Dr Deepak R Madi	MBBS MD	Assoc. Prof.	General Medicine	06
131	Dr Pradeep Kumar Shenoy C	MBBS MD	Asst. Prof.	General Medicine	04
132	Dr. Abul Fazil	MBBS MD	Asst. Prof.	General Medicine	05
133	Dr. Archith Boloor	MBBS MD	Asst. Prof.	General Medicine	05
134	Dr. Deepak Rao B	MBBS MD	Asst. Prof.	General Medicine	04
135	Dr. Sheetal Raj M	MBBS MD	Asst. Prof.	General Medicine	03
136	Dr. Bengre Mridula Laxman	MBBS MD	Senior Resident	General Medicine	02
137	Dr. Mahesha P	MBBS MD	Senior Resident	General Medicine	02
138	Dr. Jinzy Mariam George	MBBS MD	Senior Resident	General Medicine	02
139	Dr. Ajay N Bhat M	MBBS MD	Senior Resident	General Medicine	02
140	Dr. Riffat Abdul Aziz	MBBS MD	Senior Resident	General Medicine	03
141	Dr. Arjun Srinivas Nayak	MBBS MD	Senior Resident	General Medicine	02
142	Dr. Madhusudan Raikar	MBBS MD	Senior Resident	General Medicine	

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143	Dr. Prashantha B	MBBS DNB	Senior Resident	General Medicine	02
144	Dr. Mayoor Vasant Prabhu	MBBS MD, DNB	Asst. Prof.	General Medicine	02
145	Dr. Guruprasad B	MBBS MD, DM (Medical Oncology)	Asst. Prof.	General Medicine	<01
146	Dr Ramanath L Kamath	MBBS MD, DM(Cardio)	Prof. & Head	Cardiology	35
147	Dr Padmanabha Kamath K	MBBS MD, DM(Cardio)	Addl. Prof.	Cardiology	15
148	Dr M Narayan Bhat	MBBS MD, DM(Cardio)	Assoc. Prof.	Cardiology	11
149	Dr Narasimha Pai D	MBBS MD, DM (Cardio) DNB (Cardio)	Assoc. Prof.	Cardiology	10
150	Dr. Rajesh Bhat U	MBBS MD, DNB	Asst. Prof.	Cardiology	06
151	Dr. Maneesh Rai K	MBBS MD, DM	Asst. Prof.	Cardiology	02
152	Dr B Vishwanath Tantry	MBBS MD DM (Gastro)	Prof. & Head	Gastroenterology	28
153	Dr Sandeep Gopal Krishna N R	MBBS DNB (Med) DNB (Gastro)	Assoc. Prof.	Gastroenterology	12
154	Dr. Suresh Shenoy	MBBS MD, DM	Assoc. Prof.	Gastroenterology	06
155	Dr. Rakhsith K C	MBBS MD,DM	Assoc. Prof.	Neurology	05
156	Dr. Misri Z K	MBBS MD,DM	Assoc. Prof.	Neurology	10
157	Dr. Shivananda Pai D	MBBS MD,DM	Assoc. Prof.	Neurology	03
158	Dr B Shantharam Baliga	MBBS MD	Prof. & Head	Paediatrics	26
159	Dr Nutan Kamath	MBBS MD	Prof.	Paediatrics	24
160	Dr Ali K	MBBS MD	Prof.	Paediatrics	20
161	Dr Kamalakshi G Bhat	MBBS MD	Prof.	Paediatrics	15
162	Dr Janardhan Shenoy A	MBBS MD, DCH	Assoc. Prof.	Paediatrics	15
163	Dr Sowmini P Kamath	MBBS MD	Assoc. Prof.	Paediatrics	10
164	Dr (Major) Rajesh S M	MBBS MD	Assoc. Prof.	Paediatrics	10
165	Dr Jayashree K	MBBS MD	Assoc. Prof.	Paediatrics	08
166	Dr Suchetha S Rao	MBBS MD	Assoc. Prof.	Paediatrics	08

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167	Dr Soundarya M	MBBS MD	Assoc. Prof.	Paediatrics	07
168	Dr Ravikiran S R	MBBS MD	Assoc. Prof.	Paediatrics	07
169	Dr Madhav Kamath K	MBBS MD	Assoc. Prof.	Paediatrics	05
170	Dr. Harris M M	MBBS MD	Asst. Prof.	Paediatrics	06
171	Dr. Murali Keshava S	MBBS MD	Asst. Prof.	Paediatrics	09
172	Dr. Moideen Faheem	MBBS MD	Asst. Prof.	Paediatrics	05
173	Dr. Smitha Sharlette D'Sa	MBBS MD	Asst. Prof.	Paediatrics	06
174	Dr. Kiran N Baliga	MBBS MD	Asst. Prof.	Paediatrics	04
175	Dr. Shetty Subhodh Sivarama	MBBS MD	Asst. Prof.	Paediatrics	04
176	Dr. Harsha Prasad L	MBBS MD, D Ch, DNB	Asst. Prof.	Paediatrics	01
177	Dr. Prashant Kini K	MBBS MD	Senior Resident	Paediatrics	03
178	Dr. Manas M Shanbhag	MBBS MD	Senior Resident	Paediatrics	02
179	Dr Pramod Kumar	MBBS MD	Prof. & Head	Dermatology, Venereology and Leprosy	21
180	Dr Maria Kuruvila	MBBS MD, DVD	Prof.	Dermatology, Venereology and Leprosy	23
181	Dr Gatha M Upadya	MBBS MD	Addl. Prof.	Dermatology, Venereology and Leprosy	21
182	Dr. Kashinath Nayak A	MBBS MD	Asst. Prof.	Dermatology, Venereology and Leprosy	07
183	Dr. Surekha M S	MBBS, DDVL	Senior Resident	Dermatology, Venereology and Leprosy	02
184	Dr. Keshava Pai K	MBBS MD	Prof. & Head	Psychiatry	13
185	Ms. Mariella D' Souza	MSW, M Phil	Selection Grade Lecturer	Psychiatry	23
186	Ms. Seemanthini T S	MA, M Phil	Asst. Prof.	Psychiatry	05
187	Mr. Syam K R	M Sc, M Phil	Asst. Prof.	Psychiatry	02
188	Dr. Caroline P D'Souza	MBBS, DPM, DNB	Senior Resident	Psychiatry	05

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189	Dr. Poonam M	MBBS MD	Senior Resident	Psychiatry	01
190	Dr Alfred Joseph Augustine	MBBS MS	Prof. & Head	General Surgery	20
191	Dr B. Manjunath Nayak	MBBS MS, D Ortho	Prof.	General Surgery	34
192	Dr K. Ramachandra Pai	MBBS MS	Prof.	General Surgery	32
193	Dr. K . Jayarama Shenoy	MBBS MS	Prof.	General Surgery	30
194	Dr Thangam Verghese Joshua	MBBS MS, M Ch	Prof.	General Surgery	31
195	Dr Harish Rao K.	MBBS MS	Prof.	General Surgery	26
196	Dr Shivananda Prabhu H.	MBBS MS	Prof.	General Surgery	18
197	Dr BK Shivaprasad Rai	MBBS MS	Prof.	General Surgery	25
198	Dr M Sriram Bhat	MBBS MS	Prof.	General Surgery	23
199	Dr Yogesh Kumar	MBBS MS	Prof.	General Surgery	23
200	Dr Manohar V. Pai	MBBS MS	Addl. Prof.	General Surgery	16
201	Dr Ashfaque Mohammed	MBBS DNB (SURG)	Associate Prof.	General Surgery	14
202	Dr Keshav Prasad Y. V.	MBBS MS	Assoc. Prof.	General Surgery	09
203	Dr Poorna Chandra Thejeswi	MBBS MS	Assoc. Prof.	General Surgery	08
204	Dr U. Anand Kini	MBBS M S, M Ch	Assoc. Prof.	General Surgery	30
205	Dr Sunil Kumar Shetty	MBBS MS	Assoc. Prof.	General Surgery	07
206	Dr. Rahul R Bhat	MBBS,MS,DNB	Assoc. Prof.	General Surgery	07
207	Dr. Shibumon M M	MBBS,MS,DNB	Asst. Prof.	General Surgery	08
208	Dr. Venkatesh Shanbhag M	MBBS MS	Asst. Prof.	General Surgery	07
209	Dr. Ranjith Rao M	MBBS, DNB	Asst. Prof.	General Surgery	05
210	Dr. Aravindan R	MBBS MS	Asst. Prof.	General Surgery	<01
211	Dr. Vivek M A	MBBS MS	Asst. Prof.	General Surgery	02
212	Dr. Sunil Kumar Math	MBBS MS	Senior Resident	General Surgery	01
213	Dr. Sushruth I Shetty	MBBS MS	Senior Resident	General Surgery	01
214	Dr M Suresh Pai	MBBS MS, M Ch	Prof.	General Surgery	32
215	Dr Ashok B Shetty	MBBS MS, M Ch	Prof.	General Surgery	25

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216	Dr Chandra Kumar Ballal	MBBS MS, M Sc(Neuro)	Assoc. Prof.	General Surgery	27
217	Dr. Rohan Shetty	MBBS MS, M Ch	Assoc. Prof.	General Surgery	01
218	Dr Sadashiva Rao P	MBBS MS, M Ch	Assoc. Prof.	General Surgery	19
219	Dr G G Laxman Prabhu	MBBS MS M Ch (Uro) DNB (Uro)	Prof. & Head	Urology	21
220	Dr Ranjit Shetty	MBBS MS, DNB (Genito Urinary) M Ch (Genito Urinary)	Assoc. Prof.	Urology	18
221	Dr Muralidhar Pai K	MBBS MS M Ch	Prof. & Head	Neurosurgery	20
222	Dr Arjun Shetty	MBBS MS M Ch	Prof.	Neurosurgery	10
223	Dr. Guthe Sachin Parashuram	MBBS MS M Ch	Asst. Prof.	Neurosurgery	01
224	Dr Surendra Umesh Kamath	MBBS D Ortho, DNB, FRCS	Prof. & Head	Orthopaedics	22
225	Dr B N Jagannath Kamath	MBBS D Ortho, MS	Prof.	Orthopaedics	25
226	Dr Prem Kotian	MBBS MS	Prof.	Orthopaedics	24
227	Dr Ghanashyam Kamath K	MBBS D Ortho, MS	Prof.	Orthopaedics	16
228	Dr Ramachandra Kamath K	MBBS D Ortho, DNB	Addl. Prof.	Orthopaedics	12
229	Dr. Amarnath D Savur	MBBS D Ortho, DNB	Addl. Prof.	Orthopaedics	12
230	Dr Janardhana Aithala P	MBBS D Ortho, DNB	Assoc. Prof.	Orthopaedics	12
231	Dr Deepak John Victor Pinto	MBBS MS, FRCS	Assoc. Prof.	Orthopaedics	11
232	Dr Premjit R Sujir	MBBS MS	Assoc. Prof.	Orthopaedics	08
233	Dr. Dinesh K V N	MBBS MS	Assoc. Prof.	Orthopaedics	06
234	Dr Preetham Salian	MBBS MS	Assoc. Prof	Orthopaedics	07
235	Dr. Sandeep Kini B	MBBS MS	Asst. Prof.	Orthopaedics	02
236	Dr. Vivek Nahar	MBBS MS	Asst. Prof.	Orthopaedics	03

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237	Dr. Nikil Jayasheelan	MBBS MS	Senior Resident	Orthopaedics	02
238	Dr. Rajendra A	MBBS MS	Senior Resident	Orthopaedics	<01
239	Dr. Varghese Joe C	MBBS D Ortho, MS	Senior Resident	Orthopaedics	<01
240	Dr. Rejith Mathews Philip	MBBS MS	Senior Resident	Orthopaedics	<01
241	Dr. R A Purnachandra Tejaswi	MBBS MS	Senior Resident	Orthopaedics	<01
242	Dr. R. Naufal Rizwan Ahmed	MBBS MS	Senior Resident	Orthopaedics	<01
243	Dr. Mulky Navaneeth Kamath	MBBS MS	Senior Resident	Orthopaedics	<01
244	Dr Sumana Jagannath Kamath	MBBS MS	Prof. & Head	Ophthalmology	22
245	Dr M Gurudutt Kamath	MBBS MS, DOMS	Prof.	Ophthalmology	32
246	Dr M Manjunath Kamath	MBBS MS, DOMS	Prof.	Ophthalmology	25
247	Dr Shobha G Pai	MBBS MS, DOMS	Addl. Prof.	Ophthalmology	18
248	Dr Ajay R Kamath	MBBS MS	Assoc. Prof.	Ophthalmology	21
249	Dr Rajesh R Nayak	MBBS MS, DNB, FRCS	Assoc. Prof.	Ophthalmology	13
250	Dr. Susan D'Souza	MBBS DOMS	Senior Resident	Ophthalmology	07
251	Dr. Abin Holla	MBBS MS	Senior Resident	Ophthalmology	02
252	Dr. Madhurima K Nayak	MBBS MS	Senior Resident	Ophthalmology	<01
253	Dr Kiran M Bhojwani	MBBS MS	Prof. & Head	Otorhinolarin-gology	18
254	Dr M Panduranga Kamath	MBBS MS	Prof.	Otorhinolarin-gology	25
255	Dr Suja Sreedharan S	MBBS MS	Prof.	Otorhinolarin-gology	17
256	Dr Vijendra Shenoy S	MBBS MS	Assoc. Prof.	Otorhinolarin-gology	09
257	Dr Raghavendra Rao A	MBBS MS	Assoc. Prof.	Otorhinolarin-Gology	09

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258	Dr Devi Prasad D	MBBS MS MRCS	Assoc. Prof.	Otorhinolarin- gology	08
259	Dr. Arati Alva	MBBS MS	Asst. Prof.	Otorhinolarin- gology	06
260	Dr. Vishnu Prasad K P	MBBS MS	Senior Resident	Otorhinolarin- gology	02
261	Dr A Arun Rao	MBBS DGO, MD	Prof. & Head	Obstetrics & Gynaecology	27
262	Dr S Radhakrishna Nayak	MBBS DGO, MD	Prof.	Obstetrics & Gynaecology	25
263	Dr Pralhad Kushtagi	MBBS MD	Prof.	Obstetrics & Gynaecology	26
264	Dr Suchitra Thunga	MBBS DGO, MD	Prof.	Obstetrics & Gynaecology	18
265	Dr Priya Ballal K	MBBS MD	Prof.	Obstetrics & Gynaecology	14
266	Dr Vijaya Manohar Revankar	MBBS MD	Assoc. Prof.	Obstetrics & Gynaecology	15
267	Dr Nina Ajit Mahale	MBBS MD	Assoc. Prof.	Obstetrics & Gynaecology	13
268	Dr Anupama Suresh Y	MBBS DNB DGO	Assoc. Prof.	Obstetrics & Gynaecology	11
269	Dr Badekai Poornima Ramachandra Bhat	MBBS MD	Assoc. Prof.	Obstetrics & Gynaecology	11
270	Dr Bharathi Rao	MBBS MD	Assoc. Prof.	Obstetrics & Gynaecology	11
271	Dr Anagha Janardhan Kamath	MBBS MD FCPS	Assoc. Prof.	Obstetrics & Gynaecology	09
272	Dr Jyothi Harish Rao	MBBS MS	Assoc. Prof.	Obstetrics & Gynaecology	07
273	Dr Shraddha Shetty K	MBBS MS	Assoc. Prof.	Obstetrics & Gynaecology	05
274	Dr Raja Laxmi Kamath K	MBBS MD	Assoc. Prof.	Obstetrics & Gynaecology	06
275	Dr. Sharan J Pal	MBBS DGO, DNB	Asst. Prof.	Obstetrics & Gynaecology	11
276	Dr. Nikil Shetty	MBBS MS	Asst. Prof.	Obstetrics & Gynaecology	07
277	Dr. Vittal Saralaya	MBBS MD, DGO	Asst. Prof.	Obstetrics & Gynaecology	06

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278	Dr. Supriya K	MBBS MS	Asst. Prof.	Obstetrics & Gynaecology	05
279	Dr. Adithi S Shetty	MBBS MS	Asst. Prof.	Obstetrics & Gynaecology	04
280	Dr. Rashmi Polnaya	MBBS MS	Asst. Prof.	Obstetrics & Gynaecology	05
281	Dr. Asha Shanbhag	MBBS MS	Asst. Prof.	Obstetrics & Gynaecology	04
282	Dr. Lynsel Hilda Texeira	MBBS MS	Asst. Prof.	Obstetrics & Gynaecology	03
283	Dr. Akanksha Gupta	MBBS MS	Senior Resident	Obstetrics & Gynaecology	02
284	Dr. Pundalik Baliga	MBBS MS	Senior Resident	Obstetrics & Gynaecology	01
285	Dr. Ambika Hegde	MBBS MS	Senior Resident	Obstetrics & Gynaecology	<01
286	Dr Thrivikram Shenoy	MBBS DA, MD	Prof. & Head	Anaesthesiology	27
287	Dr Saroja V Sharma	MBBS DA, MD	Prof.	Anaesthesiology	35
288	Dr Madhusudan Upadya	MBBS MD	Prof.	Anaesthesiology	22
289	Dr K Rajaram Baliga	MBBS MD, DA	Prof.	Anaesthesiology	25
290	Dr Shaila S Kamath	MBBS MD	Prof.	Anaesthesiology	14
291	Dr Suresh Y V	MBBS MD	Assoc. Prof.	Anaesthesiology	16
292	Dr Rammoothi Rao	MBBS MD	Assoc. Prof.	Anaesthesiology	14
293	Dr Padmanabha K	MBBS MD	Assoc. Prof.	Anaesthesiology	11
294	Dr Jitesh Marian Rasquinha	MBBS MD	Assoc. Prof.	Anaesthesiology	10
295	Dr. Sunil B V	MBBS MD	Assoc. Prof.	Anaesthesiology	07
296	Dr. Sonal N Bhat	MBBS MD	Asst. Prof.	Anaesthesiology	06
297	Dr. Suhas R	MBBS DNB	Asst. Prof.	Anaesthesiology	03
298	Dr. Julie C R Misquith	MBBS MD	Asst. Prof.	Anaesthesiology	03
299	Dr. Neeta S	MBBS MD	Asst. Prof.	Anaesthesiology	01
300	Dr. Shetty Veena Anand	MBBS MD	Asst. Prof.	Anaesthesiology	03
301	Dr. Sangeetha B	MBBS DA	Senior Resident	Anaesthesiology	05
302	Dr. Gopalkrishna Yeshwanth Kamath	MBBS DA	Senior Resident	Anaesthesiology	04
303	Dr. Kaushik Rao Seetharam	MBBS MD	Senior Resident	Anaesthesiology	02
304	Dr. Manasa Acharya	MBBS MD	Senior Resident	Anaesthesiology	03

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305	Dr. Shaik Gulam Osmani	MBBS MD	Senior Resident	Anaesthesiology	<01
306	Dr. Shilpa A Naik	MBBS MD	Senior Resident	Anaesthesiology	<01
307	Dr. Dattatray Prabhu	MBBS MD	Senior Resident	Anaesthesiology	<01
308	Dr Ashvini Kumar	MBBS MD	Prof. & Head	Radiodiagnosis	19
309	Dr Prashanth Kumar M.	MBBS DMRD, DNB	Prof.	Radiodiagnosis	24 20
310	Dr Ajit R. Mahale	MBBS MD	Prof.	Radiodiagnosis	22
311	Dr. Anand Venugopal	MBBS MD	Prof.	Radiodiagnosis	19
312	Dr. Vinaya Poornima S.	MBBS MD	Assoc. Prof.	Radiodiagnosis	16
313	Dr. Sonali Ullal	MBBS MD	Assoc. Prof.	Radiodiagnosis	16
314	Dr. Santosh Rai P. V.	MBBS MD, DNB, FRCR (UK)	Assoc. Prof.	Radiodiagnosis	16
315	Dr. Keerthiraj B.	MBBS MD, DNB, DM	Asst. Prof.	Radiodiagnosis	10
316	Dr. Suprasanna	MBBS DO, MD (Radio)	Asst. Prof.	Radiodiagnosis	9
317	Dr. Merwyn Fernandes	MBBS DMRD, DNB	Asst. Prof.	Radiodiagnosis	10
318	Dr. Sonali Dattatray Prabhu	MBBS MD	Asst. Prof.	Radiodiagnosis	7
319	Dr, Pallavi Rao	MBBS DNB	Asst. Prof.	Radiodiagnosis	7
320	Dr. Chanabasappa Chavadi	MBBS DMRD, DNB	Asst. Prof.	Radiodiagnosis	10
321	Dr. Mithun Shekar	MBBS MD	Senior Resident	Radiodiagnosis	<01
322	Dr. Denis Thomas P	MBBS DNB	Senior Resident	Radiodiagnosis	<01
323	Dr. Ravi Kumar Manipati	MBBS MD	Senior Resident	Radiodiagnosis	<01
324	Dr. Dinesh Pai Kasturi	MBBS DMRT, MD	Prof. & Actg Head	Radiotherapy	33
325	Dr. Challapalli Srinivas	M Sc., Dip. R.P. Ph D	Assoc. Prof.	Radiotherapy	23
326	Dr. P U Prakash Saxena	MBBS MD	Assoc. Prof.	Radiotherapy	08
327	Dr. Sourjya Banerjee	MBBS MD	Asst. Prof.	Radiotherapy	01
328	Mr. Putha Suman Kumar	M Sc., Dip R P	Lecturer in Med Physics	Radiotherapy	01

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329	Dr. Anand R	MBBS MD	Prof. & Head	Pulmonary Medicine	15
330	Dr. Ramesh Chandra Sahoo	MBBS MD	Prof.	Pulmonary Medicine	27
331	Dr. Vishak Acharya K	MBBS DTCD, DNB	Addl. Prof.	Pulmonary Medicine	14

11. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

Sl. No.	Name of the Teacher	Designation	Department
1.	Dr. Sudarshan H Ballal	Professor	Nephrology
2.	Dr. Vatsala Mallya	Hon. Associate Professor	Obstetrics & Gynaecology
3.	Dr. Basanti Devi	Guest Faculty	Audiology & Speech language Pathology
4.	Dr. B.H. Krishnamurthy Rao	Professor	General Medicine
5.	Dr. K. Ganesh Pai	Professor of Paediatric Surgery	General Surgery
6.	Dr. U. Venkatramana Shenoy	Professor	Paediatrics
7.	Prof. P. Venugopal	Professor	Urology
8.	Dr. Y. S. Rai	Professor	General Surgery
9.	Dr. Rajesh Khullar	Professor	General Surgery
10.	Dr. V. Venkatesh	Professor	General Surgery
11.	Dr. Geethanjali G.M.	Honorary Medical Officer	Obstetrics & Gynaecology
12.	Dr. Kawari Ramesh Timmappa	Honorary Medical Officer	Obstetrics & Gynaecology

12. Percentage of classes taken by temporary faculty – program-wise information: Nil

13. Program-wise Student Teacher Ratio: Medical: 5:1

14. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

Sanctioned Posts: 340, Filled: 333

15. Research thrust areas as recognized by major funding agencies:

Research being a component of the Vision statement of the institution, there are numerous thrust areas in respective departments. Some of the areas of research include but are not limited to the following: Radiation induced cytotoxicity, Effect of experimental drugs on rats, Clinical trial research, infectious diseases, Cancers, Neuroscience, Free radical toxicity and antioxidants in human diseases including malignancies, Diabetes mellitus, Metabolic syndrome, Dyslipidemia, Obesity, Thyroid disorders,

16. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:

There 22 ongoing research projects in the institution with a total grant sanction of Rs. 272,33,007/-. In the year 2014, Rs. 64,23, 862/- has been received. Details are as follows:

#	Title Of The Research Project	Name Of The Donor/Grantor	Principle Investigator	Amount Approved
1	Amoleioration Of Diabetic Rats Complications By Select Indigenous Physiotherapeutic Agents In Streptzotocin Induced Diabetic Rats	ICMR New Delhi	Dr Poornima Manjrekar ,Prof & HOD Dept Of Biochemsitry	304519.00
2	Building Capacity For Tobacco Cessation In India And Indonesia	Sree Chitra Tirunal Institute For Medical Science And Technology	Dr Unnikrishnana B , Prof & HOD Dept Of Com Med	1240000.00
3	Diabetes Study -Prevalance Of Genetic Polymorphism In (Cyp) Gene Patients With Pcos And Their I Degree Relatives And Its Correlation With Androgen Excess ,Insulin Resistance And Cortisol Excess	Diabetes Research Centre Chennai	Dr Prabha Adhikari ,Prof Dept Of Medicine	250000.00
4	A Test Of Cognitive Communicative Abilities	Ministry Of Science And Technology ,Dept Of Science And Technology ,New Delhi	Dr Jayashree Bhat ,Prof & HOD Dept Of Speech & Hearing	432000.00

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5	Pilot Clinical Studies	Apex Lab Pvt Ltd Chennai	Dr Ashok Shenoy & Dr Muktha Chowta , Dept Of Pharmacology	481750.00
6	Role Of Nucleus Accumens And Related Subcortical Centres In Addiction And Consumatory Behaviour	Ministry Of Science &Technology ,New Delhi	Dr Ganaraj B , Assoc Prof Dept Of Physiology	3889875.00
7	Evaluation Of Antidiabetic Activity Of 5 Different Extracts Of Costuc Pictus In Streptozotocin Induced Diabetic Rats -5 Studies	Arujuna Natural Extracts Ltd Aluva ,Kerala	Dr Sheetal , Assoc Prof Of Pharmacology	899240.00
8	Turmeric (BCM5) And Bospure/Akba Max) Extracts & Its Formulations	Arujuna Natural Extracts Ltd Aluva ,Kerala	Dr Sahana ,Dept Of Assoc Prof Pharmacology	56752.00
9	Prevalaence Of Genetic Polymorphism In Patients With PCOS & Their First Degree Relatives & Its Correlation With Insulin Resistance	Research Society For The Study - Of Diabetes In India ,(RSSDI)New Delhi	Dr Prabha Adhikari ,Prof Dept Of Medicine	380000.00
10	Evaluation Of Anti Obesity Effect Of Smartlean In Adult Wistar Rats	Sreedhareeyam Ayurvedic Hospital & Research Centre ,Ernakulam	Dr Ashok Shenoy , Prof & HOD Dept Of Pharmacology	103590.00
11	Profiling Selected Speech Characteristics In Geriatrics	Govt Of India ,Dept Of Science & Technology ,New Delhi (Seed Division) ,SSD/TISN/025/201 1-Tie(G)29/9/2011	Dr Jayashree Bhat ,Prof & HOD Dept Of Speech & Hearing	1634506.00
12	Neurocognitive Linguistic Processing Skills In Children With Learning Disabilities 'An Insight Into Identification And Management	Govt Of India ,Ministry Of Science & Technology ,Dept Of Science & Technology ,Sr/Csi/29/2011(G)/ 22/2/2012	Dr Jayashree Bhat ,Prof & HOD Dept Of Speech & Hearing	1643600.00

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13	Molecular Characteristics Of Bacteriuria In Patients With 2 Type Diabetes Mellotus With Special Recommendation For Routing Screening & Treatment	Association Of Physicians Of India ,Api , Karnataka Chapter	Dr Prabha Adhikari ,Prof Dept Of Medicine	270000.00
14	DLHS -4 (District Level House Hold Survey (Cab Component)	National Institute Of Health And Family Welfare (NIHFW) ,New Delhi	Dr Unnikrishnana B , Prof & HOD Dept Of Com Med	2104950.00
15	A School Based Programmee To Improve Quality Of Life In School Children With Bronchial Asthma At Mangalore	St Johns Research Institute ,Bangalore	Dr Animesh Jain, Assoc Prof Dept Of Com Med	397000.00
16	Comparative Effects Of Hydro Alcoholic Extracts Of Psidium And Persea Americana With Its Bioactive Principles In Modualtaing Radiation Induced Cytotoxicity	BARC ,GOI ,Dept Of Atomic Energy ,Trombay ,Mumbai - 4000085	Dr Reshma Kumarchandra ,Assoc Prof Dept Of Biochemistry	1266245.00
17	Biplanar C Arm :A Solution To The Short Comings Of Conventional Image Intensifier	Govt Of India ,Department Of Atomic Energy (DAE) ,BARC Trombay , Sanction No 2012/34/74/BRNS/ With ATC ,BRNS	Dr B J Kamath ,Prof &Hod Orthopaedics	1949750.00
18	Feasibility ,Working And Translation Of Peri Natal Death Audit System For Improvements In Quality Of Care : A Health System Interventional Research	ICMR New Delhi	Dr Shantharam Baliga ,Prof & HOD Dept Of Paediatrics	2851262.00
19	A Cognitive Communicative Selflearning Tool	Department Of Science & Technology (DST) , Seed Division ,New Delhi	Dr Jayashree Bhat ,Prof & HOD Dept Of Speech & Hearing	4915968.00
20	REASLR -CSM For Concentrated Sputum Smear Microscopy And For Culture On Lowenstein 'Jensen Medium In Diagnosis Of Tuberculosis"	Reamatrix India Private Limited ,Bangalore	Dr Shrikala Baliga ,Prof & HOD ,Dept Of Microbiology	912000.00

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21	Collaborative Research Activities For Developing And Validating Pcr Assays On Bigtec 'S Hand Held PCR For Use In Screening/Clinical Diagnosis(The 'Research Project')	Bigtec Pvt Limited ,2 Nd Floor ,Golden Heights Building ,59 ,C Cross ,4 M Block ,Rajajinagar ,Bangalore-10	Dr Shrikala Baliga ,Prof & HOD ,Dept Of Microbiology	
22	Neuro Protective Role Of Cyndon Dactylon Extract On Cognitive Functions And Biosensitivity Of Distinct Brain Tissues In Electron Beam Irradiated Swiss Albino Mice "	Dept Of Board Of Research In Nuclear Sciences (BRNS)	Dr Nayantara Arun Kumar	1250000.00
TOTAL				27233007.00

17. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration: Nil

18. Institutional projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: _____

Same as in Question no. 16

19. Research facility / centre with

- state recognition: **Nil**
- national recognition: **Nil**
- international recognition : **Nil**

20. Special research laboratories sponsored by / created by industry or corporate bodies: **Nil**

21. Publications last three years

- * Number of papers published in peer reviewed journals (national / international): 1080
- * Monographs: Nil
- * Chapters in Books: 28
- * Books edited: Nil
- * Books with ISBN with details of publishers: 17 books. Details given below:

3. Evaluative Report of the Institution

#	Name of the Faculty members	Name of the Book	Publication Name	Year of Publication
1.	Dr. M. Chakrapani, Associate Dean & Professor Department of General Medicine Dr. Sampath Kumar Madhyastha, Additional Professor Department of Anatomy	Manipal Manual of Clinical Anatomy – Volume I and Volume II	CBS	2014
2.	Dr. Shrijeet Chakraborti Associate Professor Department of Pathology	Cytogenetics – Allied Health Sciences	Self-Learning Material for BMLT, Sikkim Manipal University Distance Education	2014
3.	Dr. Ramadas Naik Professor Department of Pathology	Exam preparatory manual for undergraduates – General and Systemic Pathology	JP Publishers, Delhi	2014
4.	Dr. Raghavendra Bhat Professor Department of General Medicine	The Facts Of Life	Published by Penguin UK	2014
5.	Dr. Shivananda Prabhu H Professor Department of General Surgery	Pocket Manual on The Art of History Taking – 3 rd Edition	J P Brothers	2014
6.	Dr. M Shrirama Bhat Professor,	1. SRBs Surgical Operation Test &	J P Brothers	2014

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	Department of General Surgery	Atlas 2. SRB'S Clinical Methods in Surgery – Second Edition		
7.	Dr. M. Panduranga Kamath Professor, Department of Otorhinolaryngology Dr. Vijendra Shenoy S Associate Professor Department of Otorhinolaryngology Dr. Suja Sreedharan S. Professor, Department of Otorhinolaryngology	Microbiological Analysis of Paranasal Sinuses in Chronic Sinusitis	Lambert Academic Publishing, Germany	2014
8.	Dr. Vishnu Prasad K P Senior Resident Department of Otorhinolaryngology	Stuttering – Foundations and Clinical Applications – Second Edition	Lambert Academic Publishing Germany	2014
9.	Mr. Gagan Bajaj Assistant Professor – Senior Scale, Department of Audiology & Speech Language Pathology	Stuttering – Foundations and Clinical Applications – Second Edition	Pearson	2014
10.	Dr. B. Suresh Kumar Shetty Dr. Prateek Rastogi Dr. Tanuj Kanchan	Atlas of Forensic Pathology	J P Brothers	2013

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	Dr. Jagadish Rao P P Dr. Raghavendra Babu Y.P.			
11.	Dr. Ramadas Naik Dr. Sharada Rai	Rapid Review of Hematology	Jaypee Publisher	2013
12.	Dr. Ramadas Naik Dr. Sharada Rai	Text Book of Pathology & Genetics	Jaypee Publisher	2013
13.	Dr. Raghavendra Bhat Dr. Padmananbha Kamath K	ECG Diagnosis	CBS Publishers	2013
14.	Dr. Jayashree S Bhat	Manipal Manual for Cognitive Linguistic Abilities	Manipal University Press	2013
15.	Dr. Radish Kumar B Dr. Jayashree S Bhat	Manipal Manual for Swallowing Assessment	Manipal University Press	2012
16.	Dr. M Shrirama Bhat	SRB's Manual of Surgery (Fourth Edition)	Jaypee Brothers Medical Publisher	2012
17.	Dr. Raghavendra Bhat	Chest X-ray Diagnosis	PARAS	2012
18.	Dr. Nutan Kamath, Professor of Pediatrics	Chapter on Septic Arthritis in Pediatric Rheumatology Page 35- 40, 2nd edition	PEEPEE publishers, New Delhi	2014

- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)
- * Citation Index – range / average : Refer table below
- * SNIP : Refer table below
- * SJR : Refer table below
- * Impact Factor – range / average : Refer table below
- * h-index : Refer table below

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Scopus Analysis-2014 KMC Mangalore				
Total Documents indexed in Scopus in the year 2014: 150				
Total No. of citation: 69				
Average No. of citation:0.46				
SJR:As mentioned against each title below				
SNIP:As mentioned against each title below				
h-index: 3				
Sl.No	Title	Source title	SJR	SNIP
1	Assessment of learning styles of undergraduate medical students using the VARK questionnaire and the influence of sex and academic performance	Advances in Physiology Education	0.372	0.781
2	Compliance with iron-folic acid (IFA) therapy among pregnant women in an urban area of South India	African Health Sciences	0.432	0.822
3	Cutaneous neurocristic hamartoma presenting as cutis verticis gyrata	American Journal of Dermatopathology	0.516	0.922
4	An autopsy case of iatrogenic tracheoesophageal fistula secondary to tracheostomy	American Journal of Forensic Medicine and Pathology	0.441	0.796
5	Somatotropic and cardio-protective effects of ghrelin in experimental models of heart failure: A systematic review	Annals of Tropical Medicine and Public Health	0.136	0.231
6	Glove vacuum-assisted wound closure for the scrotum	Archives of Plastic Surgery	0.706	1.654
7	Perception and practices of standard precautions among health care professionals at tertiary care hospitals in coastal South India	Asian Journal of Pharmaceutical and Clinical Research	0.4	0.786
8	Dengue encephalitis-A rare manifestation of dengue fever	Asian Pacific Journal of Tropical Biomedicine	0.34	0.726
9	Case of a subcutaneous nodule	Asian Pacific Journal of Tropical Disease	0.587	1.414
10	Bilateral variations of brachial plexus involving the median nerve and lateral cord: An anatomical case study with clinical implications	Australasian Medical Journal	0.234	0.607
11	Utility of C-terminal telopeptide in evaluating levothyroxine replacement therapy-induced bone loss	Biomarker Insights	0.819	0.705
12	Automatic extraction of vertebral endplates from scoliotic radiographs using customized filter	Biomedical Engineering Letters	0.268	0.649
13	In vivo morphometry of menisci of the knee in South Indians: A preliminary study	Biomedical Journal	0.728	0.929

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14	Elevated ferritin level in a patient with autoimmune haemolytic anaemia	Biomedicine (India)	0.131	0.073
15	Meal induced dyslipidemia in type 2 diabetes mellitus	Biomedicine (India)	0.131	0.073
16	Intuitive weights of harm for therapeutic decision making in smear-negative pulmonary Tuberculosis: An interview study of physicians in India, Pakistan and Bangladesh	BMC Medical Informatics and Decision Making	0.717	0.967
17	Self-immolation - A protest against unfair practices in family/society?	Burns	0.655	1.131
18	The determination of total burn surface area	Burns	0.655	1.131
19	Cardiac pathology in fatal electrocution	Burns	0.655	1.131
20	Lobed spleen: An autopsy case report with emphasis on surgical anatomy	Clinica Terapeutica	0.2	0.312
21	Therapeutic efficacy of a novel Nanosomal Docetaxel lipid suspension compared with Taxotere in locally advanced or Metastatic breast cancer patients	Clinical Breast Cancer	0.991	0.867
22	The impact of female literacy on infant mortality rate in Indian States	Current Pediatric Research	0.19	0.402
23	Plagiarism - why blame it on the internet?	Current Science	0.293	0.771
24	Melioidosis of salivary glands with coexisting diabetes: Management of a difficult case	Ear, Nose and Throat Journal	0.213	0.348
25	Heel-ball index: An analysis of footprint dimensions for determination of sex	Egyptian Journal of Forensic Sciences	-	-
26	Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation	Environmental Research	1.574	1.627
27	Craniometric analysis for estimation of stature in Nepalese population-A study on an autopsy sample	Forensic Science International	0.991	1.342
28	Variability of palmprint ridge density in a North Indian population and its use in inference of sex in forensic examinations	HOMO	0.337	0.626
29	Variability of palmprint ridge density in a North Indian population and its use in inference of sex in forensic examinations	Homo : internationale Zeitschrift für die vergleichende Forschung am Menschen	0.337	0.626
30	Safety and immunogenicity study of a new purified chick embryo cell rabies vaccine Vaxirab-N (Pitman-Moore strain) manufactured in India	Human Vaccines and Immunotherapeutics	0.745	0.607
31	Castleman's disease with paraneoplastic pemphigus	Indian Journal of Dermatology	0.351	0.899

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32	Psoriasis and metabolic syndrome: A case control study	Indian Journal of Dermatology, Venereology and Leprology	0.551	1.302
33	Primary mucinous carcinoma of skin with psammoma bodies	Indian Journal of Dermatology, Venereology and Leprology	0.551	1.302
34	Correlation of clinico-pathological classification of hansen's disease in a South Indian city	Indian Journal of Leprosy	0.219	0.565
35	Willingness to participate in a clinical trial and understanding of informed consent information among medical students	Indian journal of medical ethics	0.136	—
36	Clinicomicrobiological analysis of patients with cholangitis	Indian Journal of Medical Microbiology	0.454	1.01
37	Clinical, biochemical & cytomorphologic study on hashimoto's thyroiditis	Indian Journal of Medical Research	0.701	1.367
38	Oral Microflora: A Comparative Study in HIV and Normal Patients	Indian Journal of Otolaryngology and Head and Neck Surgery	0.188	0.442
39	Cancer rehabilitation evaluation system questionnaire: A disease-specific and treatment-specific measure of rehabilitation needs and self-reported quality of life	Indian Journal of Palliative Care	0.25	0.664
40	Availability, current issues, and anticipation training for clinician-patient communication in palliative care: Learning and doing or learning by doing?	Indian Journal of Palliative Care	0.25	0.664
41	A clinicopathological study of interface dermatitis	Indian Journal of Pathology and Microbiology	0.257	0.704
42	Absence of anaplastic lymphoma kinase-1 expression in inflammatory myofibroblastic tumors of the central nervous system: Does it signify a different nosologic entity from its systemic counterpart?	Indian Journal of Pathology and Microbiology	0.257	0.704
43	Characterization of plasmid mediated AmpC producing Escherichia coli clinical isolates from a tertiary care hospital in South India	Indian Journal of Pathology and Microbiology	0.257	0.704
44	Factors influencing the television viewing practices of Indian children	Indian Journal of Pediatrics	0.341	0.584
45	A novel frameshift mutation in TWIST2 gene causing Setleis syndrome	Indian Journal of Pediatrics	0.341	0.584
46	Effect of Tribulus terrestris on haloperidol-induced catalepsy in mice	Indian Journal of Pharmaceutical Sciences	0.315	0.573
47	Comment: Comparison of efficacy, safety and cost-effectiveness of various statins in dyslipidemic diabetic patients	Indian Journal of Pharmacology	0.352	0.904

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48	Effect of Orexin-A infusion in to the Nucleus Accumbens on consummatory behaviour and alcohol preference in male Wistar rats	Indian Journal of Physiology and Pharmacology	0.208	0.638
49	Beneficial effect of Omega-3 polyunsaturated fatty acids on neurosensorial impairments and oxidative status in Streptozotocin induced diabetic rats	Indian Journal of Physiology and Pharmacology		
50	Awareness about community diagnosis among health care professionals in South India: A cross-sectional study	Indian Journal of Public Health Research and Development	0.104	0.03
51	Interaction of carbon nanotubes reinforced hydroxyapatite composite with Bacillus subtilis, P. aeruginosa and C. albicans	Indian Journal of Science and Technology	1.302	0.804
52	Profile of women seeking medical termination of pregnancy in South India	International Journal of Gynecology and Obstetrics	0.676	1.013
53	Inverse association between body mass index and suicide?	International Journal of Legal Medicine	1.124	1.367
54	Primary otomycosis in the indian subcontinent: Predisposing factors, microbiology, and classification	International Journal of Microbiology	0.9	0.947
55	Morphometric parameters of the human adult kidney: An anatomical study [Parámetros morfológicos del riñón humano adulto: Un estudio anatómico]	International Journal of Morphology	0.239	0.522
56	Effect of fluoride varnish and chlorhexidine-thymol varnish on mutans streptococci levels in human dental plaque: A double-blinded randomized controlled trial	International Journal of Paediatric Dentistry	0.788	1.383
57	Synthesis and Characterization of Polysialic Acid-Uricase Conjugates for the Treatment of Hyperuricemia	International Journal of Peptide Research and Therapeutics	0.291	0.461
58	Serum uric acid - Phosphate ratio as a differential diagnostic marker of prostate disorders	International Journal of Pharma and Bio Sciences	0.329	0.643
59	Profile of vitamin D deficiency in Mangalore	International Journal of Pharma and Bio Sciences	0.329	0.643
60	Study on occurrence of ESBL and Amp C beta lactamase among gram negative clinical isolates from Government hospital, Mangalore	International Journal of Pharma and Bio Sciences	0.329	0.643
61	Antioxidant status and zinc levels in alcoholic liver disease	International Journal of Pharma and Bio Sciences	0.329	0.643
62	Tartrate resistant acid phosphatase as a marker in osteoporosis and bone malignancy	International Journal of Pharma and Bio Sciences	0.329	0.643
63	Ethanol extract of oral Areca catechu promotes burn wound healing in rats	International Journal of Pharmaceutical Sciences Review and Research	0.202	0.349

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64	Effect of prenatal isotretinoin on postnatal development of rat retina and expression of doublecortin positive cells: A morphometric and histopathological analysis	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
65	Resveratrol reverses the restraint stress-induced cognitive dysfunction involving brain antioxidant system in rats	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
66	Hepatoprotective activity of Phyllanthusniruri in thioacetamide induced hepatotoxicity in male wistar rats	International Journal of Pharmacy and Pharmaceutical Sciences	0.298	0.643
67	A study of corrected QT dispersion before and after haemodialysis in ischemic heart disease patients	International Journal of Pharmacy and Technology	0.157	0.216
68	Psychiatric co-morbidities among patients with select non-communicable diseases in a coastal city of South India	International Journal of Preventive Medicine	0.458	0.746
69	Influence of iron deficiency anemia on hemoglobin A1C levels in diabetic individuals with controlled plasma glucose levels	Iranian Biomedical Journal	0.327	0.548
70	Evaluation of antioxidant potential of costus igneus in ethanol induced peroxidative damage in albino rats	Journal of Applied Pharmaceutical Science	0.257	0.537
71	PUO – A rare (and forgotten) cause!	Journal of Association of Physicians of India	0.236	0.409
72	Resveratrol for prenatal-stress-induced oxidative damage in growing brain and its consequences on survival of neurons	Journal of Basic and Clinical Physiology and Pharmacology	0.245	0.373
73	DNA promoter methylation-dependent transcription of the double C2-like domain β (DOC2B) gene regulates tumor growth in human cervical cancer	Journal of Biological Chemistry	2.734	1.15
74	Carbon nanotubes reinforced hydroxyapatite composite for biomedical application	Journal of Bionanoscience	0.975	0.447
75	Soft tissue myxoma- a rare differential diagnosis of localized oral cavity lesions	Journal of Clinical and Diagnostic Research	0.229	0.545
76	Psychological evaluation of patients in critical care/intensive care unit and patients admitted in wards	Journal of Clinical and Diagnostic Research	0.229	0.545
77	Medical students' research – Facilitators and barriers	Journal of Clinical and Diagnostic Research	0.229	0.545
78	Anthropometry and prevalence of common health problems among school going children in Surathkal, Karnataka	Journal of Clinical and Diagnostic Research	0.229	0.545

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79	Phaeohyphomycotic cyst in the foot by exophiala	Journal of Clinical and Diagnostic Research	0.229	0.545
80	A pilot study on long term effects of mobile phone usage on heart rate variability in healthy young adult males	Journal of Clinical and Diagnostic Research	0.229	0.545
81	A case of perianal and gluteal scrofulodefma	Journal of Clinical and Diagnostic Research	0.229	0.545
82	Laparoscopy-pneumothorax and ocular emphysema, a rare complication-a case report	Journal of Clinical and Diagnostic Research	0.229	0.545
83	Effectiveness of progressive resistance strength training versus traditional balance exercise in improving balance among the elderly - a randomised controlled trial	Journal of Clinical and Diagnostic Research	0.229	0.545
84	Angiolymphoid hyperplasia with eosinophilia of root of nose: A rare phenomenon	Journal of Clinical and Diagnostic Research	0.229	0.545
85	Evaluation of culture, antigen detection and polymerase chain reaction for detection of vaginal colonization of group B streptococcus in pregnant women	Journal of Clinical and Diagnostic Research	0.229	0.545
86	Prevalence of hypoparathyroidism in beta thalassemia major	Journal of Clinical and Diagnostic Research	0.229	0.545
87	Gaint peritoneal loose body: A case report and review of literature	Journal of Clinical and Diagnostic Research	0.229	0.545
88	Medical students' perception of their educational environment	Journal of Clinical and Diagnostic Research	0.229	0.545
89	Atypical manifestations of dengue fever - Where do we stand today?	Journal of Clinical and Diagnostic Research	0.229	0.545
90	Leptospirosis diagnosis: Competancy of various laboratory tests	Journal of Clinical and Diagnostic Research	0.229	0.545
91	Sarcomatoid renal cell carcinoma: Case report and review of literature	Journal of Clinical and Diagnostic Research	0.229	0.545
92	Two Rare Presentations of Epidermal Cyst	Journal of Clinical and Diagnostic Research	0.229	0.545
93	Neck circumference and cardio-metabolic syndrome	Journal of Clinical and Diagnostic Research	0.229	0.545
94	Effects of occupational tobacco exposure on foetal growth, among beedi rollers in coastal Karnataka	Journal of Clinical and Diagnostic Research	0.229	0.545

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95	Microbiological profile and drug sensitivity pattern among community acquired pneumonia patients in tertiary care centre in Mangalore, Coastal Karnataka, India	Journal of Clinical and Diagnostic Research	0.229	0.545
96	Retroperitoneal schwannoma: An atypical presentation	Journal of Clinical and Diagnostic Research	0.229	0.545
97	Risk factors assessment of the difficult intubation using intubation difficulty scale	Journal of Clinical and Diagnostic Research	0.229	0.545
98	Fine needle aspiration cytology of male breast lesions – A retrospective study over a six year period	Journal of Clinical and Diagnostic Research	0.229	0.545
99	Medical symbols in practice: Myths vs reality	Journal of Clinical and Diagnostic Research	0.229	0.545
100	Cost effective suction and drainage using mucus sucker	Journal of Clinical and Diagnostic Research	0.229	0.545
101	Doppler evaluation of ocular vessels in patients with primary open angle glaucoma	Journal of Clinical Ultrasound	0.292	0.615
102	A study of cranial variations based on craniometric indices in a south Indian population	Journal of Craniofacial Surgery	0.409	0.627
103	Comparative study on cardiac autonomic modulation during deep breathing test and diaphragmatic breathing in type 2 diabetes and healthy subjects	Journal of Diabetes Investigation	0.448	0.57
104	Significance of 'Letters to the Editor' in research	Journal of Forensic and Legal Medicine	0.476	0.748
105	Perceptions and practices of medical practitioners towards ethics in medical practice - A study from coastal South India	Journal of Forensic and Legal Medicine	0.476	0.748
106	Estimation of stature from lengths of index and ring fingers in a North-eastern Indian population	Journal of Forensic and Legal Medicine	0.476	0.748
107	Socio-demographic features of the victim of sexual assault	Journal of Forensic and Legal Medicine	0.476	0.748
108	Pattern of acute poisonings in children below 15 years - A study from Mangalore, South India	Journal of Forensic and Legal Medicine	0.476	0.748
109	Identifying the sexual dimorphism of deciduous dentition in a paediatric South Indian population	Journal of Forensic and Legal Medicine	0.476	0.748
110	Grooves on the hepatic surface	Journal of Forensic and Legal Medicine	0.476	0.748
111	Evaluation of Efficacy of Microwave Irradiation in Disinfecting Dental Gypsum Casts: An Ex Vivo Study	Journal of Indian Prosthodontist Society	0.136	0.298

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112	Dose verification in carcinoma of uterine cervix patients undergoing 3D conformal radiotherapy with Farmer type ion chamber	Journal of Medical Physics	0.327	0.695
113	A comprehensive predictive scoring method for difficult laparoscopic cholecystectomy	Journal of Minimal Access Surgery	0.47	0.953
114	Effect of methotrexate and vitamin A on NOR expression in seminiferous tubules of Wistar rats	Journal of Morphological Sciences	0.167	0.404
115	Rare variation in arterial branching of celiac trunk with three aberrant hepatic arteries – Case report	Journal of Morphological Sciences	0.167	0.404
116	Osteomyelitis of the Temporal Bone: Terminology, Diagnosis, and Management	Journal of Neurological Surgery, Part B: Skull Base	0.305	0.525
117	Osteomyelitis of the Temporal Bone: Terminology, Diagnosis, and Management	Journal of Neurological Surgery, Part B: Skull Base	0.305	0.525
118	Paracetamol in osteoarthritis: NICE guidelines or not so nice	Journal of Postgraduate Medicine	0.328	0.579
119	Comment on: Association of B12 deficiency and clinical neuropathy with metformin use in type 2 diabetes patients	Journal of Postgraduate Medicine	0.328	0.579
120	In defence of Girdlestone excision arthroplasty: A comment on "unusual way of loosened total hip arthroplasty treatment with an Austin Moore endoprosthesis"	Journal of Postgraduate Medicine	0.328	0.579
121	Authors' reply	Journal of Postgraduate Medicine	0.328	0.579
122	Scars - Do tell tales	Journal of Punjab Academy of Forensic Medicine and Toxicology	0.151	0.251
123	Acute aortic dissection – a rare cause of sudden death	Journal of Punjab Academy of Forensic Medicine and Toxicology	0.151	0.251
124	Fatal occupational scalds - A case report and review of literature	Journal of South India Medicolegal Association	0.1	0
125	Foramen magnum as a tool of estimating stature in a male population	Journal of South India Medicolegal Association	0.1	0
126	Sudden death due to septic thrombi associated with septicemia	Journal of South India Medicolegal Association	0.1	0

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127	Effect of lipodystrophy on the quality of life among people living with HIV (PLHIV) on highly active antiretroviral therapy	Journal of the International Association of Providers of AIDS Care	0.485	0.376
128	Osteometric analysis for sexing of modern sternum - An autopsy study from South India	Legal Medicine	0.629	1.003
129	A rare case of calcified pulmonary aspergilloma	Lung India	0.313	0.953
130	Medicine and medical education: Perspectives of second-year medical students	National Medical Journal of India	0.259	0.506
131	Diffusion MRI in transient global amnesia	Neurology India	0.402	0.798
132	Diffusion MRI in transient global amnesia.	Neurology India	0.402	0.798
133	Relationship between postural alignment in sitting by photogrammetry and seated postural control in post-stroke subjects	NeuroRehabilitation	0.543	0.709
134	Role of outreach camps in reducing the burden of cataracts in South India	Online Journal of Health and Allied Sciences	0.126	0.272
135	Bilateral simultaneous central retinal vein occlusion presenting as initial manifestation of multiple myeloma	Online Journal of Health and Allied Sciences	0.126	0.272
136	Splenic Epithelial Cyst with Elevated Ca 19-9 Levels	Online Journal of Health and Allied Sciences	0.126	0.272
137	Nimotuzumab provides survival benefit to patients with inoperable advanced squamous cell carcinoma of the head and neck: A randomized, open-label, phase IIb, 5-year study in Indian patients	Oral Oncology	1.275	1.371
138	Effect of tribulus terrestris on learning and memory in wistar rats	Pharmacognosy Journal	0.253	0.441
139	Population specific impact of genetic variants in KCNJ11 gene to type 2 diabetes: A case-control and meta-analysis study	PLoS ONE	1.3	1.034
140	Polymorphisms in radio-responsive genes and its association with acute toxicity among head and neck cancer patients	PLoS ONE	1.3	1.034
141	Efficacy of POSSUM score in predicting the outcome in patients undergoing emergency laparotomy	Polski Przegląd Chirurgiczny/ Polish Journal of Surgery	0.183	0.242
142	Pre morbid severity of chronic obstructive pulmonary disease as risk factor for carbon dioxide retention during acute exacerbation of chronic obstructive pulmonary disease	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
143	Evaluation of the Diuretic Activity of Alocasia macrorrhizos in Rats	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245

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144	N-acetylcysteine for gestational stress-induced behavioral toxicity	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
145	Diuretic activity of aqueous ethanolic extract of leaves of Costus speciosus in normal Wistar albino rats	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
146	The comparison of DDST and NCCLS methods in detecting ESBL production of E. coli and K. pneumonia	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
147	Evaluation of antidepressant activity of gallic acid in mice	Research Journal of Pharmaceutical, Biological and Chemical Sciences	0.157	0.245
148	A blast from the past!: The value of adding single slice magnetic resonance myelography sequence to magnetic resonance imaging of the spine; a flashback to the conventional myelography of the past	Surgical Neurology International	0.472	0.986
149	Preferred methods of suicide and most common poisonings in India	Toxicology International	0.31	0.814
150	Seminal vesicle schwannoma presenting with left hydronephrosis	Urology Annals	0.346	1.005

22. Details of patents and income generated: Nil

23. Areas of consultancy and income generated:

Income generated through consultancy and providing laboratory services in 2014 is approximately Rs. 1, 38, 644 and Rs. 56,25,797 respectively. Some of our consultants have served as consultants to various governmental and non-governmental organizations for effective implementation of various health care policies and national health programmes.

Our faculty are:

1. Technical Consultant for Karnataka State Health System Resource Centre & ICRA for Evaluation of Skilled Birth Attendant Training in 30 districts of Karnataka state.
2. Technical Consultant for Karnataka Health Promotion Trust & St John's National Academy of Health Sciences – Bangalore. For Samastha Team Training in the Comprehensive care of PLHIV for Doctors, Nurses & Counsellors of Community care centres & integrated positive prevention Clinics.
3. National Consultant on India Adaptation of Training Package on WHO Child Growth Standard (Integrating Mother & Child Protection Card)
4. State Medico-Legal Consultant
5. Consultants for NACO

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6. Consultant for NABH
7. Consultant for National Institute of Public Participation for Child Development
8. Ministry of Women and Child Welfare: Karnataka State Health Resource committee

24. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Nil

25. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (specify):

Total of 19 faculty. Details given below:

Name of Faculty	Department	Name of National Committee/ International Committee/ Editorial Board	Year
Dr. Vasudha V Saralaya	Anatomy	Associate editor of International Journal of Perioperative ultrasound and applied technologies.	2014
Dr. Latha V Prabhu	Anatomy	Member of editorial board of Romanian journal of Morphology and Embryology	2014
Dr. Latha V Prabhu	Anatomy	Member of editorial board of Academy of Medical sciences	2014
Dr. Latha V Prabhu	Anatomy	Editor of Basic sciences section of Indian journal of Otology.	2014
Dr. Sampath Madhyastha	Anatomy	Member of Austroasian cognitive neuroscience society, Australia	2014
Dr. Ashwin K	Anatomy	Editorial committee member of International journal of clinical and biomedical research.	2014
Dr. Murlimanju BV	Anatomy	Section editor of International multidisciplinary research journal,	2014
Dr. Murlimanju BV	Anatomy	Advisory board member of Annals of health and health sciences.	2014
Dr. B Suresh Kumar Shetty	Forensic Medicine	Editorial Board Member :Journal of Gynecology and Obstetrics (JGO) Advisory Board Member: Journal of Karnataka Medico-legal Society.	2014

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Dr. Prateek Rastogi	Forensic Medicine	<p>Editorial Board Member of:</p> <ul style="list-style-type: none"> i) Anthropology. ii) Journal of Forensic Science and Criminology. iii) Indian Journal of Emergency Medicine. iv) Indian Journal of Forensic and Community Medicine. v) Indian Journal of Forensic Medicine and Pathology. vi) Web Med Central (For forensic Medicine) vii) International journal of Medical toxicology and legal medicine <p>Executive Member: Indian Society of Toxicology</p>	
Dr. Tanuj Kanchan	Forensic Medicine	<p>Editorial Board Member of:</p> <ul style="list-style-type: none"> i) Egyptian Journal of Forensic Sciences ii) The Internet journal of Biological Anthropology. iii) The Internet journal of Biological Anthropology iv) The Journal of Clinical Pathology and Forensic Medicine v) Suicidology Online (SOL) iv) Indian Journal of Medical Specialities v) Journal of South Indian Medicolegal Association vi) Journal of Indian Society of Toxicology vii) Journal Of Mass Communication, Delinquency And Criminology viii) International Journal of Forensic Science & Pathology 	

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		ix)Austin Journal of Forensic Science and Criminology x)Austin Journal of Clinical Pathology. xi)Journal of Karnataka Medicolegal Society.	
Dr. Jagadish Rao P P	Forensic Medicine	Editorial Board Member : i) Forensic Medicine and Anatomy Research [FMAR] ii) Austin Journal of Anatomy. iii)Austin Journal of Criminology and Forensic Sciences”.	
Dr. Raghavendra Babu Y P	Forensic Medicine	Editorial Board Member : i)Web med central plus ii) SAJ Forensic Sciences,	
Dr. Animesh Jain	Community Medicine	Executive Editor – Annals of Community Medicine	2014
Dr.Prabha Adhikari	General Medicine	1.Joint Secretary -Indian Academy of Geriatrics National	2014
Dr.Prabha Adhikari	General Medicine	2.Executive Member geriatric Society of India	2014
Dr.Prabha Adhikari	General Medicine	4.Member of Editorial Board-Research ,Review,Report	2014
Dr.Thrivikram Shenoy	Anaesthesiology	Karnataka Anaesthesia Journal (Editorial board)	2014
DrMadhusudan Upadya	Anaesthesiology	Karnataka Anaesthesia Journal (Editorial board)	2014
DrMadhusudan Upadya	Anaesthesiology	Indian Journal of Anaesthesiology (Editorial board)	2014
Dr. Anand R		1. Member of Assessor Management committee of NABH 2. Member of editorial board of NABH Journal	2014
Dr. R.C. Sahoo		1. Member of National guidelines for Obstructive Sleep Apnea, Constituted by Ministry of Health, Government of India. 2. Is a Co-editor in Lung India	2014

Dr. Shrikala Baliga	Microbiology	Core Committee Member, National AIDS Control Organization (NACO) for Strengthening of Laboratories for HIV testing in India and for writing National Guidelines for Quality Control in HIV Testing	2014
Dr. Gopalkrishna Bhat	Microbiology	Nominated for Elsevier Editorial System (EES).	2014
Dr. Gopalkrishna Bhat	Microbiology	Editorial Board Member of the journal 'Case Reports in Urology' (Hindawi Publications Corporation, New York, indexed in PubMed, EBSCO).	2014
Dr. Dhanashree	Microbiology	Member of editorial board for the following scientific Journal- International Journal of Health & Rehabilitation Sciences (IJHRS)	2014

26. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs):

Faculty continuously update their knowledge or skills by taking part in Continued Medical Education programme, Workshops or conferences. In the year 2014, 188 faculty upgraded their knowledge.

27. Student projects

- percentage of students who have taken up in-house projects including inter-departmental projects:

All our students (100%) take part in research projects where in interdepartmental collaborations occur.

- **percentage of students doing projects in collaboration with other universities / industry / institute**

1 student (0.075%)

28. Awards / recognitions received at the national and international level by

- Faculty: 6
- Doctoral / post doctoral fellows : 4
- Students: In brief, 50 students were awarded the ICMR STS in 2014. Some were awarded travel grants to attend international conferences while others won several awards in National and international conferences for their paper presentations as detailed below:
 1. Four undergraduate students of our college who presented their research papers at the 21st International students Congress of Biomedical Sciences (ISCOMS – 2014) at Netherlands bagged many prizes
 2. Eight students visited various Universities and teaching Hospitals in Europe as a part of International Student Exchange Program to do their Elective Postings in UMC Groningen, Maastricht Atrium and Leiden Universities
 3. Ms. Prachi Bhagheria, UG student participated in the grand finale of Elsevier Basic Sciences Olympiad 2013 – 14
 4. UG student, Mr. Rajkiran Deshpande got travelling fellowship grant \$1000 SGD for the Conference International Symposium of Pediatric Neuro-Oncology at Singapore.
 5. Three first MBBS students, Jane Medonca, Manish Shetty, Mayur K Bhat won the first place in the regional intercollegiate Quiz competition in Biochemistry “Scintilla 2014” held at Father Muller Medical College.
 6. UG students, Ms. Sanjana Rai and Ms. Rithika Sriram and PG won in Pathology quiz competition conducted by KS Hegde and AJ Institute of Medical Sciences in the month of September
 7. UG student Ms. Aditi Gupta won 1st prize and Ms Aditi Bharadwaj won 3rd prize in Clinical case Presentation at Medsicon Conference conducted by Safdarjung Hospital New Delhi held on 8th-10th October
 8. UG students Ms Krithika D Shenoy and Ms Shweta R Poojary won 1st prize in State level Undergraduate ENT Quiz conducted by S S Institute of Medical Sciences Davangere on 6th Sept 2014
 9. Mr AKshay Sethi and Mr. Vijaya Kumar UG students won 2nd place in Zonal level IADVL CUTICON quiz competition held in Manipal on 24th August 2014
 10. Ms Vasudha Sharma won the Kadambi scholarship award of Manipal University for the year 2013-14

29. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

All departments in the institute organize continuous Continued Medical Education programmes in the form of seminars, workshops, and conferences. A few departments organized state, Regional and National level conferences. Most of these scientific programmes are supported by the Manipal University as well as National bodies like ICMR and MCI. It has been an endeavor of Manipal University to actively encourage institutes to organize scientific programmes to enhance knowledge and skills of its faculty, and students. In the year 2014, 21 such programmes were organized. A detailed list of conferences/ Seminars and Workshops organized by the institute is given below:

Conference	Department	Dates	Funding	Outstanding participants
South Regional Conference of the Association of Clinical Biochemists of India 2014	Biochemistry	22 nd & 23 rd May 2014	ICMR and Funds raised from local branches of banks & Diagnostic centers	Dr. A.S. Kanagasabhpathy, Dr. K. Ramnarayan, Dr. Shilpa Puthran, Dr. Ullas Kamath, Dr. Sudhakar Nayak, Dr. T. Vijay Kumar, Dr. D.M. Vasudevan, Dr. K. Satyamoorthy, Dr. Surekha Zingde, Dr. Kannan Vaidyanathan, Dr. U Sathyanarayana, Dr. Elizabeth A Frank
CME – Role of Serum free light chain assays in diagnosis & management of multiple myeloma, related plasma cell dyscrasias & myeloma of kidney	Biochemistry	10.11.2014	Healthcare India Pvt. Ltd – New Delhi	Dr. Kelly Endean, Mr. Khaikay NG, Mr. Anuj Wahi

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CME on Mycotic Infections: In-Quest for Knowledge	Microbiology	1st February 2014	Manipal University and local contributors	Dr. Hemashettar, Retd. Prof & HOD, Department of Microbiology, Chitradurga Medical College, Dr. Arunaloake Chakraborty, Prof & HOD, Department of Microbiology, PGI, Chandigarh, Dr. Anupama Kindo, Professor, Department of Microbiology, Sri Ramachandra University, Chennai, Dr. K L Gupta, Prof & HOD, Department of Nephrology, PGI Chandigarh, Dr M Shenoy, Prof and Head, Dermatology, Yenepoya Medical College
CME on Polypharmacy in elderly	Pharmacology	1-Mar-14	ICMR + Pfizer Pharmaceuticals company	Eminent speakers included Dr. Priya Vijayakumar, Clinical Associate Professor, Department of Geriatrics, AIMS, Kochi. Dr. Pratibha Pereira, Consultant Geriatrician, Bangalore,
CME on Tobacco Use Cessation: Perspectives and Practice	Pharmacology	7-Jun-14	Pfizer Pharmaceuticals company	Eminent speakers included Dr. Pratima Murthy, Professor of Psychiatry, Centre for Addiction Medicine, NIMHANS, Bangalore, Dr. Mihir N. Shah, Dean and Head, Department of Periodontics & Oral Implantology, Ahmedabad Dental College & Hospital, Hon. Consultant to WHO(HQ) for Tobacco Control
CME on Head and neck cancer	Pharmacology	30-Oct-14	Biocon Pvt Ltd	Dr. C. R. Tanvir Pasha, Associate Professor, Department of Radiotherapy, Kidwai Memorial Institute of

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				Oncology, Bangalore and Dr. Keerthilatha M. Pai, Associate Dean, Professor and Head, Department of Oral Medicine and Radiology, Manipal College of Dental Sciences, Manipal,
Workshop on “Medico-Legal Education For Police Officers”	Forensic Medicine,	23rd August 2014	KMC, Mangalore.	
Inter-collegiate Debate Competition on ‘Abortion-Rights of Mother vs Rights of Fetus’.	Forensic Medicine,	19th October 2014	Manipal Ankur	
CME-Update on Programmatic Management of Drug Resistant Tuberculosis	Community Medicine	1/12/2014	The International Union Against Tuberculosis and Lung Disease	Dr. Ramakrishna Rao, District Health Officer, DK, Mangalore, Dr Anil, Director, Karnataka STDC, Bangalore, Dr Suresh Shastry, Senior Specialist, State TB Training Centre, Bangalore
PHONOURGER Y: CME and Live Surgical workshop	Otorhinology	4 th May 2014	Manipal University, Delegate registration fees, Pharmaceutical company	Dr. Nupur Nerurkar, Dr Jaya Kumar
CME on Cornea & Refractive Surgery	Ophthalmology	22 nd June 2014	Manipal University Delegates free	Dr. Sathyamurthy, Dr. Bela, Dr. Anand, Dr. Santhosh
Annual Conference of ISSH	Orthopaedics	14 th to 16 th November 2014	Delegate fees and Sponsorship	Dr Marco from Serbia, Dr Huber from Austria. Dr Andrew Bird from Hongkong, Dr Marc Garcia elias from Spain

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DOCENDO DISCIMUS – 2014 Postgraduate Training Programme: Sushrutha Hall, KMC Attavar Hospital, Mangalore	Pediatrics	22-08-2014 – 24-08-2014	Manipal University	Dr.M.D.Ravi, Dr. Shenoy, Dr. Bhaskaranand Dr.Vijaya Nalini
KARNEOCON - 2014: Conference at Dr.TMA Pai Convention Centre, Mangalore	Pediatrics	11-10-2014 & 12/10/2014	MCI/Manipal University	Dr Kartick Nagesh, Dr Ranjan Pejawar, Dr Swana Rekha Bhat, Dr Suman Rao
Advance NRP - Workshop ,Medical Education Unit	Pediatrics	10/10/2014	-	-
MAC 2014	Anaesthesiology	12 th January 2014	Manipal University	
World Anaesthesia Day	Anaesthesiology	16 th October 2014	Manipal University	
Workshop on Drug Abuse and its Management		26-Jun-14	KMCH, Mangalore	
PG CME Dementia	Psychiatry	September 22 nd 2014	KMCH, Mangalore	
E-Dermatology	Dermatology	28 th September, 2014	Manipal University	
International CME on Paediatric Neuroradiology	Radiodiagnosis	July 15th 2014	KMC Mangalore	Dr Raghu H Ramakrishnaiah MBBS FRCR, Dr Shriharsha MD, Fellow Neuroradiology, University of Minnesota, USA

30. Code of ethics for research followed by the departments:

Research in the institution is carried out by adhering to the guidelines laid down by the University and in accordance with ICMR guidelines, ICH-GCP guidelines etc. Workshops are conducted regularly. Every batch of Post graduate student has an orientation programme on research methodology. Further, the research protocols are scrutinized at the Department level and by the scientific committee for scientific aspects and by the Institutional Ethics Committee for ethical aspects. The University had instituted the UNESCO chair in Bioethics and regular discussions and lectures on ethical issues are conducted.

31. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
MBBS	49654	115	134	73	89
Post Graduate Degree	13503	57	32	88	98
Post Graduate Diploma		8	1	83	100
MSc (Medical)	278	2	4	83	86

32. Diversity of students:

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MBBS	--	23	65	12
Post Graduate Degree	14	34	52	--
Post Graduate Diploma	--	22	78	

33. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

The institution has not formally captured this data. A system is being put in place to capture the same. However, going by informal data every year about 5-10% of our students clear USMLE/PLAB.

34. Student progression

Student progression	Percentage against enrolled
UG to PG	60%
PG to M.Phil, DM / M Ch / DNB	30%
PG to Ph.D.	30%
Ph.D. to Post-Doctoral	0%
Employed	
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	20%
Entrepreneurs	10%

35. Diversity of staff

Percentage of faculty who are graduates	
of the same university	51
from other universities within the State	37
from universities from other States	11.5
from universities outside the country	0.5

36. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period:

4 faculty were awarded PhD during 2014

37. Present details of institutional infrastructural facilities with regard to

- a) **Library:** KMC Central Library is a modern, fully air-conditioned library with a seating capacity of more than 500, with internet facility. The library has over 40,594 books and close to 22,000 journals. Moreover, the library subscribes to about 290 journals annually. The faculty and students can access various important medical journals both through intranet as well as Internet facility. “Easy lib” - an automated Library management system. E-PAC & O-PAC packages are available to the students for library catalogues. The institution subscribes to most of the peer reviewed national and international journals having a high impact factor. The library also has facilities for e-learning also. Each Department also has a department library which acts as a ready source for reference and many a times avoids the need to go to the library. It also provides an opportunity for the staff to point out the relevant sections in the books which helps in clarifying matters to students.
- b) **Internet facilities for staff and students:** Every faculty and student has been provided with a laptop/iPad. The students are guided and encouraged to hone their computer skills during the various presentations that they make. All the hostels and departments are Wi fi enabled. Further the institution ensures that computer applications are used

in courses in the medical school. Some of these are:

- i. Computerized bibliographic search.
- ii. Computerized instructional programmes like PowerPoint used as study aids.
- iii. Usage of internet or other on-line content-based programmes originating from outside the institution.
- iv. On-line content-based programs originating within the institution and distributed through local area network or net-browser technology (E-learning).
- v. “Easy lib” - an automated Library management system. E PAC & O-PAC packages are available to the students for library catalogues.
- vi. Hands on training in using statistical softwares like SPSS
- vii. The library facilities are also available through internet facility.

c) Total number of class rooms: There are 7 large classrooms which can seat about 300 students each. These rooms are used for large group teaching. In addition we have 32 demonstration rooms which can seat about 60-75 students. These are used for small group teaching. All classrooms and demonstration rooms are airconditioned and fitted with PA system, cordless microphone and LCD projectors. In addition every department has a seminar room.

d) Class rooms with ICT facility and ‘smart’ class rooms: All class rooms are connected via LAN. Also the Student feedback on teaching and curriculum is also taken

e) Students’ laboratories: Each Pre and Para Clinical department is well equipped with student laboratories. The laboratory postings and experiments are as per the regulatory body. All the practical laboratories are air conditioned and provided with AV aids. Each student is provided with separate work space with slides and microscope. Laboratories are also equipped with TV microscope, skeleton and X-ray lobby wherever necessary. Spacious state of the art museums that showcases more than 1000 specimens are provided for students to study gross anatomy and pathology. Besides this if students are interested to do short term projects involving laboratory experiments, the institute encourages by providing resources necessary for the same.

f) Research laboratories: Research laboratories facilitate quality research. We have a central research laboratory and in addition every department has a separate research laboratory. The central research laboratory is located within the central lab. Our institution has state of art equipment like thermocycler, gel documentation system, immunohistochemistry, ELISA, digital physiograph, electroconvulsimeter, analgesiometer, metabolic cages, spectrophotometer and electronic stimulator. High end experiments are carried out by faculty, Post graduates, PhD Scholars and even undergraduate students who are interested. Collaborative studies between clinical departments and college of dental sciences is also carried out in these laboratories.

38. List of doctoral, post-doctoral students and Research Associates

a) **from the host institution/university:** 35 Doctoral students

b) **from other institutions/universities:** 1 Doctoral student

39. Number of post graduate students getting financial assistance from the university.

36

40. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology:

Before starting any new course the institution checks if there is a demand for the same from the society. This is done by informal consultation with all stakeholders.

41. Does the institution obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the institution utilize the feedback?

Presently since the institution is not involved in developing or modifying the curriculum (these are done by the regulatory body) the institution does not have a formal mechanism to obtain feedback on the curriculum from the faculty. However, feedback regarding implementation of curriculum is being taken. This is done in the form of discussions in departmental meetings. Any points of relevance is then discussed in the Boards of studies for implementation across the colleges. Teaching-learning-evaluation methodologies are constantly checked for their continued effectiveness and feedback regarding the same is discussed during the Board of Studies meetings. If any changes are required, recommendations are sent to the academic senate. It is only through a continual feedback mechanism that we have been able to introduce reforms like innovative teaching, OSCE/OSPE, structured essay questions, on screen marking etc.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the institution utilize the feedback?

Our institution obtains feedback from Students in the form of online feedback on teaching/ learning, curriculum and assessment. This is conducted by the Medical education Unit. Faculty feedback is taken at the end of every semester and course feedback is taken at the end of the phase i.e. first year, second year, final MBBS part 1 and final MBBS part 2. The feedback is analysed by members of the MEU and the same is sent to the respective departments. Each department is requested to discuss the same make a list of actionable points to work upon and improve curriculum delivery, assessment or teaching/ learning. If any department falls short of the previous year

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data, root cause analysis is done and corrective action implemented. Obtaining a score of atleast 3 in the student feedback forms one of the objectives of the quality initiative namely Integrated Management system.

c. alumni and employers on the programs offered and how does the institution utilize the feedback?

At present we are not taking any feedback from Alumni or employers on the programmes offered.

42. List the distinguished alumni of the institution (maximum 10):

Distinguished Alumni	Qualification	Designation	Other achievements
Dr KM Cherian	MS, FRCAS	Chairman and CEO, International centre for cardiovascular diseases	Frontier Lifeline, Dr KM Cherian Heart foundation, Former Surgeon to president of India.
Dr Deviprasad Shetty	MS	Chairman, Narayana Hrudayalaya	Recipient of Padma Bhushan, Padma Shri, Karnataka Ratna, Dr. BC Roy Award
Dr H Sudarshan Ballal	MD, FRCP	Medical Director of Manipal Health Enterprises Ltd.	
Dr Sampath Shivangi	MD	Chairman, Mississippi State Board of Mental Health	Recipient of Ellis Island Medal of Honour
Dr Raj Warriar	MD	Paediatric hematologist in New Orleans, USA	Previous VC Manipal University
Dr Shantharam Shetty	MS	Pro chancellor, NITTE university	
Dr CR Ballal	MS	Private Practitioner	Leading surgeon and Professor of surgery

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Dr MV Prabhu	MD	KMC Mangalore	1 st Alumni of KMC to become Dean of KMC, Mangalore
Dr Sudha Pai	MD	Loma Linda University	Cardiologist
Dr Gurpur Ramdas Pai	MD	Loma Linda University	Cardiologist

43. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts:

To achieve the vision of the university i.e. to provide excellence in health care and academics, numerous opportunities are given to students, both UG and PG's. In the year 2014, 30 such guest lectures were organized. These lectures aid the students to enhance their skill and learn best practices in the field. Details are given below.

Department	Dates organized	Speaker	Name of Special lecture/ workshop/ Seminar conducted
Pathology	7th October 2014	Mr. Harish Karnam, Sphere team/Medical affairs/Roche Co	Special lecture - "Pre-analytic, analytic phase and trouble-shooting in Her 2 neu testing for breast tumours"
Pathology	27 th October 2014	Dr. Sonika Dahiya, MBBS, MD, FCAP, Asst. Prof.	Lecture on" Molecular pathology in diffuse Gliomas" and slide seminar
Pathology	26 th & 27 th Nov. 2014	Dr. Vignesh	Thin prep in house training programme
Biochemistry	8.2.2014	Dr. P. M. Gopinath	Karyotyping
Biochemistry	28.2.2014	Dr. Smitha Hegde	Transgenic animals & microinjection techniques
Biochemistry	3.2.2014	Dr. A.S. Kanagasabapathy	Quality control in clinical labs
Microbiology	29th March 2014	Dr. Madhukar Pai, Associate Director, McGill International Tuberculosis Center, Montreal, Canada	Delivered a guest lecture on "Advances in TB Diagnosis and Emerging Technologies"

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Microbiology	4th August 2014	Dr. K N Brahmadathan, Director, Microbiology Laboratory Research & Services India Pvt Ltd, Coimbatore.	Delivered a guest lecture on “Rapid Diagnosis of Infections in the Intensive Care”. This guest lecture was organized by Dr. T M A Pai Endowment Chair in Hospital Infections.
Microbiology	20th November 2014	Dr. Sangeetha Joshi, Consultant Microbiologist, Manipal Hospital, Bangalore	To deliver a guest lecture on “MIC and its uses”
Pharmacology	12-Apr-14	Dr. Nagesh Prabhu, Associate Director , Monitoring, Max Neeman International	Guest lecture on ‘Indian Guidelines for Clinical Trials: The Changing Scenario’.
Pharmacology	24-Jul-14	Dr. Kiran Haridas, Director Medical Affairs, Biocon Ltd	Guest lecture on: Pharmacologist to Pharmaceutical Physician
Community Medicine	Mar-14	Dr. Ravinder Mamtani, Professor of Public Health, Associate Dean for Global & Public Health Well Cornell Medical College, Qatar	Guest lectures
Otorhinolaryngology	26 th Feb 2014	Dr. Kevin. D. Pereira, Consultant Paediatric otolaryngologist	To give talk on paediatric otolaryngology followed by a case discussion
Otorhinolaryngology	18 th June 2014	Dr. Mohan Kumar H.M, Associated Professor	Management of Laryngotracheal Trauma
General Medicine	16.02.2014	Dr. Prabhavathi	Conducting Cardiology workshop
General Medicine	23.05.2014	Dr. A.S. Kanagasabapathy	The lab and physician

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General Medicine	12.07.2014 and 13.07.2014	Dr.Venkata Krishnan	Bed side classes for the PG's
General Medicine	14.07.2014	Dr. Sadashiva Karanth	spine complications of Rheumatoid arthritis
General Medicine	21.12.2014	Dr Mathew Joseph	Holistic and integrative Medicine at his clinic in Kodaikanal
General Medicine	21.12.2014	Dr. Ashwin Irodi	ANCA associated vasculitis
General Medicine	21.12.2014	Dr. Abdul Ghafur	Consultant and Adjunct Associate Professor in infectious diseases at the Apollo Hospitals, Chennai.
General Medicine	21.12.2014	Dr. S. Sundar	Head of Department of Nephrology till 1991 Ramaiah Medical College
General Medicine	21.12.2014	Dr. Ramdas Pai	Professor of Medicine, Loma Linda University Medical Center, #4414, Loma Linda, CA 92354
General Medicine	21.12.2014	Dr Sudha Pai, Associate Professor of Medicine, Loma Linda University Medical Center, Loma Linda, CA 92354	Guest Lecture
Surgery	14/07/2014	Dr.Sadashiv Karanth	Lecture on "Management of Head Injuries"
Surgery	14/08/2014	Dr. Vinutha Shetty	Lecture on "Upper GI Surgery"

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Pediatrics	14-01-2014	Dr. Raghavendra Rao, Division of Neonatology, Department of Pediatrics, University of Minnesota, Amplatz Childrens Hospital	Lecture on “Neonatal Hypoglycemia”
Pediatrics	21/10/2014	Dr. Raj Warriar , Professor and Vice- Chairman of Paediatrics, Director of the Centre for Cancer & Blood Disorders at Louisiana	Lecture Class for undergraduates
Pediatrics	1/12/2014	Dr .KK Radhakrishnan FRCPA (haematology), Consul tant Pediatric haematologist ,Monas h Medical Centre,Melbourne, Australia	Lecture on Approach to anemia – case based discussion
Radiodiagnosi s	17th, September 2014	Dr. Sanjay Prabhu, DCH, MRCPCH, FRCR, DABR, Paediatric Neuroradiologist, Boston Children's Hospital, USA	

44. List the teaching methods adopted by the faculty for different programs including clinical teaching:

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains.

- a. **Lectures:** The institution firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience.
- b. **Small group teaching:** Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience. Every attempt is made to encourage students to participate in group discussions to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career.
- c. **Clinical postings:** Clinics are organized in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills. The department uses the facilities of a clinical skills lab to provide hands on training to students.
- d. **Integrated teaching:** Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach. Attempts are being made to de-emphasize compartmentalization of disciplines so as to achieve both horizontal and vertical integration in different phases.
- e. **Self-learning/ Student centric learning:** The teaching-learning process attempts to provide enough experiences to be provided for self-learning. The institution has always believed that all learning should be student-centric. This would enable our

students to develop not just knowledge but skills required to compete in today's globalized world. A few of the methods used to make learning student centric are: Assignments (either individual or group), Case discussions/ Table/ bedside teaching/ Seminars/ demonstrations, etc. There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Clinical postings
- Integrated teaching
- Self-directed learning/ student centric:
 - Assignments (either individual or group)
 - Case study and discussion
 - Bedside/ Table teaching
 - Seminars/ Tutorials
 - Demonstrations/ practicals
 - Journal clubs
 - Clinical society meetings
 - e-learning modules

The institution firmly believes that knowledge should be based on scientific principles, and graduates should have developed appropriate learning and clinical skills and professional attitudes. We believe that our graduates should be competent to practise safely, ethically and effectively under supervision while undergoing further vocational training to become independent practitioners.

45. How does the institution ensure that program objectives are constantly met and learning outcomes are monitored?

To accomplish concomitantly the described goals of meaningful curricular improvement and maintenance of high academic standards, the vision, mission and objectives of the Kasturba Medical College, Mangalore are guided by the guidelines set forth by the Manipal University, the parent university; and the Medical Council of India, the regulatory body. The institution strives (and has been successful) to attract intelligent,

bright and appropriately qualified students to pursue the course. The selection process is purely on merit, thus ensuring that academically excellent students are admitted to the course.

The institution has a strong student support system for their academic performance as well as overall well-being. Various support measures are undertaken by the institution for the better integration and performances of the students. These include the orientation programme, the teacher-guardian scheme, counselling and remedial measures.

The curriculum delivery systems at department level are diversified (Interactive lectures, Small group discussions, Self-Directed Learning, etc.) to meet the different objectives of the institution. The evaluation methods are also different (theory exams that includes MCQs, structured essay questions, short answer questions, clinical problem based questions, end of posting clinical exams, OSPE, OSCE) to assess the different domains identified in the institutional objectives. The criteria for successful completion of any subject or posting ensure only students meeting educational objectives are promoted to the next phase/appear for the next examination.

Every department has a lesson plan for delivery of the topic. The lesson plan incorporates the desired objectives and these plans are approved by HOD. They are reviewed at regular intervals.

46. Highlight the participation of students and faculty in extension activities:\

- a. **Service activities:** The students are part of various NGOs like, MAD (Make A Difference), the TORCH Trust where they visit the various orphanages and provide social services like teaching various subjects and conducting activities like celebration of birthdays and occasions. The Voluntary Students Organisation (VSO) organizes various socially relevant activities like Donate, Don't Dump.
- b. **Outreach Activities:** The outreach program is organized by the Department of Community Medicine for the students which are part of their academic curricula in second year of their studies they go to community for community diagnosis, where they conduct health education sessions and various other programs. In addition the teaching hospitals conduct various outreach health camps in the surrounding areas which the students attend. The outreach health camps are conducted in collaboration with various NGOs and their inputs are sought in improving these activities. The

institution facilitates visit of students to old age homes and orphanages. The students are a part of various school health programmes. Students participate in various outreach health camps.

47. Give details of “beyond syllabus scholarly activities” of the institution:

The institute gives an opportunity for students to pursue research and encourages students to publish articles. Many students actively participate in student conferences. Students are also given leave of absence if they are required to go on exchange programmes. Every year, students are nominated to attend student activities which include hospital visits in the University of Gronigen, Netherlands. Students also take part in International student conferences. Every year under the initiatives of Research cell, Student research day is organized and this provides the students with a platform to present their ideas and research findings. They are also guided by faculty to publish quality papers in national and international indexed journals.

The institution believes in holistic development of the student. Hence in addition to curricular activities they are actively encouraged to participate in various co-curricular and extra-curricular activities. There is a very active student council which organizes various events including celebration of festivals of all religions.

The students keenly participate in various extension activities (details stated in response to question number 46).

48. State whether the program/ institution is accredited/ graded by other agencies? If yes, give details:

Yes. Our institute-Medical college and hospitals have obtained the ISO certificate for quality management system in the form of ISO 9001:2008 and ISO 14001:2004. Our diagnostic laboratories are accredited under ISO 15189:2012 and NABL 112 by National Accreditation Board for Laboratories (NABL) since 2008. Our blood bank is the first in our state to be accredited by National Accreditation Board for Hospitals and Healthcare Providers.

49. Briefly highlight the contributions of the institution in generating new knowledge, basic or applied.

The generation of new knowledge from the institution is through research activities. In 2014 the faculty of the institution have published more than 500 papers. The faculty of the institution are invited as experts to deliver talks/share their experiences during various national and international conferences. Faculty also publish books which has helped in dissemination of knowledge.

50. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the institution.

Strengths:

- Proud Heritage
- Faculty
- Staff student relationship
- Spectrum of clinical material
- Student research

Weakness:

- Lack of unitary campus
- Lack of a separate identity
- Functional management of teaching hospitals
- HR development for faculty
- Lack of long term planning

Opportunities:

- Infrastructure
- Untapped philanthropic opportunities
- Research especially collaborative
- Course expansion
- Career building

Challenges:

- Regulatory body's attitude
- PPP
- Competition
- NRI Quota
- Rising cost of education

51. Future plans of the institution:

Keeping in mind the SWOC, the institution has developed a strategic plan and is going about implementing it in a systematic manner. The strategic plan focuses on:

- a. Ensuring that we are self-sufficient and comply with all regulatory and statutory requirements
- b. Strengthening our capability to attract outstanding students and faculty
- c. Strengthening our clinical teaching capabilities
- d. Strengthening our medical education
- e. Strengthening research

ANATOMY

1. Faculty profile - adequacy and competency of faculty

There are twenty teaching faculty members who meet the requirements for MBBS, BDS and the postgraduate training programme, as per the requirements of the regulatory bodies.

All faculty members are competent.

Faculty list

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. Vasudha V. Saralaya	MBBS MS	Professor & Head	18
2.	Dr. Latha V. Prabhu	MBBS MS	Professor	26
3.	Dr. Sampath K. Madhyastha	M.Sc., Ph.D.	Addl. Prof.	18
4.	Dr. Mangala M. Pai	MBBS MD	Assoc. Prof.	14
5.	Dr. Ashwin K.	MBBS MD	Assoc. Prof.	14
6.	Dr. Rajanigandha V.	MBBS MD	Assoc. Prof.	12
7.	Dr. Chettiar Ganesh Kumar	MBBS MD	Assoc. Prof.	11
8.	Dr. Mamatha T.	MBBS MD	Assoc. Prof.	09
9.	Dr. Prameela M.D.	MBBS MD	Assoc. Prof.	10
10.	Dr. Rajalakshmi Rai	M.Sc., Ph.D.	Assoc. Prof.	15
11.	Dr. Murlimanju B.V	MBBS MD	Asst. Prof.	06
12.	Mrs. Jiji P. J.	M.Sc.	Senior grade lecturer	13
13.	Mrs. Ashwin Rai	M.Sc.	Lecturer	06
14.	Ms. Teresa Joy	M.Sc.	Lecturer	05
15.	Dr. Vani P.C.	MBBS	Tutor	02
16.	Dr. Kavya	MBBS	Tutor	02
17.	Dr. Balakrishnan R.	MBBS	Tutor	02
18.	Dr. Reshma Muhamed P. P	MBBS	Tutor	01
19.	Mrs. Vandana Blossom	M.Sc	Tutor	01
20.	Ms. Priya M Menezes	M.Sc	Tutor	< 01
21.	Mr. Y. Lakshmisha Rao	M.Sc	Tutor	< 01

Category	Sanctioned	Filled
Teaching staff	15	14
Tutors	07	07

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.

The various courses are governed by regulatory bodies like MCI, DCI, etc. and the department strictly complies with the laid down requirement. The board of studies anatomy had decided to incorporate a major question based on a clinical scenario in the formative and summative examinations of the MBBS course. To comply with this the department faculties have made changes in the teaching pattern where in a clinical scenario is discussed during the lecture and practical classes. The scheme of evaluation is modified by introduction of Objective structured practical examination (OSPE). Guest lecture by clinical faculty was introduced two years back and horizontal integration as been initiated from this year. The duration of M.Sc. preliminary has been reduced to 8 months and curriculum has been broadened and includes all aspects briefly. This change enables the postgraduate to spend 4 months more in his/her subject of specialization.

4. Trends in the success and drop- out rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2011-2012	2012-2013	2013-14	2011-2012	2012-2013	2013-14
MBBS	95	87	88	0.4	0	1
BDS	92	94	95	2	0	0
BPT	100	92	76	0	0	0
BASLP	92	57	80	0	0	0
B.Sc. Nursing	83	91	75	0	0	-
M.Sc. (Prelims)	74	68	-	0	0	-
M.Sc. (Final)	86	57	100	0	0	0
M.D	100	100	100	0	0	50

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has an air conditioned library with about 600 reference books in the subject & allied specialities for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition department also has 2 desktop computers complete with multi-functional printers.

The department has a spacious air conditioned Gross anatomy dissection hall that accommodates all 250 students at a time. There is an air conditioned histology laboratory that accommodates 150 students; however each practical batch consists of approximately 60 students. Each student is provided with separate work space with slides and microscope. Where necessary teaching is done using AV aids, charts, TV microscope, skeleton and X-ray lobby which are readily available in the various labs. The department is also proud to possess a spacious state of the art museum that showcases around 500 specimens and has seating capacity for 60 students.

The department laboratories cater to the requirements of PG curriculum and are well equipped with all the latest instruments in adequate number. The department also boasts of a research facility with space earmarked to carry out advanced research including a separate room to house animals.

There are four demonstration rooms, of which 2 are air conditioned, equipped with audio visual aids to facilitate teaching & learning. With the contribution of the faculty the department has also developed self-learning, e-learning modules in Anatomy. The same is freely accessible to the students.

6. Modern teaching methods practiced and use of ICT in teaching – learning:

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

We prepare the students for the clinical education by discussing clinical case scenarios and clinical applications of various anatomical aspects. The graduate medical education in our department is based on learning through dissection of cadavers, through osteology and microscopic anatomy. Practicals are organised in small groups so that teachers can give

personal attention to each student with a view to improve his skill and competence in learning the subject. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case scenario discussions/ Table teaching
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the department which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

7. Participation of teachers in academic and personal counseling of students:

All teachers are engaged in actively teaching both undergraduates & postgraduates. Every attempt is made to make the topic lucid and interesting. Students are encouraged to clarify their doubts both during the lectures or later. Slow learners are given special attention to overcome their learning difficulties. Every effort is made to provide them with additional opportunities for improvement by way of template answers, personalized tests and relevant explanations.

All faculty of the department are teacher guardians each taking care of a group of 6 -7 students. They are responsible both for academic and personal development of their wards. The students are also free to approach any faculty other than their allotted guardians with their difficulties.

The postgraduate students carry out regular lab work under the supervision of a faculty member. The postgraduates undertake their prescribed dissertation work under the guidance of their allotted guide and also do voluntary research projects under different faculty. Faculty also encourages students to undertake ICMR STS and in the past year 2 such projects have been completed. Postgraduates are encouraged to do minor projects and present papers/ posters during national and international conferences. They are also guided by faculty to publish quality papers in national and international indexed journals.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

All our faculty have attended faculty development programmes pertaining to teaching-learning and evaluation and also research methodologies in the past two years. All of them have undergone training regarding the same in the past. All faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 20 such programmes.

At a given time one of the department faculty serves as the member of the “Medical Education Unit” which is responsible for conducting various faculty development programmes in the college. The faculty has played a key role in developing the course material for these programmes.

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research and the department was successful in receiving an ICMR sponsored research grant in the past year. The department assists the faculty and the students of other departments and institutions to carry out research & dissertation projects. The department is also exploring avenues for research collaborations with other constituent institutions of the university.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Interdepartmental research work- Many of the PG thesis have been done in collaboration with Department of Radiology and Department of surgery. Department of Biochemistry, Physiology, Medicine, Pathology have extended a helping hand in many of the PhD works. The faculty have jointly done minor projects and published scientific articles in various international/ national indexed journals. However such collaborations at the state/ national/ international levels have not been possible in the past two years.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

Priority areas: Animal experiments, anthropometry, gross anatomy, histology and morphology.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	4
Non-funded research projects	2
PhD research projects	1
PG research projects	1
UG research projects	1

Last 3 years (2012-2014):

	2012	2013	2014	
Completed funded research projects	0	1	0	
Completed non-funded research projects	0	1	0	
Completed PhD research projects	0	0	1	
Completed PG research projects	2	1	1	
Completed UG research projects	2	0	2	
Publications	International	20	30	24
	National	1	0	0
Books	0	0	2	
Chapters in books	0	0	0	
Conference presentations	International	4	1	11
	National	0	4	1

The detailed outline of projects is given below:

Our on- going funded research projects are:

Sl#	Title	Principal Investigator	Funding agency	Total amount received
1.	Microglial and Astrocytes expression in Alzheimer's and possible therapeutic effect of N-acetyl cysteine.	Dr. Sampath Madhyastha	ICMR	Rs. 18,41,026 (Approved not yet received)
2.	Comparative effects of hydroalcoholic extracts of Psidium guajava and Persea americana with its bioactive principle in modulating radiation induced cytotoxicity.	Dr. Rajalakshmi Rai (CO- I)	Board of Research in Nuclear Sciences	Rs.12,66,245
3.	Involvement of striatal and brain stem dopamine and gamma aminobutyric acid levels after	Dr. Sampath Madhyastha	Manipal University	To be sanctioned

	chronic administration of sodium valproate in juvenile rats.			
4.	Short and long term effects of methy phenydate on expression of hippocampal nor epinephrine and dopamine content with respect to cognition in rats.	Dr. Ashwin Rai	Manipal University	To be sanctioned

Our ongoing non-funded research projects are:

SI#	Title	Faculty Involved
1.	Does repeated administration of sodium valproate induce choric movement and cognitive loss on juvenile rats?	Dr. Sampath Madhyastha
2.	Does repeated sodium valproate administration cause neuronal degeneration in caudate nucleus, putamen and hippocampus?	Dr. Ashwin Rai

Our ongoing PhD research projects are:

SI#	Title	Name of student	Name of the guide
1.	Microglial and Astrocytes expression in Alzheimer's and possible therapeutic effect of N-acetyl cysteine	Ms. Teresa Joy	Dr. Sampath Madhyastha Dr. Latha V Prabhu (Co-guide)

Our ongoing PG research projects are:

SI#	Title	Name of the student	Guide
1.	MRI study of Age and sex variation in patellofemoral joint	Dr. Reshma Muhammad	Dr. Vasudha V Saralaya

Our ongoing UG research projects are:

SI#	Title	Name of the student	Guide
1.	Early postnatal treatment effect of methyl phenydate on spatial memory and neuronal morphology of hippocampus in rats (ICMR-STs)	Ms. Elizabeth Josy Tanikulan (II MBBS Student)	Dr. Rajalakshmi Rai

Our completed funded research projects are:

2013

SI#	Title	Name of the research scholar	Guide
1.	Neuroprotective effect of Resveratrol against prenatal stress in rats (ICMR)	Mr. Sudhanshu Shekar Sahu	Dr. Sampath Madhyastha Co-guide: Dr. Gayatri Rao

Our completed nonfunded research projects are:**2013**

SI#	Title	Name of the research scholar	Guide
1.	Prenatal isotretinoin effects on development of brain and eye in rats.	Dr. Divya Premchandran	Dr. Sampath Madhyastha

Our completed PhD research projects are:**Year 2014**

SI#	Title	Name of the research scholar	Guide
1.	Neuroprotective effect of Resveratrol against restraint stress: a microanatomical and biochemical evaluation.	Dr. Ashwin Rai	Dr. Sampath Madhyastha Co-guide: Dr. Gayatri Rao

Our completed PG research projects are:**Year 2012**

SI#	Title	Name of the student	Guide
1.	Radiological changes in cervical vertebrae in cervical spondylosis	Dr AnupRao	Dr. Latha V Prabhu
2.	Biometric study of human mandible for determination of sex	Dr. Shivaprakash	Dr. Chitra P Rao

Year 2013

SI#	Title	Name of the student	Guide
1.	Estimation of length of humerus from morphometric analysis of its fragments	Dr. Prashanth K.U	Dr. Mangala M Pai

Year 2014

SI#	Title	Name of the student	Guide
1.	Magnetic resonance imaging evaluation of lumbar canal stenosis	Dr. Divya Premchandran	Dr. Vasudha V Saralaya

Our completed UG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1.	“Knowledge and Awareness of the cause, prevention and control of cervical cancer amongst female undergraduates and faculty of health sciences: A cross sectional survey”. (<i>ICMR-STs</i>)	Mr. Abhishek Tandon, II MBBS.	Dr. Mangala M Pai
2.	“Anti-acne treatment during pregnancy- Effect on the neuronal population of frontal cortex and hippocampus”(<i>ICMR-STs</i>)	Mr. Jai Adithya Jhamb, II MBBS.	Dr. Sampath Madhyastha

Year 2014

Sl#	Title	Name of the student	Guide
1.	“Does methyl phenidate administration to juvenile rat cause altered and addictive behavior in adulthood?” (<i>ICMR-STs</i>)	Ms. Vrinda II MBBS.	Dr. Ashwin Rai
2.	“Can methyl phenidate enhance cognition temporarily?” (<i>ICMR-STs</i>)	Ms. Nithya, II MBBS.	Mrs. Teresa Joy

The details of our publications are:

Year 2012:

International:

- Chandana Bhargavi, Vasudha Saralaya, Kishan K.
Pterion: A Site for Neurosurgical approach.
International Journal of Biomedical Research. 2011; 2(12): 588-594.
- Prashanth Dixit, Kishan K, Ramaswamy C, Raghavendra Y P, Ashoka HG, Vinodini NA, Pratik Chatterjee, Chandana Bhargavi.
Relative role of obesity and occupation hazards on autonomic modulation.
International Journal of Biomedical Research. 2012; 3(2): 109-113
- Rai R, Rai AR, Rai R, Bhat K, Muralimanju BV.
Prevalence of bifid tongue and ankyloglossia in South Indian population with an emphasis on its embryogenesis.
Int J Morphol. 2012; 30(1):182-184.
- Somesh M.S, Latha V Prabhu, Shilpa K, Mangala M Pai, Ashwin Krishnamurthy, B.V Murlimanju.

- Morphometric study of the Humerus segments in Indian population.
Int. J.Morphol. 2011; 29(4): 1174-1180.
5. Murlimanju BV, Nair N, Kumar B, Krishnamurthy A, Gupta C, Chethan P.
Clinically oriented morphometric study of medial and lateral menisci of the knee joint in adult cadaver.
Clin Ter. 2012; 163(2):105-8.
6. Vadgaonkar Rajanigandha, Rai Rajalakshmi, Prabhu Latha V, BV Murlimanju, SamapriyaNeha.
Variant Facial Artery in the Submandibular Region.
Journal of Craniofacial Surgery. 2012; 23(4) - p e355–e357.
7. Rajalakshmi Rai, Latha V Prabhu, Aravind Yadav, Chitra P Rao, Mamatha Tonse, Murlimanju B Virupakshamurthy.
Superficial palmar arch completion at the first interdigital cleft: A Case Report.
AnatSciInt, (2012). DOI 10.1007/s12565-012-0130-5.
8. BV Murlimanju, Latha V Prabhu, Mangal M Pai, Dhanya Jayaprakash, Vasudha V Saralaya.
Variant origin of arteries in the Carotid triangle- A case report.
Chang Gung Med J. 2012; 35(3):281-4.
9. Sudhanshu Sahu, Sampath Madhyasha, Gayathri Rao.
Effect of prenatal stress on the expression of Glutathione system in neonatal rat brain.
Turkish Neurosurgery. 2012; 22(5): 1-7.
10. Sampath Madhyasha, Sudhanshu Shekar Sahu, Gayathri M Rao.
Prenatal stress-induced cognitive impairment and neuronal oxidative stress and amelioration by resveratrol in neonatal rats.
Research journal of Pharmaceutical, Biological and Chemical Sciences. 2012; 3(4): 1387-99.
11. Sudhanshu Shekar Sahu, Sampath Madhyasha, Gayathri M Rao.
Neuroprotective effect of resveratrol against prenatal stress induced cognitive impairment and possible involvement of Na^+ , K^+ -ATPase activity.
Pharmacology, Biochemistry and Behavior. 2013; 103: 520-25.

12. Hema Nidugala, Shivarama Chembarpu, Ramakrishna Avadhani, Sujatha D'Costa. Higher division of the Brachial Artery” A Case report.
International Journal of Health and Rehabilitation Sciences. 2012; Oct 1(2):119-121.
13. BV Murlimanju, Latha V Prabhu, Mangal M Pai, M Shreya, KU Prashanth, Chettiar Ganesh Kumar, Chitra Prakash Rao.
Anthropometrical study of the Bicipital Groove in Indians and its clinical implications. Chang Gung Med J. 2012; 35:155-159.
14. Jaffar M, Murlimanju BV, Saralaya VV, Prashanth KU, Krishnamurthy A.
Bone morphometry.
Bratisl Lek Listy. 2012; 113(11):673-675.
15. Chetan P, Prakash KG, Murlimanju BV, Prashanth KU, Saralaya VV, Krishnamurthy A. Morphological analysis and morphometry of the foramen magnum: an anatomical investigation.
Turk Neurosurg. 2012; 22(4): 416-419. .
16. Murlimanju BV, Prabhu LV, Pai MM, Paul MT, Saralaya VV, Kumar CG. Morphological study of lingual of mandibles in south Indian population.
Morphologie. 2012; 96(312):16-20.
17. Murlimanju BV, D'Souza PS, Prabhu LV, Saralaya VV, David SJ.
Peroneus quartus, an accessory muscle in human: case report and its clinical importance. Clin Ter. 2012; 163(4):307-9.
18. Murlimanju BV, Prabhu LV, Shilpa K, Pai MM, Kumar CG, Rai A, Prashanth KU. Pulmonary fissure and lobes: A cadaveric study with emphasis on surgical and radiological implications.
Clin Ter. 2012; 163 (1): 9-13.
19. Murlimanju BV, Prabhu LV, Pai MM, Kumar BM, Dhananjaya KVN, Prashanth KU. Osteometric study of the upper end of femur and its clinical applications.
Eur J Orthop Surg Traumatol 2012; 22: 227–230.
20. Prabhu LV, Asif M, Murlimanju BV, Anup Rao K, Shivaprakash S.
Anomalous fascicle of triceps brachii muscle and its clinical importance in relation to radial nerve entrapment.
Clin Ter. 2012; 163(2):123-4.

National:

1. Murlimanju BV, Prakash KG, Samiullah D, Prabhu LV, Pai MM, Vadgaonkar R, Rai R.

Accessory neurovascular foramina on the lingual surface of mandible: Incidence, topography, and clinical implications.

Indian J Dent Res 2012; 23:433.

Year 2013:**International:**

1. Saralaya VV, Murlimanju BV, Vaderav R, Tonse M, Prameela MD, Jiji PJ.
Occipital condyle morphometry and incidence of condylus tertius: phylogenetic and clinical significance.
Clin. Ter.2012; Nov; 163(6):479-82.
2. Divya Premachandran, Sampath Madhyastha, Vasudha Saralaya, Jai Adithya, Teresa Joy, Sudhanshu Sekar Sahu.
Effect of Prenatal Isotretinoin Exposure on Neuronal Population of Frontal Cortex in Rats.
Research Journal of Pharmaceutical, Biological & Chemical Sciences. 2013; 4(1): 902-911.
3. Mamatha Tonse, Rajalashmi Rai, Latha V Prabhu, Jaffar Mir, Murlimanju B.
Virupakshamurthy, Rajanigandha Vadgaonkar.
Double superior vena cavae with bilaterally symmetrical azygos veins and incomplete left circumflex artery.
Eur J Anat. 2012. 16 (3): 216-220.
4. Surendran Sudharshan, Sathish Nayak, Sampath Madhyastha.
Effect of unilateral intracerebroventricular kainic acid on the dendritic intersections of CA3 neurons of hippocampus at the end of 04 weeks.
International journal of Pharmacy & Biological sciences. 2013; 3(2): 86-94.
5. Divya Premachandran, Sampath Madhyastha.
Anomalous origin of the left vertebral artery.
Rev Arg de Anat Clin. 2013; 5(1): 33-38.
6. Sampath Madhyastha, Sudhanshu Sekhar, Gayathri Rao.
Resveratrol improves hippocampal neurogenesis and brain derived neurotrophic factor in prenatally stressed rats.
Int. J. Devl Neuroscience 2013; 31; 580-585
7. Sujatha D'Costa, Raghuveer C V, Adhikari Prabha, Sampath Madhyastha, Chitra Prakash Rao.
Incidence of Argyrophil cells in Normal and Dysplastic conditions of Human uterine cervix.
Journal of Current Surgery, 2013; 3(1):24-28.
8. Latha V Prabhu, Rajalakshmi Rai, Anu V Ranade, Hema Kini, Ashwin Krishnamurthy, Kavitha Leigelin Bernhardt.

- Effect of sildenafil-induced nitric oxide on the histomorphology of cardiomyocytes in male rats.
International Journal of Applied and Basic Medical Research, Jul-Dec 2013; 3(3):84-87.
9. Sampath Madhyastha, Sudhanshu Shekar Sahu, Gayathri Rao.
Resvetrol for prenatal-stress-induced oxidative damage in growing brain and its consequences on survival of neurons.
J Basic Clin Physiol Pharmacol, 2014.25(1):63-72.
10. Sampath M, Sudhanshu S, Teresa J, Rachana K, Ashwin R, Divya P.
Hippocampal neurogenesis in the prenatally stressed rat is enhanced by resveratrol treatment.
Pharmacology online. 2013; 2: 141-148. (Scopus)
11. D. Premchandran, B.V. Murlimanju, L.V. Prabhu, V.V Sarlaya, A. Kumari, K.A. Rao, K.U. Prashanth, A Rai.
Topography and morphological anatomy of nutrient foramina in human metacarpal bones and their clinical implications.
Clin Ter. 2013; 164 (4): 295-300.
12. Jai Aditya, Sampath Madhyastha, Sudhanshu Sahu, Vasudha Saralaya, Divya Premchandran, Teresa Joy.
Prenatal Isotretinoin exposure reduces the neuronal population of Hippocampus in Rats.
Research Journal of Pharmaceutical, Biological and Chemical Sciences. 2013; 14(4): 373-380.
13. Kavya Bhat, Balakrishnan R & Sampath Madhyastha.
Course of maxillary artery through the loop of the auriculotemporal nerve.
Rev Arg de Anat Clin (Argentine Journal of Clinical Anatomy) 2013;5(3):235-239.
14. Ashwin Rai, Sampath Madhyastha, Gayathri Rao, Rajalakshmi Rai, Sudhanshu Sekhar Sahu.
A comparison of resveratrol and Vitamin C therapy on expression of BDNF in stressed rat brain homogenate.
IOSR Journal of Pharmacy 2013; 3(10): 22-27.
15. Murlimanju BV, Nair N, Ganesan S, Krishnamurthy A.
Incomplete discoid lateral meniscus: a case report.
Clin Ter. 2013; 164(4): 327-28.
16. Murlimanju BV, Prabhu LV, Sharmada KL, Saralaya VV, Pai MM, Kumar CG, Jiji PJ, Dhananjaya KVN.
Morphological and morphometric study of the “Vermian fossa” in Indian human adult skulls.
J. Morphol. Sci 2013; 30(3): 148-151.
17. Srivastav A, Murlimanju BV, Prabhu LV, Prashanth KU, Sukritha KM.
Morphometry of the nasolabial complex in adult Indian population.
IOSR Journal of Dental and Medical Sciences 2013; 9(6): 6-7.
18. Ashwin Rohan Rai, Rajalakshmi Rai, Rajanigandha Vadgaonkar, Sampath Madhyastha, Rohan Kumar Rai, Deekshitha Alva.

- Anatomical and Morphometric Analysis of Accessory Infraorbital Foramen in Cadaveric Dry Skulls.
The Journal of Craniofacial Surgery. 2013. 24 (3):
19. Ganesh Kumar C, Jiji PJ, Kumaraswamy BR, Prameela MD.
A rare case of higher division of femoral nerve intervened by accessory iliacus muscle: Clinical significance.
Int J Ant Var. 2012; 5:128-130.
 20. Vadgaonkar R, Murlimanju BV, Pai MM, Prabhu LV, Goveas AA, Kumar S.
Cervical spine synostosis: an anatomical study with emphasis on embryological and clinical aspects.
Clin Ter. 2012 Nov; 163(6):463-6.
 21. Murlimanju BV. Moore KL.
The pioneer of modern clinical anatomy.
International Journal of Anatomical Variations (IJAV) 2013; 6: 106.
 22. Rao PPJ, Murlimanju BV, Menezes RG.
Dumb bell shaped morphology of liver: an autopsy case report.
Clin Ter. 2013; 164(1):29-30.
 23. Tamang BK, Sinha P, Sarda RK, Shilal P, Murlimanju BV.
Incidence and morphology of accessory head of flexor pollicis longus muscle – an anatomical study.
Journal of Evolution of Medical and Dental Sciences 2013; 2(36): 6800-6806.
 24. Naveen K, Sareesh NN, Satheesha BN, Murlimanju BV, Suhani S, Mamatha H, Sampath PK.
Appendicitis and Appendectomy: A Retrospective Survey in South Indian Population.
Journal of Surgical Academia 2013; 3(2): 10-13.
 25. Rajalakshmi Rai, Latha V Prabhu, Anu V Ranade, Hema Kini, Chitra P Rao, Suchetha Shetty.
Quantification of retinal thickness with biochemical parameters in sildenafil induced male rats.
International journal of recent scientific research. Dec. 2013:4(12); 2048-51.
 26. Rajalakshmi Rai, Latha V Prabhu, Anu V Ranade, Ashwin R Rai.
Variant left testicular artery from the superior polar artery and triple right renal artery: A case report.
Eur. J Anat.2013. 17(4): 262-264.
 27. Divya Premchandran, Sampath Madhyastha, Vasudha Saralaya, Teresa Joy, Sudhanshu Sahu, Rachana K.
Effect of Prenatal Isotretinoin on Postnatal Development of Cornea and Lens in Albino Wistar Rat: A Morphometric and Histopathological Analysis.
IOSR Journal of Pharmacy. 2013; 3(11): 35-40.
 28. R Vadgaonkar, BV Murlimanju, MM Pai, LV Prabhu, S Madhyastha.
Synostosis of dorsolumbar spine: an anatomical investigation with emphasis on clinical and embryological details.
Clin Ter 2013; 164(6):513-7.

29. Vadgaonkar R, Murlimanju BV, Prabhu LV, Rai AR, Nayak SR, Pinto C.
Accessory crus of Diaphragm- a human morphological case report.
J Morphol. Sci 2013; 30(2):1-3.
30. Shyamal G, Reddy AP, Murlimanju BV, Krishnamurthy A.
Bilateral arterial variation in the upper extremity- An anatomical case report.
Clin Ter 2013; 164(6): 523-5.

National: Nil

Year 2014:

International:

1. Divya Premchandran, Sampath Madhyastha, Sudhanshu Sekhar Sahu, Teresa Joy, Vasudha Saralaya & Rachana K.
Effect of prenatal isotretinoin on postnatal development of rat retina and expression of double cortin positive cells: a morphometric and histopathological analysis.
International Journal of Pharmacy and Pharmaceutical Sciences. 2014; 6 (1): 622-26.
2. Ashwin Rai, Sampath Madhyastha, Latha Prabhu, Vasudha Saralaya, Sudhanshu Sahu.
Resveratrol reverses the restraint induced cognitive dysfunction involving brain antioxidant system in rat.
International journal of pharmacy and pharmaceutical sciences. 2014; 6(1): 768-72.
3. Gupta C, Shetti VR, Murlimanju BV.
Dimensions of the human adult mitral valve in the embalmed cadaver.
J Morphol Sci 2013; 30(1): 6-10.
4. Dhananjaya K, Murlimanju BV, Poornima V, Ullal S, Mitra P, Dinesh K, Saralaya VV, Prabhu LV, Prashanth KU.
In vivo morphometry of menisci of the knee in South Indians: A preliminary study.
Biomed J 2014; 37: 14-7.
5. Mamatha T, Rajalakshmi Rai, Vasudha Saralaya, Rajanigandha Vadgaonkar, Ashwin R Rai, Roshni Sadashiv.
Formation of Superficial Palmar Arch: A cadaveric Study with its Clinical Significances.
IOSR Journal of Dental and Medical Sciences. 2014; 13(3): 100-103.
6. Butz JJ, Shiwlochan DG, Brown KC, Prasad AM, Murlimanju BV, Viswanath S.
Bilateral variations of brachial plexus involving the median nerve and lateral cord: An anatomical case study with clinical implications.
Australasian Med J. 2014; 7(5): 227-230.
7. Menezes RG, Murlimanju BV, Kharoshah MA, Madadin M, Naik R, Senthilkumaran S.
Lobed spleen: an autopsy case report with emphasis on surgical anatomy.
Clin Ter. 2014; 165 (3): 143-145.
8. Murlimanju BV, Kumar BM, Kumar N, Prashanth KU, Rao CP, Guru A, Prabhu LV, Kumar CG.
Morphometric parameters of the human adult kidney: an anatomical study.
Int. J. Morphol. 2014; 32(2):656-659.

9. Jain A, Gupta C, Murlimanju BV.
A watch backward in embryology.
Review of Research 2014; 3(9): [2249-894X].
10. Jain A, Gupta C, Murlimanju BV.
Ulcerative colitis—a review.
Golden Research Thoughts 2014; 3(12): 1-13.
11. Somesh MS, Sridevi HB, Murlimanju BV, Pai SR.
Morphological and Morphometric study of carotid canal in Indian Population.
International Journal of Biomedical Research 2014; 5(7): 455-460.
12. Reghunathan D, Bhat KR, Bairy KL, Murlimanju BV, Prasad AM.
Effect of Methotrexate and Vitamin A on NOR Expression in the Lining Epithelium of Gastric Mucosa in Male Wistar Rats.
Ann Health & Health Sci 2014; 1(1): 21-28.
13. Purushothama C, Pai SR, Yagain VK, Murlimanju BV, Tamang BK, Sarada RK.
A Study on Coronary Artery Dominance and Divisions of Main Trunk of Left Coronary Artery in Adult Human Cadaveric Hearts of South Indian Population.
Ann Health & Health Sci 2014; 1(1): 50-54.
14. Amith Kumar, Reshma Kumarchandra, Rajalakshmi Rai.
Free radical scavenging & Iron chelating capacity of Psidium guajava and Persea Americana leaf extract: A comparative study.
Journal of Pharmacy Research 2014, 8(6), 728-732.
15. Murlimanju BV, Chettiar GK, Prameela MD, Tonse M, Kumar N, Saralaya VV, Prabhu LV.
Mastoid emissary foramina: an anatomical morphological study with discussion on their evolutionary and clinical implications.
Anat Cell Biol 2014; 47(3): 202-206.
16. Priyadarshini D, Latha V Prabhu, Ashwin Kumar, Mangala M Pai, Rajanigandha Vadgaonkar, Dhananjaya KVN.
Cochlear bullosa- A retrospective computed tomographic study.
Medica Innovatica, 2014; 3(1): 200-203.
17. Rachana K, Sampath Madhyastha, Vasudha V Saralaya, Teresa Joy, Divya Premchandran and Santhosh Rai.
Rare variation in arterial branching of celiac trunk with three aberrant hepatic arteries – Case report.
Journal of Morphological Sciences. 2014; 31(2):114-117.
18. Divya Premchandran, Vasudha V Saralaya, Ajith Mahale.
Predicting Lumbar Central canal stenosis- A Magnetic Resonance Imaging study.
Journal of Clinical and diagnostic Research. 2014; 8(11): DOI: 10.7860/JCDR/2014/8448.5097
19. Kumar V, Murlimanju BV.
Variability in the origin of lateral and medial circumflex femoral arteries: an anatomical study in South Indians.
Int J Anat Res 2014; 2(4): 692-96.

20. Pai MM, Murlimanju BV, Prabhu LV, Vadgaonkar R, Rao PPJ, Jiji J, Dass P.
Morphometry of the pedicle of first sacral vertebrae and its application in posterior transpedicular screw fixation.
Rev Arg de Anat Clin 2014; 6 (3):156-161.
21. Murlimanju BV, Narga N, Ashwin K, Mangala MP, Naveen K, Chandni G, Biswabina R, Chettiar GK.
The anterior transverse ligament of knee: morphological and morphometric study in formalin fixed human fetuses.
Journal of Surgical Academia 2014; 4(2): 24-28.
22. Kumar N, Swamy RS, Patil J, Dsouza M, Shetty DS, Abhinitha P, Murlimanju BV.
Tortuous iliac artery on right side: Challenge for vascular access- A case report.
Int J Clin Surg Adv 2014; 2(3): 25-28.
23. Liegelin Kavitha Bernhardt, K. Lakshminarayana Bairy, Sampath Madhyastha.
N- Acetylcysteine reverses late gestational stress induced maternal oxidative damage.
International journal of pharmacy and pharmaceutical sciences. 2015; 7(1): 165-168.
24. Liegelin Kavitha Bernhardt, K. Lakshminarayana Bairy, Sampath Madhyastha.
N- Acetylcysteine for Gestational Stress-induced behavioral toxicity.
Research Journal of Pharmaceutical, Biological and Chemical Sciences. 2014; 5(6):513-520.

National: Nil

The details of books published by our faculty are given below:

Year 2014

SI#	Title	Name of the faculty	Publisher
1.	Manipal Manual of Clinical Anatomy Vol 1	Dr. Sampath Madhyastha	CBS Publishers and Distributers Pvt. Ltd

The details of our conference presentations have been listed below:

Year 2012

International:

SI#	Title of the presentation	Name of the faculty	Details of Conference
1.	Concha bullosa- A retrospective computed tomographic study	Dr. Latha V Prabhu	2 nd International Anatomical Sciences and cell biology conference at Chiang Mai, Thailand from 6 th to 8 th December 2012
2.	The anatomical Variations in the neurovascular relations of	Dr. Mangala M Pai	2 nd International Anatomical Sciences and cell biology

	the sphenoid sinus: An evaluation by Coronal Computed tomography		conference at Chiang Mai, Thailand from 6 th to 8 th December 2012
3.	A cadaveric study of the formation and branching pattern of the superficial palmar arch”.	Dr. Rajanigandha	2 nd International Anatomical Sciences and cell biology conference at Chiang Mai, Thailand from 6 th to 8 th December 2012
4.	Anatomical study of nutrient foramina in cadaveric dry metacarpal bones”.	Ms. Ashwin Rai	4 th International Symposium of clinical and applied Anatomy (ISCAA) which was held in Ankara, Turkey, from June 28 th to 1 st July 2012

Year 2013

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	“Effect of Resveratrol on stress induced cognitive impairment and the possible involvement of brain antioxidant enzymes in rats”.	Dr. Sampath Madhyastha	4 th Australasian Cognitive Neuroscience Conference from 28 th November to 1 st December 2013 at Monash University, Melbourne, Australia

National:

Sl #	Title of the presentation	Name of the faculty	Details of Conference
1.	“A novel method for colouring and labelling specimens in the Anatomy Museum”.	Dr. Mangala M Pai	61 st National Conference of Anatomical Society of India from 22 nd to 25 th November 2013 at PGIMER, Chandigarh
2.	“Nutrient artery of Humerus: Location in South Indian Population and Clinical Significance”.	Dr. Ashwin K	61 st National Conference of Anatomical Society of India from 22 nd to 25 th November 2013 at PGIMER, Chandigarh
3.	“Morphometric analysis of Internal Acoustic Meatus in South Indian Population”.	Dr. Rajanigandha	61 st National Conference of Anatomical Society of India from 22 nd to 25 th November 2013 at PGIMER, Chandigarh
4.	“Morphometric analysis of hypophyseal fossa- A radiographic study”.	Ms. Ashwin Rai	61 st National Conference of Anatomical Society of India from 22 nd to 25 th November 2013 at PGIMER, Chandigarh

Year 2014

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Mastoid Emissary Foramina: An Anatomic Morphological	Dr. Ganesh Kumar	11 th European Skull Base Society Congress from 26 th to 28 th June

	study with a note on their evolutionary and clinical Implications		2014 at Palais des Congres de Paris, Paris, France
2.	Foramina, grooves around the para condylar region of the skull base: an anatomical study with a note on their clinical implications	Dr. Murlimanju B.V	11 th European Skull Base Society Congress from 26 th to 28 th June 2014 at Palais des Congres de Paris, Paris, France
3.	The anterior transverse ligament of knee: morphological and morphometric study in formalin fixed human fetuses	Dr. Murlimanju B.V	2nd International conference on Global Public Health 2014 from July 3 th to 4 th 2014 at Goldi Sands Hotel, Negombo, Sri Lanka
4.	Morphological variants of the human spleen and their surgical anatomical considerations	Dr. Vasudha V Saralaya	1 st Annual International conference on CMMA 2014 from 21 th to 22 nd July 2014 at Singapore
5.	Hepatic structural changes after exposure to sildenafil citrate	Dr. Latha V Prabhu	1 st Annual International conference on CMMA 2014 from 21 th to 22 nd July 2014 at Singapore
6.	Neurovascular supply of the latissimus dorsi muscle: an anatomical guide with reference to the pedicle transplant surgery	Dr. Rajanigandha Vadgaonkar	1 st Annual International conference on CMMA 2014 from 21 th to 22 nd July 2014 at Singapore
7	Influence of sildenafil mediated nitric oxide and phosphodiesterase on the kidney in rats	Dr. Rajalakshmi Rai	1 st Annual International conference on CMMA 2014 from 21 th to 22 nd July 2014 at Singapore
8	The bony palatine triangle: A novel anatomical concept with medico legal implication	Dr. Vasudha V Saralaya	28 th Annual Conference of the Australasian Society for Human Biology from December 10 th - 12 th , 2014 at Adelaide, South Australia
9.	Arterial supply to the soleus muscle: An anatomical study with emphasis on its application in the pedicle flap surgery	Dr. Latha V Prabhu	28 th Annual Conference of the Australasian Society for Human Biology from December 10 th - 12 th , 2014 at Adelaide, South Australia
10.	Morphological anatomical study of the atlas vertebra and its clinical orientation.	Dr. Mangala M Pai	28 th Annual Conference of the Australasian Society for Human Biology from December 10 th - 12 th , 2014 at Adelaide, Australia
11.	Anterior intermeniscal ligament of adult human knee: an anatomical study from Indian population	Dr. Murlimanju B V	28 th Annual Conference of the Australasian Society for Human Biology from December 10 th - 12 th , 2014 at Adelaide, South Australia

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Anatomical variations of the brachial plexus observed in both the extremities of a male cadaver	Dr. Murlimanju B V	16 th Karnataka Chapter of Anatomists State Conference from 23 rd to 24 th August, 2014 at SDM College of Medical Sciences Hospital, Sattur, Dharwad

12. Placement record of the past students and the contribution of the department to aid student placements:

Students after successful completion of first year would progress to second year. PGs on completion of post-graduation are likely to head to teaching in various medical, dental, physiotherapy and other allied health sciences. Some candidates branch out and go into research as junior research assistants or pursue PhD.

13. Plan of action of the department for the next five years:

- i. Department aims at building on the current curriculum by implementation of modern methods of teaching like problem based learning and integrated learning both vertical and horizontal.
- ii. Optimum utilization of resources to enhance student learning and help them achieve their learning goals and to modify teaching to improve the outcomes in the examinations.
- iii. Design new means of evaluation to better the effectiveness of the teaching programme.
- iv. Conduct continuing medical education programmes and at least one national or state conference by 2018.
- v. To maintain the research activities and publications in national and international indexed journals.
- vi. To explore the means to attract external grants for research projects.
- vii. To improve inter-departmental research projects.
- viii. Faculty will be encouraged to get trained in newer teaching-learning and evaluation methodologies so that they can be implemented to improve the curriculum effectively.
- ix. To motivate the faculty to attend and present papers atleast once a year in national/international conferences.

PHYSIOLOGY

There are twenty four teaching faculty members who meet the requirements for MBBS, BDS and the postgraduate training programme, as per the requirements of the regulatory bodies.

All faculty members are competent.

1. Faculty profile - adequacy and competency of faculty

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr.SheilaR.Pai	MBBS MD	Professor and Head	21
2.	Dr.Ramesh Bhat	MBBS MD	Professor	35
3.	Dr.Ganaraja B.	M.Sc.,Ph D	Addl. Prof.	27
4.	Dr.Anupama N.	MBBS MD	Assoc.Prof.	13
5.	Dr.Bhagyalakshmi	MBBS MD	Assoc.Prof	11
6.	Dr. Subbalakshmi	M.Sc.,Ph D	Assoc.Prof.	22
7.	Dr. Sneha Bhoja Shetty	MBBS MD	Assoc.Prof.	09
8.	Dr.Suman Bhudihal	MBBS MD	Assoc.Prof.	08
9.	Dr. Pratik Kumar	MBBS MD	Assoc.Prof.	07
10.	Dr. Vinodini N.A.	M.Sc.,Ph D	Assoc.Prof.	21
11.	Dr. Rekha D.Kini	M.Sc.,Ph D	Assoc.Prof.	18
12.	Dr. Nayanatara A. K.	M.Sc.,Ph D	Assoc.Prof.	18
13.	Ms. Rashmi	M.Sc.	Lecturer	06
14.	Dr. Keerthana D.	MBBS	Tutor	01
15.	Dr. Anish S.	MBBS	Tutor	01
16.	Dr. Ammu	MBBS	Tutor	01

Category	Sanctioned	Filled
Teaching staff	13	13
Tutor	7	3

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The various courses are governed by regulatory bodies like MCI, DCI, etc. and the department strictly complies with the laid down requirement. Many experiments utilizing animals have been made obsolete keeping in mind with the recent guidelines to avoid the

use of animals for demonstrations and undergraduate practical exercises. We are planning to replace the same with amphibian experiment videos.

The department has introduced newer teaching-learning methodologies like Objective Structured Clinical Examination (OSCE). In addition, the department has introduced Integrated Teaching by starting horizontal integration of classes (2015) onwards.

4. Trends in the success and drop out rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2012-2013	2013-2014		2012-2013	2013-2014	
MBBS	84	88		0	0	
BDS	94	93		0	0	
BPT	77	86		0	0	
BASLP	67	27		0	0	
B.Sc. Nursing	91	-		0	0	
M.Sc. (Prelims)	86	33		0	0	
M.Sc. (Final)	100	100		0	0	
M.D	100	100		0	0	

5. Learning resources of the departments - library, computers, laboratories and other resources:

The department has well-equipped library with over 200 reference books in the subject & allied specialities for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition department also has 2 desktop computers complete with multi-functional printers.

The department has a spacious air conditioned Hematology lab that accommodates 150 students at a time however each practical batch consists of approximately 30 students. Each student is provided with separate work space with slides and microscope. Where ever necessary teaching is done using AV aids and charts, which are readily available in the various labs. There is an air conditioned Amphibian lab that accommodates 150 students

The department has a well-equipped Clinical Physiology lab which can accommodate 125 students at a time, however each practical subgroup consists of approximately 30 students who are divided into batches. There is also a Mammalian lab which can accommodate 125 students.

The department laboratories cater to the requirements of PG curriculum and are well equipped with all the latest instruments in adequate number. The department boasts of

Cardio-Respiratory lab which has 2 Physiograph, 1 Vitalograph, 2 Bicycle ergograph, 3 recording Bicycles, 1 computer and 1 HRV measuring unit. It also has Neuroscience lab and Mammalian lab to carry out advanced research including a separate room to house animals.

The department has a treadmill and AD instruments Power lab system.

There are two air conditioned demonstration rooms equipped with audio visual aids to facilitate teaching & learning. With the contribution of the faculty the department has also developed self-learning, e-learning modules in Physiology. The same is freely accessible to the students.

6. Modern teaching methods practiced and use of ICT in teaching – learning:

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

We prepare the students for the clinical education by discussing clinical case scenarios and clinical applications of various anatomical aspects. The graduate medical education in our department is based on learning through dissection of cadavers, through osteology and microscopic anatomy. Practicals are organised in small groups so that teachers can give personal attention to each student with a view to improve his skill and competence in learning the subject. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case scenario discussions/ Table teaching
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

7. Participation of teachers in academic and personal counseling of students:

In sync with the Unique **Student Teacher Guardian Scheme** of KMC, the teachers of this department take up the responsibility of safeguarding and nurturing the newly admitted students. The teacher acts as a buffer for the first year students and helps them to get acclimatized to college environment. This scheme, which is perhaps the only one of its kind, guarantees additional assurance to the new comers and takes some burden off the parents and lessens their anxiety. In this scheme, a maximum of 10 students are assigned to each teacher guardian (TG) of the institution per year. In addition to this the faculty encourage students to approach them with their difficulties. Issues which cannot be addressed at the department level are directed to the Deputy Director, Student Affairs for appropriate guidance.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

The details of the faculty development programmes attended during the past two years is given below:

2013

Sl. No.	Name of the faculty attended	Name of the event	Title/Topic of Presentation	Dates	Place
1	Dr. Sheila R Pai	CME	Brain and Behaviour Guest Lecture on Neurophysiological basis of behavior.	25.07.2013	AJ Institute of Medical Sciences- Mangalore
2	Dr.Ramesh Bhat	Physicon-2013	Chairman:Symposium Physiology Education: Basic Sciences to Molecular Medicine.	9 th to 11 th December,20 13	Kamineni Institute of medical science, Hyderabad
3	Dr. Ramesh Bhat	CME on Physiological Perspectives of Meditation.	Chair scientific session on “Meditation and Immunomodulation”	24 th Octo,2013	AIMS Adichunch anangiri Inst. Of Medical Sciences, Mandya
4	Dr.P.S.Jeganathan	CME	Brainstorming on memory- An integrated approach Moderator	27.09.2013	Dept.of Physiology , KMC, Mangalore
5	Dr.P.S.Jeganathan	CME	Metabolic Syndrome Guest Lecture on Pathophysiology of life style modification	27.04.2013	Dept.of Physiology . Yenepoya Medical College - Mangalore
6	Dr.Ganaraja B.	Symposium	Research updates on hormonal and Metabolic diseases	30.11.2013	NIMHAS Bangalore
7	Dr. Bhagyalakshmi.K.	At Teaching – Learning workshop for Post graduates	“How to take practical”	9 th & 16 th February - 2013	KMC Mangalore.

8	Dr. Bhagyalakshmi.K.	At Teaching – Learning workshop	“MCQ”	23 rd October - 2013	KMC Mangalore
9	Dr.Subbalakshmi NK	U.G.C sponsored National Seminar	Music Vis-à-vis Violence Insights from Neuroscience studies	9-10 January	Mangalore

2014

Sl. No.	Name of the faculty attended	Name of the event	Title/Topic of Presentation	Dates	Place
1	Dr. Bhagyalakshmi.K	Teaching Learning programme for Post graduate	Resource person Topic-How to take Practicals	15&22/02/14	KMC Mangalore
2	Dr. Bhagyalakshmi.K	Problem based Learning workshop held at KMC Mangalore	Co-ordinator, Facilitator	08/05/14	KMC Mangalore
3	Dr. Bhagyalakshmi.K	Teaching–Learning workshop for staffs on at KMC Mangalore	Resource person “MCQ” and “How to take practical” Co-ordinator	7-9/8/ 14	KMC Mangalore

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research. All the staff take active interest in guiding students for the Student ICMR –STS projects.The department got two ICMR Research grants in the year 2013..

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

One with physiotherapy department

Sl. No.	Name	Title of Study	Duration of Study
1.	Hetal K Mahidhar	Immediate effects of Neurodevelopmental Treatment strategies (NDT) and play therapy on Autonomic Nervous System (ANS) in children with cerebral palsy	I Year (15/February 2013)

No collaboration has been done at the State/National /International level

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority areas for Research: Neuroscience, HeartRateVariability, Obesity, Toxicology, FoodAddiction, Respiratory Physiology

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	2
Non-funded research projects	3
PhD research projects	5
PG research projects	03
UG research projects	0

Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		0	1	1
Completed non-funded research projects		4	0	0
Completed PhD research projects		0	0	0
Completed PG research projects		3	3	2
Completed UG research projects		0	0	2
Publications	International	36	41	37
	National	3	0	2
Books		0	0	1
Chapters in books		2	1	0
Conference presentations	International	7	0	14
	National	3	6	4

The detailed outline of projects is given below:

Our on- going funded research projects are:

SI#	Title	Principal Investigator	Funding agency	Total amount received
1.	“Neuro Protective Role of Cynodon dactylon Extract on Cognitive functions and Bio-sensitivity of distinct brain tissues in Electron Beam Irradiated Swiss Albino Mice”	Dr.Nayanatara Arunkumar	BRNS	12.50 Lakhs

Our ongoing non-funded research projects are:

SI#	Title	Faculty Involved
1.	Predictors Of Coronary Collateral Status And Its Effect On Cardiac Outcome	Dr. Sheila R Pai
2.	The effect of stress in the cognitive functions in obese women before and after menopause	Dr. Ramesh Bhat
3	Causes Of Infertility In Women In Tertiary Care Hospital Setup- A Cross Sectional Study	Dr. Bhagyalakshmi

Our ongoing PhD research projects are:

Sl#	Title	Name of student	Name of the guide
1.	A study on neuroprotective effect of omega 3-PUFA and specific vitamins on streptozotocin induced diabetic rats.	Ms.Saraswati Yadav	Dr.B.Ganaraja
2.	A study on the effect of treatment with Centella asiatica on the neuromodulation of cognitive functions in the offsprings of alcohol fed female rats.	Ms.Mitha.K.V	Dr.B.Ganaraja
3	Role of nucleus accumbens and associated centers in alcohol addiction in male wistar albino rats.	Mrs. Rashmi.K.S	Dr.B. Ganaraja
4	Role of Ventral Tegmental area, nucleus accumbens and basolateral amygdala in consummatory behavior amygdala dependent behavior	Mr.Santosh Mayannavar	Dr.B.Ganaraja
4	Heart rate variability and Q-Tc analysis in solid malignant tumor.	Miss. Shilpa	Dr.Subbalakshmi
5	Role of Prolactin and Somatostatin in breast cancer progression an in-vivo study.	Miss. Maninder	Dr. Vinodini

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1	Predictors Of Coronary Collateral Status And Its Effect On Cardiac Outcome	Dr. Anish	Dr. Sheila R Pai
2	The effect of stress in the cognitive functions in obese women before and after menopause	Dr. Ammu	Dr. Ramesh Bhat
3	Causes Of Infertility In Women In Tertiary Care Hospital Setup- A Cross Sectional Study	Dr. Keerthana	Dr. Bhagyalakshmi K

Our completed non-funded projects are:**Year 2012**

Sl#	Title	Faculty Involved
1.	Effect of Moringa Oleifera on cadmium induced rats on liver toxicity	Dr. Vinodini
2.	Effect of Moringa Oleifera extract on cadmium induced testicular and renal toxicity	Dr. Prathik Kumar Chatterji
3.	Effect of cadmium chloride on liver functions and role of antioxidants	Dr. Rekha D Kini
4.	Effect of Short term and long term effect of Cynodon dactylon on reproductive system cycle in male and female wistar rats	Dr. Nayanatara Arunkumar

Year 2013

Sl#	Title	Faculty Involved
1.	The learning pattern in medical students	Dr. Sneha Shetty
2.	Effect of Six Minute Walk test on Pulse rate and Oxygen Saturation in Exercising and Non-exercising young Adult	Dr. Rekha D Kini
3.	Effect of examination stress on short term memory in medical students	Dr. Rekha D Kini
4.	Premenstrual syndrome in hostel resident students	Dr. Subbalakshmi
5	Effect of Body Mass Index, Waist Hip Ratio, Waist Circumference on cognitive functions in perimenopausal women	Dr. Nayanatara Arunkumar
6	Effect of MoringaOleifera on cadmium induced rats on kidney and liver toxicity	Dr. Vinodini

Year 2014

Sl#	Title	Faculty Involved
1.	PCOS-blood group, diet and other associated factors in south indian females	Dr. Prathik
2.	Effect of sesamol indicum on reproductive parameters in male wistar rats	Miss. Rashmi
3.	Effect of examination stress on short term memory in medical students	Dr. Rekha D Kini
4.	Pregnancy induced hypertension and associated factors in singleton mothers	Dr. Subbalakshmi
5	Effect Of Chronic Unpredictable Stressors On Reproductive Parameters In Male Rats: Role Of Ascorbic Acid	Dr.Nayanatara Arunkumar
6	Effect of MoringaOleifera on cadmium induced wistar rats	Dr. Vinodini

Our completed PG research projects are:**Year 2012**

Sl#	Title	Name of the student	Guide
1.	Effect of Occupational Exposure to automobile exhaust on dynamic pulmonary function test on automobile mechanics.	Dr. Sonu.A.J	Dr. Anupama N
2.	Impact of Pranayama and Meditation on Cardio-respiratory and Cognitive Function in Mentally Retarded Children.	Dr. Kunal	Dr. Sheila R Pai

3.	Premenstrual Syndrome, Blood Pressure Lipid Profile: A comparative study in Exercisers & Non-Exercisers in the Reproductive age Group.	Dr. Kusuma. Sachin	Dr. Ramesh Bhat
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Year 2013

Sl#	Title	Name of the student	Guide
1	Assessment of workplace stress amongst software professionals	Dr. Pallavi	Dr. Ramesh Bhat Dr. Ganaraj
2	Impact of maternal body mass index on obstetric and fetal outcome	Dr. Geraldine	Dr. Anupama Dr. SR Nayak
3	Impact of shift work on blood glucose and lipid profile	Dr. Vidya Chathoth	Dr. Sheila R. Pai Dr. Subbalakshmi

Year 2014

Sl#	Title	Name of the student	Guide
1.	Assessment of Physical and Psychosocial Health among Elderly living in Old Age Homes and those living with their family members in Mangalore – A Gender Based Study.	Dr. Anju Shaju Areeckal	Dr. Sheila R Pai Dr. Nayanatara
2.	Effect Of Mindfulness Meditation On The Cognitive Functions In Elderly People	Dr. Naren	Dr. Bhagyalakshmi Dr. Vinodini

The details of our publications are:**Publications****2012****International:**

1. Harish Rao, Ashwin Pai, Irshad Hussein, Anand Arun, HS Shankar Ram, Aparna Pai, Sheila R Pai, Shobha G Pai

A comparative study between collagen dressings and conventional dressings in wound healing

International Journal of Collaborative Research on Internal Medicine & Public Health (IJCRIMPH) (2012) Vol. 4 No. 5: 611-624

2. Mohammed Ehtesham Ali Farooqui, Sheila R. Pai, Bindiya R.S, Kishan K

Impact of exercise on intraocular pressure in relation to blood pressure

- International Journal of Biomedical and Advance Research.2012; 3(1): 26-29
3. Mohammed Ehtesham Ali Farooqui, Sheila R.Pai, Bindiya R.S, Kishan K-
Impact of exercise on intraocular pressure in relation to body mass index
International Journal of Biomedical and Advance Research IJBAR.2012; 3(1): 21-24
 4. Bhattacharryya S, Panchami R, Ganaraja B, Bhat Ramesh M-
A study of propensity for development of bronchial asthma in Preadolescents with family history of asthma by spirometry and Body Mass Index.-
Research Journal of Pharmaceutical, Biological and chemical sciences, January-March 2012; Volume 3 Issue 1: 291-297.
 5. Ramesh Bhat, Ganaraja B, Bhagyalakshmi, Meenu S, Vinodini A, Nayanatara AK,-
A study of prevalence of Obesity and assessment of Nutritional status in Elderly south Indian population
International journal of Applied Biology and Pharmaceutical technology; 2012; Octo-Dec, Volume -3, Issue-4: 10-14.
 6. Arati R, Prashanth Mohan B, Ganaraja B, Ramesh Bhat M.
Does sex influence Dyslipidemia in non- obese Hypertensive, type2 Diabetes mellitus? International Journal of Biomedical and Advance Research, 2012 Volume 03(08):626-628.
 7. Vishrutha KV, Harini N, Ganaraja B, Pavanchand A, Susheela Veliath.
A study of cardiac autonomic control and pulmonary functions in different phases of menstrual cycle.
Intl. J. of Applied Biol. Pharmaceutical Technology, 2012; 3: 306-311.
 8. Sonu Ajmani, Anupama N, Nayanatara AK, Vishnu Sharma M, Ganaraja B, Sheila R Pai.
Effect of abdominal fat on dynamic lung function tests.
International Journal of Biomedical and advance research, 2012; 03: 632-636.
 9. Pradyumn S, Mahale A, Chakrapani M and Ganaraja B.
Effect of HMG CO-A reductase inhibitors on arterial wall thickness in hypertensive subjects undergoing long term treatment.-
IJABPT, 2012; 3(4): 10-14.

10. Anupama N, Sonu Ajmani, Vishnu Sharma M, Ganaraja B, Subbalakshmi N K, Bhagyalakshmi K, Shiela R Pai.
An Analysis of dynamic pulmonary function in automobile mechanics
International Journal of Biomedical Research, 2012, 3(8); 374 -377
11. Ganaraja B, Santhosh KM, Keerthi A, Rashmi KS.
Effect of Nucleus Accumbens Lesions on ethanol intake in Wistar rats.
Proceedings, Annual international Conference on Cognitive and behavioural psychology, 2012; 151-153.
12. Subbalakshmi NK, P.M.R. Adhikari, K.N. Sathyanarayana Rao, P.S. Jeganathan
Deterioration of cardiac autonomic function over a period of one year in relation to cardiovascular and somatic neuropathy complications in type 2 diabetes mellitus.
Diabetes Research and Clinical Practice 2012, 97 (2): 313-321.
13. Shreelaxmi V. Hegde, Prabha Adhikari, N.K. Subbalakshmi, M. Nandini, Gayathri M. Rao, Vivian D'Souza
Diaphragmatic breathing exercise as a therapeutic intervention for control of oxidative stress in type 2 diabetes mellitus
Complementary Therapies in Clinical Practice 18 (2012) 151-153.
14. Venugopal D, Shyamala KV.
The role of coronary angiography in assessing the clinical severity of coronary artery disease
IJBAR 2012, 03(05):435-440
15. Venugopal D, Shyamala KV.
Anthropometric and biochemical parameters in patients of coronary artery disease
IJPT 2012, 4(03):4670-4678
16. Suman VB, Khalid P., Subbalakshmi NK, Jeganathan PS, Sheila RP
A Comparative Study on Symptomatic and Asymptomatic Osteoporosis by Using the P-DEXA
Technique Journal of Clinical and Diagnostic Research. 2012 ; 6(4): 568-570
17. Rekha D Kini, Yogesh Tripathi, CV Raghuvver, Sheila R Pai, Ramaswamy C
Combined effects of Vitamin E and Vitamin C supplementation on cadmium induced testicular morphology and oxidative stress Research
Journal of Pharmaceutical, Biological and Chemical Sciences. 2011, 2 (4): 27-34

18. Bhagyalakshmi Kodavanji, Venkappa Siddappa Mantur, Nayanatara Arun Kumar, Sheila Ramesh Pai
Pilot Study on Long Term Effects of Mobile Phone Usage on Heart Rate Variability in Healthy Young Adult Males.
Journal of Clinical and Diagnostic Research.2012 May (*Suppl-1*),Vol-6(3):346-349
19. Venkappa S. Mantur, N. A. Vinodini, A. K.Nayanatara, A. V. Ranade, C. Ramaswamy, Pratik K. Chatterjee, K. Kishan.
Effect of Furosemide (Loop Diuretic) on ingestive behavior, body weight and certain hematological paramters in adult wistar rats
IJPSR, 2012; Vol. 3(3): 811-814
20. Rekha D Kini, Yogesh Tripathi, C V Raghuv eer, Sheila R Pai, Nayanatara AK.-
Effect of α -tocopherol pretreatment on epididymal weight, sperm count, and sperm morphology on cadium induced testicular damage in male albino rats.
International Journal of Plant Animal and Enviornmental Science .2012;2(3):110-114.
21. Nayanatara AK, Kottari S, Alva A, Soofi AA, Rejeesh EP, Bhagyalakshmi K, Shetty SB, Pai SR
International Journal of Biology Pharmacy and Allied Sciences.
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Effect of cynodon dactylon extract on estrous cycle and reproductive organs in female wistar rats
International Journal of Analytical Pharmaceutical and Biomedical Sciences.2012,1(3):10-15.
23. Nayanatara AK, Tripathi Y, Nagaraja HS, Jeganathan PS, Ramaswamy C, Ganaraja B, Asha Kamath..
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24. Nayanatara AK, Tripathi Y, Nagaraja HS, Jeganathan PS Ramaswamy C, Ganaraja B Sheila R Pai, Asha Kamath.

- Effect of Chronic Immobilization Stress on some selected Physiological, Biochemical and Lipid Parameters in Wistar Albino Rats
RJPBCS, 2012, 3(1); 34-42.
25. S.RashmiKaup, Nayanatara Arunkumar, Leigelin Kavitha, Rakesh, Sandeep S, Sheila Ramesh Pai, Arun Kumar
Antihyperlipedemic activity of Cynodon dactylon extract in high – cholesterol diet fed wistar rats
Genomic Medicine, Biomarkers and Health Sciences, September-December 2011(3) 98-102.
26. Sonu Ajmani, Anupama N, Nayanatara A K, Vishnu Sharma M, Ganaraja B, Shiela R Pai.
Effect of Abdominal fat on lung function tests.
International Journal of Biomedical and Advance Research. 2012; 3(8):632-636.
27. Sneha B Shetty, Sheila R Pai, Nayanatara Arunkumar, Balachandra A Shetty.-
Influence of regular exercise on cardiac autonomic activity in. healthy young women during the normal menstrual cycle.
Research Journal of Pharmaceutical, Biological and Chemical Sciences . 2012; 3 (4): 1417-1422.
28. Prashanth N Dixit, Kishan K, Ramaswamy C, Raghavendra Babu Y P,Ashoka H G, Vinodini N A, Pratik K Chatterjee,Chandana Bhargavi
Relative role of obesity and occupational hazards on autonomic modulation
International Journal of Biomedical Research IJBR 3[02] [2012]109-113
29. Bhagyalakshmi. K, Amrutha Tripathy, Ramaswamy, P.Rajendran, Kishan. K, Anupama. N.
A comparative analytical study of heart rate variability in young Indian females and young non resident Indian females
International Journal of Biomedical Research 3[01] [2012]36-41
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International Journal of Biomedical Research 3 [02] [2012]100-105.

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32. Seema Gonzalves, K. Shreedhara Avabratha, K. Bhagyalakshmi.
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Muller Journal of Medical Science and Research.2012,Sept3(2): 42-47
33. Narasimha Rai K,Jeganathan PS-
Correlation of body mass index and waist- hip ratio in normal and type 2 diabetes mellitus patients with and without hypertension
Research Journal of Pharmaceutical, Biological and Chemical Sciences 2012;vol. 3:828-831
34. Geraldine Monteiro, Vidya Chathoth, Kishan K-
Cardiac Autonomic Responses during a Cold Pressor Test in Normal and Overweight Adults.
International Journal of Biomedical and Advance Research 2012 03(06)514-516

National:

1. Sathyanarayana Rao K.N., Subbalakshmi N.K-
Prevalence of metabolic syndrome and comorbid Conditions in inmates of old age homes
NUJHS 2012; 2(4):22-27
2. Sharda V. Subbalakshmi N.K. , Narayana S. , Samal R.K-
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1. Subbalakshmi N.K., Jeganathan P.S. & Sathyanarayana Rao K.N. A correlative study on determinants of time domain measures of cardiac vagal function in healthy subjects NUJHS 2014; 4:4-8
2. Gearaldine Monteiro , Subbalakshmi N.K. & Sheila R. Pai Relevance of measurement of hematological Parameters in subjects with pregnancy induced Hypertension NUJHS 2014; 4:15--20

Year 2013**National:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Gender difference in Examination stress On Physical and Hematological Parameters in medical Students APPICON-2013	Dr. Bhagyalakshmi.K	NIMHANS Bangalore 27 th to 30 th Nov-2013
2.	The Neural Modulation of Alcohol Addiction and Feeding Behaviour NIPICON 2013	Dr. Ganaraja	Jan 18-20, 2013, Ahmedabad
3.	Effect of Orexin B antagonist (TCS-OX-29) infusion into Basolateral Amygdala in Wistar rats on ingestive behaviour. APPICON-2013	Dr. Ganaraja	Nov 28-30, 2013, Bangalore
4.	A study on autonomic neuropathy scorings in patients of chronic renal failure with and without symptoms. Bench to Bedside Translational Research	Dr.Shyamala Kumari V	15-17th November 2013, Manipal,India
5.	The involvement of neuropeptide Orexin B in consummatory behavior of male wistar albino rats. International Humboldt Kolleg on the Bench to Bedside Translational Research; Potential benefits of Interdisciplinary Collaboration	Mrs.Rashmi KS	15-17 November 2013, Manipal

Year 2014

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Platelet count in pregnancy related clinical conditions- Physiology 2014	Dr. Sheila R Pai	30 th June to 2 nd July, 2014 London, UK.
2.	Effect of abdominal obesity and serum lipid markers on cognitive functions in postmenopausal Indian women IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr. Sheila R Pai	11-12th Jan 2014 Pattaya, Thailand
3.	Assessment of Stress (PSS score) and its correlation with obesity and blood pressure among software professionals. Physiology 2014	Dr. Ramesh Bhat	30 th June to 2 nd July, 2014 London, UK.
4.	A cross sectional study of HRV among medical students with different levels of obesity- IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr. Ramesh Bhat	11-12th Jan 2014, Pattaya, Thailand
5.	Role of Orexin B in Basolateral amygdala mediated regulation of feeding behavior- Physiology 2014	Dr Ganaraja B	June 30- 2nd July, 2014 London
6	Rate pressure product in sedentary and non-sedentary workers of different body mass index categories.- Physiology 2014	Dr Anupama N	30 th June to 2 nd July, 2014 London, UK.
7	Correlation between abdominal fat and myocardial blood flow in sedentary and non sedentary male workers at rest-IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr Anupama N	11-12th Jan 2014 Pattaya, Thailand

8	Impact Of Internet Use On Lifestyle In Undergraduate Medical Students-IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr.Bhagyalakshmi.K	11-12 th January 2014Pattaya, Thailand
9	Comparison of Heart Rate Variability in different ABO Blood Groups in Young Adults - Physiology 2014	Dr.Bhagyalakshmi.K	30 th June to 2 nd July,2014 London, UK
10	Evaluation Of Liver Functions With Moringa Oleifera Leaf Extract In Cadmium Induced Adult Wistar Albino Rats. IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr Vinodini NA	11-12th Jan 2014 Pattaya, Thailand
11	Scavenging Role Of Beta Carotene In Oxidative Stress Induced By Cadmium Chloride On Rat Testis- International conference on Biochemical, Pharmaceutical and chemical engineering	Rekha D Kini	11-12th January 2014Pattaya, Thailand
12	Beta Carotene as an Antioxidant in Cadmium Induced Testicular Toxicity- Physiology 2014	Rekha D Kini	30 th June to 2 nd July,2014 London, UK.
13	Chronic stress induced tissue malondialdehyde level in amygdala nucleus lesioned wistar rat. Physiology 2014	Dr. Nayanatar Arunkumar	30June-02July 2014 London, UK
14	Effect of Moringa Oleifera Leaf Extract on Haematological Parameters In Cadmium Exposed Adult Wistar Albino Rats- IInd International conference on Biochemical, Pharmaceutical Sciences & Chemical Engineering	Dr. Pratik Kumar Chatterjee	11-12th Jan 2014 Pattaya, Thailand

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	OREXIN B mediated modulation behavior in wistar rats ASSOPICON	Dr Ganaraja B	16 - 19 Dec 2014, Pondicherry
2.	Correlates of sdnn (an index of heart rate variability) in healthy and type 2 diabetic subjects - International Symposium on Translational Neuroscience and XXXII Annual Conference of Indian Academy of Neurosciences	Dr. Subbalakshmi NK	1-3 November 2014, Bangalore
3.	Osteoporosis detection by testing Bone Mineral Density in elderly using p-dexa technique', during ACBI-2014 South Regional Conference of Biochemists	Dr.Suman.VB	22-23 May 2014 , Mangalore
4.	Microinfusion Of Orexin B Into Nucleus Accumbens Enhances Alcohol Consumption In Male Wistar Albino Rats-XXXII ANNUAL CONFERENCE OF INDIAN ACADEMY OF NEUROSCIENCE	Mrs. Rashmi KS	NOVEMBER1-3, NIMHANS, BANGALORE

The details of chapters in books published by our faculty are given below:

Year 2013

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher
1.	Cardiac Autonomic dysfunction in type 2 diabetes mellitus: Insights from one minute electrocardiogram studies	Advances in Neuropathy Research	Subbalakshmi NK Adhikari, Prabha	Nova Science Publishers

Year 2014

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher
1.		Art Visa Vis Voilence Proceedings of the UGC –sponsored National Seminar	Subbalakshmi NK	University College

The details of our conference presentations have been listed below.

Year 2012

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Association of body mass index and serum lipid markers with intraocular pressure in postmenopausal indian women	Dr. Sheila R Pai	44th Attended APACPH 2012 at Colombo, Srilanka from 14 th to 17th October 2012
2.	Correlation of renal function tests and duration of diabetes in Diabetic nephropathy patients in south India”	Dr. Ramesh Bhat	44th Attended APACPH 2012 at Colombo, Srilanka from 14 th to 17th October 2012
3.	A study of Alcohol expectancy responses from teenage students of south India	Dr. B Ganaraja	44th Attended APACPH 2012 at Colombo, Srilanka from 14 th to 17th October 2012
4.	An analysis of Dynamic pulmonary function in automobile mechanics	Dr. Anupama	44th Attended APACPH 2012 at Colombo, Srilanka from 14 th to 17th October 2012
5.	Effect of examination stress on physical and hematological parameters	Dr. Bhagya laxmi	44th Attended APACPH 2012 at Colombo, Srilanka from 14 th to 17th October 2012
6.	Effect of moringa olifera leaf extract on serum testosterone levels in cadmium exposed rats	Dr. Vinodini	44th Attended APACPH 2012 at Colombo, Srilanka from 14 th to 17th October 2012
7.	Effect of vitamin e pre-treatment on histopathological changes on rat testis following cadmium chloride administration	Dr. Rekha D Kini	44th Attended APACPH 2012 at Colombo, Srilanka from 14 th to 17th October 2012

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Influence of dyslipidemia on somatic neuropathy in type 2 diabetes mellitus	Dr. Subbalakshmi	33rd Annual conference of Indian Association of Biomedical scientists at Nitte university, Mangalore from 2nd-3rd November 2012
2.	Chronic Stress Induced Changes On Ingestive Behavior In Paraventricular Nucleus Lesioned Wistar	Dr. Nayanatara Arunkumar	33rd Annual conference of Indian Association of Biomedical scientists at Nitte university, Mangalore from 2nd-3rd November 2012

3.	Influence of regular exercise on cardiac autonomic activity in healthy young women during the normal menstrual cycle	Dr. Sneha Shetty	33rd Annual conference of Indian Association of Biomedical scientists at Nitte university, Mangalore from 2nd-3rd November 2012
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Year 2013**National:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Gender difference in Examination stress On Physical and Hematological Parameters in medical Students APPICON-2013	Dr. Bhagyalakshmi.K	NIMHANS Bangalore 27 th to 30 th Nov-2013
2.	The Neural Modulation of Alcohol Addiction and Feeding Behaviour NIPICON 2013	Dr. Ganaraja	Jan 18-20, 2013, Ahmedabad
3.	Effect of Orexin B antagonist (TCS-OX-29) infusion into Basolateral Amygdala in Wistar rats on ingestive behaviour. APPICON-2013	Dr. Ganaraja	Nov 28-30, 2013, Bangalore
4.	A study on autonomic neuropathy scorings in patients of chronic renal failure with and without symptoms. Bench to Bedside Translational Research	Dr. Shyamala Kumari V	15-17th November 2013, Manipal, India
5.	The involvement of neuropeptide Orexin B in consummatory behavior of male wistar albino rats. International Humboldt Kolleg on the Bench to Bedside Translational Research; Potential benefits of Interdisciplinary Collaboration	Mrs. Rashmi KS	15-17 November 2013, Manipal

Year 2014**International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Platelet count in pregnancy related clinical conditions- Physiology 2014	Dr. Sheila R Pai	30 th June to 2 nd July, 2014 London, UK.

2.	Effect of abdominal obesity and serum lipid markers on cognitive functions in postmenopausal Indian women IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr. Sheila R Pai	11-12th Jan 2014 Pattaya, Thailand
3.	Assessment of Stress (PSS score) and its correlation with obesity and blood pressure among software professionals. Physiology 2014	Dr.Ramesh Bhat	30 th June to 2 nd July,2014 London, UK.
4.	A cross sectional study of HRV among medical students with different levels of obesity- IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr.Ramesh Bhat	11-12th Jan 2014, Pattaya, Thailand
5.	Role of Orexin B in Basolateral amygdala mediated regulation of feeding behavior- Physiology 2014	Dr Ganaraja B	June 30- 2nd July, 2014 London
6	Rate pressure product in sedentary and non-sedentary workers of different body mass index categories.- Physiology 2014	Dr Anupama N	30 th June to 2 nd July,2014 London, UK.
7	Correlation between abdominal fat and myocardial blood flow in sedentary and non sedentary male workers at rest-IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr Anupama N	11-12th Jan 2014 Pattaya, Thailand
8	Impact Of Internet Use On Lifestyle In Undergraduate Medical Students-IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr.Bhagyalakshmi.K	11-12 th January 2014Pattaya, Thailand
9	Comparison of Heart Rate Variability in different ABO Blood Groups in Young Adults - Physiology 2014	Dr.Bhagyalakshmi.K	30 th June to 2 nd July,2014 London, UK

10	Evaluation Of Liver Functions With Moringa Oleifera Leaf Extract In Cadmium Induced Adult Wistar Albino Rats. IInd International conference on Biochemical, pharmaceuticals sciences and chemical Engineering	Dr Vinodini NA	11-12th Jan 2014 Pattaya, Thailand
11	Scavenging Role Of Beta Carotene In Oxidative Stress Induced By Cadmium Chloride On Rat Testis- International conference on Biochemical, Pharmaceutical and chemical engineering	Rekha D Kini	11-12th January 2014 Pattaya, Thailand
12	Beta Carotene as an Antioxidant in Cadmium Induced Testicular Toxicity- Physiology 2014	Rekha D Kini	30 th June to 2 nd July, 2014 London, UK.
13	Chronic stress induced tissue malondialdehyde level in amygdala nucleus lesioned wistar rat. Physiology 2014	Dr. Nayanatar Arunkumar	30 June-02 July 2014 London, UK
14	Effect of Moringa Oleifera Leaf Extract on Haematological Parameters In Cadmium Exposed Adult Wistar Albino Rats- IInd International conference on Biochemical, Pharmaceutical Sciences & Chemical Engineering	Dr. Pratik Kumar Chatterjee	11-12th Jan 2014 Pattaya, Thailand

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	OREXIN B mediated modulation behavior in wistar rats ASSOPICON	Dr Ganaraja B	16 - 19 Dec 2014, Pondicherry
2.	Correlates of sdn (an index of heart rate variability) in healthy and type 2 diabetic subjects - International Symposium on Translational Neuroscience and XXXII Annual Conference of Indian Academy of Neurosciences	Dr. Subbalakshmi NK	1-3 November 2014, Bangalore

3.	Osteoporosis detection by testing Bone Mineral Density in elderly using p-dexa technique', during ACBI-2014 South Regional Conference of Biochemists	Dr.Suman.VB	22-23 May 2014 , Mangalore
4.	Microinfusion Of Orexin B Into Nucleus Accumbens Enhances Alcohol Consumption In Male Wistar Albino Rats-XXXII ANNUAL CONFERENCE OF INDIAN ACADEMY OF NEUROSCIENCE	Mrs. Rashmi KS	NOVEMBER1-3, NIMHANS, BANGALORE

12. Placement record of the past students and the contribution of the department to aid student placements

All the under graduates students, first year MBBS, BDS BASLP,BPT & B.Sc. Nursing will progress to second year were they will be exposed to clinical subjects. The M.Sc. Preliminary students are made eligible to further their post-graduation in the subject of their choice such as Anatomy, Physiology, Biochemistry, Pharmacology and Microbiology.

MD Postgraduates, after completing the MD course are eligible to teach medical and dental undergraduates in recognized medical institutes in India and abroad. They can also conduct and guide research work.

13. Plan of action of the department for the next five years

Undergraduate training:

- ✓ Effective use of teaching aids and methodology in didactic lectures
- ✓ Small group discussions to improve the communication skills among undergraduate students
- ✓ Improving the laboratory skills in the students by use of simulated experiments
- ✓ Propose to use mannequin based skills lab for the first year training in clinical physiology
- ✓ Introduce lectures and practicals by clinicians in topics of importance.

Post graduate training:

- ✓ Work on the curriculum to improve the PG training by including discussions and skills
- ✓ To involve them in research projects and scientific presentation and publication of research results
- ✓ Regular oral presentations of journal articles of interest
- ✓ Seminars on recent advances in Physiology

Research:

- ✓ Develop research laboratory
- ✓ Continue to develop the existing neurophysiology laboratory
- ✓ Extend the laboratory space and procure more equipments
- ✓ Develop cardiovascular laboratory and upgrade the HRV set up

BIOCHEMISTRY

1. Faculty profile - adequacy and competency of faculty

There are twenty teaching faculty members who meet the requirements for MBBS, BDS and the postgraduate training programme, as per the requirements of the regulatory bodies.

All faculty members are competent

Faculty profile

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. Poornima A Manjrekar	MBBS MD, Ph.D	Professor &Head	15
2.	Dr. Benedicta D'Souza	M.Sc., Ph.D	Professor	28
3.	Dr. Beena V. Shetty	M.Sc., Ph.D	Professor	32
4.	Dr. Nandini M.	M.Sc., Ph.D	Addl. Prof.	28
5.	Dr. Ashok Prabhu	M.Sc., Ph.D	Assoc. Prof.	24
6.	Dr. Gayathri M. Rao	M.Sc., Ph.D	Assoc. Prof.	23
7.	Dr. Sudha K.	M.Sc., Ph.D	Assoc. Prof.	23
8.	Dr. Reshma Kumarchandra	M.Sc., Ph.D	Assoc. Prof.	23
9.	Dr. Anupama Hegde	MBBS MD	Assoc. Prof.	14
10.	Dr. Rukmini M.S.	MBBS MD	Assoc. Prof.	14
11.	Dr. Vinodchandran	MBBS MD	Assoc. Prof.	10
12.	Dr. Mamatha T. Shenoy	MBBS	Tutor	02
13.	Dr. Puneeth A.	MBBS	Tutor	02
14.	Dr. Madan Gopal R.	MBBS	Tutor	02
15.	Dr. Akshatha L. N.	MBBS	Tutor	02
16.	Dr. Shaheena	MBBS	Tutor	02
17.	Dr. Ashish Agarwal	MBBS	Tutor	01
18.	Dr. Charu Yadav	MBBS	Tutor	01
19.	Dr. Afzal Ahmad	MBBS	Tutor	01
20.	Dr. Anand K	MBBS	Tutor	<01

Category	Sanctioned	Filled
Teaching staff	11	11
Tutors	06	9

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The syllabus has been upgraded for the I MBBS students incorporating the latest developments in the field of molecular biology. The postgraduate syllabus has also been completely revised in terms of both theory and practical content. All changes are in keeping with the MCI guidelines. The M.Sc course which hitherto had a 1+2 years structure has been modified to 6months + 2½yrs to enable the student to learn the basics of the medical M.Sc. course in 6 months period and have adequate training and undertake a scientific project in their chosen department for the remaining 2½yrs.

All the faculty are actively involved in the same

4. Trends in the success and dropout rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2012-13	2013-14	2014-15	2012-13	2013-14	2014-15
MBBS	90.43	92.8		0	0.4	0
BDS	90.29	93		0	0	0
BPT	85.71	57		0	0	0
B.Sc Nursing	100	75		0	0	0
M.Sc (Prelims)	100	-		0	0	0
M.Sc (Final)	100	100		0	0	0
M.D	100	100		0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has an air conditioned library with about 321 reference books in the subject & allied specialities for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. The campus is Wi-fi enabled. In addition department also has 2 desktop computers complete with multi functional printers.

A spacious air conditioned UG lab accommodates 150 students at a time. However each practical batch consists of approximately 60 students. Each student is provided with separate work space with all required chemicals, reagents and glassware. Where necessary, the number of instruments like colorimeters, microscopes, water baths, dispensers, micro pipettes and the like are provided adequately.

The postgraduate laboratory caters to the requirements of their curriculum and is well equipped with all the latest instruments in adequate number. The department also boasts of a research facility with space earmarked to carry out advanced research including a separate room to house animals

There are four air conditioned demonstration rooms equipped with audio visual aids to facilitate teaching & learning. With the contribution of the faculty the department has also developed self learning modules in biochemistry: e-learning modules. The same is freely accessible to the students.

6. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving and psychomotor domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with, lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal knowledge. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other facets which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences for self-learning.

Students also have free access to e-learning modules developed by the faculty to enhance self learning. Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical or community cases and exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Biochemical case report analysis

Seminars: The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

PG teaching is essentially self directed learning. Yet, didactic lectures and PBL are

conducted. Students also participate in journal clubs, seminar presentations, tutorials and clinical society meetings.

7. Participation of teachers in academic and personal counseling of students

All teachers are engaged in actively teaching both undergraduates & postgraduates. Every attempt is made to make the topic lucid and interesting. Students are encouraged to clarify their doubts both during the lectures or later. Slow learners are given special attention to overcome their learning difficulties. Every effort is made to provide them with additional opportunities for improvement by way of template answers, personalised tests and relevant explanations.

All faculty of the department are teacher guardians each taking care of a group of 6 -7 students. They are responsible both for academic and personal development of their wards. The students are also free to approach any faculty other than their allotted guardians with their difficulties. Two of the hostel wardens who are also faculty of the department, look after the lodging, boarding and psychological issues of the students.

The postgraduate students carry out regular lab work under the supervision of a faculty member for a given set of experiments. The postgraduates undertake their prescribed dissertation work and voluntary research projects under the guidance of their allotted guide.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

All the faculty members have attended teaching learning, student evaluation workshops in the past. These workshops have enabled them to hone their skills in these aspects. Further, most of our faculty have attended workshop on Problem based Learning.

In addition all faculty members regularly attend various scientific programmes like conferences, workshops, symposia and CME. In the past two years the 11 faculty have attended more than 50 such programmes.

The details of faculty development programs attended by faculty members are:

Name of the Programme	Place & date	Name of the staff member
Teacher as Leader	17.01.2012 MCPD, Manipal	Dr. Poornima Manjrekar Dr. Anupama Hegde Dr. Rukmini MS
Student evaluation workshop	30 – 31.03.2012 KMC, Mangalore	Dr. Reshma K Dr. Anupama Hegde
Empower yourself (for ladies – financial stability etc)	11.04.2012 MCOADS, Mangalore	Dr. Nandini M Dr. Gayathri M Rao Dr. Reshma K Dr. Anupama Hegde

Basic Medical Writing	23.06.2012 KMC, Attavar	Dr. Poornima Manjrekar Dr. Vivian D'Souza Dr. Benedicta D'Souza Dr. Rukmini MS Dr. Anupama Hegde Dr. Vinodchandran
Frame it-Designing Instructional Objectives (Designing curriculum & learning objectives)	22.06.2012 MCPD, Manipal	Dr. Poornima Manjrekar Dr. Anupama Hegde Dr. Rukmini MS
Medical Education Technologies (Teaching learning workshop)	9 – 13.10. 2012 KMC, Mangalore	Dr. Vinodchandran
2 nd Annual meeting of Society of biological chemists Coastal Karnataka chapter	26.10.2012 MLSC,Manipal	Dr. Nandini M Dr. Ashok Prabhu
PhD program for Medical Innovations	18 - 19.10.2012 DY Patil University Kolhapur	Dr. Reshma K
Excellence in writing research proposals, funding, methodology & scientific writing	18.12.2012 MCOPS, Manipal	Dr. Beena Shetty Dr. Gayathri M Rao
Effective use of power point (workshop)	20.12.2012 KMC, Mangalore	Dr. Gayathri M Rao Dr. Beena V Shetty
Good clinical laboratory practices (International workshop)	3 – 5.1.2013 Chennai	Dr. Ashok Prabhu
Assessment in higher education (workshop)	10 – 12.1.2013 MCPD, Manipal	Dr. Poornima Manjrekar Dr. Anupama Hegde Dr. Rukmini MS
Diabetes update (CME)	12.1.2013 AJIMS,Mangalore	Dr. Rukmini MS Dr. Vinodchandran
Teacher as communicator (workshop)	24.1.2013 KMC, Mangalore	Dr. Poornima Manjrekar Dr. Reshma K Dr. Anupama Hegde Dr. Rukmini MS Dr. Vinodchandran
Scientella-2013 An update on laboratory medicine (CME)	1.2.2013 FMMC, Mangalore	Dr. Ashok Prabhu
Non communicable disease research meet (International workshop)	9 – 10.2.2013 KMC, Manipal	Dr. Poornima Manjrekar Dr. Anupama Hegde Dr. Rukmini MS
Technologies revolutionizing disease diagnosis (CME)	9.3.2013 RGUHS, Bangalore	Dr. Ashok Prabhu
Counselling skills for teachers (workshop)	11 – 12.3.2013 Dept. of Student Affairs, Manipal	Dr. Rukmini MS
Counselling skill for teachers (workshop)	15-16.4.2013 Dept. Student Affairs, Manipal	Dr. Nandini M Dr. Ashok Prabhu Dr. Vinodchandran
Macronutrients & modern diseases	30.4.2013	Dr. Poornima Manjrekar

(CME)	YMC, Mangalore	Dr. Vivian D'Souza Dr. Benedicta D'Souza Dr. Beena Shetty Dr. Nandini M Dr. Sudha K Dr. Rukmini MS Dr. Anupama Hegde Dr. Vinodchandran
Onco Geno Path 2013 (CME)	11.5.2013 KMC, Mangalore	Dr. Poornima Manjrekar Dr. Vivian D'Souza Dr. Benedicta D'Souza Dr. Beena Shetty Dr. Nandini M Dr. Gayathri M Rao Dr. Sudha K Dr. Reshma K Dr. Rukmini MS Dr. Anupama Hegde Dr. Vinodchandran
Clinical utility & diagnostic importance of Vitamin D assay, 1 st trimester screening for Downs syndrome (CME)	8.6.2013 FMMC, Mangalore	Dr. Benedicta D'Souza
BMJ case reports How to get your cases published (workshop)	25.6.2013 KMC, Manipal	Dr. Rukmini MS
Curriculum design (workshop)	9.7.2013 MCPD, Manipal	Dr. Anupama Hegde Dr. Rukmini MS
Training on NABH standards (3 rd edition)	24-25.7.2013 KMC, Mangalore	Dr. Vinodchandran
Biochemical investigations: A corner stone to clinical care (CME)	27.7.2013 KMC, Mangalore	Dr. Poornima Manjrekar Dr. Vivian D'Souza Dr. Benedicta D'Souza Dr. Beena Shetty Dr. Ashok Prabhu Dr. Nandini M Dr. Gayathri M Rao Dr. Sudha K Dr. Reshma K Dr. Rukmini MS Dr. Anupama Hegde Dr. Vinodchandran
Lesson Plan preparation (workshop)	31.7.2013 KMC, Mangalore	Dr. Sudha K Dr. Reshma K
IMS training	5-7.8.2013 KMC, Mangalore	Dr. Sudha K
Ist State level conference of AMBKC (conference)	13-14.9.2013 JJMMC, Davangere	Dr. Poornima Manjrekar Dr. Vivian D'Souza Dr. Rukmini MS Dr. Anupama Hegde

2 nd National conclave for laboratories (workshop)	16-17.9.2013 Bangalore	Dr. Ashok Prabhu
How to conduct a journal club (workshop)	25.9.2013 KMC, Mangalore	Dr. Poornima Manjrekar Dr. Benedicta D'Souza Dr. Nandini M Dr. Gayathri M Rao Dr. Rukmini MS Dr. Anupama Hegde
ICMR sponsored workshop on laboratory diagnostic techniques in IEM	30.9.2013–1.10.2013, KMC, Manipal	Dr. Poornima Manjrekar Dr. Beena Shetty Dr. Ashok Prabhu Dr. Gayathri M Rao Dr. Reshma K Dr. Rukmini MS Dr. Anupama Hegde Dr. Vinodchandran
Experience the advances in teaching & research in embryology (CME)	5.10.2013 KMC, Mangalore	Dr. Vinodchandran
International conference on Radiation biology & clinical application	25-27.10.2013 KSHEMA, Mangalore	Dr. Benedicta D'Souza Dr. Beena V Shetty Dr. Gayathri M Rao Dr. Reshma K
XLII Internal auditor & quality management system certificate course	1-4.12.2013 YMC, Mangalore	Dr. Beena V Shetty Dr. Gayathri M Rao
40 th National conference of ACBI	3-6.12.2013 New Delhi	Dr. Nandini M Dr. Sudha K Dr. Reshma K Dr. Poornima Manjrekar
XLV Internal auditor & quality management system refresher course as per ISO 15189-2012	3-4.1.2014 KMC, Mangalore	Dr. Poornima Manjrekar Dr. Benedicta D'Souza Dr. Ashok Prabhu Dr. Sudha K Dr. Reshma K Dr. Rukmini MS Dr. Anupama Hegde Dr. Vinodchandran
Mentoring of medical student (workshop)	17.1.2014 KMC, Mangalore	Dr. Rukmini MS
Recent advances in genetics (CME)	25.1.2014 SIMS, Mangalore	Dr. Vinodchandran
Fundamentals of animal cell culture & functional application (workshop)	20-22.3.2014 Institute of Bioinformatics, Bangalore	Dr. Reshma K
Evidence based laboratory medicine (CME)	4.4.2014 FMMC, Mangalore	Dr. Ashok Prabhu Dr. Gayathri M Rao Dr. Sudha K Dr. Vinodchandran

Knowledge memory learning (workshop)	26.4.2014 MCPD,Manipal	Dr.Vinodchandran
Radiation & radio isotopes. Tools for scientific research (seminar)	28.4.2014 Mangalore University	Dr. Gayathri M Rao
MET medical education training (workshop)	7-9.8.2014 KMC, Mangalore	Dr. Gayathri M Rao
Intellectual property rights (workshop)	14.8.2014 MCPD, Manipal	Dr. Sudha K Dr. Reshma K
Nurturing an effective work place	24-25.10.2014 TAPMI,Manipal	Dr. Poornima Manjrekar
3rd Annual meeting of Society of biological chemists Coastal Karnataka chapter	25.10.2014 MLSC,Manipal	Dr. Ashok Prabhu
3 rd National conclave for laboratories (workshop)	25-29.10.2014 Pune	Dr. Ashok Prabhu
Role of serum free light chain assays in diagnosis & management of multiple myeloma (CME)	10.11.2014 KMC,Mangalore	Dr. Poornima Manjrekar Dr. Vivian D'Souza Dr. Beena Shetty Dr. Ashok Prabhu Dr. Nandini M Dr. Gayathri M Rao Dr. Sudha K Dr. Reshma K Dr. Rukmini MS Dr. Anupama Hegde Dr. Vinodchandran
22 nd National conference of the AMBI	14-16.11.2014 SVIMS,Tirupati	Dr. Poornima Manjrekar Dr. Vivian D'Souza Dr. Anupama Hegde
4 th National conference of SOBSI	17-20.11.2014 YMC,Mangalore	Dr. Benedicta D'Souza Dr. Beena V Shetty Dr. Nandini M Dr. Sudha K Dr. Reshma K
Integrated teaching What,Why & How? (workshop)	4.12.2014 KMC,Mangalore	Dr. Anupama Hegde Dr. Rukmini MS
41 st National conference of ACBI	10-13.12.2014 AIIMS,Jodhpur	Dr. Poornima Manjrekar Dr. Vivian D'Souza Dr. Beena V Shetty Dr. Anupama Hegde

9. `Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the teachers of the department are actively involved in teaching both undergraduate and postgraduate students by way of didactic lectures, instructions for practical classes, as moderators for journal clubs and seminars. Teachers also conduct formative and summative assessment for the UGs and PGs.

Casuals and slow learners are given additional tests / coaching for academic improvement.

The faculty members further involve PGs in small group discussions in the form of tutorials and case studies.

The teachers have also contributed by writing text books and study guides for UG courses.

Research-

The teachers plan and help UGs conduct research projects under ICMR-STC scheme.

Teachers also guide Ph.D research scholars.

The PG dissertation work is planned and guided by the faculty. In addition they are also involved in planning and executing research projects either self funded or with funds from various external sources such as DST, ICMR, RSSDI, RNTCP.

Projects are also carried out using 'Research fellowship' funds & PG research grants provided by the Manipal University.

The department assists the faculty and the students of other departments and institutions to carry out research & dissertation projects. Research collaborations are also established with other constituent institutions of the university.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

The faculties are actively involved in inter-departmental research collaborations. The departments of Anatomy, Pharmacology and Medicine are the most common collaborators.

The department also assists the PG students of all other clinical departments to carry out biochemical investigations for their dissertation/ research work.

Inter-institutional collaborative research is also carried out with KMC, Manipal MCOPS, Manipal and MCOCS, Mangalore.

Inter departmental collaborative research details

Area of research	Dept. collaborating
Comparative effects of hydroalcoholic extracts of <i>Psidium guajava</i> and <i>Persea americana</i> with its bioactive principles in modulating radiation induced cytotoxicity	Anatomy
Role of Lipoprotein(a), oxidative stress, annexin v, matrix metalloproteinases as cardiac risk factors and their correlation with eGFR in Nephrotic syndrome	Urology
Coorelation of thyroid paroxidase antibody titer to subclinical and	Medicine

overt hypothyroid patient's before and after treatment.	
Assessment of biochemical markers of cardiovascular complications following Vitamin D and Vitamin D plus alphaliporic acid in Type 2 diabetes patients.	Medicine
Correlation of Insulin resistance with severity of coronary artery disease in type 2 diabetes mellitus	Medicine
Neuroprotective effects of resveratrol against prenatal stress Effect of <i>Phyllanthus niruri</i> Linn. treatment on liver, kidney and testes in CCl ₄ induced hepatotoxic rats	Anatomy
Assessment of vestibulo-cochlear dysfunction in patients with type -2 diabetes mellitus and correlation with biochemical parameters Effect of 3months yoga on oxidative stress in type 2 diabetes with or without Complications	Medicine
Antioxidant potential of Eugenia jambolana seed; A randomized clinical trial in type 2 diabetes mellitus? Effect of <i>Withania somnifera</i> Root Extract on Haloperidol induced Catalepsy in Albino Mice	Pharmacology
11β 115D-1 gene polymorphism in type 2 Diabetes mellitus metabolic syndrome and Polycystic ovary syndrome. Effect of carbenxolone sodium in participants with 11β 115D-1 gene polymorphism	Medicine

Inter Institutional collaborative research details

Area of research	Institution collaborating
A study of the effect of antioxidant status on the outcome of malignant gliomas	KMC, Manipal
Alternative markers of glycemic status in diabetes mellitus	MCOCS, Mangalore
Amelioration of diabetic complications by select indigenous phytotherapeutic agents in streptozotocin induced diabetic rats.	MCOPS, Manipal
Comparative effects of hydroalcoholic extracts of <i>Psidium guajava</i> and <i>Persea americana</i> with its bioactive principles in modulating radiation induced cytotoxicity	Mangalore University MLSC
Serum uric acid phosphate ratio in differential diagnosis of prostate disorder	Aloysius college, Mangalore
Association of prostate disorders with renal dysfunction : Role of biochemical markers	Aloysius college, Mangalore
Analytical caliber of HPLC and Ion exchange chromatography resin method in estimation of glycated Hb	Aloysius college, Mangalore

Assessment of serum uric acid levels, estimated glomerular filtration rate & micro albumin uria as markers of preeclampsia	Aloysius college, Mangalore
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The outcome of the research is highly productive and has translated into several conference presentations and publications in indexed national and international journals.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority areas for Research

Our priority areas for research are Free radical toxicity and antioxidants in human diseases including malignancies, Diabetes mellitus, Metabolic syndrome, Dyslipidemia, Obesity, Thyroid disorders, Animal studies for efficacy of plant products on radiation induced toxicity and chemotherapy. Role of vitamin D in various diseases.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	9
Non-funded research projects	5
PhD research projects	6
PG research projects	10
UG research projects	2

Last 3 years (2012-2014):

	2012	2013	2014
Completed funded research projects	1	3	4
Completed non-funded research projects	11	16	23
Completed PhD research projects	Nil	2	1
Completed PG research projects	1	3	4
Completed UG research projects	1	2	2
Publications	International	12	21
	National	3	0
Books	Nil	Nil	Nil
Chapters in books	Nil	Nil	Nil
Conference presentations	International	3	0
	National	8	18

The detailed outline of projects is given below:

Our on- going funded research projects are:

Sl#	Title	Principal Investigator	Funding agency	Total amount received
1.	Comparative effects of hydroalcoholic extracts of Psidium guajava and Persea americana with its bioactive principles in modulating radiation induced cytotoxicity	Dr. Reshma Kumarchandra	Board of Research in Nuclear Sciences	Rs.12,66,245/-
2	Correlation of Vitamin D status in coronary artery disease with high sensitivity C reactive protein and first angiographic findings	Dr. Poornima Manjrekar	Manipal University	Rs.10,000/-
3	Assessment of cardiovascular risk in Pre-diabetes	Dr. Anupama Hegde	Manipal University	Rs.10,000/-
4	Microelements status in Pre-diabetes	Dr. Poornima Manjrekar	Manipal University	Rs.10,000/-
5	Indices of glucose homeostasis in cord blood of preterm and term newborns	Dr. Rukmini MS	Manipal University & ICMR	Rs.10,000/- & Rs.15,000/-

Our ongoing non-funded research projects are:

Sl#	Title	Faculty Involved
1	Effect of statins on paraoxanase, CRP and vascular morphology in rats	Dr. Nandini M
2	Correlation of oxidative stress & inflammatory markers with markers of AMI	Dr. Ashok Prabhu
3	Study of erythrocyte sodium potassium ATPase and plasma ceruloplasmin in pre eclampsia	Dr. Gayathri Rao
4	A study on x-ray induced oxidative stress in wister albino rats	Dr. Sudha
5	X-ray induced oxidative stress on various organs of albino rats	Dr. Reshma

Our ongoing PhD research projects are:

Sl#	Title	Name of student	Name of the guide
1	Comparative effects of hydroalcoholic extracts of Psidium guajava and Persea americana with its bioactive principles in modulating radiation induced cytotoxicity	Mr. Amith Kumar	Dr. Reshma Kumarchandra
2	Modulatory effects of whey preparation and spondias Pinnata bark extract on cytokines and inflammatory markers in etoposide induced mucositis in rats	Mr.Sudharshan	Dr. Gayathri M Rao
3	Role of Lipoprotein(a), oxidative stress, annexin v, matrix metalloproteinases as cardiac risk factors and their correlation with eGFR in Nephrotic syndrome	Ms Souparnika	Dr. Benedicta D'Souza

4	Retrogression of diabetic complications by tribulus terrestris & pterocarpas marsupium in nicotinamid streptozotocin induced diabeto mellitus in wistar rats: Is inflammatory modulation the answer?	Mr. Bheemesh	Dr. Poornima Manjrekar
5	Coorelation of thyroid paroxidase antibody titer to subclinical and overt hypothyroid patient's before and after treatment.	Mr. Jaseem	Dr. Anupama Hegde
6	Assessment of biochemical markers of cardiovascular complications following Vitamin D and Vitamin D plus alphaliporic acid in Type 2 diabetes patients.	Mr. Y.Durga Rao	Dr. Poornima Manjrekar

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1	Assessment of cardiovascular risk in Pre-diabetes	Dr. Ashish Agarwal	Dr. Anupama Hegde
2	Microelements status in Pre-diabetes	Dr. Charu Yadav	Dr. Poornima Manjrekar
3	Indices of glucose homeostasis in cord blood of preterm and term newborns	Dr. Afzal Ahmad	Dr. Rukmini MS
4	VCAM-1 and Insulin resistance in Type 2 diabetes patients on Meformin monotherapy for 1-4 yrs compared to Prediabetics and newly diagnosed diabetes	Dr. Anand Kumar	Dr. Poornima Manjrekar
5	A study on x-ray induced oxidative stress in wister albino rats	Ms. Gaya Mrs. Vinitha	Dr. Sudha
6	X-ray induced oxidative stress on various organs of albino rats	Mr. Debajith Mr. Chiranth Mr. Rahul	Dr. Reshma
7	Correlation of oxidative stress & inflammatory markers with markers of AMI	Mr. Rajib Mr. Kiran	Dr. Ashok Prabhu
8	Effect of statins on paraoxanase, CRP and vascular morphology in rats	Ms. Aradhana Mr. Ashwin	Dr. Nandini M
9	Study of erythrocyte sodium potassium ATPase and plasma ceruloplasmin in pre eclampsia	Ms Esther Ms Jalajakshi	Dr. Gayathri Rao

Our ongoing UG research projects are:

Sl#	Title	Name of the student	Guide
1	Study of the effect of Vitamin D supplementation in improvement of antioxidant potential in osteoporosis	Ms V.G.Aishwainee	Dr. Nandini
2	Do Lipid abnormalities and obesity coexist at the level of sub-clinical hypothyroidism	Mr Jayachidambaram Ambalavanan	Dr. Anupama Hegde
3	Total phenolic content and free radical scavenging activity of Salacia oblonga and Gymnema sylvestre: An invitro comparative study	Ms. Shivani Uday	Dr. Poornima Manjrekar

Our completed funded projects are:

Year 2012

Sl#	Title	Faculty Involved	Funding agency	Amount received
1	Meal induced dyslipidemia and oxidative stress levels in controlled and poorly controlled type 2 diabetes mellitus	Dr. Poornima Manjrekar	Manipal University	Rs.10,000/-

Year 2013

Sl#	Title	Faculty Involved	Funding agency	Amount received
1	Levothyroxine therapy induced bone remodeling in premenopausal hypothyroid women	Dr. Anupama Hegde	Manipal University	Rs.10,000/-
2	Effect of spondias pinnata bark extract on kidney and liver in etoposide administered rats	Dr. Gayathri M Rao	ICMR	Rs.7,18,400/-
3	Proatherogenic lipid levels in Hypothyroidism	Dr. Poornima Manjrekar	Manipal University	Rs.10,000/-
4	C-Terminal telopeptide as a marker of bone resorption in premenopausal hypothyroid women on Levothyroxine therapy	Dr. Vivian D'Souza	Manipal University	Rs.10,000/-

Year 2014

Sl#	Title	Faculty Involved	Funding agency	Amount received
1	Concentration of beta-2 microglobulin in early stages of chronic kidney disease	Dr. Rukmini M.S.	Manipal University	Rs.10,000/-
2	Uric acid a surrogate for insulin resistance in apparently healthy individuals across a spectrum of body mass index	Dr. Poornima Manjrekar	Manipal University	Rs.10,000/-
3	Potential effects of iron stores on pulmonary tuberculosis in response to treatment	Dr. Anupama Hegde	Manipal University & RNTCP	Rs.10,000/- & Rs.30,000/-
4	Vitamin D status in pulmonary tuberculosis patients before and after DOTS	Dr. Poornima Manjrekar	Manipal University & RNTCP	Rs.10,000/- & Rs.30,000/-

Our completed non-funded projects are:**Year 2012**

Sl#	Title	Faculty Involved
1	Fructosamine in Non-diabetic first degree relatives of type 2 Diabetes: Risk Assessor	Dr. Poornima Dr. Anupama
2	Antidiabetic & Hypolipidemic effect of salacia oblonga in streptozotocin induced diabetic rats	Dr. Vivian Dr. Poornima
3	Hyperferritinemia in Pulmonary Tuberculosis	Dr. Benedicta Dr. Poornima Dr. Vivian
4	Diaphragmatic breathing exercise as a therapeutic intervention for control of oxidative stress in type 2 diabetes mellitus. Complimentary therapies in Clinical Practice	Dr. Nandini Dr. Gayathri Dr. Vivian
5	Oxidative stress and antioxidants in chronic renal failure with and without dialysis	Dr. Sudha Dr. Gayathri Dr. Beena
6	Indices of oxidative stress in smokers	Dr. Sudha Dr. Gayathri Dr. Beena
7	Role of redox metals, oxidative protein products and antioxidant potentials of thiols in diabetic retinopathy	Dr. Sudha Dr. Gayathri Dr. Beena
8	Protein oxidation: A potential cause of hypoalbuminemia in oral cancer	Dr. Sudha Dr. Gayathri Dr. Beena
9	Gamma glutamyl transpeptidase and total cholesterol levels in smokers and congestive cardiac failure patients"	Dr. Vinodchandran

Year 2013

Sl#	Title	Faculty Involved
1	Altered fructosamine & lipid fractions in subclinical hypothyroidism	Dr. Poornima DR. Vivian
2	Influence of modified levels of plasma Mg, Cu, Zn & Iron levels on thiols & protein status in diabetes mellitus and diabetic retinopathy	Dr. Sudha Dr. Beena Shetty Dr. Gayathri
3	Neonatal seizures etiological and clinical differentiation	Dr. Vinodchandran
4	The study of pulmonary tuberculosis in diabetes mellitus patient	Dr. Vinodchandran
5	Study of prevalence and antifungal susceptibility of candida	Dr. Vinodchandran
6	Leukocyte myeloperoxidase activity and serum CRP levels as predictive markers of inflammatory disorders amongst passive smokers	Dr. Reshma
7	Paraoxanase-1 activity in non-smoking and smoking healthy male blood donors	Dr. Anupama Dr. Poornima
8	Effects of Atorvastatin on advanced oxidation protein products and malondialdehyde in dyslipidemic patients with and without	Dr. Benedicta Dr. Ashok Prabhu,

	diabetes	Dr.Beena Dr. Vivian
9	Elevated lactate dehydrogenase in pyrexia of unknown origin	Dr. Vivian Dr. Benedicta
10	Correlation of severity of coronary artery disease with insulin resistance	Dr. Poornima
11	Effect of community based yoga intervention on oxidative stress & glycemic parameters in prediabetes: A randomized controlled trial	Dr. Poornima Dr. Vivian
12	Elevation of HbA1c in nondiabetic hypothyroid individuals: Is anaemia the connecting link? – A preliminary study	Dr. Poornima Dr. Rukmini Dr. Anupama
13	Prevalance of vitamin D deficiency and its relationship with subclinical hypothyroidism	Dr. Sudha Dr. Anupama Dr. Poornima Dr. Reshma
14	Hypo vitaminosis D: Association with altered blood lipid profile	Dr. Reshma Dr. Sudha
15	A case of megaloblastic anemia with features of hemolytic anemia	Dr. Benedicta Dr. Vivian

Year 2014

Sl#	Title	Faculty Involved
1	Prevalence of Hypoparathyroidism (HPT) in Beta Thalassemia Major.	Dr. Beena
2	Total phenolic content and free radical scavenging activity of Pterocarpus marsupium heartwood & Tribulus terrestris dry fruits: An in vitro comparative study.	Dr. Poornima Dr. Anupama
3	Association of prostate disorders with renal dysfunction : Role of biochemical markers	Dr. Reshma K, Dr. Sudha K
4	Influence of Iron Deficiency Anemia on Hemoglobin A1C Levels in Diabetic Individuals with Controlled Plasma Glucose Levels	Dr.Poornima Dr. Anupama Dr. Rukmini M S
5	Factors Correlating with Severity of Coronary Artery Disease in Type 2 Diabetic Patients on Treatment for More Than 5 Years	Dr. Poornima
6	Dermatoglyphics in primary hypertensive patients	Dr. Vinodchandran
7	Elevated D-dimer in Level In Acute Myeloid Leukemia	Dr. Benedicta, Dr. Rukmini M S, Dr. Anupama Dr. Vivian
8	Tartarate Resistant Acid Phosphatase as a marker in Osteoporosis and Bone Malignancy	Dr. Benedicta Dr. Vivian
9	Evaluation of antioxidant potential of costus igneus in ethanol induced peroxidative damage in albino rats	Dr. Nandini M Dr. Reshma
10	Study of Guillain Barre Syndrome in Children	Dr. Vinodchandran
11	Serum Uric acid-Phosphate ratio as Differential Diagnostic	Dr.Sudha K

	marker of Prostate Disorders	Dr. Reshma K
12	Evaluation of biochemical markers of renal dysfunction in prostate disorders and healthy controls	Dr. Reshma K Dr. Sudha K Dr. Poornima

Our completed PhD research projects are:

Year 2012 : Nil

Year 2013

Sl#	Title	Name of the research scholar	Guide
1	The role of select indigenous phytotherapeutic agents in ameliorating the complications in streptozotocin induced diabetic rats	Mrs. Bhagyajyothi D	Dr. CV Raghuvier
2	Relation of Metabolic Syndrome with inflammatory markers in non-diabetic first degree relatives of type 2 diabetes patients	Dr. Poornima Manjrekar	Dr. CV Raghuvier

Year 2014:

Sl#	Title	Name of the research scholar	Guide
1	Effects of resveratrol on neuroanatomical, neurobehavioral and biochemical recovery against prenatal restraint stress in rats	Mr. Sudhanshu Sekhar Sahu	Dr. Gayathri M Rao

Our completed PG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1	Fructosamine assay as a diagnostic criterion in thyroid disorders	Dr. Rangaswamy	Dr. Vivian D'Souza

Year 2013

Sl#	Title	Name of the student	Guide
1	Meal induced dyslipidemia and oxidative stress levels in controlled and poorly controlled type 2 diabetes mellitus	Dr. Sulekha	Dr. Poornima Manjrekar

Year 2014

Sl#	Title	Name of the student	Guide
1	Levothyroxine therapy induced bone remodeling in premenopausal hypothyroid women	Dr. Ruby P Babu	Dr. Anupama Hegde
2	Proatherogenic lipid levels in Hypothyroidism	Dr. Sohil Takodara	Dr. Poornima Manjrekar
3	C-Terminal telopeptide as a marker of bone resorption in premenopausal hypothyroid women on Levothyroxine therapy	Dr. Christy Alap L	Dr. Vivian D'Souza

Our completed UG research projects are:**Year 2012**

Sl#	Title	Name of the student	Guide
1	Assessment of vestibulocochlear dysfunction in type 2 diabetes mellitus and correlation with biochemical parameters – A case control study	Ms. Krithika Shenoy	Dr. Poornima

Year 2013

Sl#	Title	Name of the student	Guide
1	Relation of random plasma glucose with waist circumference & body mass index in healthy individuals – Comparison between representative population in North & South India	Ms. Kriti Tripathi	Dr. Poornima Manjrekar
2	Profile of Vitamin D deficiency in Mangalore	Ms. Ashwanee	Dr. Nandini M

Year 2014

Sl#	Title	Name of the student	Guide
1	Study of the effect of Vitamin D supplementation in improvement of antioxidant potential in osteoporosis	Ms. Aishwainee	Dr. Nandini M
2	Do Lipid abnormalities and obesity coexist at the level of sub-clinical hypothyroidism?	Mr. Jayachidambaram Ambavanan	Dr. Anupama Hegde

Important and noteworthy publications during past three years

Year 2014**National Journals:**

1. Khalida Parveen Basha N, Shetty Beena V and Shenoy U.V.- Prevalence of Hypoparathyroidism (HPT) in Beta Thalassemia Major, Journal of Clinical and Diagnostic Research 2014;8(2): pp. 24-26. ISSN 0973-709X
2. Bheemesh Vangalapati, Manjrekar Poornima and Hegde Anupama - Total phenolic content and free radical scavenging activity of Pterocarpus marsupium heartwood & Tribulus terrestris dry fruits: An in vitro comparative study, Journal of Pharmacy Research 2014;8(5): pp. 610-613. ISSN 0974-6943.
3. Amith Kumar, Reshma Kumarchandra and Rai Rajalakshmi - Free radical scavenging & Iron chelating capacity of Psidium guajava and Persea americana leaf extract: A comparative study, Journal of Pharmacy Research 2014;8(6): pp. 728-732. ISSN 0974-6943.
4. Madhyastha Sampath, Sudhanshu Sekhar Sahu and Rao Gayathri - Resveratrol for Prenatal-Stress-Induced oxidative damage in growing brain and its consequences on survival of neurons, J Basic ClinPhysiol Pharmacol 2014;25(1): pp. 63-72.
5. Akshatha L N, Rukmini M S, Shenoy Mamatha T, Rao Sadashiva P and Prashanth B - Lead Poisoning Mimicking Acute Porphyria!. Journal of Clinical and Diagnostic Research 2014;8 (12): CD01-CD02. ISSN 0973-709X

International Journals:

1. Reshma K, Sudha K and Pai, Mamatha S - *Association of prostate disorders with renal dysfunction : Role of biochemical markers*, International Journal of Pharma and Bio sciences 2014;5 (4): (B) 704-(B) 708.
2. Ashwin R Rai, Sampath Madhyastha, Latha Prabhu, Vasudha V Saralaya, Sudhanshu Sekhar Sahu and Gayathri M Rao - Resveratrol reverses the restraint stress induced cognitive dysfunction involving brain antioxidant system in rats, International Journal of Pharmacy & Pharmaceutical Science 2014, 6 (1)
3. Alap L. Christy, D'Souza Vivian, Ruby Babu, Takodara Sohil, Manjrekar Poornima, Hegde Anupama and Rukmini M S - Utility of C-terminal Telopeptide in Evaluating

- Levothyroxine Replacement Therapy-Induced Bone Loss, *Biomarker Insights* 2014; 9: pp. 1-6.
4. Sinha Sulekha and Manjrekar Poornima, Hegde Anupama and Shenoy R - Meal induced dyslipidemia in type 2 diabetes mellitus, *Biomedicine* 2014;34(1): pp. 137-141. ISSN 0970-2067
 5. Alap L. Christy, Manjrekar Poornima, Ruby P. Babu, Hegde, Anupama and Rukmini M S - Influence of Iron Deficiency Anemia on Hemoglobin A1C Levels in Diabetic Individuals with Controlled Plasma Glucose Levels, *Iranian Biomedical Journal* 2014;18(2): pp. 88-93.
 6. Mukund P. Srinivasan, Kamath Padmanabh K, Pai Narasimha D, Manjrekar Poornima and Chakrapani M - Factors Correlating with Severity of Coronary Artery Disease in Type 2 Diabetic Patients on Treatment for More Than 5 Years, *British Journal of Medicine & Medical Research* 2014; 4(26): pp. 4364-4372.
 7. Raghvendra Tey, Manjrekar Poornima and D'Souza Vivian - Comparison of Fasting Plasma Glucose among Smoking and Non Smoking Medical Student Population, *International Journal of Science and Research* 2014; 3 (7): pp. 1513-1515. ISSN 2319-7064
 8. Kulkarni Sri Krishna Ganesh, Avinash SS, Sreekantha, Remya and Vinodchandran - Dermatoglyphics in primary hypertensive patients, *International Journal of Pharma and Bio Sciences*, 2014;5(1): (B) 53-(B) 58. ISSN 0975-6299
 9. Shenoy Mamata T, D'Souza Benedicta, Akshatha LN, Puneeth A, Rukmini M S, Hegde Anupama and D'Souza, Vivian - Elevated D-dimer in Level In Acute Myeloid Leukemia, *Biomedicine* 2014;34(2): pp. 267-268. ISSN 0970-2067
 10. Souparnika S, D'Souza Benedicta, Parthasarathy Rajeevalochana, Kosuru, Srinivas, D'Souza Vivian, Sushanth Kumar, Bairy Manohar and Manjrekar Poornima - Paraoxonase 1 and Cardiovascular risk in Nephrotic Syndrome Patients, *International Journal of Medicine and Pharmaceutical Sciences*, 2014;4 (3): pp. 107-114. ISSN 2250-0049
 11. Rajeshwari, D'Souza Benedicta and D'Souza Vivian - Tartarate Resistant Acid Phosphatase as a marker in Osteoporosis and Bone Malignancy, *International Journal of Pharma and Bio Sciences* 2014; 5 (3): B - 456-B - 460. ISSN 0975-6299

12. Akshatha L N, Shenoy Mamata T, D'Souza Benedicta, D'Souza Vivian, Prabhu Ashok K, Hegde Anupama and Pooja K Suresh - Elevated ferritin level in a patient with autoimmune haemolytic anaemia, *Biomedicine* 2014; 34 (3): pp. 412-414. ISSN 0970-2067
13. Reddy Sudarshan C, Shetty Beena V and Rao Gayathri M - Modulatory effect of spondias pinnata bark extract on intestinal MPO & sucrase activities in etoposide induced rat model for mucositis, *International Journal of Biological & Pharmaceutical Research* 2014; 5 (5): pp. 396-402. ISSN 0976 – 3651
14. Sudha K, Reshma Kumarachandra, Akshatha L N, Madan Gopal R ,Joyline Salins and Poojary Kumari Prabhavathi P - Evaluation of serum uric acid /inorganic phosphate ratio in prostate disorders and healthy controls, *International Journal of Biomedical And Advance Research* 2014;05 (07): pp. 345-347. ISSN 2229-3809.
15. Shivaprakash, Elizabeth Dilip, Seema Rai, Mischal, Nandini M, Reshma Kumarchandra, Fahim, Natesh and Pallavi - Evaluation of antioxidant potential of costus igneus in ethanol induced peroxidative damage in albino rats, *Journal of Applied pharmaceutical Science* 2014; Vol 4 (08): p 52-55
16. Joshua Abraham M, D'Souza Vivian, Unnikrishnan B, Mithra Prasanna P, Kamath Asha, Acharya Vishak K and Anand Venugopal - Effectiveness of Progressive Resistance Strength Training Versus Traditional Balance Exercise in Improving Balance Among the Elderly - A Randomised Controlled Trial, *Journal of Clinical and Diagnostic Research* 2014;8 (3): pp. 98-102. ISSN 0973-709X
17. Abraham M Joshua, Unnikrishnan B, D'Souza, Vivian, Mithra Prasanna P, Kamath, Asha and Acharya Vishak K - Fall Related Self-efficacy among Elderly: A Comparison of Resistance Training with Balance Exercise, *International Neuropsychiatric Disease Journal* 2014;2 (5): pp. 234-243.
18. Basutkar Prashanth, Shashidhar Veerappa, Shilpa N, Sreekantha, Remya, Vinodchandran and Avinash S S - Study of Guillain Barre Syndrome in Children, *International Journal of Contemporary Surgery* 2014;2 (1): pp. 30-34. ISSN 2320-9615
19. Udupa Sridevi.V, D'Souza Vivian, Udupa Vinit.A and Manjrekar Poornima - Inherent Suppression of Thyroid Stimulating Hormone in Newly Diagnosed Dyslipidemic Patients Indication for Use of Thyromimetics?,*Journal of Clinical and Diagnostic Research* 2014;8 (9):. CC08-CC10.

20. Sudha K, Reshma K and Akshatha L N - Serum Uric acid-Phosphate ratio as Differential Diagnostic marker of Prostate Disorders, International Journal of Pharma and Bio Sciences 2014; 5 (4): (B) 196-(B) 200. ISSN 0975-6299
21. Reshma K, Sudha K, Manjrekar, Poornima, Madan Gopal R, Souparnika S, Yogesh Kumar and Ravikiran AK - Evaluation of biochemical markers of renal dysfunction in prostate disorders and healthy controls, International Journal of Biomedical And Advance Research 2014;05 (09): pp. 415-417. ISSN 2229-3809
22. Nandini M, Prabhu Ashok K, Kamath Asha K and Aishwainee V. G - Profile of Vitamin D deficiency in Mangalore, International Journal of Pharma and Bio Sciences 2014;5 (4): (B) 179-(B) 186. ISSN 0975-6299.
23. Shaheena Appan Parambath, Rukmini M S, Manjrekar Poornima and Hegde Anupama - Systemic Lupus Erythematosus and Autoimmune Hypothyroidism : A Case Report, International Journal of Health and Rehabilitation Sciences 2014; 3 (3): p. 116-118
24. Alap Christy, Rukmini M S, Manjrekar Poornima and Ruby P. Babu - MELAS Syndrome: An Uncommon Mitochondrial Inheritance, Journal of Medical Case Reports 2014; 2 (3): Pp. 145-147. ISSN 2347-6559

Year 2013

National Journals: Nil

International Journals

1. Sahu SS, Madhyastha S and Gayathri M Rao - Neuroprotective effect of resveratrol against prenatal stress induced cognitive impairment and possible involvement of Na⁺-K⁺ atpase activity, Pharmacology, Biochemistry and Behavior 2013 Jan; 103(3):520-525
2. Sridevi V Udupa, Poornima A Manjrekar, Vinit A Udupa and Vivian D'Souza - Altered fructosamine & lipid fractions in subclinical hypothyroidism, J. Clinical & diagnostic research 2013 Jan; 7(1):18-22
3. Mohanlal, Sudha K, Beena V Shetty and Gayathri M Rao - Influence of modified levels of plasma Mg, Cu, Zn & Iron levels on thiols & protein status in diabetes mellitus and diabetic retinopathy, Analytical, pharmaceutical and Biomedical science 2013 Jan-March;2:67-72
4. Shashidhar veerappa, Prashanth B, Shilpa N, Vinod Chandran and Sreekantha - Neonatal seizures etiological and clinical differentiation, Pharma & Biosciences 2013July;4(3):760-772

5. Hariprasad S, Radhakrishna MR, Trupti R, Sreekantha, Avinash and Vinod Chandran - The study of pulmonary tuberculosis in diabetes mellitus patient, *Pharma & Biosciences* 2013 April; 4(2):559-571 Copernicus
6. Amar CS, Ashish J, Vinay Sreekanth, Yogesh B and Vinod Chandran - Study of prevalence and antifungal susceptibility of candida, *Pharma & Biosciences* 2013 April;4(2):361-381
7. Vinayak B, Prasanna U, Akshatha S, Mounitha M, Reshma K, Remya S, Shalini S & Sourabh Shetty - Leukocyte myeloperoxidase activity and serum CRP levels as predictive markers of inflammatory disorders amongst passive smokers, *Biomedical & Advanced Research* 2013 April;04(07)
8. Madhyastha S, Sahu SS and Gayathri M Rao - Resveratrol improves postnatal hippocampal neurogenesis and brain derived neurotrophic factor in prenatally stressed rats, *Developmental neuroscience* 2013 Nov;31(7):580-585
9. Anupama Hegde, Poornima Manjrekar, Doddappa, Jaseem, Fayaz and Poornima R - Paraoxanase-1 activity in non-smoking and smoking healthy male blood donors, *Biomedicine* 2013 Aug;33(3):353-357 *Excerpta, medica, Elsevier Ind.Med*
10. Benedicta D'Souza, Michele PC, Raviraj, Ashok Prabhu, Beena V Shetty and Vivian D'Souza - Effects of Atorvastatin on advanced oxidation protein products and malondialdehyde in dyslipidemic patients with and without diabetes, *Pharma & Biosciences* 2013 Oct;4 (4): 559-563
11. Ruby Babu, Alap Christy, Vivian D'Souza and Benedicta D'Souza - Elevated lactate dehydrogenase in pyrexia of unknown origin, *Biomedicine* 2013 Oct; 33(3):447-448
12. Sohil , Ketki K, Rukmini MS, Nutan K and Poornima AM - A rare case of the Lenz syndrome, *J Clinical & diagnostic research* 2013 Feb;7(2):347-349
13. Mukund PSrinivasan, Padmanabha Kamath, Poornima A Manjrekar, B Unnikrishnan, Aishwarya Ullal, Mohammed Faheem Kotekar and Chakrapani - Mahabala Correlation of severity of coronary artery disease with insulin resistance, *North American Journal of Medical sciences* 2013 Oct;5(10):611-614
14. Shreelaxmi V Hegde, Prabha Adhikari, Sowmya Shetty, Poornima Manjrekar and Vivian D'Souza - Effect of community based yoga intervention on oxidative stress & glycemic parameters in prediabetes, A randomized controlled trial *Complementary therapies in Medicine* 2013 Sept; 21: 571-576

15. Alap L Christy, Poornima Manjrekar, Ruby Babu, Rukmini MS and Anupama Hegde - Elevation of HbA1c in nondiabetic hypothyroid individuals: Is anaemia the connecting link? A preliminary study Journal of clinical & diagnostic research 2013 Nov;7(11):2442-2444
16. Sulekha Sinha, Rukmini MS, Anupama Hegde and Poornima Manjrekar - SIADH in child with tubercular meningitis – A case report, Biomedicine 2013 Feb; 33(1):139-140
17. Ashwin R Rai, S Madhyastha, Gayathri M Rao, Rajalakshmi Rai and Sudhanshu S Sahu - A comparison of Resveratrol and Vit C therapy on Expression of BDNF in stressed rat barain homogenate, IOSR Journal of Pharmacy 2013 Nov;10(3):22-27
18. Sudha K, Anupama Hegde, Poornima Manjrekar and Reshma K - Prevalance of vitamin D deficiency and its relationship with subclinical hypothyroidism Pharma & Biosciences 2013 Oct;4(4):B 1380-1384
19. Reshma K, Alap Christy and Sudha K - Hypo vitaminosis D Association with altered blood lipid profile Innovative research in science, engineering & technology 2013 Dec;2(12):7136-71401.67
20. Ruby P Babu, Alap Christy, Benedicta D'Souza and Vivian D'Souza - A case of megaloblastic anemia with features of hemolytic anemia, Biomedicine 2013 Dec;33(4):593-595
21. Sampath Madhyastha, Sudhanshu S Sahu and Gayathri M Rao - Resveratrol for prenatal stress induced oxidative damage in growing brain and its consequences on survival of neurons, Basics & Clinical Physiology & Pharmacology 2013 July; 24 (2):1-10

Year 2012

National Journals:

1. Poornima A Manjrekar, Anupama Hegde, Srilaxmi, Fiona D'Souza, Vishwas Kaveeshwar, Anupama Jose, Sana Tasneem, Ramya Shenoy. Fructosamine in Non-diabetic first degree relatives of type 2 Diabetes: Risk Assessor, Journal of Clinical & Diagnostic Research 2012; 6 (5): 770-773
2. Bhagyajyothi M Bhat, Raghuveer CV, Vivian D'Souza, Poornima A Manjrekar Antidiabetic & Hypolipidemic effect of salacia oblonga in streptozotocin induced diabetic rats, Journal of Clinical & Diagnostic Research 2012;6(10) : 1685-1687
3. Benedicta D'Souza, Sulekha Sinha, Poornima Manjrekar, Vivian D'Souza Hyperferritinemia in Pulmonary Tuberculosis, Indian Journal Clin. Biochem DOI;10, 1007/s 12291 – 012 – 0289 -5

International Journals:

1. Srilakshmi V.Hegde, Prabha Adhikari, N.K.Subbalakshmi, M. Nandini, Gayathri M.Rao, Vivian D'Souza- Diaphragmatic breathing exercise as a therapeutic intervention for control of oxidative stress in type 2 diabetes mellitus, *Complimentary therapies in Clinical Practice* 2012;(18): 151-153.
2. Benedicta D'Souza, Ruby B, Alap C, Sohil T, Chakrapani, Vinodchandran, Ashok Prabhu, Vivian D'Souza - Influence of malaria on HDL-C and TC/HDL-C ratio in two cases of Diabetes Mellitus, *Biomedicine* 2012, 32 (3): 440-42
3. Alap Christy, Benedicta D'Souza, Ruby B, Chakrapani, Vinodchandran, Ashok Prabhu, Vivian D'Souza - Extremely elevated serum ferritin as a marker of hemophagocytosis secondary to adult onset stills disease, *Biomedicine* 2012, 32 (4): 593-95
4. Sudha K, Gyanesh Tripathi, Mansoor Ashraf Sofi, Sunera Sinha, Gayathri M Rao, Beena V Shetty - Oxidative stress and antioxidants in chronic renal failure with and without dialysis, *International J. of Analytical Pharmaceutical & Biomedical Sciences* 2012;1(4)59
5. Sameer Bhandari, Beena V Shetty, Sudha K, Gayathri M Rao - Induces of oxidative stress in smokers, *Biomedicine* 2012; 32(4): 447
6. Sudhanshu Sahu, Sampath Madhyastha, Gayathri M Rao - Effect of Prenatal stress on expression of glutathione system in neonatal rat brain, *Turkish Neuro surgery* 2012; 22(5): 1-7
7. Prathima, Sindu, BV Shetty, Sudha K, Gayathri M Rao - Role of redox metals, oxidative protein products and antioxidant potentials of thiols in diabetic retinopathy, *J. Med. Biochem* 2012; (31) : 1-5
8. Vinodchandran, Anitha M, Avinash S, Gayathri M Rao, BV Shetty, Sudha K - Protein oxidation: A potential cause of hypoalbuminemia in oral cancer, *Biomedical Research* 2012; 23(2): 227-230.
9. K. Reshma, A.V.Rao, M. Dinesh, D.M.Vasudevan - Effect of a radio sensitizer withaferin A on the free radical Metabolising enzymes of neutrophils, in carcinoma of uterine cervix subjected to radiotherapy, *J. Pharma & Biosciences* 2012 :(3) :1
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11. Sreekantha, Vinod Chandran, Amareshwar M, Avinash.SS, Remya, Kodliwadmth - Gamma glutamyl transpeptidase and total cholesterol levels in smokers and congestive cardiac failure patients", *Indian Journal of Public Health Research and Development* 2012; 3 (2):165-167

12. S. Madhyastha, Sudhanshu S. Sahu, Gayathri M Rao - Prenatal stress induced cognitive impairment & neuronal oxidative stress and its amelioration by resveratrol in neonate rats Research, J of Pharmaceutical, Biological & Chemical Science 2012;3(4):1387-1399

12. Placement record of the past students and the contribution of the department to aid student placements

The department does not play a major role in the UG placements.

The placement record of the MD.post graduate students is 100%. Both MD & MSc. PG students are informed of the vacancies in teaching and research posts by personal communication. Depending upon the eligibility, MSc. students are also encouraged to attend campus selection interviews at Manipal campus.

Well placed alumni are invited to the department to orient the PG's about job opportunities.

13. Plan of action of the department for the next five years

The goals for the department will be in sync with strategic plans of the institution.

GOALS OF THE DEPARTMENT:

Academics:

1. To attain 100% result in the university exams for all UG & PG courses
2. Active integrated teaching involving para clinical & clinical faculty
3. Identify topics & conduct small group teaching
4. To initiate industrial short term internship for postgraduates
5. To facilitate 100% placement for M.Sc & MD PGs
6. To undertake faculty development programmes by conducting guest lectures, CMEs, Workshops & Conferences

Research:

1. To increase the number of ICMR student projects
2. To get external funds for research projects by students & faculty
3. To increase the number of conference presentation at National, International & Overseas conferences by UG, PG students & Faculty.
4. To increase the visibility of the department by augmenting publications in indexed and high impact journals.
5. To increase interdepartmental and inter institutional research by developing appropriate research facilities in the department.

Diagnostics:

1. To improve diagnostic services by way of offering high end tests with the best quality assurance.
2. To train technicians and nursing staff in appropriate cross sectional areas.

PATHOLOGY

1. Faculty profile - adequacy and competency of faculty

There are Thirty Six teaching faculty members who meet the requirements for MBBS, BDS and the postgraduate training programme, as per the requirements of the regulatory bodies.

All faculty members are competent.

Sl#	Name of faculty	Qualification	Designation	Teaching Experience (Yrs)
	Dr. Hema Kini	MBBS MD	Professor & Head	23
	Dr. Urmila N. Khadilkar	MBBS MD	Professor	31
	Dr. Ramadas Naik	MBBS MD	Professor	30
	Dr. Radha R. Pai	MBBS MD	Professor	27
	Dr. Flora D.Lobo	MBBS MD	Professor	24
	Dr. Kausalya Kumari Sahu	MBBS MD	Professor	22
	Dr. Sharada Rai	MBBS MD	Assoc. Prof.	17
	Dr. Jyoti R. Kini	MBBS MD	Assoc. Prof.	14
	Dr. Nirupama M.	MBBS MD	Assoc. Prof.	10
	Dr. Shrijeet Chakraborti	MBBS, MD, DNB	Assoc. Prof.	6
	Dr. Debarshi Saha	MBBS MD	Assoc. Prof.	5
	Dr. Deepa Adiga	MBBS MD	Assoc. Prof.	4
	Dr. Jessica Minal	MBBS MD	Asst. Prof.	4
	Dr. Pooja K.S.	MBBS MD	Asst. Prof.	2
	Dr. Sridevi HB	MBBS MD	Asst. Prof.	<01
	Dr. Chaithra G.V.	MBBS MD	Asst. Prof.	<01
	Dr. Ranjitha Rao	MBBS MD	Asst. Prof.	<01
	Dr. Shimi Pahuja	MBBS	Tutor	2
	Dr. Manu Mahajan	MBBS	Tutor	2
	Dr. T.M. Chandra Bhavani	MBBS	Tutor	2
	Dr. Honey Sachdeva	MBBS	Tutor	2
	Dr. Ashwani Kumar	MBBS	Tutor	2
	Dr. Gauri Munjal	MBBS	Tutor	1
	Dr. Neha Davalpure	MBBS	Tutor	1
	Dr. Shuchi Ghai	MBBS	Tutor	1
	Dr. Saraswathi Sreeram	MBBS	Tutor	1
	Dr. Mahathi Krothapalli	MBBS	Tutor	1
	Dr. Nidhish Kumar	MBBS	Tutor	1
	Dr. Priya Garg	MBBS	Tutor	<01
	Dr. Datla Swathi Priya	MBBS	Tutor	<01
	Dr. Beshwanth Chowdhary V	MBBS	Tutor	<01
	Dr. Rohit Tapadia	MBBS	Tutor	<01
	Dr. Ankit Kumar	MBBS	Tutor	<01
	Dr. Mayuri Swamy	MBBS	Tutor	<01

Faculty who worked for the department for part of the year:

Sl. No	Name of the Relieved Faculty	Designation	Period	
			Date of joining	Date of Relief
1	Dr. Purnima S. Rao	MBBS MD	Assoc. Prof.	10 (Relived on 23/04/2014)
2	Dr. Maryann Margaret Bukelo	MBBS MD	Asst. Prof.	02 (Relived on 31/10/2014)

	Sanctioned	Filled
Teaching	14	19
Tutors	8	17

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The syllabus of both UG and PG courses, are updated at the board of studies meetings held at the Manipal University conducted annually.

The course is regulated by MCI norms and the department strictly complies with the laid down requirement.

4. Trends in the success and drop out rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2011-2012	2012-2013	2013-2014	2011-2012	2012-2013	2013-2014
MBBS	90	93	93	0	0	0
BDS	85	93	94	0	0	0
B.Sc. Nursing	100	83	88	0	0	0
B.P.T.	88	100	86	0	0	0
M.D	100	67	100	0	0	0
D.C.P.	100	100	100	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources-

The department has a library to accommodate 20 students. The departmental library houses about 377 books. In addition, access to 2945 central library books (Hard copies and

online access) provides additional resource material. It is used for reference by the faculty and students. This access to various text books, journals and reference books enables both students and faculty to quick reference material for study, student teaching and routine reporting.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition the department also has 7 desktop computers and 3 multi-functional printers.

There are two air-conditioned practical laboratories, well equipped with 130 microscopes for undergraduate practical classes. The research laboratory in addition enables the post graduate students to perform immunohistochemistry for routine reporting and quality research work.

There is two air conditioned demonstration rooms with a capacity of 125 students each, equipped with audio visual aids to facilitate teaching & learning.

The department also houses a museum where 741 mounted specimens, about 250 unmounted specimens, 17 charts and 25 copies of catalogues are available for student use.

6. Modern teaching methods practiced and use of ICT in teaching – learning –

Audio visual aids available in the department include LCD projector, overhead projector, pentahead microscope and projection microscope

Besides didactic lectures, the students are involved in seminars, case based and group discussions. They are allotted topics in advance to prepare for the presentation and are monitored by tutors and teaching faculty. Group discussions are conducted topicwise. Integrated classes with clinicians on selected topics are also conducted.

The teaching programme includes problem solving exercises with clinicopathologic correlation.

The practical class includes morbid anatomy, hematology and clinical pathology exercises along with blood grouping, facilitating knowledge and skill training.

7. Participation of teachers in academic and personal counseling of students

- i. Teachers are available to conduct theory and practical sessions on regular basis. They also guide the students in their learning process and are available to clarify their doubts.
- ii. Students with learning problems are specially counselled. Slow learners are encouraged to approach the faculty with their learning difficulties.
- iii. Teacher coordinators are in charge of the undergraduate student batches. All teachers take personal interest in the welfare of the students, their attendance, academic involvement, exam performance and general well-being.

- iv. Effort is made to provide students with additional opportunities for presentation. The department also encourages them to deliver seminars which improve their presentation and communication skills.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

2013

Sl#	Topic	Name of the faculty	Venue	Date
1	Pedagogic and Personal effectiveness	Dr. Hema Kini	Department of Medical Education, KMC, Manipal	15-19 th July 2013
2	Pedagogic and Personal effectiveness	Dr. Jyoti Kini	Department of Medical Education, KMC, Manipal	15-19 th July 2013
3	Lesson Plan Preparation	Dr. Nirupama M.	Department of Medical Education, KMC, Mangalore	31 st July 2013
4	Lesson Plan Preparation	Dr. Jessica Minal	Department of Medical Education, KMC, Mangalore	31 st July 2013
5	Lesson Plan Preparation	Dr. Purnima S. Rao	Department of Medical Education, KMC, Mangalore	31 st July 2013
6	How to conduct Journal Club	Dr. Sharada Rai	Department of Medical Education, KMC, Mangalore	25 th Sept. 2013
7	Assessment of learning outcomes: Past, Present and Future	Dr. Hema Kini	Department of Medical Education, KMC, Manipal	13 th Nov. 2013
8	Assessment of learning outcomes: Past, Present and Future	Dr. Urmila N. Khadilkar	Department of Medical Education, KMC, Manipal	13 th Nov. 2013
9	Assessment of learning outcomes: Past, Present and Future	Dr. Radha R. Pai	Department of Medical Education, KMC, Manipal	13 th Nov. 2013
10	Assessment of learning outcomes: Past, Present and Future	Dr. Flora D. Lobo	Department of Medical Education, KMC, Manipal	13 th Nov. 2013
11	Assessment of learning outcomes: Past, Present and Future	Dr. Kausalya K. Sahu	Department of Medical Education, KMC, Manipal	13 th Nov. 2013
12	Assessment of learning outcomes: Past, Present and Future	Dr. Jyoti Kini	Department of Medical Education, KMC, Manipal	13 th Nov. 2013

13	Assessment of learning outcomes: Past, Present and Future	Dr. Sharada Rai	Department of Medical Education, KMC, Manipal	13 th Nov. 2013
14	No Power Communication	Dr. Hema Kini	Department of Medical Education, KMC, Mangalore.	16 th Nov. 2013
15	No Power Communication	Dr. Radha R. Pai	Department of Medical Education, KMC, Mangalore.	16 th Nov. 2013
16	No Power Communication	Dr. Sharada Rai	Department of Medical Education, KMC, Mangalore.	16 th Nov. 2013

2014

Sl#	Topic	Name of the faculty	Venue	Date
1	Workshop on Mentoring of Medical Students	Dr. Sharada Rai	Department of Medical Education, KMC, Mangalore	11 th January 2014
2	Workshop on Research in Medical Education	Dr. Shrijeet Chakraborti	Department of Medical Education, KMC, Mangalore	23 rd April 2014
3	“Problem based learning” workshop	Dr. Hema Kini	Department of Medical Education, KMC, Mangalore	8 th May 2014
4	“How to make a scientific presentation” by Dr. Vinay Kumar	Dr. Hema Kini	Department of Medical Education, KMC, Manipal	19 th Nov. 2014
5	“How to make a scientific presentation” by Dr. Vinay Kumar	Dr. Sharada Rai	Department of Medical Education, KMC, Manipal	19 th Nov. 2014
6	Basic Met Workshop	Dr. Jyoti Kini	Department of Medical Education, KMC, Mangalore	7-9 th August 2014
7	Workshop on “Integrated teaching: What, Why, and How”	Dr. Hema Kini	Department of Medical Education, KMC, Mangalore	4 th December 2014

Staff slide seminars and discussions are periodically held in the department to update and share the knowledge with active participation by all staff members which enhances academic excellence.

During the yearly performance appraisal a structured feedback is obtained from students regarding the faculty’s teaching performance. This is shared and discussed with the faculty and where appropriate remedial action is encouraged. The teaching faculty is encouraged to attend state, national and international programmes, CME’s and

conferences. They also present oral papers, poster presentations and guest lectures at these events. Periodic training programmes are conducted by the Medical education department to keep them informed about newer trends and upgrade existing knowledge on various aspects of medical education and teaching.

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

Didactic lectures for both UGs and PGs, Moderating and evaluating undergraduate seminar and group discussion and also post graduate teaching which includes subject, gross and slide seminars, clinicopathological correlation and journal club. Participation in clinical society meetings, mortality meetings and interdepartmental CPC meetings. Faculty are involved in guidance of postgraduate dissertation, ICMR and STS projects. The students are encouraged to take part in research with faculty guidance.

A neuromuscular lab has been set up and serves as a speciality service for this part of the country. A faculty trained in NIMHANS is in charge of this service and is training other faculty in this area.

A dermatological immunofluorescence technique has been introduced in the department.

Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

1. Co- investigators in inter departmental projects
 - a) Antidiabetic activity effect of *Costus pictus*-follow up study.
 - b) Effect of triphala on isoniazid and rifampicin induced hepatotoxicity in wistar rats
 - c) Effect of Triphala on Isoniazid and rifampicin induced hepatotoxicity in wistar rats
2. Monthly Clinical Society Meetings
3. Statistical and Mortality Meetings.

10. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

The priority areas of research are on breast cancer, lung cancer & thyroid cytology in Hashimoto’s thyroiditis with radiological and anti-thyroid antibody correlation.

Category	Number
PG research projects	12
UG research projects	5

Last 3 years (2012-2014):

		2012	2013	2014
Completed PG research projects		8	6	6
Completed UG research projects		3	3	5
Publications	International	3	15	24
	National	5	13	15
Books		0	2	1
Chapters in books		0	0	1
Conference presentations	International	0	2	3
	National	4	41	20

In addition to the faculty, the department post-graduates also pursue research actively. They are guided by the faculty in this. The details of their research are listed below.

Our ongoing PG research projects are:

Sl#	Title	Name of student	Guide
1	Pharyngeal Neoplasms	Dr. Neha Davalpure	Dr. Flora D. Lobo
2	Over expression of Her2-neu in colorectal carcinoma	Dr. GauriMunjal	Dr. Kausalya K. Sahu
3	Megakaryocytic morphology in myeloproliferative neoplasm	Dr. ShuchiGhai	Dr. Sharada Rai
4	Her-2 and H.Pylori Status in Gastric Carcinoma	Dr. Saraswathy Sreeram	Dr. Ramdas Naik
5	Evaluation of P53 Protein Expression in Barrett Esophagus	Dr. MahathiKrothapalli	Dr. Jyoti Kini
6	Reactive milieu of Hodgkin's lymphoma with emphasis on mast cells and macrophages.	Dr. Nidhish Kumar	Dr. Radha R. Pai
7	Clinicopathological correlation of Non Hodgkin Lymphoma as per WHO classification	Dr. Priya Garg	Dr. Flora D. Lobo
8	Comparative analysis of DOG1 and CD117 in the diagnosis of gastrointestinal stromal tumors	Dr. RohitTapadia	Dr. Kausalya K.Sahu
9	Evaluation of Basal Cell Markers (34βE12,P63) & Alpha-Methylacyl-CoA Racemase (P504s) in the distinction of benign and malignant prostatic lesions.	Dr. BeshwanthChowdary V.	Dr. Hema Kini
10	Histopathological study of fibroblastic, myofibroblastic and fibrohistiocytic tumors involving the skin	Dr. DatlaSwathiPriya	Dr. Radha R. Pai
11	Study of symptomatic peripheral lymphadenopathy in children	Dr. Ankit Kumar	Dr. Urmila N. Khadilkar
12	Morphology of Bone Marrow in Acute Lymphoblastic Leukemia(ALL)	Dr. Mayuri S.	Dr. Nirupama M.

Our ongoing UG research projects are:

Sl#	Title	Name of student	Guide
1	Role of fetal autopsy in prenatal and perinatal evaluation of congenital, Anomalies (Manipal University Project)	Ms. AyshaAbna	Dr. Hema Kini
2	Study of Hemaological parameters in dengue viral infection (ICMR STS project)	Ms. VethaPalaniChellakkannu	Dr. Nirupama M.
3.	Clinicopathological features of triple negative breast carcinoma (Manipal University Project)	Ms. Gowry Reddy	Dr. Pooja K.S.
4.	Validity of hematological scoring system and C-reactive protein as a screening test for early detection of neonatal sepsis(ICMR STS project)	Ms. Kalyani	D. Jyoti Kini
5.	Role of Her 2 neu and p53 in serous adenocarcinoma of ovary(ICMR STS project)	Ms. Aditi Rao	Dr. Sharada Rai

Our completed PG research projects are:**Year 2012**

Sl#	Title	Name of the student	Guide
1	Clinico pathological study of Mediastinal Lesions	Dr. FatimaShamsuddin	Dr. Urmila N.Khadilkar
2	Histologic Pattern Analysis of Gliomas	Dr. Maryann M. Bukelo	Dr. Ramdas Naik
3	Clinicopathological study of peripheral nerve sheath tumors.	Dr. Siny	Dr. Radha R. Pai
4	Morphological evaluation of endometrial intraepithelial neoplasia and its precursor lesion progressing to invasive endometrial adenocarcinoma (Type I)	Dr. AmitKhurana	Dr. Flora D. Lobo
5	Histomorphological study of the lesions of the urinary bladder	Dr. Pallavi	Dr. Hema Kini
6	Histopathological study of colorectal cancer	Dr. Pooja K.S.	Dr. Kausalya Sahu
7	Clinicohaematological profile of pancytopenia	Dr. Sridevi	Dr. Sharada Rai
8	Inter observer variation and discriminatory value of histopathological features in inflammatory bowel disease.	Dr. Srikanth	Dr. Jyothi Kini

Year 2013

Sl#	Title	Name of the student	Guide
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1	Clinico Pathological study of Adnexal tumour of the skin	Dr. Poornima	Dr. Ramdas Naik
2	Haematological parameters in Malaria	Dr. SaurabhArora	Dr. Sharada Rai
3	Non-Neoplastic Kidney disease in tumour nephrectomy and nephroureterectomy specimen	Dr. TanviPaliwal	Dr. Hema Kini
4	Assessment of Iron stores in Bone marrow using intensive grading method	Dr. Binit Kumar Khandelia	Dr. Purnima Rao
5	Evaluation of gastric biopsy in gastritis: Evaluation by visual analogue scale	Dr. Sonam Kumar Pruthi	Dr. Nirupama M.
6	Significant evaluation of pre operative thrombocytosis in ovarian tumours	Dr. Shwetha Ramu	Dr. Ruchi Sinha

Year 2014

Sl#	Title	Name of the student	Guide
1	Clinico Pathological Study Of Meningioma.	Dr. Nidhi	Dr. RadhaR.Pai
2	Clinico Pathological Lesions Of Pancreas	Dr. Vinita	Dr. Urmila N.Khadilkar
3	Molecular Classification Of Breast Carcinoma Based Upon Er,Pr,Her 2 Neu Status And Study Of Ki67	Dr.Gauri R. Chapolikar	Dr. Ramdas Naik
4	Histomoprphological Study Of Non-Neoplastic Liver Diseases	Dr. Kavitha Krishna Pai	Dr. Flora D.Lobo
5	Cytological And Histopathological Correlation In Lung Cancer With Emphasis On Neuro Endocrine Differentiation In Non Small Cell Cancer	Dr. Rujuta R. Datar	Dr. Kausalya K.Sahu
6	Hashimoto Thyroiditis – Correlation Between Cytological, Radiological And Biochemical Parameters.	Dr. Eliz Thomas	Dr. Jyoti Kini

Our completed UG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1	Bone marrow findings in HIV patients	Ms. Tanvi	Dr. Sharada Rai
2	Auramine O fluorescent staining with LED microscopy for cytodagnosis of tuberculosis	Mr. Rohit Nair	Dr. Jyoti Kini
3	Risk categorization and Role of platelet transfusion of Dengue patients	Mr. DebayanDey	Dr. ShrijeetChakraborti

Year 2013

Sl#	Title	Name of the student	Guide
1	FNAC of lymphnode in HIV positive cases in correlation with total lymphocyte count and CD4 count	Ms. Shwetha Poojary	Dr. Pooja K.S.

2	Barr body in buccal smear of carcinoma breast patients	Ms. Rupashree	Dr. Urmila N. Khadilkar
3	Fine Needle aspiration of goiter (Benign and Non-neoplastic with thyroid function test abnormalities.	Mr. Akshay K.	Dr. DebarshiSaha

Year 2014

Sl#	Title	Name of the student	Guide
1	Comparison of endoscopic biopsy and crush cytology in the early diagnosis of colorectal cancer	Mr. ShrikanthRavichandran	Dr. Jyoti R. Kini
2	Grading granulomatous response in tuberculous lymphadenitis (with special emphasis on HIV positive patients) and its correlation with treatment outcomes.	Ms. KomalRautela	Dr. DebarshiSaha
3	“Her 2 neu status and H.pylori infection by microarray technique in gastric carcinoma	Mr. YeshwanterRadhakrishnan	Dr. Ramdas Naik
4	“Spectrum of extrapulmonary tuberculosis – A clinic pathologic study	Mr. Vyom Agarwal	Dr. Deepa Adiga
5	Diagnostic utility of image guided FNAC of intra-thoracic Lesions	Ms. Annie Eliza	Dr. Pooja K.S.

Journal Publications: 2012

International:

- 1) Kini JR, Shetty S, Kini H
Spectrums of paranasal sinus mycoses in coastal India Ear,Nose,
Throat Journal2012;91(6): E15-8
- 2) Chakraborti S,Mahadevan A, Govindan A, Sridhar K, Mohan NV, Satish IR, Rudrappa S, Mangshetty S, Shankar SK.
Pituicytoma: Report of three cases with review of literature.
Pathology Research and Practice. 2013; 209:52-58
- 3) Ray B, D’Souza AS, Kumar V, Pugazhandhi B, D’Souza MR, Nayak D, Sushma RK, Shetty P, Singh H, Krishna L, Bhat KM, Rao AC, Chakraborti S, Kumar N, Saxena A.
Ovarian development in Wistar rat treated prenatally with single dose diisobutyl phthalate.
BratisLekListy (Bratislava Medical Journal) 2012; 113(10): 577-82
- 4) Chakraborti S, Mahadevan A, Govindan A, Bhateja A, Dwarakanath S, Aravinda HR, Phalguni AA, Santosh V, Yasha TC, Rout P, Sampath S, Shankar SK

Rosette-forming glioneuronal tumor - evidence of stem cell origin with biphenotypic differentiation

Virchows Archive 2012; 461(5) 581-8

- 5) Chakraborti S, Govindan A, Alapatt JP, Radhakrishnan M, Santosh V.

Primary myxopapillaryependymoma of the fourth ventricle with cartilaginous metaplasia: a case report and review of the literature.

Brain Tumor Pathology 2012; 29(1) 25-30

National:

- 1) Kini JR, Pooja KS, Sinha R, Sahu KK, Kumar S, Prasad K.

Value of bone marrow examination in Hodgkin Lymphoma

Journal of cancer research and therapeutics 2012; 8(3) 457-9.

- 2) Babu YPR, Karki RK, Menezes RCT, Rao PPJ, Shetty BS, Sahu KK

Adenomatous polyp of the uterus report of an autopsy case and review of the literature

Journal of forensic and legal medicine 2012; 236-8

- 3) Kini H Nirupama M, Rau AR, Gupta S, Augustine A.

Poorly differentiated (Insular) thyroid carcinoma arising in a long-standing colloid goiter:

A cytological dilemma Journal of cytology 2012; 29(1) 97-9

Journal Publications: 2013

International:

- 1) Rao P, Saha D, Rao ST, Chakraborti S, Adiga D.

Awareness on Blood donation among the Nursing staff.

Int J Adv Res 2013; 1(7):610-6.

- 2) Rai S, Chakraborti S

Macrodystrophialipomatosa of the hand.

Int J Med Appl Res 2013; 2(4):2013:43-6.

- 3) Saha D, Sinha R, Pai RR, Kumar A, Chakraborti S.

Laryngeal cysts in infants and children – A pathologist's perspective (with review of literature).

Int J Pediatr Otorhinolaryngol 2013; 77(7):1112-7.

- 4) Chakraborti S, Mahadevan A, Govindan A, Sridhar K, Mohan NV, Satish IR, Rudrappa S, Mangshetty S, Shankar SK.
Pituicytoma: Report of three cases with review of literature.
Pathol Res Pract 2013; 209:52-58.
- 5) Kamath PM, Shenoy SV, Nirupama M, Raj TV.
Hemangiopericytoma: Rare Sinonasaltumour.
Egyptuican J of ENT & Allied Sciences 2013; 14:151-4.
- 6) Nirupama M, Kini H, Kini UA.
Cytomorphology of columnar cell variant of papillary thyroid carcinoma – A case report. IJSRP 2013; 3:1-2
- 7) Gupta H, Sakharwade SC, Angural A, Kotambail A, Bhat GK, Hande MH, D'Souza SC Rao P, Kumar V, Saadi AV, Sathyamoorthy K.
Evidence of Genetic linkage between a polymorphism in the GNAS gene and malaria in south Indian population.
Actatropica 2013; 138:571-7
- 8) Shetty P, Poojary D, Ashok M, Pai RR.
Uncommon cause of non healing extraction socket with oro-antral fistula- A case report. IJAR 2013; 1(8):874-9.
- 9) Mahale A, Dhananjaya KVN, Pai M, Poornima V, Sahu KK.
MRI Sequence and characteristic features in Giant Cell Tumour of Clivus. J ClinDiagn Res. 2013;7(6):1197-1200.
- 10) Lobo FD, Wong MY.
Co existence of Benign Ovarian Serous Cystadenoma and Tuberculosis in a young woman.
Singapore Med. J 2013; 54(8):e154-7.
- 11) Hegde A, Manjrekar PA, Jaseem D, Rao P,
Paraoxonase-1 Activity in non smoking and smoking healthy male blood donors.
Biomedicine 2013;33(3)
- 12) Prabhu LV, Rai R, Ranade AV, Kini H, Krishnamurthy A, Bernhardt KL.
Effect of sildenafil induced nitric oxide on the histomorphology of cardiomyocytes of male rats.
Int J App Basic Med Res 2013;3:84-7.
- 13) Rai R, Prabhu LV, Ranade AV, Kini H, Rao CP, Shetty SK.

Quantification of Retinal thickness with Biochemical Parameters in sildenafil induced male rats.

IJRSR 2013;4(12):2048-51.

- 14) Joseph N, Madi D, Kumar GS, Nelliyan M, Saralaya V, Rai S.
Clinical spectrum of rheumatic fever and rheumatic heart disease. A 10 year experience in an urban area of South North
Am J Med Sci 2013; 5:647-52.
- 15) Kamath MP, Kini H, Shenoy SV, Deviprasad D, Prakash N, Pai R.
Schwannoma of the base of tongue – A rare presentation.
Egypt J Ear Nose Throat Allied Sci
2013;http://dx.doi.org/10.1016/j.ejenta.2013.11.004.

National Journals:

- 1) Suresh PK, Rao PS, Khadilkar UN.
Erythroleukemia with complex cytogenetic abnormalities: A case report with review of literature.
IJAR 2013; 3(70): 538-40.
- 2) Khandelia BK, Chakraborti S, Rai S, Kini H.
Metastatic lesions to thyroid associated with dual primaries: A report of two cases.
Thyroid Res Pract 2013; 10:111-3.
- 3) Arora S, Chakraborti S, Naik R, Ballal CK.
Paraganglioma of left cerebellopontine angle.
Indian J Otol 2013; 19:68-71.
- 4) Sinha R, Rizvi TH, Chakraborti S, Ballal CK, Kumar A.
Primary Melanoma of the Spinal Cord: A Case Report.
J ClinDiag Res 2013;7(6):1148-9.
- 5) Rai S, Subas K, Kini JR, Bhat N, Rao S.
Multiple Retroperitoneal paragangliomas.
Indian J. Surgery 2013; 75(1) S; 125-7
- 6) Shukla S, Kini H.
Iniencephaly: A case report.
Indian J. of Forensic Medicine and Toxicology 2013; 7(1):252-3
- 7) Rastogi P, Atreya A, Acharya Janesh, Adiga D.
Myocardial Infarction in Young Male- A Case Report.
IJFPR 2013;3(1)31-3 (Indexed)

- 8) Shukla S, Kini H.
Iniencephaly: A case report.
Indian Journal of Forensic Medicine and Toxicology 2013; 7(1):252-253.
- 9) Gupta M, Pai RR, Dilip D, Gopal S, Shenoy S.
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J Cytology 2013;30(3):162-8.
- 10) Lobo FD, Suresh PK.
Giant Adult Nephroblastoma – A case Report.
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- 11) Rao PS, Minal J, Suresh PK.
Carcinomatous meningitis in a gastric adenocarcinoma – A case Report.
IJMAS 2013;2(4):342-5.
- 12) Rai PVS, Suresh BV, Bhat IG, Sekhar M, Chakraborti S.
Childhood adrenoleukodystrophy-Classic and variant- Review of clinical manifestations and magnetic resonance imaging.
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- 13) Pruthi SK, Chakraborti S, Naik R, Ballal CK.
Pilomyxoid astrocytoma with high proliferation index.
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Journal Publications: 2014

International:

- 1) Kamath K.P, Kini H, Shenoy V, Deviprasad D, Prakash N. Pai R.
Schwannoma of the base of tongue – A rare presentation.
Egyptian Journal of Ear, Nose, Throat and Allied Sciences 2014;15(1):61-4.
- 2) Madi DR, Achappa B, Kini H, Gupta M, Mahalingam S.
Case of Subcutaneous nodule
Asian Pacific Journal of Tropical Disease 2014;4(1)'336-7
- 3) Kini JR, Thomas E, Kini H.
A study of the cytomorphological spectrum of Hashimoto thyroiditis in Coastal India.
International Journal of Advanced Research 2014;2(4):1137-1143
- 4) Kini JR, John AS, Kini H, Lobo FD, Kumar P, Prasad K.
Subcutaneous panniculitis like T cell Lymphoma. A report of two cases.
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- 5) Pai R, Ghartimagar D, Khadilkar UN, Pai M, Kini A.
Lymph node infarction and lymphoma
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- 6) Shrikanth U, Pai RR, Bukelo MM, Rao AVC.
Primary pleural liposarcoma
International Journal of Medical and Applied Sciences 2014;3(3):97-101.
- 7) Sasidhararan SV, Kumar V, Pai RR, Vasudevan S.
A clinicopathological and immunohistochemical study of Malignant peripheral nerve sheath tumours
International Journal of Research in Medical Sciences 2014;2(4):1307-12.
- 8) Pal SJ, Lobo FD, Nayak SR, Rao A, Bansal A.
Collision tumours of ovary:
A rare entity International J of Innovative Research and Development. 2014;3(7):425-7.
- 9) Kamath MP, Shenoy V, Lobo FD, Majeed NA.
Granular cell tumor –A Rare Laryngeal Tumor
Iranian J Otorhinolaryngology 2014; 26(4); 267-76.
- 10) Pai SG, Pai SR, Kini JR, Nayak MK, Pai GA.
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- 11) Kamath PM, Shenoy SV, Kini JR, Mukundan A.
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- 12) Nirupama M, Pai G, Pai A, Pai R.
Neumann's tumour in new born: A case requiring surgical intervention.
Saudi J Oral Sci 2014;1:117-9
- 13) Santosh Rai PV, Santosh K, Chakraborti S, Pai S, Keerthi I, Pai MK.
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- 14) Santosh Rai PV, Kumar A, Shekhar M, Chakraborti S Cysticercosis cysts everywhere
Annals of Tropical Medicine and Health (*Ann Trop Med Pub Health*) 2014;7(2):142-4
- 15) Arun G, Chakraborti S, Rai S, Laxman Prabhu GG. Seminal vesicle schwannoma presenting with left hydronephrosis. Urology Annals (*Urol Ann*) 2014; 6:363-5.
- 16) Annappa R, Dinesh DVN, JhamariaNL, Suresh PK. Cemented or uncemented hemiarthroplasty for displaced intracapsular femoral neck fractures. IJBAR 2014;5(9):432-4.

- 17) Shanthala PR, Sridevi HB. Renal Oncocytomas: "A pathologist perspective". International Journal of Biomedical Research 2014;5(2):150-2
- 18) Sridevi HB, Nelishka G, Shariff MH, Pai KP FNAC as a screening tool in diagnosing palpable breast lesions in rural area. International Journal of medical and applied sciences 2014;3(1):151-8.
- 19) Somesh MS, Sridevi HB, Muralimnaju BV, Pai SR Morphological and morphometric study of carotid canal in Indian Population International Journal of Biomedical Research 2014;5(7):455-60.
- 20) Shetty BS, Kanchan T, Acharya J, Naik R. Cardiac pathology in fatal electrocution. Burns 2014; 40: e45-e46.
- 21) Kanchan T, Acharya J, Naik R. Grooves on the hepatic surface. Journal of Forensic and Legal Medicine 2014; 21:24-25.
- 22) Rai SP, Acharya P, Sahoo R, Kini H, Rai S, Bokelo M, Giant posterior mediastinal liposarcoma presenting as dysphagia: A clinico-radio-Pathologic correlation. Onc Gas Hep Rep 2014;3:43-5
- 23) Saha D, Kini UA, Kini H. Cutaneous neurocristic hamartoma presenting as cutis verticisgyrata Am J Dermatopathol 2014;36(3):66-9
- 24) Adiga DSA, Khadilkar UN, Kini JR, Prashanth B, Chakrapani M. Clinicopathological diversity of PNH clone-A case series International Journal of advanced research 2014;2(7):650-3.

National:

- 1) Satsangi S, Acharya V, Kini H, Anupama K.V. An unusual case of lung mass in a young female. Lung India 2014; 31(2):188-90.
- 2) Menezes RG, Muralimanju BV, Kharoshah MA, Madadin M, Naik R, Senthilkumaran S. Lobed Spleen: an autopsy case report with emphasis on surgical anatomy. ClinTer 2014; 165(3):143-5
- 3) Saha D, Khadilkar UN, Pai RR, Kumar A. Primary mucinous carcinoma of skin with psammoma bodies Indian J. DermatolVenereolLeprol 2014; 80(4):367-9.
- 4) Kamath SJ, Nayak MA, Lobo FD. Acquired Horner's Syndrome in an infant Muller J. Med. Sci Res. 2014;5:174-6

- 5) Babu YPR, Lobo FD, Bakkannavan SM, Hegde A, Kanchan T, GNP Kumar
Sudden Death due to septic thrombi associated with septicemia.
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- 6) Bukelo MM, Srikanth U, Rai S.
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- 7) Kini JR, Gautam K, Augustine A.
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- 8) Dinesha, Padyana M, Nayak K, Nirupama M, Pai DS
Castleman's disease with paraneoplastic pemphigus.
Indian J Dermatol 2014;59:421
- 9) Govindan A, Mahadevan A, Chakraborti S, Furtado S, Krishna S.
Absence of anaplastic lymphoma kinase-1 expression in inflammatory myofibroblastic tumors of the central nervous system: Does it signify a different nosologic entity from its systemic counterpart?
Indian Journal of Pathology and Microbiology (IJPM) 2014; 57:178-82.
- 10) Pruthi S, Nirupama M, Chakraborti S
Evaluation of gastric biopsies in chronic gastritis: Grading of inflammation by Visual Analogue Scale.
Medical Journal of Dr. D Y Patil University (Med J DY Patil Univ) 2014; 7:463-7.
- 11) Kamath MP, Bhojwani KM, Bhandarkar AM, Pai RR, Rent NH.
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J Clin&Diag Research 2014;8(3):144-5.
- 12) Akshatha LN, Shenoy MT, D'Souza B, D'souza V, Prabhu AK, Hegde A, Pooja KS.
Elevated ferritin level in a patient with autoimmune hemolytic anemia.
Biomedicine 2014;34(3):412-4.
- 13) Hegde VK, Khadilkar UN
Clinicopathological study of interface dermatitis
IJPM2014;57(3):386-9.
- 14) Lokha Vijayan SK, Shetty S, Bhat SR, Shetty S, Khadilkar UN
Retroperitoneal schwannoma: An atypical presentation
J Clin&Diag Research 2014;8(10):22-3
- 15) Adiga DSA, Rai S, Pai RR, Tantry VB.
Hepatic epithelioid hemangioendothelioma in a young female mimicking metastasis on radiology.
Report of a case with brief review of literature Oncology, Gastroenterology, and Hepatology reports 2014; 4(1):34-6.

The details of books published by our faculty are given below:

Year 2013

Sl#	Title	Name of the faculty	Publisher
1.	Textbook of Pathology & Genetics for nurses	Dr. Ramdas Naik Dr. Sharada Rai Dr. Astha Gupta	Jaypee
2.	Rapid Review of Hematology	Dr. Ramdas Nayak Dr. Sharada Rai	Jaypee Publisher

Year 2014

Sl#	Title	Name of the faculty	Publisher
1.	Exam preparatory manual for undergraduates- General and Systemic Pathology	Dr. Ramadas Naik	JP Publishers, Delhi
2.	BLT 402(B): Cytogenetics 4 Chapters: Unit 4: Cytology of Respiratory tract Unit 5: Cytology of Genitourinary tract Unit 6: Diagnostic Cytology – I Unit 7: Diagnostic Cytology – II	Dr. Chakraborti S	Self-Learning Material for BMLT, Sikkim Manipal University Distance Education

The details of our conference presentations have been listed below.

Year 2012

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Coexistence of cancer and tuberculosis	Dr. Flora D. Lobo	Tuberculosis-Post, Present and Future Chaitanya Hall, Valley view, Manipal. 10-11 Feb. 2012
2	Histomorphological pattern analysis in Pulmonary Tuberculosis.	Dr. Mamta Gupta	Tuberculosis-Post, Present and Future Chaitanya Hall, Valley view, Manipal. 10-11 Feb. 2012

3	Granulomatous Mastitis – Is it always tuberculosis?	Dr. Deepa Adiga	Tuberculosis-Post, Present and Future Chaitanya Hall, Valley view, Manipal. 10-11 Feb. 2012
4	Rosette-forming glioneuronal tumour of the fourth ventricle and papillary glioneuronal tumour – evidence for evolution from pluripotent stem cells.	Dr. Shrijeet Chakraborti	4 th Annual Conference of the Indian Society of Neuro-oncology National Institute of Mental Health and Neurosciences, Bangalore, 7 th April 2012 2012

Year 2013

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	E. Poster Titled “Ascitis Cytology in the Detection of malignancy.	Dr. Radha R. Pai	18 th International Congress in Cytology, 26-30 May 2013, Paris
2	Presented two cases in satellite symposium, Indian subcontinent. Title: FNAC of two unusual cases of salivary gland neoplasm.	Dr. Radha R. Pai	18 th International Congress in Cytology, 26-30 May 2013, Paris

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	A Series of six interesting cardiac lesions seen at autopsy	Dr. M. Nirupama Dr. Radha R. Pai Dr. Flora D. Lobo Dr. Urmila N. Khadilkar (Co-authors)	XXXIV Annual National Conference of Indian Academy of Forensic Medicine, 1-3 Feb. 2013, Dr. TMA Pai Conference Hall, Mangalore.
2	Autopsy heart- A response for medical education	Dr. Deepa Adiga Dr. Radha R. Pai Dr. Flora D. Lobo (Co-authors)	XXXIV Annual National Conference of Indian Academy of Forensic Medicine, 1-3 Feb. 2013, Dr. TMA Pai Conference Hall, Mangalore.

3	Toxin induced plethora of Hepatic stem cells: An autopsy series.	Dr. Flora D. Lobo Dr. Radha R. Pai (Co-authors)	XXXIV Annual National Conference of Indian Academy of Forensic Medicine, 1-3 Feb. 2013, Dr. TMA Pai Conference Hall, Mangalore.
4	Hepatic pancreatic pseudo cyst in the liver.	Dr. Radha R. Pai (Co-author)	XXXIV Annual National Conference of Indian Academy of Forensic Medicine, 1-3 Feb. 2013, Dr. TMA Pai Conference Hall, Mangalore.
5	Demyelinating lesion in the brain: A study of 8 cases	Dr. ShrijeetChakraborti	Neuropath Conference 2013, 1-3 Feb. 2013, GB Pant Hospital, New Delhi.
6	Clinicopathological study of schwannomas	Dr. Radha R. Pai Dr. Nirupama M. Dr. ShrijeetChakraborti (Co-authors)	Neuropath Conference 2013, 1-3 Feb. 2013, GB Pant Hospital, New Delhi.
7.	Transfusion in Autoimmune hemolytic anemia.	Dr. DebarshiSaha (Co-authors)	I st CME in Hematology, 16-17 th March 2013, TMA Pai Convention Centre, Mangalore.
8.	Red blood cell- Cross talk: A study of autoimmune hemolytic anemia	Dr. Maryann M. Bukelo Dr. Sharada Rai Dr.Urmila N. Khadilkar, Dr. Radha R. Pai, Dr. Jyoti Kini (Co-authors)	I st CME in Hematology, 16-17 th March 2013, TMA Pai Convention Centre, Mangalore.
9.	Aplastic anemia: Insight into the etologies and clinic pathological profile.	Dr. Sharada Rai Dr. Radha R. Pai Dr. Jyot Kini Dr. Ramdas Naik (Co-authors)	I st CME in Hematology, 16-17 th March 2013, TMA Pai Convention Centre, Mangalore.
10.	Assessment of Iron stores in anemia of chronic disease using intensive grading system.	Dr. Radha R. Pai (Co-author)	I st CME in Hematology, 16-17 th March 2013, TMA Pai Convention Centre, Mangalore.
11.	Clinicohematological profile of myelodysplastic syndromes.	Dr. Sharada Rai Dr. Radha R. Pai Dr. Jyoti Kini (Co-authors)	I st CME in Hematology, 16-17 th March 2013, TMA Pai Convention Centre, Mangalore.
12.	A. Evaluation of Iron status in anemia of chronic kidney disease	Dr. Sharada Rai Dr. Flora D. Lobo Dr.Radha R. Pai (Co-authors)	I st CME in Hematology, 16-17 th March 2013, TMA Pai Convention Centre, Mangalore.

13.	Correlation of bone marrow picture with vitamin B12 assay	Dr. Jyoti Kini Dr. ShrijeetChakraborti Dr. Nirupama M. Dr. Urmila N. Khadilkar (Co-authors)	I st CME in Hematology, 16-17 th March 2013, TMA Pai Convention Centre, Mangalore.
14	Case of rabies encephalitis	Dr. ShrijeetChakraborti S.	Recent Advances in Rabies: Rabies update-2013, 13 th April 2013 at Medical Education Department, KMC, Mangalore.
15	Mosaic of uncommon brain tumours	Dr. ShrijeetCharkaborti Dr. Ramdas Naik Dr. Flora D. Lobo Dr. Hema Kini (Co-authors)	Neuropath CME -2013, 20 th July 2013, KMC, Manipal.
16	Isolated central nervous system blast crisis in chronic myeloid leukemia	Dr. Jyoti Kini (Co-author)	Neuropath CME -2013, 20 th July 2013, KMC, Manipal.
17	Clinicopathological diversity of PNH Clone	Dr. Deepa Adiga (Author) Dr. Urmila N. Khadilkar Dr. Jyoti R. Kini (Co-authors)	KCIAPM 40 th Annual State Conference, 6-8 th Sept. 2013, BLDE University, Bijapur
18	Evaluation of gastric biopsied in chronic gastritis.	Dr. Nirupama M. Dr. ShrijeetChakraborti Dr. Radha R. Pai (Co-authors)	KCIAPM 40 th Annual State Conference, 6-8 th Sept. 2013, BLDE University, Bijapur
19	HCC and associated changes in adjacent liver parenchyma – A study of 6 hepatectomy cases	Dr. Flora D. Lobo (Co-author)	KCIAPM 40 th Annual State Conference, 6-8 th Sept. 2013, BLDE University, Bijapur
20	Synovial sarcoma: An Immunohistochemical study of 9 cases	Dr. Radha R. Pai Dr. Hema Kini Dr. Sharada Rai (Co-authors)	KCIAPM 40 th Annual State Conference, 6-8 th Sept. 2013, BLDE University, Bijapur
21	Mucoepidermoid carcinoma diagnosed on cytology : A reappraisal	Dr. Maryann Bukelo Dr. Sharada Rai Dr. Ramadas Naik Dr. Radha R. Pai (Co-authors)	KCIAPM 40 th Annual State Conference, 6-8 th Sept. 2013, BLDE University, Bijapur

22	Megakaryocyte alteration in Idiopathic thrombocytopenic purpura.	Dr. Sharada Rai Dr. Maryann Bukelo Dr. Ramadas Naik Dr. Radha R. Pai (Co-authors)	KCIAPM 40 th Annual State Conference, 6-8 th Sept. 2013, BLDE University, Bijapur
23	Clear cell sarcoma of soft parts; A series of 4 cases.	Dr. Radha R. Pai Dr. Flroa D. Lobo Dr. Ramadas Naik Dr. Nirupama M. (Co-authors)	KCIAPM 40 th Annual State Conference, 6-8 th Sept. 2013, BLDE University, Bijapur
24	Rhabdomyoma of the larynx – A diagnostic dilemma.	Dr. Radha R. Pai Dr. Hema Kini Dr. Flroa D. Lobo Dr. Nirupama M. (Co-authors)	KCIAPM 40 th Annual State Conference, 6-8 th Sept. 2013, BLDE University, Bijapur
25	Cytology of a paratesticular tumour in an adolescent.	Dr. Radha R. Pai	43 rd National Annual Conference, 3-6 October 2013, JIPMER, GRT Hotel, Pondocherry.
26	Isolated testicular relapse of ALL in a child”	Dr. Flora D. Lobo	43 rd National Annual Conference, 3-6 October 2013, JIPMER, GRT Hotel, Pondocherry.
27	Atypical glandular cells in cervicological smears – Paper presented. (oral presentation)	Dr. Pooja K.S	43 rd National Annual Conference, 3-6 October 2013, JIPMER, GRT Hotel, Pondocherry.
28	Cytology of Klatskintumour (oral presentation)	Dr. Deepa Adiga	43 rd National Annual Conference, 3-6 October 2013, JIPMER, GRT Hotel, Pondocherry.
29	Follicular variant of papillary carcinoma thyroid (oral presentation)	Dr. Jessica Minal Dr. Urmila N. Khadilkar Dr. Flora D. Lobo Dr. KaulsalyaSahu (Co-authors)	43 rd National Annual Conference, 3-6 October 2013, JIPMER, GRT Hotel, Pondocherry.
30	Hashimoto thyroiditis – A correlation of cytomorphology with clinical biochemical and radiological findings (oral presentation)	Dr. Jyoti Kini Dr. Hema Kini Dr. Radha R. Pai (Co-authors)	43 rd National Annual Conference, 3-6 October 2013, JIPMER, GRT Hotel, Pondocherry.

31	Clinicohematological profile of hairy cell leukemia.	Dr. Jyoti Kini Dr. Deepa Adiga Dr. Nirupama M. Dr. Urmila Khadilkar (Co-authors)	54 th Annual conference of Indian Society of Hematology and Blood Transfusion, Hematocon 2013, 7-10th Nov. 2013, Hotel Taj Mahal, Mumbai
32	Myelomatous pleural effusion – A case report.	Dr. Jyoti Kini (Co-author)	54 th Annual conference of Indian Society of Hematology and Blood Transfusion, Hematocon 2013, 7-10th Nov. 2013, Hotel Taj Mahal, Mumbai
33	Assessment of Iron stores in bone marrow using an Intensive grading method	Dr. Purnima S. Rao (Co-authors)	54 th Annual conference of Indian Society of Hematology and Blood Transfusion, Hematocon 2013, 7-10th Nov. 2013, Hotel Taj Mahal, Mumbai
34	Parameters as an Indicator of acute Infections by the automated hematology analyzer.	Dr. Pooja KS.	54 th Annual conference of Indian Society of Hematology and Blood Transfusion, Hematocon 2013, 7-10th Nov. 2013, Hotel Taj Mahal, Mumbai
35	Multiple myeloma presenting as pancytopenia.	Dr. Sridevi HB Dr. Pooja K.S. (Co-authors)	54 th Annual conference of Indian Society of Hematology and Blood Transfusion, Hematocon 2013, 7-10th Nov. 2013, Hotel Taj Mahal, Mumbai
36	Money matters. Economic Burden of multiple myeloma and its impact on patients undergoing chemotherapy in tertiary care centers- A Gross sectional study. (Oral Presentation)	Dr. Jyoti Kini (Co-authors)	54 th Annual conference of Indian Society of Hematology and Blood Transfusion, Hematocon 2013, 7-10th Nov. 2013, Hotel Taj Mahal, Mumbai
37	Hematological diversity of pancytopenia – A study of 390 cases	Dr. Sridevi HB (Co-authors)	54 th Annual conference of Indian Society of Hematology and Blood Transfusion, Hematocon 2013, 7-10th Nov. 2013, Hotel Taj Mahal, Mumbai
38	Acute hemorrhagic pancreatitis in post partum women – A Fatal abdominal catastrophe .(poster presentation)	Dr. Ramadas Naik (Co-authors)	APCON 2013, 12-15 th Dec. 2013, Aurangabad.

39	Cystic Neoplasm of pancreas:-Intraductal papillary mucinous neoplasm and mucinous cystadenoma. A case series. (poster presentation)	Dr. Urmila Khadilkar Dr. Radha R. Pai Dr. Flora D. Lobo (Co-authors)	APCON 2013, 12-15 th Dec. 2013, Aurangabad.
40	Clinicopathologic study and MIB1 index in pilocytic astrocytoma. (poster presentation)	Dr. Maryann Bukelo Dr. Ramdas Naik (Co-authors)	APCON 2013, 12-15 th Dec. 2013, Aurangabad.
41	A. Comparison of Auramine-O method using light emitting diode fluorescence microscopy and modified ziehl-neelsen method in cytodagnosis of tuberculosis (poster presentation)	Dr. Jyoti Kini (Co-author)	Empower 2013 International Student Medical Conference, 5-6 th September 2013, Stanley Medical College, Chennai.

Year 2014

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Chromoblastomycosis: A ten year study in a tertiary care centre (poster presentation)	Dr. Jyoti Kini	International dermatopathology conference and annual DSI meeting, 14-16 th Nov. 2014, St. John's Medical College and hospital, Bangalore.
2.	Spectrum of cutaneous vascular proliferations: our institutional experience for seven years (oral presentation)	Dr. Pooja K.S.	International dermatopathology conference and annual DSI meeting, 14-16 th Nov. 2014, St. John's Medical College and hospital, Bangalore.
3.	Morphological patterns in cutaneous eccrine tumours: A six year experience (poster presentation)	Dr. Sridevi HB	International dermatopathology conference and annual DSI meeting, 14-16 th Nov. 2014, St. John's Medical College and hospital, Bangalore.

Year 2014

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Inguinal endometriosis – A case report with review of literature.	Dr. Nirupama M.	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.
2	FNAC of squamous cell carcinoma in a thyroglossal cyst.	Dr. Jyoti R. Kini	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.
3	Quality assurance in gynecologic cytology. The value of cytotechnologist – cytopathologist discrepancy logs	Dr. Hema Kini Dr. Sharada Rai Dr. Pooja K.S. Dr. Kausalya Sahu (Co-authors)	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.
4	FNAC in the diagnosis of salivary gland lesions: Three year experience	Dr. Pooja K.S. (Co-author)	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.
5	Lymphoepithelial adenitis – A case series	Dr. Flora Lobo Dr. Hema Kini Dr. Debarshi Saha (Co-authors)	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.

6	Correlation of epithelial abnormalities in Pap smears and cervical biopsies	Dr. Hema Kini Dr. Jessica Minal Dr. Pooja K.S. (Co-authors)	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.
7	Cervical smear examination findings in Peri – and postmenopausal women.	Dr. Hema Kini Dr. ShrijeetChakraborti (Co-authors)	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.
8	Giant cell tumour of Tendon sheath of Lt. great toe – A case report	Dr. Flora D. Lobo Dr. Hema Kini Dr. ShrijeetChakraborti (Co-authors)	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.
9	A fortuitous turn of evidence in an elderly female.(Dr. Flora D. Lobo (Co-author)	Indian Academy of Cytologists, Karnataka Chapter-2 nd Annual conference, 29 th & 30 th March 2014, Fr. Muller Medical College, Mangalore.
10	Unusual tumours of pancreas – A report of five cases. (Poster presentation)	Dr. Deepa Adiga	41 st Annual State KCIAPM conference, 5-7 th Sept. 2014, Kempegowda Institute of Medical Sciences, Bangalore
11	Haematological findings in bone marrow metastasis of non-haematolymphoid malignancies (oral presentation)	Dr. ShrijeetChakraborti Dr. Urmila N. Khadilkar Dr. Jyoti Kini Dr. Debarshi Saha (Co-authors)	41 st Annual State KCIAPM conference, 5-7 th Sept. 2014, Kempegowda Institute of Medical Sciences, Bangalore

12	Hematological findings in non-oncotherapy drug-induced myelosuppression. (oral presentation)	Dr. ShrijeetChakraborti Dr. Urmila N. Khadilkar Dr. Jyoti Kini Dr. DebarshiSaha (Co-authors)	41 st Annual State KCIAPM conference, 5-7 th Sept. 2014, Kempegowda Institute of Medical Sciences, Bangalore
13	Eosinophilic Gastroenteritis – A Diagnostic Dilemma (Oral presentation)	Dr. Sharada Rai Dr. Ramadas Naik Dr. Maryann Bukelo (Co-auhtors)	41 st Annual State KCIAPM conference, 5-7 th Sept. 2014, Kempegowda Institute of Medical Sciences, Bangalore
14.	Gastrointestinal Neuroendocrine carcinomas (oral presentation)	Dr. Ramdas Naik Dr. Sharada Rai (Co-authors)	41 st Annual State KCIAPM conference, 5-7 th Sept. 2014, Kempegowda Institute of Medical Sciences, Bangalore
15	And it made all the difference” Introduction of HPLC, a key tool in the diagnosis of thalassemias and hemoglobinopathies (poster presentation)	Dr. Urmila Khadilkar Dr. DebarshiSaha Dr.M. Nirupama (Co-authors)	Haematocon –2014 Hyderabad, 6-9 th Nov. 2014, Ramoji film city, Hyderabad.
16	Acute megakaryoblastic leukemia – A case report (poster presentation)	Dr. Jyoti Kini (Co-author)	Haematocon –2014 Hyderabad, 6-9 th Nov. 2014, Ramoji film city, Hyderabad.
17	The enigmatic chronic myelomonocytic leukemia. (poster presentation)	Dr. Jyoti Kini Dr. Nirupama M. Dr. Urmila Khadilkar (Co-auhtors)	Haematocon –2014 Hyderabad, 6-9 th Nov. 2014, Ramoji film city, Hyderabad.
18	Primary testicular lymphoma: A Case Report (poster presentation)	Dr. Jyoti Kini Dr. Hema Kini Dr. Kausalya Sahu (Co-authors)	Haematocon –2014 Hyderabad, 6-9 th Nov. 2014, Ramoji film city, Hyderabad.
19	HemophagocyticLymphohistiocytosis (poster presentation)	Dr. Jyoti Kini Dr. Pooja K.S. Dr. Urmila N. Khadilkar Dr. ShrijeetChakraborti Dr. Deepa Adiga (Co-authors)	Haematocon –2014 Hyderabad, 6-9 th Nov. 2014, Ramoji film city, Hyderabad.

20	Clinico-haematological profile of Jak 2 positive myeloproliferative neoplasms in a tertiary care centre (Oral Presentation)	Dr. Jyoti Kini Dr. Urmila Khadilkar Dr. Suresh PK (Co-authors)	Haematocon –2014 Hyderabad, 6-9 th Nov. 2014, Ramoji film city, Hyderabad.
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11. Placement record of the past students and the contribution of the department to aid student placements

The students have performed with excellent academic results in the entrance exams and have joined for post graduation in premier institutes of India and abroad.

The post graduates of our department have secured good results with employment in various universities as Residents/Assistant professors.

Some of our students have upgraded their academic qualifications in foreign universities and have specialized in specific branches.

Plan of action of the department for the next five years

- i. To have in-house specialization in other branches in order to improve the quality of diagnostic work.
- ii. To explore and tap research funds for special projects.
- iii. There is potential to start nephropathology including transplant pathology.
- iv. To establish flow cytometry in haematopathology.
- v. To try and adapt a competency based training programme pattern of teaching for undergraduates and postgraduates.
- vi. To host state/national/ international pathology conference/CME/workshop in selected areas so as to provide a platform for training faculty and postgraduates.

MICROBIOLOGY

1. Faculty profile - adequacy and competency of faculty:

There are twenty teaching faculty members who meet the requirements for MBBS, BDS and the postgraduate training programme, as per the requirements of the regulatory bodies. All faculty members are competent.

They are also involved in diagnostic and research activities as well as training Postgraduate students.

Sl#	Name of faculty	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. Shrikala Baliga	MBBS MD	Professor and Head	20
2.	Dr. Shalini Shenoy Mulky	MBBS MD	Professor	22
3.	Dr. K. Vidyalakshmi	MBBS MD	Addl. Prof.	19
4.	Dr. Gopalkrishna Bhat K.	M.Sc., PhD	Addl. Prof.	28
5.	Dr. Suchitra Shenoy M.	MBBS MD	Assoc. Prof.	11
6.	Dr. Sevitha Bhat	MBBS MD	Assoc. Prof.	06
7.	Dr. Radhakrishna M.	M.Sc., PhD	Assoc. Prof.	28
8.	Dr. Ethel Suman	M.Sc., PhD	Assoc. Prof.	23
9.	Dr. Dhanashree B.	M.Sc., PhD	Assoc. Prof.	23
10.	Dr. K. Vishwas Saralaya	M.Sc., PhD	Assoc. Prof.	23
11.	Dr. K. Ashwini Hegde	M.Sc., PhD	Assoc. Prof.	26
12.	Dr. J. Udayalaxmi	M.Sc., PhD	Selection Grade Lecturer	22
13.	Dr. Pooja Rao	MBBS MD	Asst. Prof	02
14.	Dr. Liz Mary Paul	MBBS	Tutor	02
15.	Dr. Aneeta Mary Jacob	MBBS	Tutor	02
16.	Dr. C. Meghna	MBBS	Tutor	02

17.	Dr. Bangera Divya Narayan	MBBS	Tutor	02
18.	Dr. Aseem Rangnekar	MBBS	Tutor	01
19.	Dr. Prerna Khurana	MBBS	Tutor	01
20.	Dr. Tanya Rakshit	MBBS	Tutor	01

Faculty who worked for the department for part of the year:

Sl. No	Name of the Relieved Faculty	Designation	Period	
			Date of joining	Date of Relief
1	Dr. Shrikara Mallya P	Professor	10-09-1986	31-10-2014
2	Dr. Saldanha Dominic R.M.	Associate Professor	02-07-2003	14-02-2014

All the faculty have the desired competency.

Faculty Positions sanctioned and filled:

Designation	Sanctioned	Filled
Teaching staff	11	13
Tutors	6	06

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes:

The various courses are governed by regulatory bodies like MCI, DCI, etc. and the department strictly complies with the laid down requirement. The board of studies of Microbiology had decided to incorporate a major question based on a clinical scenario in the formative and summative examinations of the MBBS course. The question paper has also been revised to incorporate more portions so as to have a thorough evaluation of the curriculum. To comply with this the department faculties have made changes in the teaching pattern where in a clinical scenario is discussed during the lecture and practical classes. Integrated teaching has been introduced from the year 2012 in which a clinician and a microbiologist discuss a clinical case scenario for the student to have a holistic approach to infectious diseases. Competency based teaching has been introduced in the MBBS curriculum where the student is taught the competency to choose the appropriate antibiotic, based on standard guidelines. MBBS students are also taught to interpret basic

microbiology reports. The spotters and applied exercises for BDS has been incorporated in the form of clinical cases.

MD students are posted to ICU and wards and there is regular clinical case discussion with the clinician being present for the discussion. M.Sc and MD students are also posted to Manipal for hands on training in Virology.

After each Examination the results are analysed and methods to improve the student performance are discussed. Regular discussions are conducted with students regarding performance in exams and remedial measures suggested.

4. Trends in the success and drop out rates of students during the past three years

Course	Pass Percentage			Dropout Rate		
	2011-2012	2012-2013	2013-2014	2011-2012	2012-2013	2013-2014
MBBS	95	95	93	0	0	0
BDS	84	84	92	0	0	0
M. D	100	100	100	0	0	0
M. Sc.	71.4	67	76	0	0	0
B.Sc (Nursing)	85	91	75	0	0	0
BPT	88	100	86	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped library with 180 books and nine computers are available in the department. The department has a state of the art Diagnostic centre which was the 1st Diagnostic lab in the district and coastal belt to be accredited by NABL in 2008. The department also has a research laboratory, which can be utilised by Undergraduate, Postgraduate and PhD students who wish to carry out research. The State Reference Laboratory for HIV testing and DOTS microscopy centre of the RNTCP are present in the department.

The well-equipped laboratories of the department perform about a lakh of investigations in a year in the field of bacteriology, mycology, parasitology, virology and serology. The Department of Microbiology has made use of technology to provide the best service in Microbiological diagnosis. The PCR laboratory offers molecular diagnostics as well as research facility. The BacT Alert and BacTec strengthens the numerous blood culture reports. Fluorescent Microscope is used for the diagnosis of autoimmune diseases. The laboratory also performs antibiotic sensitivity by VITEK for MIC and uses Electro Chemilumescence for detection of antibodies to HIV, HCV and HBsAg. New technologies for diagnostic purpose include Real Time PCR, MGIT, Gene Xpert, and Minividas.

The National AIDS Control Organization (NACO) has recognized the departmental laboratory as State Reference Laboratory (SRL) for HIV testing. This Laboratory conducts External Quality Assurance Programme (EQAS) and Sentinel Surveillance for the HIV testing

laboratories of three districts namely, Dakshina Kannada, Kodagu and Hassan. The SRL was awarded the **five star status** in a surveillance audit conducted by NACO. **The SRL has been accredited by the NABL (certificate no. M-0619) in 2013. It is the first NABL accredited SRL in Karnataka. The SRL was awarded the prize for the outstanding SRL by NACO in the year 2014.**

The department is an integral part of the Infection Control Committee in the medical college hospitals and the Government hospitals. It is actively involved in Infection Control in hospitals. The department has a microscopy center for Revised National TB Control Programme. The college also has a well-equipped research laboratory which is used by the PhD students.

6. Modern teaching methods practiced and use of ICT in teaching – learning.

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with, lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon.

All the classrooms, demonstration rooms and Practical hall are air conditioned and provided with LCD projector. The department is also Wi Fi enabled. Computer applications are used for:

1. Instructional programs as study aids
2. For Bibliographic search
3. Computer-based instruction involving students' interaction to demonstrate understanding (i.e; interactive computer program responding to learner input)
4. Computerized case simulation to teach or test laboratory diagnostic skills
5. Internet or other on-line content based programs originating from outside the medical school like CDC, WHO, Pubmed. Staff can use E-content (clinical key and Springer Link) and they can access the library resources from any place.
6. On-line content based programs originating within the institution and distributed through local area network or net browser technology.
7. A library of all presentations (Seminar/ Journal Club) is maintained in the department

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Seminars/Self-directed learning
- Demonstrations

7. Participation of teachers in academic and personal counseling of students

All teachers are engaged in actively teaching both undergraduates & postgraduates. Every attempt is made to make the topic lucid and interesting. Students are encouraged to clarify their doubts both during the lectures or later. Slow learners are given special attention to overcome their learning difficulties

Following steps are taken for students with poor academic performance:

- i. They are encouraged to approach the faculty with their learning difficulties.
- ii. Consultations/guidance/individual attention is given regarding their problems concerning academic performance.
- iii. Extra coaching sessions including individual attention and tests are given to such students to ensure that they perform to a satisfactory level.

The postgraduate students carry out regular lab work and diagnostic work under the supervision of a faculty member. The postgraduates undertake their prescribed dissertation work under the guidance of their allotted guide and also do voluntary research projects under different faculty. Faculty also encourages undergraduate students to undertake ICMR STS and in the past years many such projects have been completed. Postgraduates are encouraged to do minor projects and present papers/ posters during national and international conferences. They are also guided by faculty to publish quality papers in national and international indexed journals. Besides this the Research cell of the institution organizes Student Research Forum and Student Colloquium wherein the students have an opportunity to present their work in the form of paper, posters as well as project their innovative ideas.

8. Details of faculty development programmes and teachers who have been benefited during the past two years:

The college has a various programmes organized by the Medical education unit of the college to enable teachers to upgrade their skills. At a given time one of the department faculty serves

as the member of the “Medical Education Unit”. The faculty has played a key role in developing the course material for these programmes.

In addition, information regarding any such programme being conducted outside the college is brought to the attention of the faculty. The college has now made attendance in a staff development programme qualifying criteria for academic advancement (promotion). In the past two years 1 faculty had attended the same. In the past, three of our teachers have been awarded the best teacher award.

The Department conducts at least one CME/ Workshop a year and all faculty are resource persons for the Hands on workshops conducted by the department. The Department also initiated the Dr. N.C Ananthkrishna memorial Endowment Lecture in 2013 in the honour of Late Professor Dr. N.C.Ananthkrishna who was instrumental in setting up the diagnostic Microbiology facility and was a teacher par excellence. This has been instituted in 2013 wherein a renowned Microbiologist from the State or from our country will be honoured for his/her contribution in the field. The first award was bestowed on Dr. Hemashettar, Retd. Professor and HOD, Department of Microbiology, Chitradurga Medical College for his contribution in the field of Mycology. The department also organized the CME on Mycotic Infections (In-Quest for knowledge) in February 2014.

All faculty also attend at least one CME/ workshop a year conducted by other Medical colleges. Most Faculty present at least one research paper in the State/ National conferences. The department organized State conference of Indian Association of Medical Microbiologists in 2013.

The following are the list of faculty who have attended the Medical Education Workshops 2013

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Dr. Vidyalakshmi	Teacher as a communicator	24 th January 2013	Medical Education Dept. KMC, Mangalore
2	Dr. Dhanashree B.	Teacher as a communicator	24 th January 2013	Medical Education Dept. KMC, Mangalore
3	Dr. Ethel Suman	Lesson Plan preparation	31 st July 2013	Medical Education Dept. KMC, Mangalore
4	Dr. Suchitra Shenoy M	Lesson Plan preparation	31 st July 2013	Medical Education Dept. KMC, Mangalore
5	Dr. Sevitha Bhat	Lesson Plan preparation	31 st July 2013	Medical Education Dept. KMC, Mangalore

6	Dr. Vidyalaxmi	How Conduct Journal Club	25 th Sep 2013	Medical Education Dept. KMC, Mangalore
7	Dr. Shrikala Baliga	How Conduct Journal Club	25 th Sep 2013	Medical Education Dept. KMC, Mangalore
8	Dr. Saldanha Dominic R.M.	Basic Workshop on “Medical Education Technologies”	19-24 Sep 2013	Medical Education Dept. KMC, Mangalore
9	Dr. Suchitra Shenoy M	Basic Workshop on “Medical Education Technologies”	19-24 Sep 2013	Medical Education Dept. KMC, Mangalore
10	Dr. Dhanashree B.	Basic Workshop on “Medical Education Technologies”	19-24 Sep 2013	Medical Education Dept. KMC, Mangalore
11	Dr. Shalini Shenoy	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Medical Education Dept. KMC, Mangalore
12	Dr. J. Udayalaxmi	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Medical Education Dept. KMC, Mangalore
13	Dr. Gopalkrishna Bhat K	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Medical Education Dept. KMC, Mangalore
14	Dr Shrikala Baliga	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Medical Education Dept. KMC, Mangalore
15	Dr. Vidyalakshmi	No Power communication workshop	16 th Nov 2013	Medical Education Dept. KMC, Mangalore
16	Dr. Suchitra Shenoy M	No Power communication workshop	16 th Nov 2013	Medical Education Dept. KMC, Mangalore

2014:

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Dr. Vidyalakshmi	Mentoring Medical Students	11 th January 2014	Medical Education Dept. KMC, Mangalore
2	Dr. Ethel Suman	Research in Medical Education	23 rd April 2014	Medical Education Dept. KMC, Mangalore
3	Dr. Shrikala Baliga	Problem Based Learning	8 th May 2014	Medical Education Dept. KMC, Mangalore
4	Dr. Sevitha Bhat	Problem Based Learning	8 th May 2014	Medical Education Dept. KMC, Mangalore
5	Dr. K Vishwas Saralaya	Basic MET Workshop	7 th - 9 TH August 2014	Medical Education Dept. KMC, Mangalore
6	Dr. K Ashwini Hegde	Basic MET Workshop	7 th - 9 TH August 2014	Medical Education Dept. KMC, Mangalore
7	Dr. Radhakrishna	Integrated Teaching What, Why & How	4 th December 2014	Medical Education Dept. KMC, Mangalore
8	Dr. Shrikala Baliga	Integrated Teaching What, Why & How	4 th December 2014	Medical Education Dept. KMC, Mangalore
9	Dr. Suchitra Shenoy M	Integrated Teaching What, Why & How	4 th December 2014	Medical Education Dept. KMC, Mangalore

9. Participation/contribution of teachers to the academic activities including teaching, consultancy and research.

All faculty are actively involved in UG and PG teaching. Faculty is also involved in research. The department assists the faculty and the students of other departments and institutions to carry out research & dissertation projects. The students are encouraged to present the papers generated out of this research work in various professional meetings and publish the same.

The prestigious Dr.TMA Pai Endowment Chair in Hospital Infections has been awarded to a faculty in the department. One research assistant is working under this Chair. Faculty are also included in the Board of Studies and Board of Examinations of other autonomous Colleges and also in the PhD board of other universities.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.

The Department is actively involved in national and international Collaboration. The department of microbiology collaborates with other departments like Medicine, surgery, Anesthesiology, otorhinolaryngology to assist PhD scholars, postgraduates and undergraduates to complete their research. Postgraduate and Undergraduate students from Manipal College of Dental Sciences also carry out their research in the department. The department has also collaborated with other colleges of Rajiv Gandhi University of Health Sciences and Mangalore University.

At the National level:

1. The Department has collaborated with the National AIDS Control Society(NACO) since 2008 and successfully manages the State Reference Laboratory. It conducts induction training, Refresher Training and EQAS (External Quality Assurance Scheme) workshops for the technicians at ICTC at the grassroot levels for HIV Testing. Faculty from the department is appointed by NACO to assess the quality of HIV testing in State Reference laboratories and National Reference laboratories for HIV Testing.
2. The DOTS Microscopy center of the Revised National Tuberculosis Programme functions in the department.

At the International Level:

1. Research Project titled Fluorescence In situ Hybridisation for diagnosis of Tuberculosis in Collaboration with I Genex since 2010, USA. This new method is being standardized for rapid diagnosis of TB.

The department is committed to conduct continuing medical educational education programs and workshops wherein students from other departments/ medical colleges throughout the country participate. The faculties from the department deliver guest lectures in continuing medical education programs/workshops/professional conferences organized by other departments/institutions anywhere in the country. The faculties regularly present research papers in various national/international conferences held throughout the world. They also train themselves in various aspects in the workshops held similarly

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

The major thrust areas of research include Drug resistant Bacteria: Its epidemiology, risk factors and Gene detection. The organisms in focus include Salmonella Typhi,

Burkholderia pseudomallei, *Staphylococcus aureus* (Hospital and Community Acquired), *Mycobacterium tuberculosis*, *Gardernella vaginalis*, *Enterococci*, and *Acinetobacter spp.* The Faculty also has research interests in hospital acquired infections, HIV and other infectious diseases. Most of the research is published in indexed journals and presented at various State, National and International conferences.

A snapshot of our research activities and publication activities in given in the tables below:

Ongoing:

Category	Number
Funded research projects	23
Non-funded research projects	13
PhD research projects	02
PG research projects	11
UG research projects	09

Last 3 years:

		2012	2013	2014
Completed funded research projects		1	14	14
Completed non-funded research projects		3	16	09
Completed PhD research projects		Nil	Nil	01
Completed PG research projects		14	15	02
Completed UG research projects		08	08	09
Publications	International	2	06	09
	National	11	16	12
Books		Nil	Nil	Nil
Chapters in books		Nil	01	01
Conference presentations	International	Nil	03	02
	National	5	02	13

ONGOING FUNDED RESEARCH PROJECTS BY FACULTY:

Sl. #	Name of the Project	Principal Investigator	Funding Agencies	Grant received on (Month & year)	Total Grants Received (In Rs.)
1.	Invasive infections with Group A streptococcus with special emphasis on detection of Spe A, spe B and spe C genes	Dr. Shrikala Baliga	MAHE	Jan 2010	25,000
2.	Evaluation of PCR for Diagnosis of Melioidosis from Clinical Specimens and RAPD Analysis of Clinical Isolates of <i>Burkholderia pseudomallei</i> .	K. Vidyalakshmi	MAHE	Jan 2010	25,000
3.	Random amplification of polymorphic DNA for the evaluation of hospital water system as a source of nosocomial infections caused by <i>Pseudomonas aeruginosa</i> .	Dr. Ethel Suman	MAHE	Jan 2010	25,000
4.	Characterization of drug resistance patterns among gram negative bacteria causing Bacteremia	Dr. Suchitra Shenoy	MAHE	March 2014	25,000
5.	“Developing and validating PCR assay on Bigtec’s handheld PCR for use in screening/clinical diagnosis”	Dr. Shrikala Baliga Dr. Sevitha Bhat	Big Tec Pvt Ltd	October 2014	10,00,000/-
6.	“ReaSLR-CSM for concentrated sputum smear microscopy and for culture on Lowenstein – Jensen Medium in diagnosis of Tuberculosis”	Dr. Suchitra Shenoy Dr. Shrikala Baliga	ReaMatrix Pvt Ltd	October 2014	4,10,400/-

ICMR-STS RESEARCH PROJECTS (UG) -2014:

Sl. #	Name of the Student	Name of the Guide	Title
1.	Miss Krishnapriya,	Dr.Suchitra Shenoy	"Identification and antimicrobial susceptibility pattern of streptococcus spp isolated from skin and soft tissue infections"
2.	Miss Avinika Agarwal	Dr. Sevitha Bhat	"Clinicomicrobiological study of neonatal sepsis "
3.	Sheethal Mathai	Dr.Ashwini egde	"Bacterial Contamination of white coat worn by medical students and Interns"
4.	Ms. Lipakshi Lakhiani	Dr.Vishwas Saralaya	Candidemia – Etiology, antifungal susceptibility and predisposition
5.	Ms. Kashvi Gupta	Dr.Shrikala Baliga	“Characteristics and antibiotic sensitivity testing of Klebsiella isolates”

MANIPAL UNIVERSITY SHORT TERM STUDENT RESEARCH PROJECTS-2014:

Sl. #	Name of the Student	Name of the Guide	Title
1.	Miss Vishaka Kashyap	Dr. Dhanashree B	“Antimicrobial effects of cows urine on clinical isolates of gram positive and gram negative bacteria"
2.	Miss Samskruthi S Reddy	Dr. Gopalkrishna Bhat	Isolation and identification of pathogenic bacteria from different environmental sources in a tertiary care hospital in mangalore.
3.	Mr Keshava Pavan K	Dr. Shrikara Mallya P	Antibacterial activity of Garlic and Ginger on Multidrug Resistant bacteria
4.	Miss Harsimran Kaur	Dr. J Udayalaxmi	Comparison of the Normal Resident Flora on the Face of Medical Students who use and who do not use cosmetics

INTER-DEPARTMENTAL RESEARCH PROJECTS-2014:

Sl. #	Name of the Student	Title	Faculty
1.	Dr. Nanditha Shenoy	A study on antimicrobial efficacy of herbal products	Dr. Suchitra Shenoy
2.	Dr. Ravikiran Ongole	Study on access the microbial contamination of toothbrushes of dental health care providers.	Dr. Sevitha Bhat
3.	Ms. Ayushi Bajora	Comparative evaluation of methods of reducing bacterial counts in dental unit water lines in Coastal Karnataka	Dr. Ashwini Hegde
4.	Dr. Ashwin Jayaraman	Study on based on the effect of education on hand hygiene in clinical undergraduates students in the department of Conservative Dentistry & Endodontics at MCOODS, Mangalore	Dr. Shrikala Baliga
5.	Dr. Jyotsna Malhotra	Caries risk profiles of rural and urban 12 year old school children in Mangalore using the cariogram	Dr. Suchitra Shenoy
6.	Ms. Gayathri S	To isolate and compare oral candidal carriage and morphodifferentiation in saliva and periodontal pockets among smokers and non-smokers with or without Periodontics – a cross sectional study	Dr. Shrikala Baliga
7.	Dr. Faraz Ahmed	Evaluation of lactic acid production by plaque after exposure to probiotic strains	Dr. Vishwas Saralaya
8.	Ms. Jyotsna Arun	Assessment of S. mutans under the influence of Cigarette Extract	Dr. Ethel Suman
9.	Ms. Mahashwetha Nag	Oropharyngeal candidiasis relative frequency in radiotherapy patient for head and neck cancer.	Dr. Pooja Rao

PhD Research Projects -2014:

Sl.no.	Name	Duration	Topic	Guide
1..	Ms. Veni Emilda J K	Nov 2012-2015	Bacteriological, Clinical and molecular properties of community acquired Methicillin Resistant to <i>Staphylococcus aureus</i> .	Dr. Gopal Krishna Bhat
2.	Ms Jyothi Kumari	Oct 2013-2016	Virulence, antibiotic resistance and molecular profile of hospital acquired methicillin resistant <i>Staphylococcus aureus</i>	Dr. Gopal Krishna Bhat

Research Assisatant Projects - 2014:

Sl.#	Name	Duration	Topic	Fund
1.	Mr. Sohan Bangera	July 2013-December 2014	Dr. T.M.A. Pai Endowment Chair in Hospital infections-Ventilator Associated Pneumonia. (Guide: Dr. Gopalkrishna Bhat)	Rs. 15,00,000/-

FUNDED RESEARCH PROJECTS BY FACULTY-2013:

Sl. #	Name of the Project	Principal Investigator	Funding Agencies	Grand received on (Month & year)	Total Grants Received (In Rs.)
1.	Invasive infections with Group A streptococcus with special emphasis on detection of Spe A, spe B and spe C genes	Dr. Shrikala Baliga	MAHE	Jan 2010	25,000
2.	Evaluation of PCR for Diagnosis of Melioidosis from Clinical Specimens and RAPD Analysis of Clinical Isolates of <i>Burkholderia pseudomallei</i> .	K. Vidyalakshmi	MAHE	Jan 2010	25,000

3.	Random amplification of polymorphic DNA for the evaluation of hospital water system as a source of nosocomial infections caused by <i>Pseudomonas aeruginosa</i> .	Dr. Ethel Suman	MAHE	Jan 2010	25,000
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ICMR-STs RESEARCH PROJECTS (UG) -2013:

Sl. #	Name of the Student	Name of the Guide	Title
1.	Mr. Siddharth Kackar	Dr. Ethel Suman	Bacterial and Fungal biofilm formation on contact lenses and their susceptibility to lens care solutions
2.	Mr. Shreyas K	Dr. Radhakrishna M	Nasal Colonisation of MRSA in Internees KMC, Mangalore
3.	Ms. Sneha Sathya	Dr. J Udayalaxmi	Microbiological evaluation of UHT treated milk close to expiry date and routine home practices for preservation of milk

MANIPAL UNIVERSITY GRANT RESEARCH PROJECTS-UG-2013:

Sl. #	Name of the Student	Name of the Guide	Title
1.	Ms. Spoorthi Kamath	Dr. Suchitra Shenoy	Comparison of ESBL detection in <i>E. coli</i> by phenotypic method, automated Vitek and genotypic method
2.	Ms. Chethana B	Dr. Shalini Shenoy	ESBL detection in clinical <i>E.coli</i> isolates by phenotypic method
3.	Ms. Tanvi Rao	Dr.Dhanashree	Detection of procalcitonin and CRP in PUO
4.	Ms.Kashvi Gupta	Dr. Shrikala Baliga	An audit of antibiotic prescription pattern in the intensive care unit

5.	Ms.Arushi Kaushik	Dr. Shrikala Baliga	Comparison of Knowledge, attitude and practices towards hand hygiene among health care workers in Government and Private hospitals before and after an educative intervention.
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FUNDED RESEARCH PROJECT BY PGs-2013:

Sl. #	Name of the Project	Principal Investigator	Funding Agencies	Total Grants Received (In Rs.)
1.	"A Prospective study of Haemodialysis vascular access related aerobic bacterial infections"	Dr. Shefali Gupta Guide; Dr.Shrikara Mallya P	ICMR PG Grant	25,000
2.	Antibiotic Resistance of Escherichia coli from community Acquired UTI	Dr. Aneeta Mary Jacob Guide: Dr Shalini Shenoy	Manipal University funded PG Research Grant	10,000
3.	Microbial Colonisation in Neonatal GUT with Special reference to Aerobic microorganisms and <i>Candida spp</i> s	Dr. Raksha Guide: Dr Shrikala Baliga	Manipal University funded PG Research Grant	10,000
4.	Characterization of Enterococcal Infections and Antibiotics Susceptibility Among Inpatients in a	Dr. Liz Mary Paul	Manipal University funded PG	10,000

	Teaching Hospital	Guide: Dr. Shrikala Baliga	Research Grant	
5.	Prevalence of Faecal Carriage of Salmonella spp and their antimicrobial susceptibility pattern among asymptomatic food handlers	Dr. Meghana C Guide: Dr. Vidyalakshmi K	Manipal University funded PG Research Grant	10,000
6.	Clinicomicrobiological study of <i>Pseudomonas aeruginosa</i> in wound infection and detection of Metallo beta lactamase production	Dr. Divya Bangera Guide: Dr Dominic Saldanha	Manipal University funded PG Research Grant	10,000

INTER-DEPARTMENTAL RESEARCH PROJECTS-2013

Sl. No	Name of the Students	Title	Faculty
1.	Miss.Vinay Mavani	Project on A Cross sectional study to assess the unit	Dr. Ethel Suman.
2.	Dr.Girish P	“Comparative evaluation of setting time, flow and sealing of sealers with and without addition of triple antibiotic powder at a concentration exhibiting maximum antibacterial efficacy- An in vitro study.”-	Dr. Gopalkrishna Bhat K
3.	Dr.Chougule Amrutha Ramgonda	Comparative Evaluation of Antimicrobial Efficacy of Calcium Hydroxide, Carnosic Acid & Omeprazole as intracanal Medicaments Against Enterococcus Fecalis-An Invitro Study	Dr. Vishwas Saralaya

4.	Dr.Sangeetha P	“ Anti microbial substantivity over time of Chlorhexidine alone and in combination with Cetrinide and Chitosan-an invitro study “	Dr. Suchitra Shenoy
5.	Dr.Sameen Shafik Dalwai	“Comparative evaluation of antidungal action of tea tree oil chlorhexidine gluconate and fluconazole on heat polymerized axrylic denture base resin.An invitro study	Dr. Shrikala Baliga
6.	Dr.Ritika Jindal	“To assess correlation between xerostomia, hyposalivation and oral microbial load with glycemic control in type 2 diabetic patients”.	Dr. J Udayalaxmi
7.	Dr.Nachiket Shah	“To evaluate the Anti-Microbial activity of various Alcoholic preparations of AloeVera against Enterococcus Faecalis and its Biofilm in the Root Canal of Extracted Teeth by SEM”	Dr. Vishwas Saralaya.

M.Sc. RESEARCH PROJECTS-2013

Sl.No.	NAME	YEAR	TOPIC	GUIDE
1..	Ms. Sowmya K N Ms. Dhanya A	April 2013	Detection of Virulence gene (hly and i ut A) genes from E. Coli isolated from blood.	Dr. Vishwas Saralaya
2.	Ms. Smitha K Nambiar	April 2013	Moraxella catarrhalis as A Respiratory pathogen	Dr. Ashwini Hegde
3.	Ms. Anu Chandran Ms. Anwsha Chakraborty	April 2013	Antibacterial effects of citrus fruits	Dr. Gopalkrishna Bhat
4.	Ms. Dinjuraj P C Ms. Reshmi Chandran	April 2013	Identification and characterization of diphtheroids	Dr.Ethel Suman

FUNDED RESEARCH PROJECT BY PGs-2012:

Sl#	Title	Name of the student	Guide
1	A Prospective study of Haemodialysis vascular access related aerobic bacterial infections(<i>ICMR-amount of 25,000</i>)	Dr. Shefali Gupta	Dr. Shrikara Mallya P
2	Antibiotic Resistance of Escherichia coli from community Acquired UTI (<i>Manipal University grant of 10,000</i>)	Dr. Aneeta Mary Jacob	Dr. Shalini Shenoy
3	Microbial Colonisation in Neonatal GUT with Special reference to Aerobic microorganisms and <i>Candida spp</i> s(<i>Manipal University grant of 10,000</i>)	Dr. Raksha	Dr. Shrikala Baliga
4	Characterization of Enterococcal Infections and Antibiotics Susceptibility Among Inpatients in a Teaching Hospital. (<i>Manipal University grant of 10,000</i>)	Dr. Liz Mary Paul	Dr. Shrikala Baliga
4	Prevalence of Faecal Carriage of Salmonella spp and their antimicrobial susceptibility pattern among asymptomatic food handlers. (<i>Manipal University grant of 10,000</i>)	Dr. Meghana C	Dr. K Vidyalakshmi
5	Clinicomicrobiological study of <i>Pseudomonas aeruginosa</i> in wound infection and detection of Metallo beta lactamase production (<i>Manipal University grant of 10,000</i>)	Dr. Divya Bangera	Dr. Dominic Saldanha

M.Sc. RESEARCH PROJECTS-2012:**Non-funded research projects-2012:**

Sl#	Title	Faculty involved
1	Comparison of knowledge, attitude and practices towards hand hygiene among health care workers in government and private hospitals before and after an educative intervention	Dr. Shrikala Baliga
2	Comparative evaluation of antifungal action of tea tree oil, chlorhexidine gluconate and fluconazole on heat polymerized acrylic denture base resin. An in vitro study.	Dr. Shrikala Baliga
3	To assess correlation between xerostomia, hyposalivation and oral microbial load with glycemic control in type 2 diabetic patients	Dr. Udaya
4	To evaluate the antimicrobial activity of various alcoholic preparations of Aloe vera against <i>Enterococcus faecalis</i> and its biofilm in the root canal of extracted teeth by SEM	Dr. Vishwas Saralaya
5	Microbial colonization of lumbar epidural catheter tips in post operative patients	Dr. Shrikala Baliga
6	Anti CCP antibodies in Rheumatoid arthritis	Dr. Shrikala Baliga
7	Comparative evaluation of setting time, flow and sealing of sealers with and without addition of triple antibiotic powder at a concentration exhibiting maximum antibacterial efficacy- An in	Dr. Gopal Krishna Bhat

	vitro study	
8	Evaluation of growth of biofilm around Gutta-percha points coated with scales incubated in <i>Enterococcus faecalis</i> -In vitro study	Dr. Suchitra Shenoy
9	Comparative evaluation of the efficacy of chemomechanical preparation using centrimide as intracanal irrigant, in combination with maleric acid and chlorhexidine in elimination of <i>Enterococcus faecalis</i> biofilm	Dr. Vishwas Saralaya
10	Antibiotic Sensitivity profile and ESBL detection in <i>E.coli</i> from clinical isolates	Dr. Shalini Shenoy
11	Comparison of bacterial flora of lower airways just after and after one week of tracheostomy	Dr. Shrikala Baliga
12	Evaluation of amount of apically extruded debris, irrigant solution and protaper rotary technique	Dr. Ethel Suman
13	Presence of HPV in potentially malignant and malignant lesions of the oral cavity and a study of associated risk factors	Dr. Suchitra Shenoy
14	Study of Factors Associated with pathological Aerobic Microbial Colonisation of Neonatal Gastro Intestinal System. A Hospital Based case Control study	Dr. Shrikala Baliga
15	Antimicrobial effect of coconut palm petiole	Dr.Gopalkrishna Bhat
16	Antimicrobial activity of three different irrigants used in endodontic treatment against <i>Enterococcus faecalis</i> (Inter-University Project)	Dr. Shrikala Baliga

ICMR-STs RESEARCH PROJECTS-2012:

Sl. #	Name of the Student	Name of the Guide	Title
1.	Ms. Aishwarya Taneja	Dr. Radhakrishna M	Nasal carriage of <i>Staphylococcus aureus</i> among medical students of Kasturba Medical College, Mangalore – prevalence and antibiogram pattern
2.	Ms Neetha Shenoy	Dr. J.Udayalaxmi	Biofilm production, phospholipase and hemolytic activity in the different species of candida isolated from caries lesions of children
3.	Ms. Upasana Mohanty	Dr. Gopalkrishna Bhat	“Bacteriological study of pyoderma with special reference to methicillin resistant <i>Staphylococcus aureus</i> in patients infected with human immunodeficiency virus”

4.	Ms. Vadanya Shrivatsava	Dr. Shrikala Baliga	Study of Drug resistance in Enterococcus spp.
5.	Ms. Shivani Gupta	Dr. Dominic Saldanha	Seroprevalence of Toxoplasma, Rubella virus, Cytomegalo virus & Herpes simplex virus 2 in pregnant women and their fetal outcome-a retrospective study.
6.	Mr. Shrikanth	Dr. Ashwini Hegde	Study of bacteriological contamination of stethoscopes used by interns/post-graduates of three teaching hospitals in Mangalore.
7.	Ms. Suchetha Kaul	K. Vishwas Saralaya	“Candidiasis in the immunocompromised: Determination of etiology and drug susceptibility patterns”

MANIPAL UNIVERSITY FUNDED RESEARCH PROJECT-2012:

SI #	Title	Name of the student	Guide
1	Baseline Widal titres in Mangalore (<i>Manipal University grant</i>)	Ms. Shruthi	Dr. Ethel Suman

PhD Research Project -2012:

SI#	Title	Name of the research scholar	Guide
1	Bacteriological, clinical and molecular properties of community acquired methicillin resistant to <i>Staphylococcus aureus</i>	Ms. Veni Emilda J K	Dr. Gopalkrishna Bhat
2	Clinical, Bacteriological and Molecular properties of nosocomial <i>Pseudomonas aeruginosa</i>	Ms. Prajoyita Samanta	Dr. Gopalkrishna Bhat
3	Clinico Microbiological study of extraintestinal pathogenic E.coli from patients admitted in Kasturba Medical College Hospital at Mangalore	Mr. Arindam Chakraborty	Co-Guide: Dr. Shalini Shenoy

Our Completed Faculty Funded Research Project:

Year 2012

Sl#	Title	Principal Investigator	Funding Agency	Amount received
1.	Detection of diarrhoeagenic <i>Escherichia coli</i> by multiplex PCR	Dr Ashwini Hegde	ICMR Adhoc	Rs. 5,00,000

Our completed non-funded projects are:

Year 2012

Sl#	Title	Faculty Involved
1	Effect of Chlorhexidine and fluoride varnish on biofilm formation and adherence of <i>Streptococcus mutans</i>	Dr.Ethel Suman
2	Efficacy and safety of muco adhesive patches of fluconazole in the treatment of human immunodeficiency virus related oral candidiasis	Dr. Shrikala Baliga
3	Invitro Evaluation of sealing ability and Antimicrobial activity of Hydraulic Temporary Sealing Materials	Dr. .Ethel Suman

M.Sc Research Projects 2012:

Sl #	Title	Name of the student	Guide
1	Bacteriological analysis of Well Water in Mangalore	Ms.Shiny M.D'Souza and Ms.Sudha J.	Dr.Gopalkrishna Bhat K.
2	Nasal carriage status of <i>Staphylococcus aureus</i> amongst the people working in diagnostic microbiology laboratory K.M.C.	Ms. Mangala and Ms.Rahiyana	Dr.Radhakrishna M
3	Effect of Chlorhexidine & fluoride Varnish on Biofilm formation & adherence of <i>Streptococcus mutans</i> .	Ms. Uparna Umesh and Mr. Jithendra Chandra Devrari	Dr.EthelSuman
4	Detection of Drug resistance in <i>Enterococcus</i> species	Ms. Shruthi Bhat K.S and Ms. Nanditha R. Bhat	Dr.Dhanashree B.
5	To evaluate and compare the efficacy of chemomechanical preparation using antrimide as intracanalirrigant, in combination with maleic acid Ep.chlorexidine in eliminating <i>E.faecalis</i> biofilm.	Ms. Maya Jose and Ms. Harshitha J. Naik	Dr.K.Vishwas Saralaya
6	Carbapenem resistance in clinically significant non-fermenting gram negative bacilli	Ms. Zenith Euphemia ans Ms. Renu Sharma	Dr.Sevitha Bhat

7	Prevalence ,species distribution, virulence factor and Antibiotic sensitivity pattern of Citrobacter species	Mr. Chandraprakas h Acharya and Ms. Lizbeth Maria Thomas	Dr. K. Ashwini Hegde
8	Detection of phospholipase activity in various species of Candida isolated from Genito urinary tract	Ms. Diny G. D'Souza and Ms. Shani Jacob	Dr.J. Udayalaxmi
9	Biofilm , Phospholipase and Haemolytic Activities in various species of candida isolated from Hospital Acquired Infections	Miss.Roshni R.Rao Miss.Chaithra K..	Dr. J.Udayalaxmi
10	Susceptibility of clinical isolates of <i>E.coli</i> , Klebsiella species, staphylococcus aureus and Pseudomonas species to 3 commonly used disinfectants	Mr.Sidhartha Banerjee Miss.Roicy Sequeira	Dr.Gopalkrishna Bhat K.
11	Detection of Metallo-Beta-lactamase producing Gram negative bacteria	Miss.Shobha Giri Mr.Sourav Das	Dr. Radhakrishna M.
12	Isolation of bacteriophage from sewage water	Miss.Rashmi Miss.Melba Thomas	Dr.Ethel Suman
13	Detection o opportunistic pathogen from stool sample	Dr.Abhishek Jaysawal Miss.Roli Solanki Miss.Ramya Nidhi Kaiya	Dr.Dhanashree B.

The details of our publications are described below.

PAPERS PUBLISHED IN NATIONAL JOURNALS-2012:

Sl #	Name of the Author(s)	Title of the Article	Type of the article	Name of the Journal	Indexed/Non-indexed	Whether SCI indexed Yes/No Impact factor of the journal
1.	Sumit Kumar, Shrikara Mallya, Shalini Shenoy M	Trichophyton rubrum:The Commonest Isolate from Dermatophytosis	Original	Research Journal of Pharmaceutical, Biological and Chemical Sciences 2012;3 (1): 101	Indexed	Yes
2.	Dhanashree B, Shrikara Mallya P	Molecular typing of enteropathogenic Escherichia coli from diarrheagenic stool samples	Original	Journal of Clinical & Diagnostic Research. 2012 (Suppl-1), Vol-6(3):400-404	Indexed	Impact Factor 0.12
3.	Chetan Mandelia, Shalini Shenoy & Yamini Garg	Antibiotic sensitivity pattern of Community associated Methicillin Resistant Staphylococcus aureus.	Original	Revista da Sociedade Brasileira de Medicina Tropical 45(3):418,may-june,2012	Indexed	Impact Factor 0.68
4.	Arindam Chakraborty, Prabha Adhikari, Shalini Shenoy, Shrikala Baliga, Satish Rao, Dhanashree B	Extra-intestinal β -lactamase Producing Escherichia coli Infection-an Emerging Infection in a South Indian Tertiary Care	Original	Journal of clinical and diagnostic research 2012;6(7): 1210-1214.	Indexed	Impact Factor 0.12

		Hospital				
5.	Shenoy Suchitra M., Prabhu Laxman G.G., Baliga Shrikala, Bhat AshokM	A Renal Bezoar of Epicoccum nigrum: An Unusual Clinical Curiosity.	Original	Journal of Clinical & Diagnostic Research 2012; Vol-6(5): 905-907	Indexed	Impact Factor 0.12
6.	Mridula Laxman Bengre, M.Venkatraya Prabhu, Arun S, Krishna Prasad, Gopalkrishna Bhat k	Evaluation of the Multinational Association for Supportive Care in Cancer (MASCC) Score for Identifying Low Risk Febrile Neutropenic Patients at a South Indian Tertiary Care Centre.	Original	Journal of Clinical & Diagnostic Research 2012-6(5):839-843	Indexed	Impact Factor 0.12
7.	Udayalaxmi, G.K Bhat, Subbannayya Kotigadde, Beena Antony, Shashidhar Kotian	Prevalence of Bacterial Vaginosis in Mangalore	Original	Biomedicine: 2012;32(2):236-241	Indexed	Yes
8.	J. Udayalaxmi, Gopalkrishna Bhat, Subbannayya Kotigadde, Shashidhar Kotian	Effect of pH on the adherence surface hydrophobicity and the biofilm formation of Gardnerella vaginalis isolated from cases of bacterial vaginosis.	Original	Journal of Clinical & Diagnostic Research 2012; 6(6): 967-69	Indexed	Impact Factor 0.12

9.	Dr. Ashwini Hegde K, Dr. Mamatha Ballal, Dr. Shalini Shenoy	Detection of diarrheagenic Escherichia coli by multiple PCR	Original	Indian Journal of Medical Microbiology. Vol.:30(3). Month & Year: July 2012, 279 - 284	Indexed	Impact Factor 1.06
10	Sevitha Bhat , Nilica Devi, Shalini Shenoy	Microbiological profile of vaginal swabs	Original	Journal of Evolution of Medical and Dental Sciences. October - 2012 ;1(4):509-13.	Indexed	Yes

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS-2012:

Sl. #	Name of the Author(s)	Title of the Article	Type of the article	Name of the Journal,	Indexed/Non-indexed	Whether SCI indexed Yes/No
1.	Dominic RMS, Prashanth HV, Shenoy S, Baliga S	A clinico-microbiological study of ventilator-associated pneumonia in a tertiary care hospital	Original	International Journal of Biological and Medical Research 2012; 3(2): 1651-1654.	Indexed	Yes
2.	Vidyalakshmi K, Lipika S, Vishal S, Damodar S, Chakrapani M.	Emerging clinico-epidemiological trends in melioidosis: analysis of 95 cases from western coastal India.	Original	Int. J Infect Dis. 2012 Jul;16 (7):e491-7.	Indexed	2.173

For the year 2013:

PAPERS PUBLISHED IN NATIONAL JOURNALS-2013:

Sl #	Name of the Author(s)	Title of the Article	Type of the article	Name of the Journal,	Indexed/ Non-indexed
1.	Dr. Suchitra Shenoy M, Ms. Smitha Singh, Ms. Diana Paul, Dr. Shrikala Baliga	A Prospective Cohort Study of Cryptococcal Meningitis in HIV Patients in a Tertiary Care Hospital	Original	Indian Journal of Applied Research (2013, Volume:3, Issue:8)	Indexed
2.	Kavitha P Konikkara, Shrikala Baliga, Suchitra M Shenoy, B Bharati,	Comparison of various culture methods for isolation of Group B Streptococcus from intrapartum vaginal colonization	Original	Journal of Laboratory Physicians (2013, Vol: 5, Issue:1, Page:42-45)	Indexed
3.	Yashasvi Chugh, Shrikala Baliga	Semmelweis's Forgotten Gift: Has Handwashing Lost Its Importance?	Original	Journal Of Clinical & Diagnostic Research (2013, Vol:7, Issue:3, Page:434-436)	Indexed
4.	Deepthi Kalahasti • Veena Hegde • Kranti Kosaraju • Srikala Baliga • N. Kulasekhar Reddy • BK Sujatha	Evaluation of Efficacy of Microwave Irradiation in Disinfecting Dental Gypsum Casts: An Ex Vivo Study	Original	The Journal of Indian Prosthodontic Society (ISSN 0972-4052, DOI 10.1007/s13191-013-0337-8)	Indexed
5.	Arindam Chakraborty, Prabha Adhikari, Shalini Shenoy, Shrikala Baliga, Satish Rao, Dhanashree Biranthabail, Vishwas	Expression of ESBL, MBL and AmpC β lactamases by extra intestinal Escherichia coli isolates: correlation with treatment and	Original	Journal of Microbiology and Infectious Diseases (2013; 3 (4):	Indexed

	Saralaya	clinical outcome		150-156)	
6.	V. Sumangala, N. Chidananda, T. Arulmoli, Shalini Shenoy	Synthesis and biological evaluation of some Schiff bases of 4 – amino – 5 – (4 – methylsulfonyl) benzyl – 2, 4 – dihydro – 3H[1,2,4] – triazole – 3 – thione	Original	Medicinal Chemistry Research (2013 Volume 22, Issue 6, pp 2921 – 2928.)	Indexed
7.	Nitish Kumar Sharma, Raina Garg, Shrikala Baliga, Gopalkrishna Bhat k	Nosocomial Infections and Drug Susceptibility Patterns in Methicillin Sensitive and Methicillin Resistant <i>Staphylococcus aureus</i>	Original	Journal of Clinical and Diagnostic Research, 2013 ; 7: 2178 - 2180	Indexed in PubMed
8.	Shenoy Suchitra M, Mohit, Richa Sinha	Antibiotic susceptibility pattern of clinical isolates of Proteus species with special reference to ESBL and Amp C production	Original	IJAR 2013; Vol-3(3): 293 -294	Indexed
9.	Suchitra Shenoy M, Manjunath Shenoy M	Midborderline Leprosy	Original	Indian dermatology online Journal 2013; Vol-4(2): 162	Indexed in PubMed
10.	Abdul Rahaman Shariff V A, Suchitra Shenoy M, Taruna Yadav , Radhakrishna M	The antibiotic sensitivity patterns of Uropathogenic Escherichia coli, with special reference to the Fluoroquinolones.	Original	JCDR 2013; Vol-7(6): 1027-1030	Indexed in PubMed
11.	Radhakrishna M, D'Souza M, Kotigadde S, Saralaya K V, Kotian M S.	Prevalence of methicillin resistant Staphylococcus aureus carriage amongst healthcare workers of the critical care units in Kasturba Medical College Hospital,	Original	India, Journal of Clinical and Diagnostic Research.2013 Dec Vol-7(12): 2697-	Indexed

		Mangalore.		2700	
1 2.	Ethel Suman, Benji Varghese, Neethu Joseph, Kumari Nisha, M Shashidhar Kotian	The Bacterial Biofilms in Dialysis water systems and the effect of the sub inhibitory concentrations of chlorine on them.	Original Article	Journal of Clinical Diagnostic Research 2013 May vol-7(5); 849-852	
1 3.	Sanal C. F., Dhanashree B	Drug resistance & virulence determinants in clinical isolates of <i>Enterococcus</i> species		<i>Indian J Med Res</i> 137: 981- 985.	
1 4.	Nandita KP, Karen Boaz, Ethel Suman, Ashwini Hegde, Mahesh CP	Comparison of Polymorphonuclear Leukocyte Functions in oral Carcinoma Patients and Healthy Controls	Original 1	Research Journal of Pharmaceutical , Biological and Chemical Sciences 2013;4:1857- 864	Indexed
1 5.	Sevitha Bhat , Nirma S. Amin, Nilica Devi Sh	Evaluation of Semiquantitative Culture method in the diagnosis of Central venous intravascular catheter related infections.	Original 1	<i>J Pharm BiomedSci</i> 2013.April; 29	Indexed
1 6.	Sevitha Bhat, Renu Sharma, Zenith Euphemia	"Carbapenem resistance in clinically significant non fermenting gram negative bacilli".	Original 1	Journal of Evolution of Medical and Dental Sciences 2013; Vol. 2, Issue 47, November 25, 2013; Page: 9131-9134	Indexed- in IndexCop ernicus, CIRS, Google
1 7.	Yashasvi Chugh, Dr. Shrikala Baliga	How clean are the hands of medical students	Corresp ondenc e	The National Medical journal of India (2013, Vol.26, No.3 Page:183-184)	Indexed

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS-2013:

Sl. #	Name of the Author(s)	Title of the Article	Type of the article	Name of the Journal,	Indexed/Non-indexed	Whether SCI indexed Yes/
1.	Shalini Shenoy, Arindam Chakravorty, Prabha Adikari	Biofilm Formation in extra intestinal Pathogenic E.Coli strain-relationship with anti microbial resistance and patients clinical outcome.	Original	International journal of pharma and biosciences (2013 OCT:4(4): (B)364-369)	Indexed	
2.	Vinayak B, Prassanna U, Akshatha S, Moumitha M, Reshma K, Ramya S, Shalini.S, Sourabh Shetty	Leukocyte myeloperoxidase activity and serum CRP levels are predictive markers of inflammatory disorders amongst passive smokers	Original	International Journal of Biomedical and advance research - 2013 04(07)	Indexed	
3.	.Pavan Chand, Arvind N, Vishrutha K V, Vidyalakshmi K, Shalini Shenoy	Surveillance of Gp A streptococcal throat infections among school children in Mangalore.	Original	International Journal of Biological and Medical Research. August 2013. Vol 4(4). 3585-3589	Indexed	
4.	Divya Jain, Lakshmi Jayaram, M Venkataraya Prabhu, GopalKrishna Bhat K,	Antibacterial Effect of neem (Azadirachta Indica) oil on multidrug resistant bacteria isolated from human infections	Original	Int J Biol Med Res 2013 vol-4(4):3544-3546	Indexed	

5.	Dhanya V.C., Anitha J., Dhanashree B	Bacteriological screening of water in Mangalore, India.	Original	<i>British Microbiology Research Journal</i> 2013; 3: 84-95		
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For the year 2014:

PAPERS PUBLISHED IN NATIONAL JOURNALS-2014

Sl. #	Name of the Author(s)	Title of the Article	Type of the article	Name of the Journal,	Indexed/ Non-indexed (Indexing Details if indexed)	Whether SCI indexed Yes/No
1.	Kavitha Paul Konikkara, Shrikala Baliga, Suchitra Shenoy, Bharati B;	Evaluation of Culture, Antigen Detection and Polymerase Chain Reaction For Detection of Vaginal Colonization of Group B Streptococcus in Pregnant Women	Original Paper	Journal Of Clinical and Diagnostic Research, 2014 February, Vol-8(2):47-49	Indexed	0.14
2.	Suchitra M Shenoy, Suresh Shenoy, Sandeep Gopal, BV Tantry, Shrikala Baliga, Animesh Jain	Clinicomicrobiological analysis of patients with cholangitis	Original Paper	IJMM 2014; Vol 32(2): 157-160	Indexed In Medknow, wolterskluwer	1.04

3.	Khyaati Gidwani, Prashanthi Sampath Madhyastha, Khyaati Gidwani, N. Srikant , Ethel Suman, Ravindra Kotian	In vitro evaluation of sealing ability and antimicrobial activity of hydraulic temporary sealing materials	Original Paper	Journal of Restorative Dentistry Volume 2 / Issue 1 / Jan-Apr 2014	Indexed in Caspur, Google Scholar, Index Copernicu s, National Science Library,	
4.	Arindam Chakraborty, Prabha Adhikari, Shalini Shenoy, Vishwas Sarulaya	"Characteization of plasmid mediated AmpC producing Escherichia coli clinical isolates from a tertiary care hospital in South India"	Original Paper	Indian Journal of Pathology and Microbiolo gy, Year 2014, Volume 57, Issue 2(p. 255- 258)	Indexed Medknow , woltersku wer	0.64
5.	Shenoy SM, Shenoy MM	Fungal nail disease (Onychomycosis); Challenges and solutions	Original Paper	Archives of Medicine and Health Sciences 2014; Vol 2(1): 48 - 53	Indexed in Google Scholar, National Science Library, OpenJGat e, SCOLOA R, Swet and TdNet	
6.	Sridhar PN Rao, Prasad Subba Rama, Vishwanath Gurushantha	Extended-spectrum Beta-lactamases Producing Escherichia coli and Klebsiella pneumoniae: A	Original Paper	Journal of Laboratory Physicians / Jan-Jun 2014 / Vol-6 /	Indexed in Caspur, PubMed, Pubmed Central, SCOLOA	

	ppa, Radhakrishna Manipura, Krishna Srinivasan	Multi-centric Study Across Karnataka		Issue-1, pp 7-13.	R	
7.	M. Panduranga Kamath, MS, Kiran Bhojwani, Mahabala Chakrapani, Katara P. Vidyalaksh mi K.P. Vishnuprasa d,	Melioidosis of salivary glands with coexisting diabetes: Management of a difficult case	Original Paper	ENT-Ear, Nose & Throat Journal- January 2014, Volume 93, Number 1	Indexed	
8.	Sowmya KN, Sevitha Bhat, Vishwas Saralaya	Spectrum of bacteria isolated from bronchoalveolar lavage in a tertiary care centre.	Original Paper	Journal Of Evolution of Medical and dental Sciences 2014; Vol.3, Issue 28, July 2014, Page: 7950-7954	Indexed in Copernicu s, CIRS, Google	
9.	YP Raghavendra Babu, Flora D Lobo, Shankar M Bakkannavar , Ashwini Hegde, Tanuj Kanchan, Pramod Kumar GN	Sudden death due to thrombi associated with septicemia.	Case report	Journal of South India Medico- Legal Associatio n. Vol. 6. No. 2 Sep 2014. Page:80-83	Indexed in <u>Index</u> <u>Copernicu</u> <u>s</u> , Scopus	

10.	Veni Emilda J K, Shalini Shenoy M, Chakrapani M, Pramod Kumar, Gopalkrishna Bhat	Clinical spectrum and antimicrobial resistance pattern of skin and soft tissue infections caused by community acquired-methicillin resistant Staphylococcus aureus	Letter to editor	Indian journal of Dermatology, Venereology and Leprology, NOV-DEC 2014 Vol:80; Issue:6, Pages:539-540	Indexed In Pubmed, Science citation index	1.325
11.	Udayalaxmi, Shani Jacob, Diney D'Souza	Comparison Between Virulence Factors of Candida albicans and Non-Albicans Species of Candida Isolated from Genitourinary Tract	Original Paper	Journal of Clinical and Diagnostic Research. 2014 Nov, Vol-8(11):	Indexed in Pubmed	0.14
12.	Karunakar reddy CH, Poornachandra Thejaswi DS, Hema Kini, Suchitra shenoy Shivananda Prabhu	Phaeohyphomycotic cyst in the Foot by Exophiala	Case Report	Journal of Clinical and Diagnostic Research. 2014 Nov, Vol-8(11) : ND10-ND11	Indexed in Pubmed	0.14

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS-2014:

Sl. #	Name of the Author(s)	Title of the Article	Type of the article	Name of the Journal,	Indexed /Non-indexed	Whether SCI indexed Yes/ No
1.	Veni Emilda J K, Shrikala Baliga, Shalini Shenoy, Gopalkrishna Bhat K.	Community-Acquired Methicillin Resistant <i>Staphylococcus aureus</i>	Review article	International Journal of Current Research and Review, Vol 06, Issue 09(May 2014)	Indexed Index Copernicus, , Revistas Médicas Portuguesas, EBSCO, DOAJ, BOAI, SOROS, NEWJOURNALS etc	4.016
2.	Arvind N , Pavan Chand, Baliga S, Bharati B , Shenoy Shalini , Saralaya Vishwas	A comprehensive comparison of PCR based assay versus microscopy & culture in the diagnosis of tuberculosis in different clinical specimens	Original Paper	International Journal of Biological and Medical Research 2014; 5(1): 3763-3768	Indexed in Google scholar, DOAJ, Medline plus, Research gate	4.37
3.	Meghna C,Sevitha Bhat, Vidyalakshmi K	Risk Factors And Antibiotic Susceptibility Pattern Among Non-Fermenting Gram Negative Bacilli In A Teaching Hospital	Original paper	Journal of Pharmaceutical and Biomedical sciences. 2014;04(08) 715-718	Indexed In Global Health, CAB abstracts	2.871
4.	Sanchit Paul,	Effect of fluoride	Original	Int J	Indexed	1.54

	Suprabha Baranya Shrikrishna, Ethel Suman, Ramya Shenoy, Arathi Rao	varnish and chlorhexidine–thymol varnish on mutans streptococci levels in human dental plaque: a double-blinded randomized controlled trial.	Paper	Paediatr Dent. 2014 Nov;24(6):399-408. doi: 10.1111/ipd.12085. Epub 2013 Dec 25		
5.	Sumit Agarwal, M Venkatraya Prabhu, Arun S, Veena J Pinto, Gopalkrishna Bhat K, Deepti Mangla	Correlation of microalbuminuria with cardiovascular morbidity in essential hypertension.	Original Paper	International Journal of Clinical Cases and Investigations 2013. Vol. 5(Issue 6), 67:76, July 2014.	Indexed in PubMed, PubMed central	
6.	R. Srikanth Aswin, Dr. Ashwini Hegde	Bacterial Contamination of stethoscopes	Original Paper	International Journal of Scientific Research. Vol 3, Issue 11, Nov 2014, Pg24-26. Impact Factor: 1.8651	Indexed in DJQF, Cite Factor, Google scholar, SCIRUS	1.8651
7.	Solanki, Roli, Ramya Nidhi Kaiya, Abhishek Jaysawal, Dhanashree B., C. Meghna, Vidyalakshmi K	"Study of prevalence of intestinal parasites in food handlers in Mangalore."	Original Paper	International Journal of Current Research and Review, 2014; 6(22): 14-16.	Indexed Index Copernicus, Revistas Médicas Portuguesas, EBSCO, DOAJ,	4.016

					BOAI, SOROS, NEWJO URv etc	
8.	Vijaya, Dominic R M, Saldanha, Shalini Shenoy	Clinico- microbiological study of infections in the intensive care unit and study of antimicrobial resistance in bacterial isolates	Original Paper	Journal of International Medicine and Dentistry 2014; 1 (1): 03-09	Indexed	
9.	Santosh Rai, Deepak Madi, Shivanand Pai, Shrikala Baliga	Unusual Larva in the CSF and Unique MRI Findings in a Case of Eosinophilic Meningitis	Case report	Journal of Clinical Imaging Science, Vol . 4, Issue 4, Oct-Dec 2014	Indexed (Caspur, PubMed , Google scholar, Scopus)	

The details of books/chapters in books are given below: 2013:

Sl. No.	Name of the Book	Name of the Author(s)	Name of the Publisher	If chapter, indexing details
1.	Chapter: NonDermatophytic Onychomycosis. In: Nail and Its Disorders	Shenoy MM, Shenoy Suchitra	Jaypee Brothers Medical Publishers (P) Ltd., New Delhi	First edition, 2013

2014:

Sl. #	Name of the Book	Name of the Author(s)	Name of the Publisher	If chapter, indexing details
1.	Chapter: Antimicrobial Resistance- Past. Present and the Future. Name of the Book: Manipal Research Review	Dr. Gopalkrishna Bhat K	Directorate of Research, Manipal University Manipal INDIA.	Volume 1, Issue 2

NATIONAL/STATE CONFERENCE – PAPER PRESENTATION BY FACULTY-2012:

Sl. #	Name of the faculty	Name of the Conference	Title of the paper/poster Presented with name of the faculty presented	Dates	Place
1.	Dr. Shrikala Baliga Dr. Shalini Shenoy Dr. Gopalkrishna Bhat K Dr. Radhakrishna M Dr. Ethel Suman Dr.J Udayalaxmi	National Conference: Tuberculosis Past, Present & Future.	Dr Shrikala Baliga and Dr. Shalini Shenoy chaired scientific session	10th & 11th Feb 2012	KMC, Manipal
2.	Dr. K Vidyalakshmi	National Conference: Tuberculosis Past, Present & Future	“Tuberculosis and Melioidosis- Double Trouble” Was awarded Best Paper award	10th & 11th Feb 2012	KMC, Manipal
3.	Dr. Ashwini Hegde	XVI Annual Conference of IAMM-KC	Prevalence of diarrheagenic <i>E.coli</i> in Mangalore: Ashwini	18 th & 19 th Feb 2012	St John's Medical College,

		2012	Hegde, Mamatha Ballal, Shalini Shenoy		Bangalore
4.	Dr. Ethel Suman	National Conference on Perspectives of Biotechnology in Health & Industry	Microbiological Techniques in the Laboratory diagnosis of Infectious Diseases	24 th & 25 th Feb 2012	Dept. of Biotechnology at Alva's College
5.	Dr Vidyalakshmi	2nd Annual Conference of Clinical Infectious Diseases Society (CIDSCON 2012)	How Useful is the Nalidixic Acid Screening Test for S.Typhi?" Was Awarded Best Paper Award	24th to 26th August 2012	Chennai
6.	Dr. Gopalkrishna Bhat K	33rd National Conference of Indian Association of Biomedical Scientist	Gave a talk on "Antimicrobial resistance-past, present & future" and Chaired a scientific oral presentation session	1 st to 3 rd Nov 2012	Nitte University, Mangalore

NATIONAL/STATE CONFERENCE – PAPER PRESENTATION BY FACULTY-2013:

Sl. #	Name of the faculty	Name of the Conference	Title of the paper/poster Presented with name of the faculty presented	Dates	Place
1.	Dr. Shrikala Baliga	XVII Annual State Conference of IAMM-	Panel discussion on health care associated infections: Clean, Care, Control.	24-2-2013	KMC, Mangalore

		KC			
2.	Dr. Saldanha Dominic R M	XVII Annual State Confere nce of IAMM- KC	Clinico-microbiological study of infections in the Intensive care unit and study of antimicrobial resistance in bacterial isolates(Vijaya, Saldanha Dominic R.M., Shalini Shenoy)	24-2- 2013	KMC, Mangalore

INTERNATIONAL CONFERENCE - PAPER PRESENTATION BY FACULTY-2013:

Sl. #	Name of the faculty	Name of the Conference	Title of the paper/poster presented, with name of the faculty presented	Dates	Place
1.	Dr. Vishwas Saralaya	UAE International Dental Conference and Arab Dental Exhibition, AEEDC Dubai 2013	Coauthored: Microbial Assessment of dental unit waterlines in an institutional set up- and <i>in vitro</i> study. (Dr.Shobha Rodrigues(MCODS) Ms. Harshitha Naik Ms. Maya Jose)	5 th -7 th Feb 2013	Dubai.
2.	Dr. Gopalkrishna Bhat	“Updates in research ethics & research methodology-2013”	Undergraduate Medical Student Research Activities in a Private Medical College in Karnataka, South India.(Dr. M Venkatraya Prabhu, Dr. Unnikrishnan)	4 th and 5 th March 2013	Sri Ramachandra University, Chennai

3.	Dr. Gopalkrishna Bhat	International Humboldt Kolleg on Bench to Bedside Translational Research Potential Benefits of Interdisciplinary Collaboration	1."Silver Nitrate Kills Multidrug Resistant Pathogenic Bacteria" 2. Chaired a session	15th to 17th November 2013	Kasturba Medical College, Manipal
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NATIONAL/STATE CONFERENCE – PAPER PRESENTATION BY FACULTY-2014:

Sl. #	Name of the faculty	Name of the Conference	Title of the paper/poster Presented with name of the faculty presented	Dates	Place
1.	Dr. Shrikala Baliga	4 th Annual National Conference of the Clinical Infectious Diseases society (CIDSCON 2014)	Presented a Poster titled “Clinical epidemiology of community acquired methicillin resistant staphylococcus aureus”	22 nd , 23 rd & 24 th August, 2014	Bangalore
2.	Dr Shrikala Baliga	17 th Karnataka State Neonatology Conference (KARNEOCON 2014)	Panelist for Panel Discussion on Infection Control in NCU	11 th & 12 th October 2014	Dr. T M A Pai Int Convention Centre Mangalore

3.	Dr Shrikala Baliga	4 th National Conference of SOBSICON 2014	Chaired a talk titled “Antimicrobial resistance- An update”	18 th – 20 th November 2014	Yenepoy a Universit y, Mangalor e
4.	Dr. Shalini Shenoy	XVIII Annual State Conference of IAMM-KC MICROCON 2014 on “Rickettsial Diseases-An Overview”	Participated as panelist for case discussion	23 rd February 2014	KMC, Manipal.
5.	Dr. Shalini Shenoy	4 th National Conference of SOBSICON 2014	Chaired a talk titled “Emerging Viral Diseases and Molecular diagnostic Virology- an update”	18 th – 20 th November 2014	Yenepoy a Universit y, Mangalor e
6.	Dr. Shrikar Mallya P	MICROCON 2014, XXXVIII National Confernece of Indian Association of Medical microbiology	Chaired a session	15-19 October 2014	SMS Medicl College, Jaipur
1.	Dr. K Vidyalaksh mi	4 th Annual National Conference of the Clinical Infectious Diseases society (CIDSCON 2014)	Presented a Poster titled “Presence of Metallo-B-Lactamases and Carbapenemases in Carbapenem Susceptible Pseudomonas Spp”	22 nd , 23 rd & 24 th August, 2014	Bangalor e
2.	Dr. Gopalkrish na Bhat	MICROCON 2014, XXXVIII National Confernece of Indian Association of Medical microbiology	Presented Paper – Titled “Comparison of three airway specimen collection methods for microbiologic diagnosis of ventilator associated	15-19 October 2014	SMS Medicl College, Jaipur

			pneumonia”		
3.	Dr. Suchitra Shenoy M	Midcuticon 2014,	Resource person – ‘ Good doctors but bad investors’	11 th May 2014	Mysore.
4.	Dr. Sevitha Bhat	XVIII Annual State Conference of IAMM-KC MICROCON 2014 on “Rickettsial Diseases-An Overview”	“Clinical and Microbiological study of Neonatal systemic candidiasis in a tertiary care centre”	23 rd February 2014	KMC, Manipal.
5.	Dr. Dhanashree B.	XVIII Annual State Conference of IAMM-KC MICROCON 2014 on “Rickettsial Diseases-An Overview”	Paper – Antibiotic susceptibility pattern of Uropathogenic Enterococcus spp. (Nanditha R Bhat, Shruthi Bhat K S, Dhanashree B.)	23 rd February 2014	KMC, Manipal.
6.	Dr. J Udayalaxmi	Tenth Annual meeting of the Society for Indian Human and Animal Mycologists (SIHAM 2014)	Oral presentation: “Comparison between the biofilm formation, phospholipase and hemolytic activity of Candida albicans and non albicans species of Candida isolated from dental caries lesions children” (Dr. Udayalaxmi. Neetha Shenoy)	10-12 th January, 2014.	Coimbatore, Tamil Nadu
7.	Dr. J Udayalaxmi	XVIII Annual State Conference of IAMM-KC MICROCON 2014 on “Rickettsial Diseases-An Overview”	Poster: “Speciation and antifungal susceptibility testing of candida isolated from blood stream infections” (Dr, Udayalaxmi, Chaitra, Roshni, Dr. Shalini Shenoy)	23 rd February 2014	KMC, Manipal.

CME/WORKSHOPS/SYMPOSIUM/GUEST LECTURE BY FACULTY 2012:

Sl. #	Name of the faculty attended	Name of the event	Title/Topic of Presentation	Dates	Place
1.	Dr. Shrikala Baliga	CME	Disinfection & Sterilization: Are we doing it right.	25 th Feb 2012	AJ Hospital
2.	Dr. Shrikara Mallya P	CME	“Vector Borne Diseases”	9 th June 2012.	SSIM&R Davangere
3.	Dr. Shrikala Baliga	Work shop- Infection Prevention	Participated in Panel discussion on Prevention of Hospital infections during “Infection prevention week workshop”	12 th June 2012.	KMC Hospital, Ambedkar Circle
4.	Dr Shalini Shenoy	Work shop- Infection Prevention	Participated in Panel Discussion on How to prevent infections in operation theatre	12 th June 2012	KMC Hospital, Ambedkar Circle
5.	Dr. Dhanashree B.	Work shop- Infection Prevention	Delivered a lecture on “Biomedical Waste Disposal”	12 th June 2012	KMC Hospital, Ambedkar Circle
6.	Dr. Shrikala Baliga	Workshop	Resource person : “Quality Management System & Internal Audit Training as per ISO 15189-2007 and NABL 112 requirement”	1 st – 4 th August 2012.	KMC, Mangalore
7.	Dr. Shrikala Baliga Dr. Shalini Shenoy Dr. Suchitra Shenoy	Refresher Training for State Reference Laboratory	Resource persons	21 st – 25 th Aug 2012(1 st batch) 27 th -31 st	KMC Mangalore

				Aug 2012(2 nd batch) 3 rd -7 th Sep 2012(3 rd batch)	
8.	Dr Shrikala Baliga	CME	Participated in Panel discussion on “Newer Antibiotics in ICU”	23 rd September 2012	API, Mangalore
9.	Dr Shrikala Baliga	Workshop - PG Training Programme	Gave a talk on NABL Accreditation	12 th October 2012	PG training programme at Calicut Medical College
10.	Dr. Vidyalakshmi	Workshop	Practical Training Workshop on “Melioidosis in India: Clinical Manifestations, Laboratory Identification & Environmental Surveillance” organized by Manipal University, India; University of Cambridge, United Kingdom; and Mahidol University, Thailand;	29th to 31st October, 2012.	Dept of Microbiology , Kasturba Medical College, Manipal
11.	Dr Suchitra Shenoy	CME on Fungal Infections	Gave a talk Laboratory Diagnosis of Fungal infections	November 21 st 2012,	Critical Care society Mangalore Branch

CME/WORKSHOPS/SYMPOSIUM/GUEST LECTURE BY FACULTY-2013

Sl. #	Name of the faculty attended	Name of the event	Title/Topic of Presentation	Dates	Place
1.	Dr. Shrikala Baliga	EXPLORE 2013	Laboratory Accreditation on: Is it worth the time & effort	2-3-2013	MCOAHS , Manipal
2.	Dr. Shrikala Baliga	Autoimmune Diseases & Diagnosis	Resource Person		Microbiology, KMC, Manipal
3.	Dr. Shrikala Baliga	Refresher Training – ICTC/FKTC	Resource person	16 th September to 12 th October, 2013, (6 Batches)	Microbiology Department, KMC, Mangalore
4.	Dr. Shrikala Baliga	KOMEION NOSOS	Delivered a guest Lecture on CL BSI	27-11-2013	Zulekha Nursing Home, Mangalore
5.	Dr. Shalini Shenoy	“Antimicrobial resistance: Insights into a global problem”	Chaired the session MDR, XDR, TDR: The latest in Drug Resistant Tuberculosis	February 23, 2013	KMC, Mangalore
6.	Dr. Shalini Shenoy	Refresher Training Programme for F-ICTC	Resource Person	18th - 19th and 20th-21st March 2013	SRL, KMC, Mangalore
7.	Dr. Shalini Shenoy	Quality control in Clinical Laboratory	Resource Person	4th May 2013	Dept. of Medical laboratory Technology, Fr. Mullers Medical College Hospital, Mangalore

8.	Dr. Shalini Shenoy	Orientation programme for postgraduate students of Allied health departments	Delivered a talk on Ethical issues	21 st September 2013	Medical Education Unit, KMC, Mangalore
9.	Dr. Shalini Shenoy	Refresher training programme for ICTC Technicians	Resource person	6th -18th ,19th-21st and 23rd - 25th September 2013	SRL, KMC, Mangalore
10.	Dr. Shalini Shenoy	Refresher training programme for F-ICTC Technicians	Resource Person	26th-28th September, 7th -9th and 10th -12th October 2013	SRL, KMC, Mangalore
11.	Dr. K Vidyalakshmi	Basic workshop on "Lesson Plan Preparation"	Resource Person	31st July, 2013	Medical Education Unit, KMC, Mangalore
12.	Dr. K Vidyalakshmi	Basic MET Workshop	Was a resource person and delivered 2 sessions on "Planning to Teach" and "Item Analysis"	19th and 23rd September, 2013.	KMC, Mangalore
13.	Dr. Gopalkrishna Bhat	Workshop	Resource person for workshop "How to conduct a journal club" for faculty	25 Sep 2013	Medical Education Unit, KMC, Mangalore

14.	Dr. Gopalkrishna Bhat	CME	Chaired a session in the CME on "Research perspective : Academia vs Industry"	24 th August 2013	KMC, Mangalore
15.	Dr. Gopalkrishna Bhat	Summer School and AICTE Sponsored Quality Improvement Programme	Resource person & Delivered a guest lecture	3rd June to 13th July 2013	Manipal College of Pharmaceutical Sciences, Manipal
16.	Dr. Suchitra Shenoy M	“Autoimmune Diseases & Diagnosis”	Resource Person	2nd & 3rd September 2013	Department of Microbiology, KMC, Mangalore
17.	Dr. Ashwini Hegde	2nd Annual meeting of Society of Biological Chemists (India), Coastal Karnataka Chapter	Delivered a talk on "Multiplex PCR for the Diagnosis of Diarrheagenic Escherichia coli"	26th October	School of Life Sciences, Manipal University, Manipal
18.	Dr. Ashwini Hegde	Refresher Training for- ICTC Technicians	Resource Person	18.03.13 to 21.03.13	SRL, KMC, Mangalore

CME/WORKSHOPS/SYMPOSIUM/GUEST LECTURE BY FACULTY-2014:

Sl. #	Name of the faculty attended	Name of the event	Title/Topic of Presentation	Dates	Place
1.	Dr. Shrikala Baliga	South zone workshop by NACO	Resource person for Orientation to 15189:2012	April 14-16 th 2014	Trivandrum
2.	Dr. Shrikala Baliga	The Second Annual CME: on “Infectious Diseases in Adults”	Chair person	14 th August 2014	K S Hedge Medical Academy, Deralakatte, Mangalore
3.	Dr Shrikala Baliga	CME on “Travel Medicine With Emphasis On Ebola”	Delivered a lecture on Ebola Virus.	15 th Novemb er 2014	A J Institute of Medical Sciences & Research Centre, Mangalore
4.	Dr. Shrikala Baliga	CME – Update on Programmatic Management of Drug Resistant Tuberculosis(PM DT -2014)	Delivered a talk on “Laboratory services for Programmatic Management of Drug Resistant Tuberculosis”	1 st Decemb er 2014	Dept. of Community Medicine, KMC, Mangalore
5.	Dr. Shalini Shenoy	CME Microscope to Stethoscope	Chaired a session on ‘Lower respiratory tract infection’	22 nd February 2014	KMC, Manipal
6.	Dr. Shalini Shenoy	Manipal Research Collquium -2014	Chair person	11 th – 12 th April 2014	Manipal University, Manipal
7.	Dr. Shalini Shenoy	Symposium	Resource person in the ‘Zeroing in on HIV/AIDS’	29 th Novemb er 2014	Department of Microbiology, KMC Manipal.
8.	Dr. Shalini Shenoy	CME – update on Programmatic Management of	Chaired a session	1 st Decemb er 2014	Dept. of Community Medicine,

		Drug Resistant Tuberculosis(PM DT-2014)			KMC, Mangalore
9.	Dr. Gopalkrishna Bhat	National Hands-on-Workshop on Anaerobic culture Techniques and Identification 'An Encounter with Anaerobes'	Delivered a guest lecture on "Laboratory Diagnosis & Antimicrobial Susceptibility Testing of Anaerobes"	23 rd – 25 th January 2014	Fr. Muller's Medical College, Mangalore
10.	Dr. Gopalkrishna Bhat	ICMR organized Foundation workshop on clinical and laboratory Medicine Research	Gave a lecture on 'Scientific paper writing & publishing'	12 th – 14 th March 2014	KMC, Mangalore
11.	Dr. Gopalkrishna Bhat	Manipal research colloquium	Chaired a plenary session organizing committee member	11 th – 12 th April 2014	Manipal University, Manipal
12.	Dr. Gopalkrishna Bhat	Research methodology workshop	Resource person	10 th , 17 th & 24 th May 2014	MCPD, Manipal
13.	Dr. Gopalkrishna Bhat	Summer Training -2014	Delivered a guest Lecture "Antimicrobial resistance- past, present and future"	2 nd June 2014	Manipal University, Manipal
14.	Dr. Ethel Suman	Guest Lecture	Delivered a lecture on 'Nosocomial infections	8 th August 2014	Biological Sciences Associations, St. Aloysius College, Mangalore

AWARDS & HONOURS WON BY FACULTY-2012:

Sl. #	Name of the Faculty	Name of the Award/Competition	Name of the Organization giving the award	Date of presentation/ period	Mention whether National / International
1.	Dr. K Vidyalakshmi	Best Poster Award in National Conference "Tuberculosis: Past, Present & Future"	KMC, Manipal	10 th & 11 th Feb 2012	National
2.	Dr K Vidyalakshmi	Best Paper Award in 2nd Annual Conference of Clinical Infectious Diseases Society (CIDSCON2012)	CIDSCON	24th to 26th August 2012	National

AWARDS & HONOURS WON BY FACULTY-2013:

Sl. #	Name of the Faculty	Name of the Award/Competition	Name of the Organization giving the award	Date of presentation/ period	National/ International
1.	Dr. Vishwas Saralaya	Co- authored: Best Poster (3 rd Place) - UAE International Dental Conference and Arab Dental Exhibition, AEEDC Dubai 2013	AEEDC Dubai	5 th -7 th Feb 2013	International
2.	Dr Shrikala Baliga	Co authored Best Poster Award: Audit of Antibiotic Prescription Pattern in the ICU (Kashvi Gupta)	MEDICON 2013	12 th and 13 th April 2013	National
3.	Dr. Gopalkrishna Bhat	Dr. T. M. A. Pai Endowment Chair in Hospital infections	Manipal University	April 2013	

AWARDS & HONOURS WON BY FACULTY-2014:

Sl. #	Name of the Faculty	Name of the Award/Competition	Name of the Organization giving the award	Date of presentation/period	National/International
1.	Mr Srikant Aswin, III MBBS Guided by: Dr. Ashwini Hegde	Awarded Travel grant of Rs.1,00,000/- by ICMR Travel Fund for International travel by Non ICMR Scientists to attend 21 st International Student Congress of Medical Sciences (ISCOMS) 2014 at Groningen, The Netherlands	“Role of Stethoscopes as potential sources of hospital-acquired infections: A study in a tropical teaching hospital”	3 rd to 6 th June 2014	National
2.	Mr. Anshu III MBBS Guided by: Dr. Shrikala Baliga	Awarded ISCOMS travel grant of 400 euros to attend 1 st International Student Congress of Medical Sciences (ISCOMS) 2014 at Groningen, The Netherlands	“Is there a preventive role of Vernix caseosa; A cross –sectional study” (He was awarded the ISCOMS travel grant of 400 euros. He was also selected as the ISCOMS ambassador for the year 2015)	3 rd to 6 th June 2014	International
3	Mr. Shyamsundar III MBBS Guided by: Dr. Vishwas Saralaya	Awarded Travel grant of Rs.1,00,000/- by ICMR Travel Fund for International travel by Non ICMR Scientists to attend of STI & AIDS World Congress 2013 at Vienna, Austria	“Speciation & antifungal susceptibility testing of candida species causing oral thrush in HIV patients”	14 th to 17 th July 2013	National

12. Placement record of the past students and the contribution of the department to aid student placements:

After passing the second MBBS subjects, the students progress to the third MBBS.

The MD (Microbiology) postgraduates join medical colleges as faculty or join established corporate hospitals/ Laboratories as Consultant Microbiologists

The MSc postgraduates progress to do PhD or join as faculty in Undergraduate college. Some join as junior research fellows in ongoing research projects.

13. Plan of action of the department for the next five years:

Teaching and faculty development:

- Our plan of action is in accordance with our departmental IMS objectives. With regard to teaching and faculty development we plan to increase the use of innovative teaching methods at a rate of 2.5% each year till it reaches 20%
- To evaluate performance of students and plan strategies to improve performance
- To increase the formative and summative assessment correlation
- To increase the student feedback on curriculum delivery, curriculum assessment and overall student feedback

Diagnostic:

- To have continual improvement in the diagnostic facilities. To increase workload by 5% year on year.

Academic:

- To move on to integrated teaching- both horizontal and Vertical in the next 2 years.
- To teach more curriculum as competency based.
- To improve Museum facilities and make it more interactive and Case Based learning

Research:

- To procure at least one external Research Grant project by 2016 and one every year thereafter
- To increase the output of research publications by 25% over the next five years
- To increase interdepartmental research by 10% over the next five years and to increase publications of interdepartmental research

PHARMACOLOGY

1) Faculty profile - adequacy and competency of faculty

There are seventeen teaching faculty members who meet the requirements for MBBS, BDS and the postgraduate training programme, as per the requirements of the regulatory bodies.

All faculty members are competent.

Sl #	Name of faculty	Qualification	Designation	Teaching Experience (Yrs)
1	Dr. Ashok Shenoy K	MBBS MD	Professor & Head	15
2	Dr. Mukta N Chowta	MBBS MD	Prof.	14
3	Dr. Sheetal D Ullal	MBBS MD	Assoc. Prof.	11
4	Dr. Sahana D. Acharya	MBBS MD	Assoc. Prof.	08
5	Dr. Preethi G. Pai	MBBS MD	Assoc. Prof.	07
6	Dr. Ashwin Kamath	MBBS MD	Assoc. Prof.	06
7	Dr. Rajeshwari S	M.Sc. PhD	Asst. Prof.	10
8	Dr. Rashmi R Rao	MBBS MD	Asst. Prof	01
9	Mr. Zahoor Ahmed R	MSc	Tutor	01
10	Dr. Priyanka Kamath	M.B.B.S.	Tutor	02
11	Dr. Sanjay H	M.B.B.S.	Tutor	02
12	Dr. Sushma DS	M.B.B.S.	Tutor	02
13	Dr Gaurav	M.B.B.S	Tutor	01
14	Dr. Vinaykumar S	M.B.B.S	Tutor	01
15	Dr. Caron S M D'Silva	M.B.B.S	Tutor	01
16	Dr. Sunil Pai	M.B.B.S	Tutor	<01
17	Dr. Rakesh K B	M.B.B.S	Tutor	<01

Faculty who worked for the department for part of the year:

Sl. No	Name of the Relieved Faculty	Qualification	Period	
			Designation	Experience
1	Dr. Rathnakar U P	MBBS MD	Assoc. Prof	07(Relieved on 27.12.2014)

Faculty Positions sanctioned and filled:

	Sanctioned	Filled
Faculty	09	09
Tutors	05	09

2) Student profile -entry level competencies, socioeconomic status, language proficiency etc

Please refer Annexure no. HS 1 for details

3) Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The last major revision of the practical records was implemented in the year 2011-2012. The practical record books of undergraduate students were revised incorporating many additional exercises in pharmacology like adverse event monitoring, computer-assisted simulations and re-visiting pharmacy practical exercises by adding practically oriented sessions and deleting older no-more used formulations.

The charts, problem solving exercises, drug interactions and prescription writing exercises meant for group discussions for MBBS students are constantly improved keeping in mind the recent advances so that the older drugs and pharmacotherapy modules are deleted and newer choice of drugs are incorporated. These exercises are reviewed, model answers are generated through focus group discussions with faculty and post graduate students so as to maintain uniformity in teaching. Many experiments utilizing animals have been made obsolete keeping in mind with the recent guidelines to minimize the use of animals for demonstrations and undergraduate practical exercises. These have been replaced with computer-aided simulations.

The department is planning to introduce newer teaching-learning methodologies like Problem Based Learning and OSPE. In addition, the possibility of using integrated teaching is being explored.

To optimize post graduate training, in addition to weekly seminars and journal clubs, the department has now introduced a new module wherein the postgraduates present weekly updates on recent drugs approved in the market. The faculty and postgraduates are also actively involved in the Pharmacovigilance programme initiated by the department. They are actively involved in gathering adverse drug related events from the teaching hospitals and also compile the data and analyse the same. The faculty helps them to analyse and determine the causality for these adverse drug related events.

4) Trends in the success and drop out rates of students during the past two years: ----

Course	Pass Percentage			Dropout Rate		
	2011-2012	2012-2013	2013-2014	2011-2012	2012-2013	2013-2014
MBBS	96	93.1	89.8	0	0	0
BDS	86	92	94.8	0	0	0
B.Sc. Nursing	87.04	88.64	75	0	3.7	8.3
BPT	88	100	86	0	0	7.1
M.Sc.	100	50	100	0	0	0
M.D	50	100	100	0	0	0

5) Learning resources of the departments - library, computers, laboratories and other resources

The department has a library which can accommodate 25 students. The departmental library houses about 256 books and a few journals. It is used for reference by the faculty and students. The rich access to various text books, journals and reference books enables

both students and faculty for quick referencing and clarification of doubts. The faculties utilize these books to enrich the audiovisual aids by scanning figures, diagrams and other visuals enabling them to enhance the grasping capability of students making pharmacology easier to comprehend and fun to learn.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition, the department also has 3 desktop computers complete with multi-functional printers.

There are two practical air-conditioned laboratories well equipped for undergraduate practical classes. The research laboratory, in addition, enables the post graduate students with a separate environment well equipped with recent instruments like digital physiograph, electroconvulsimeter, analgesiometer, metabolic cages, spectrophotometer and electronic stimulator to conduct quality research work.

There are two air conditioned demonstration rooms with a capacity of 150 students each, equipped with audio visual aids to facilitate teaching & learning.

With the contribution of the faculty the department has also developed self-learning modules. The same is freely accessible to the students.

The department also houses a museum where 300 drug samples are arranged in display jars (12 in number) and 30 copies of the drug catalogues are available for student use. Various charts, photographs and exhibits are also available for easy student reference. A separate section depicting history of medicine is also exhibited to inculcate student enthusiasm.

6) **Modern teaching methods practiced and use of ICT in teaching – learning**

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with, lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Each lecture session is planned to deliver maximum relevant information to the student. The clinical aspect as well as rationality of use of a given drug is discussed with the students. At the end of the class the students are quizzed and the objectives of the class are re-emphasized.

Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the

communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Seminars/Self-directed learning
- Demonstrations and Practical exercises

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. This is achieved by student seminars deliberated by a group of students (about 5-6 under the guidance of a faculty member) discussing a particular topic for 60 minutes

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

E learning: The e-learning modules are available on the intranet portal of Manipal University which the students are required to access for self-directed learning.

7) Participation of teachers in academic and personal counseling of students.

All the teachers are encouraged to enroll themselves actively in the academic activities of the college. Each undergraduate course is in charge of individual faculties who take a personal interest in the welfare of the students, their attendance, academic involvement and general well-being. Slow learners are encouraged to approach the faculty with their learning difficulties. Every effort is made to provide them additional opportunities for presentation. The department conducts tests on request by the students which helps them to prepare better and face university examinations. The department also encourages them to deliver seminars which improve their presentation and communication skills.

8) Details of faculty development programmes and teachers who have been benefited during the past two years.

The college has a programme to enable teachers to upgrade their skills. This is done through the Medical Education Unit. In addition, information regarding any such programme being conducted outside the college is brought to the attention of the faculty.

The college has now made attendance in a faculty development programme mandatory and is one of the qualifying criteria for academic advancement (promotion).

During the performance appraisal, a structured feedback is obtained from students regarding the faculty's teaching performance. This is shared and discussed with the faculty and where appropriate, remedial action is encouraged.

Details of faculty development programmes attended by faculty:

Dr. Ashok Shenoy:

1. Participated in a workshop on 'Teacher as Communicator' organized by the Manipal Center for Professional & Personal Development, Manipal University, Manipal held on 16 November 2012.
2. Attended workshop on 'Pedagogic and personal effectiveness' during February 21-26, 2013 at Manipal Center for Professional & Personal Development, Manipal University, Manipal.
3. Attended workshop on 'Curriculum design' on July 9, 2013 at Manipal Center for Professional & Personal Development, Manipal University, Manipal
4. Attended 'Academic Leadership Learning Initiative' workshop on July 19-20, 2013 at Father Muller Medical College, Mangalore
5. Attended workshop on "Counseling skill for teachers" organized by the Manipal Center for Professional & Personal Development, Manipal University, Manipal and Department of Psychiatry, KMC, Manipal during August 30-31, 2013.
6. Attended workshop on "How to conduct a Journal Club?" on September 25, 2013 at KMC, Mangalore
7. Resource person for the Orientation program for MPT/MASLP students and delivered a talk on 'Literature search' on 24th September, 2014 at KMC, Mangalore.
8. Attended workshop on 'Evolution of Teaching and Learning in Higher Education' on May 15, 2014 at Manipal Center for Professional & Personal Development, Manipal University, Manipal
9. Attended training program on "Nurturing an effective workplace" for the Heads of the Departments of Manipal University on October 24-25, 2014 at TAPMI, Manipal.
10. Attended work shop on 'Integrated teaching' on December 4, 2014 at KMC, Mangalore.

Dr. Mukta N Chowta:

1. Attended workshop on 'Pedagogy and Personality Development' during July 15-19, 2013 at Manipal Center for Professional & Personal Development, Manipal University, Manipal.
2. Attended workshop on 'How to conduct a Journal Club?' on September 25, 2013 at KMC, Mangalore
3. Attended guest lecture on 'Student Assessment – Past, Present and future' by Dr D. K. Srinivas on November 13, 2013 at KMC, Mangalore.
4. Attended workshop on 'No power communication' on November 20, 2013 at KMC, Mangalore
5. Attended work shop on 'Integrated teaching' on December 4, 2014 at KMC, Mangalore.

Dr. Sheetal D Ullal:

1. Resource person during the Medical Education Technologies Workshop at KMC, Mangalore on 31.03.2012; delivered a talk on 'Setting a Question Paper'.
2. Resource person for the Medical Education Technologies Workshop at KMC, Mangalore, held from October 9th to 13th 2012 and delivered a talk on 'Classroom Management'.
3. Resource person for the Teaching Methodologies Workshop at KMC, Mangalore, held from February 9-16, 2013 and delivered a talk on 'Classroom Management'.
4. Resource person for the Interns orientation program at KMC, Mangalore, held on February 28, 2013 and delivered a talk on 'Hippocrates Oath Professional conduct and Medical Ethics'.
5. Resource person for the Basic Medical Education Technologies Workshop at KMC, Mangalore, held on September 19, 2013 and delivered a talk on 'Introduction to Microteaching'.
6. Resource person for the Basic Medical Education Technologies Workshop at KMC, Mangalore, held on September 24, 2013 and delivered a talk on 'Setting a question paper'.

7. Attended national workshop on 'Assessment' conducted at Manipal Center for Professional & Personal Development, Manipal University, Manipal during January 10-12, 2013.
8. Attended workshop on 'Teacher as a communicator' held at KMC, Mangalore on January 24, 2013.
9. Attended workshop on 'Curriculum design' on July 9, 2013 at Manipal Center for Professional & Personal Development, Manipal University, Manipal
10. Attended workshop on 'Lesson Plan Preparation' on July 31, 2013 at KMC, Mangalore
11. Attended workshop on 'How to conduct a Journal Club?' on September 25, 2013 at KMC, Mangalore
12. Attended guest lecture on 'Student Assessment – Past, Present and future by Dr D. K. Srinivas on November 13, 2013 at KMC, Mangalore.
13. Attended workshop on 'No power communication' on November 20, 2013 at KMC, Mangalore.
14. Attended Basic workshop on 'Effective use of power point' on December 20, 2013 at KMC, Mangalore
15. Resource person at Teaching methodology workshop on February 15 & 22, 2014 conducted at KMC, Mangalore. and delivered a talk on 'Classroom management'.
16. Resource person for the Orientation program for MPT/MASLP students and delivered a talk on 'Ethics in Research' on 24th September, 2014 at KMC, Mangalore.
17. Attended National workshop on 'Creating effective Multiple Choice Questions' held at KMC, Manipal on February 17, 2014.
18. Attended workshop on 'Problem based learning' held on May 8, 2014 at KMC, Mangalore
19. Attended workshop on 'Designing a questionnaire' on June 27, 2014 at KMC, Mangalore.
20. Resource person for Basic Medical education Technologies workshop and delivered a talk on 'Small group teaching' during August 7-9, 2014 at KMC, Mangalore.

Dr. Sahana D Acharya:

1. Participated in the workshop on “Pedagogic and Personal Effectiveness” from 24 -28 July, 2012 organized by Medical Education Department, Kasturba Medical College, Manipal.
2. Attended workshop on ‘Teacher as a communicator’ held at KMC, Mangalore on January 24, 2013.
3. Attended workshop on ‘Curriculum design’ on July 9, 2013 at Manipal Center for Professional & Personal Development, Manipal University, Manipal.
4. Attended workshop on ‘Lesson Plan Preparation’ on July 31, 2013 at KMC, Mangalore.
5. Attended guest lecture on “Student Assessment – Past, Present and future” by Dr D. K. Srinivas on November 13, 2013 at KMC, Mangalore.
6. Attended workshop on ‘No power communication’ on November 20, 2013 at KMC, Mangalore.
7. Attended Basic workshop on ‘Effective use of power point’ on December 20, 2013 at KMC, Mangalore.
8. Attended workshop on ‘Designing a questionnaire’ on June 27, 2014 at KMC, Mangalore.
9. Attended Basic Medical education Technologies workshop during August 7-9, 2014 at KMC, Mangalore.

Dr. Preethi G Pai:

1. Attended workshop on ‘Teacher as a communicator’ conducted by Manipal Centre for Professional and Personal Development, Manipal University on November 17, 2012 at Manipal.
2. Attended one-day workshop on ‘Academic leadership-Teacher as Leader’ organized by the Manipal Centre for Professional and Personal Development on January 17, 2012 at Manipal.

3. Attended national workshop on 'Assessment' conducted during May 17-18, 2013 at Manipal Center for Professional & Personal Development, Manipal University, Manipal.
4. Attended workshop on 'Lesson Plan Preparation' on July 31, 2013 at KMC, Mangalore
5. Attended workshop on 'How to conduct a Journal Club?' on September 25, 2013 at KMC, Mangalore
6. Attended guest lecture on 'Integrated Teaching' by Dr William Burdick (Assoc. Vice President for education, FAIMER, Philadelphia, U.S.A and adjunct visiting Professor MCPB) on September 23, 2013 at KMC, Manipal
7. Attended guest lecture on 'Student Assessment – Past, Present and future' by Dr D. K. Srinivas on November 13, 2013 at KMC, Mangalore.
8. Attended Curriculum convention on November 12, 2013 at KMC, Manipal as curriculum co-ordination member representing Department of Pharmacology, KMC, Mangalore.
9. Attended Basic workshop on 'Effective use of power point' on December 20, 2013 at KMC, Mangalore
10. Attended workshop on 'Mentoring of medical students' on January 11, 2014 at Medical education unit, Mangalore
11. Attended work shop on 'Integrated teaching' on December 4, 2014 at KMC, Mangalore

Dr. Ashwin Kamath:

1. Attended workshop on 'Lesson Plan Preparation' on July 31, 2013 at KMC, Mangalore
2. Attended Basic Medical Education Technologies workshop during September 19-24, 2013 held at KMC, Mangalore
3. Attended guest lecture on 'Student Assessment – Past, Present and future' by Dr D. K. Srinivas on November 13, 2013 at KMC, Mangalore.
4. Attended Workshop on 'No power communication' on November 20, 2013 at KMC, Mangalore.
5. Attended Workshop on 'Problem based learning' held on May 8, 2014 at KMC, Mangalore.

Dr. Rajeshwari S:

1. Attended workshop on 'Teacher as a communicator' held at KMC, Mangalore on January 24, 2013.
2. Attended national workshop on 'Assessment' conducted during May 17-18, 2013 at Manipal Center for Professional & Personal Development, Manipal University, Manipal.
3. Attended workshop on 'Curriculum design' on July 9, 2013 at Manipal Center for Professional & Personal Development, Manipal University, Manipal.
4. Attended workshop on 'Lesson Plan Preparation' on July 31, 2013 at KMC, Mangalore.
5. Attended guest lecture on 'Student Assessment – Past, Present and future' by Dr D. K. Srinivas on November 13, 2013 at KMC, Mangalore.
6. Attended workshop on 'No power communication' on November 20, 2013 at KMC, Mangalore.

Dr. Rashmi Rao:

1. Attended workshop on 'Designing a questionnaire' on June 27, 2014 at KMC, Mangalore.
2. Attended Basic Medical education Technologies workshop during August 7-9, 2014 at KMC, Mangalore

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.

The department ensures that it maintains a healthy balance between teaching and research. These activities are reviewed during the department meeting to ensure continued appropriateness. The faculties actively take part in various research activities as required by a laboratory / company / funding agency. The students are encouraged to take part in research and faculty guide them as and when required. The students are encouraged to present the papers generated out of this research, participate in various professional meetings and publish the same.

10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years.

The collaboration with other educational institutions is restricted to the constituent colleges of Manipal University for various continuing medical educational programs, workshops and other research-related activities. Outside Manipal University, the department has collaborations with research laboratories to conduct animal and human studies in various fields e.g., bioavailability & distribution studies, acute toxicity studies, depression, anxiety etc.

The department is committed to conduct continuing medical educational education programs and workshops wherein students from other departments/ medical colleges throughout the country participate. The faculties from the department deliver guest lectures in continuing medical education programs/workshops/professional conferences organized by other departments/institutions anywhere in the country. The faculties do regularly present research papers in various national/international conferences held throughout the world. They also get trained themselves in various aspects in the workshops held similarly.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two year.

The faculty members of the department of Pharmacology are actively engaged in research activities, the main areas of interest focusing on pre-clinical studies evaluating biological activities of herbal and non-herbal products. The faculty have endeavored to expertise themselves in evaluating antiepileptic, analgesic, antidepressant, antianxiety, diuretic, nephroprotective, antidiabetic, anti-inflammatory, antiobesity, hypolipidemic, anticataleptic and aphrodisiac activities in various rodent models. Acute and chronic toxicity studies, bioavailability studies in rodents and experiments understanding learning and memory are gaining momentum as key interests of research.

The faculties are also constantly trying to improve student performances by conducting research in medical education pertaining to the students learning environment, theory essay and MCQ performances, small group teaching, library utilization etc. Clinical drug utilization studies are also going hand in hand to evaluate the current prescribing trends of the physicians.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	6
Non-funded research projects	5
PhD research projects	1
PG research projects	5
UG research projects	3

Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		1	1	2
Completed non-funded research projects		11	25	10
Completed PhD research projects		Nil	Nil	Nil
Completed PG research projects		2	2	3
Completed UG research projects		7	3	1
Publications	International	15	14	20
	National	8	18	13
Books		Nil	Nil	Nil
Chapters in books		Nil	Nil	Nil
Conference presentations	International	7	11	5
	National	5	6	7

The detailed outline of projects is given below:

Our ongoing funded research projects are:

Sl#	Title	Principal Investigator	Funding agency	Total amount received
1	Knowledge, attitude and practice regarding reporting of adverse events following immunization among healthcare professionals	Dr. Ashok Shenoy	ICMR	Not yet receiveds
3	Antidiabetic activity of <i>Costuspictus</i> – Follow up study	Dr. Sheetal D Ullal	Arjuna Natural Extracts Ltd, Kerala	Rs.1,10,591/-
4	Antidiabetic activity of new investigational products from parts of coconut	Dr. Sheetal D Ullal	Arjuna Natural Extracts Ltd, Kerala	Rs. 84,131/-
5	Acute Toxicity of Turmeric extract suppository in adult Wistar rats	Dr. Sheetal D Ullal	Arjuna Natural Extracts Ltd, Kerala	Rs. 15,435/-
6	Effect of <i>Emblica officinalis</i> on experimental models of dyslipidemia.	Dr. Sheetal D Ullal/Dr. Ashok Shenoy	Arjuna Natural Extracts Ltd, Kerala	Rs 1,24,000/-

Our ongoing non-funded research projects are:

SI #	Title	Faculty Involved
1	A comparison of health related quality of life of students of a professional college in South India using the WHO HRQOL (Brief Version) instrument.	Dr. Preethi G Pai
2	Comparison of pattern of antibiotic therapy and recurrence of urinary tract infection in women with and without diabetes mellitus.	Dr. Mukta N Chowta
3	Effect of <i>Benincasa hispida</i> on an experimental model of dyslipidemia	Dr. Sheetal Ullal D
4	Evaluation of drug promotional literature using WHO guidelines.	Dr. Mukta N Chowta
5	Effect of leaf extract of <i>Costus pictus</i> on streptozotocin induced diabetic nephropathy in wistar rats.	Dr. Sheetal D Ullal

Our ongoing PhD research projects are:

SI#	Title	Name of student	Name of the guide
1	Role of melatonin in modulation of ethanol intake following forced ethanol consumption & deprivation in Wistar rats.	Mr Zahoor Ahmad	Dr. Mukta N. Chowta

Our ongoing PG research projects are:

SI#	Title	Name of student	Name of the guide
1	Comparative evaluation of the effect of antidiabetic drugs on lipid profile in Type 2 Diabetes Mellitus	Dr. Caron S.M. D'Silva	Dr. Mukta N. Chowta
2	Evaluation of anti-diabetic effect of bio-enhanced preparation of turmeric in nicotinamide-streptozotocin induced diabetic Wistar rats	Dr. Vinaykumar Sayeli	Dr. Ashok Shenoy K.
3	Effect of Curcumin in chronic stress-induced anxiety model in Wistar rats	Dr. Gaurav	Dr. Sheetal Ullal

4	A randomized, open labeled, active-controlled, parallel group study to compare the efficacy of Fosaprepitant with Aprepitant for prevention of chemotherapy-induced nausea and vomiting with highly emetogenic chemotherapy	Dr. Sunil Pai B.	Dr. Ashok Shenoy K.
5	Evaluation of polypharmacy and its appropriateness in geriatric population	Dr. Rakesh K. B	Dr. Mukta N. Chowta

Our ongoing UG research projects are:

Sl#	Title	Name of student	Guide
1	Comparison of pattern of antibiotic therapy and recurrence of urinary tract infection in women with and without diabetes mellitus.	Mr. Saurish Hegde	Dr Mukta N Chowta
2	Do the drug promotional literatures from various clinical specialties differ in their adherence to WHO ethical criteria for drug promotion? A cross sectional descriptive study.	Ms Siri Hoovinahole	Dr Ashwin Kamath
3	Awareness of Medical ethics among medical students using case vignettes.	Mr. Chinmay	Dr. Sahana DA

Our completed funded projects (trials) are:

Year 2012

Sl#	Title	Faculty Involved	Funding agency	Amount received
1	Analgesic and anti-inflammatory effect of Turmeric and <i>Boswellia</i> in rodents.	Dr. Sahana D Acharya	Arjuna Natural Extracts Ltd, Kerala	Rs 56,752/-
2	Effect of Streptozotocin and <i>Eugenia jambolana</i> on pancreatic histopathology in rats.	Dr. Sheetal D Ullal	Manipal University	Not yet received

Year 2013

Sl#	Title	Faculty Involved	Funding agency	Amount received
1	Comparative study of the effect of aqueous and methanolic extract of <i>Costus pictus</i> leaves on blood glucose of Streptozotocin induced diabetic mellitus in wistar rats.	Dr. Ashok Shenoy K/Dr. Sheetal D Ullal	Arjuna Natural Extracts Ltd, Kerala	Rs 1,10,591/-

Year 2014

Sl#	Title	Faculty Involved	Funding agency	Amount received
1	Tissue distribution of free curcuminoids and its metabolites from turmeric extracts	Dr. SheetalUllal	Arjuna Natural Extracts Ltd, Kerala	Rs. 2,37,446/-
2	Evaluation of Anti-inflammatory activity of BCM – 95 and curcuminoids 95% in rats.	Dr. Rathnakar U P	Arjuna Natural Extracts Ltd, Kerala	Not yet received

Our completed non-funded projects are:**Year 2012**

Sl#	Title	Faculty Involved
1	In-vitro and in-vivo evaluation of antioxidant potential of <i>Costusigneus</i> in diabetic rats.	Dr. Shivaprakash
2	Variation in response to methotrexate treatment in patients with rheumatoid arthritis.	Dr. Vishal Bhat
3	Does the sensory modality used for learning, affect grades in nursing students?	Dr. SheetalUllal

4	Evaluation of anxiolytic activity of <i>Mucuna pruriens</i> in Wistar Albino rats.	Dr. Preethi G Pai
5	Evaluation of diuretic activity of <i>Alocasia macrorrhizos</i> in rats	Dr. SheetalUllal
6	Evaluation of antianxiety effect of <i>Asparagus racemosus</i> in Wistar albino rats.	Dr. SheetalUllal
7	Evaluation of patterns of persistence to antihypertensive medication in newly diagnosed hypertensive patients.	Dr. MuktaChowta
8	Prospective and comparative evaluation of analgesic utilization in post-surgery patients at two tertiary care hospitals.	Dr. Sahana Acharya
9	Evaluation of <i>Tribulus terrestris</i> in depression models of Albino mice.	Dr. SheetalUllal
10	Delay of insulin addition to oral antidiabetic combination therapy despite inadequate glycaemic control: Survey of patient attitude.	Dr. MuktaChowta
11	Evaluation of treatment satisfaction and adherence to insulin regimen in type 2 diabetic patients.	Dr. Mukta Chowta

Year 2013

Sl#	Title	Faculty Involved
1	Proportion and risk factors of antitubercular treatment induced hepatotoxicity in a tertiary care hospital.	Dr. Mukta N Chowta
2	Does body mass index affect immunological response in HIV positive patients?	Dr Mukta N Chowta
3	The aphrodisiac effect of <i>Tribulus terrestris</i> in Streptozotocin-induced diabetes mellitus model of Wistar rats.	Dr Sheetal D Ullal
4	Adverse effect surveillance in a neonatal intestine care unit of a tertiary care hospital.	Dr. Sahana D Acharya
5	Effect of <i>Tribulus terrestris</i> on haloperidol induced catalepsy in mice.	Dr. Sheetal Ullal
6	Evaluation of effect of atorvastatin on learning and memory in albino rats.	Dr. Mukta N Chowta

7	Can metabotropic glutamate receptor 7 (mgluR7) be a novel target for both acute and chronic analgesia?	Dr. Shivaprakash G
8	Effect of rubiadin on Isoniazid & Rifampicin induced hepatotoxicity in wistar albino rats.	Dr. Preethi G Pai
9	Immunogenicity studies of uricase-polymer conjugates.	Dr. Preethi G Pai
10	Comparative study of prescription pattern of antidiabetic drugs and adverse event monitoring in different hospital settings.	Dr. Mukta N Chowta
11	Study of prescription pattern and adverse events in private and government hospital.	Dr. Mukta N Chowta
12	Gender disparities in the treatment of cardiac risk factors in type-2 diabetic patients.	Dr. Mukta N Chowta
13	Proportion of diabetes mellitus in HIV (+) patients.	Dr. Rajeshwari Shastry
14	Assessment of knowledge, attitude & practice towards PEP for HIV among Healthcare Workers at a tertiary Care Hospital.	Dr. Shivaprakash G
15	Effect of alternate nostril breathing exercise on induced anxiety.	Dr. Ashwin Kamath K. A.
16	Evaluation of OSPE as an effective tool of assessment in Pharmacology (FAIMER Project).	Dr. Preethi G Pai
17	Effect of <i>Tribulus terrestris</i> on learning and memory models of Wistar rats.	Dr. Sheetal D Ullal
18	Effect of <i>Costus speciosus</i> in anxiety models of Wistar rats.	Dr. Sheetal D Ullal
19	Evaluation of <i>Costus speciosus</i> in depression models of Albino mice.	Dr. Sheetal D Ullal Dr. Zahoor Ahmed
20	Evaluation of effect of <i>Costus speciosus</i> on experimental models of dyslipidemia.	Dr. Sheetal D Ullal
21	Comparative evaluation of the effect of antidiabetic drugs on lipid profile in Type 2 Diabetes mellitus.	Dr. Mukta N Chowta
22	Study of antidepressant activity of aqueous extract of <i>Cymbopogon citratus</i> leaves in albino mice.	Dr. Rashmi Rao/Dr. Rajeshwari Shastry
23	A retrospective study of psychotropic drug utilization in	Dr. Ashwin

	psychiatry inpatients in a tertiary care hospital.	Kamath K. A./Dr. Ashok Shenoy K
24	Newest vital sign (NVS): A rapid estimation of health literacy among first year medical and nursing students.	Dr. Rathnakar.U.P
25	Pharmacoepedemiology of drugs utilized in ophthalmic inpatient and outpatient department of a tertiary care hospital.	Dr. Rathnakar.U.P

Year 2014

Sl#	Title	Faculty Involved
1	A retrospective study to evaluate the prescription pattern of antibiotics in pediatric population in a tertiary care hospital.	Dr. Rashmi Rao
2	Assess the frequency and severity of adverse drug reactions due to errors in drug intake at a tertiary care hospital.	Dr. Shivaprakash G
3	Factors affecting glycemic control in patients with long standing type 2 diabetes mellitus: A hospital based case control study.	Dr. Sahana DA
4	Screening of antidepressant activity of <i>Punica granatum</i> in mice.	Dr. Rajeshwari S
5	Hospital admissions caused by adverse drug reactions due to anticancer regimens at a tertiary care hospital.	Dr Shivaprakash G
6	Evaluation of anxiolytic activity of aqueous and ethanolic extracts of <i>Lawsonia inermis</i> leaves in rats.	Dr. Rashmi Rao
7	Evaluation of polypharmacy and appropriateness of prescription in geriatric population: A cross-sectional study at a tertiary care hospital.	Dr. Mukta N Chowta
8	Critical evaluation of drug promotional literature for drugs used in cardiovascular diseases.	Dr. Mukta N Chowta
9	Knowledge, attitude and perception of health care ethics among technicians in a tertiary care hospital in South India.	Dr. Sahana DA
10	Evaluation of <i>Costus Speciosus</i> in depression models of Albino Mice.	Mr. Zahoor Ahmad
11	Proportion of Diabetes mellitus in HIV positive patients.	Dr. Rajeshwari

Our completed PG research projects are:**Year 2012**

Sl#	Title	Name of the student	Guide
1	Critical evaluation and comparison of antimicrobial prophylaxis in elective surgeries at three hospitals.	Dr. Yogesh	Dr. M. C. Alwar
2	Efficacy and safety of mucoadhesive patches of fluconazole in the management of human immunodeficiency virus related oral candidiasis	Dr. Srikanth	Dr. Ashok Shenoy

Year 2013

Sl#	Title	Name of the student	Guide
1	Efficacy and Safety of Mucoadhesive Patches of Fluconazole in the treatment of Human Immunodeficiency Virus related Oral Candidiasis	Dr. Srikanth D	Dr. Ashok Shenoy K
2	Critical Evaluation and Comparison of Antimicrobial prophylaxis in elective surgeries across three hospitals	Dr. Yogesh Belagali	Dr. M.C. Alwar

Year 2014

Sl#	Title	Name of the student	Guide
1.	Factors affecting dose escalation of antidiabetic drugs in type 2 diabetes patients.	Dr. Akash	Dr. Ashok Shenoy K
2.	Evaluation of the effect of antihypertensive medications on the subjective quality of life in previously untreated hypertensive patients	Dr. Nishith	Dr. Mukta N Chowta
3	Effect of aqueous ethanolic extract of leaves of Costus speciosus on the plasma glucose and lipid profile of nicotinamide-streptozotocin induced diabetes in wistar rats	Dr. Natesh Prabhu	Dr. Sheetal Ullal D

Our completed UG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1	Evaluation of antidepressant activity of <i>Bacopamonnieri</i> in mice.	Ms. Sindhu Panicker	Dr Mukta N Chowta
2	Evaluation of health literacy status among patients in tertiary care hospital in coastal Karnataka	Ms. MadhuriBelman	Dr. Rathnakar
3	Evalaution of antioxidant potential of <i>Costusigneus</i> in ethanol induced peroxidativ e damage in Albino rats	Ms. Lisa Thottacherry	Dr. Shivaprakash
4	Anti-anxiety activity of <i>Camellia sinensis</i> .	Ms. Shreyas	Dr. Rajeshwari
5	Effect of Ciprofloxacin on haloperidol induced catalepsy in albino mice.	Mr. Vijay Kumar	Dr. H N Gopalakrishna
6	Prospective and comparative evaluation of analgesic utilization in post-surgery patients at two tertiary care hospitals.	Ms. Vishaka	Dr. Vishal Bhat
7	Pharmacovigilance of drugs used in HIV in an ART center attached to a tertiary care teaching hospital.	Mr. Anshu Kumar Jha	Dr. Ashok Shenoy

Year 2013

Sl#	Title	Name of the student	Guide
1	Applicability of the Rapid Estimate of Adult Health Literacy in Medicine [Short form] among patients in Dakshina Kannada district, Karnataka, India	Ms. Medha Urval,	Dr. Rathnakar UP
2	Knowledge attitude and practice of pharmacovigilance among consultants in tertiary care hospital	Mr. Vikram Bhat	Dr. Sheetal Ullal
3	Evaluation of the effects of Atorvastatin on learning and memory in albino rats	Mr. Rahul Nambiar	Dr. Mukta N Chowta

Year 2014

Sl#	Title	Name of the student	Guide
1	Critical Evaluation of Drug Promotional Literature for Drugs Used in Cardiovascular Diseases	SaiBhavana	Dr. Mukta N Chowta
2	Screening of antidepressant activity of <i>Punica granatum</i> in mice.	Ms.Adhya sharma	Dr. Rajeshwari

The details of our publications are:**Publications of faculty for the year 2012:****International Publications:**

- 1) Sheetal D, Sreekantha, Yogesh B, Amarnath M , Manjunath P , Kodliwadmath M V, Sreenivas Rao K, Harish Bhat and Vishal Kalaskar.

Antioxidant enzymes, antioxidant vitamins, glutathione and uric acid levels in nasal polyp(s).

International Journal of Pharma and Bio Sciences. March 2012; 3(1): B 71- B 76.

- 2) Ramya, SD Ullal, R Maskeri, MS Pradeepti, Habeeba Umma, S Rajeshwari.

Effect of *Alocasia macrorrhizos* on the lipid profile in hyperlipidemic rats.

Journal of Pharmaceutical negative Results 2012; 3(1): 9-12.

- 3) Preethi G P, Gopalakrishna H N, Rathnakar U P, Durga P, Vishnu, Jnaneshwara Shenoy. Acute diuretic activity of alcoholic extracts of *H. auriculata* seeds in normal wistar albino rats.

International Journal of Pharma & Bio Sciences 2012; 3: 283-289.

- 4) Pemminati S, Swati B, Shreyasi C, Gopalakrishna H N, Nair V, Pai MR.

Co-administration of haloperidol and drugs affecting the angiotensin pathway: effect on the extrapyramidal system.

Toxicology Mechanisms and Methods 2012;22(2): 139-143.

- 5) Santhosh J, Divya Santhosh, A.L.Udupa, Subir Gupta, Nkemcho Ojeh, U.P.Rathnakar, Deepa Benegal, Adarsha Benegal, Vijayalakshmi, H.V. Shubha, Sahana P Rao, Sanjana P Rao & Raghunandan Mudium.

Hypolipidemic activity of *Phyllanthus emblica* Linn (Amla) & *Trigonella foenumgraecum* (fenugreek) combination in hypercholesterolemic subject – A prospective, randomised, parallel, open-label, positive controlled study.

Asian Journal of Biochemical and Pharmaceutical Research 2012; 2231-2560.

- 6) Rajeshwari Shastry, Prabha M R Adhikari, Sheetal D Ullal, Ashok K Shenoy.

Assessing renal function using Cockcroft-Gault & modification of diet in renal disease equations in healthy South Indian males- A pilot study.

Asian Journal of Medical Sciences; (2011:2: 185-189).

- 7) Chowta Mukta N, Adhikari Prabha, Rajeshwari S, Chowta Nithyananda K Shenoy Ashok K, John T. Ramapuram, Rao Satish.

Gender differences of lipid profile in type-2 diabetes mellitus.

Instasci Journal of Medical Science & Clinical Research 2012; 2 (2): 25-33

- 8) Mukta N Chowta, Prabha M Adhikari, Rishav Sinha, Sahana D Acharya, H N Gopalakrishna, John T Ramapuram.

Highly sensitive reactive protein in patients with metabolic syndrome and cardiovascular disease.

Annals of Tropical medicine and Public Health 2012; 598:102.

- 9) Sanjana K, Shyamjith M, Deepa, S N Rao, Preethi G. Pai.

Effect of antesunate on maximal electroshock and pentylenetetrazole induced seizures in albino mice.

Int. J. of green pharmacy 2012; 6:63-66.

- 10) Preethi G Pai, Savindika Chamari Nawarathna, Avdhooth Kulkarni, Umma Habeeba, Sudarshan Reddy C, Srinivas Teerthanath, Jnaneshwara P Shenoy.

Nephroprotective effect of ursolic acid in a murine model of gentamicin-induced renal damage.

ISRN Pharmacology 2012; 6:63-66.

- 11) Vishma H Menezes, Preethi G Pai, Ahsan Shoeb, Srikanth D, Pradeepthi M S, Amritha Rai.
Effect of vanillin on electrical and chemical induced seizures in rodents.
American Journal of Pharm Tech Research 2012; 2(3).
- 12) Nagaraja B, Balaraju T C, Vinayak N T, Rajkumar P N, Sreekantha, Sudhakar G K, Yogesh B.
To compare the outcome of minor anorectal surgeries under local anesthesia versus spinal anesthesia.
International Journal of Pharma& Biosciences 2012 July; 3(3): B 187-201.
- 13) Rajeshwari Shastry, Gopalakrishna H.N, Ullal S D, Sindhu KC, Nithya Ravindran, Mukta N Chowta.
Antidepressant activity of *Camellia sinensis* in mice.
Am J of Pharm Tech Research. 2012; 2 (5): 539-544.
- 14) Rakshita Maskeri, Ullal Sheetal D, Yogesh Belagali, Ahsan Shoeb, Vani Bhagwat and Ramya.
Evaluation of aphrodisiac activity of vanillin in male wistar rats.
Pharmacognosy Journal 2012; 4(32):61-64.
- 15) Ashwin Kamath, Bheemesh V, Sudarshan Reddy, Ravish Thunga.
Psychotropic drug utilization in psychiatry inpatients in a tertiary healthcare setting.
International Journal of Medical and Pharmaceutical Sciences. 2012; 3(4): 16-22.

National Publications:

- 1) Shenoy Ashok K, Suresh K, ShenoyNandita, AdhikariPrabha MR, Sudhakar P, RatnakarUP, ChowtaMukta N, UllalSheetal D.
Clinical study of male sexual dysfunction in type 2 Diabetes Mellitus.
Research Journal of Pharmaceutical, Biological and Chemical Sciences 2012; 3(1): 390-395.
- 2) Gurudutt Nayak, Gopala Krishna N Herur, Rathnakar U P, Ashok Shenoy, SheetalUllal, Sudhakar Pemmineti, Nivedita Shetty, Rajeshwari Shastry.
Effect of angiotensin converting enzyme inhibitors on hemostatic profile in rats.
J. Pharmacy research 2012; 5(6) 3290-3292.

- 3) Rathnakar U.P., Nitish Kumar Sharma, Raina Garg, Unnikrishnan B, Gopalakrishna H N.
A study on the sale of antimicrobial agents without prescriptions in pharmacies in an urban area in South India.
Journal of Clinical & Diagnostic Research, 2012; 6(6):951-954.
- 4) Keerthi Pillai, John T. Ramapuram, Basavaprabhu Achappa, Deepak Madi, Mukta N. Chowta, Satish Rao B, SoundaryaMahalingam, Unnikrishnan B.
The immunological response after the initiation of the second line anti-retroviral therapy in HIV patients.
Journal of Clinical & Diagnostic Research 2012; 6(7): 1171-1173.
- 5) Preethi G Pai, Pradeepti, UmmaHabeeba, SheetalUllal.
Evaluation of diuretic activity of Vanillin in healthy Wistar albino rats.
Research journal of Pharmacy and Technology 2012;5(9): 1246-1249.
- 6) FahadJameel, Ashwin Kamath, Shripathy M. Bhat, Laxminarayana K. Bairy.
A descriptive study of use of psychotropic drugs in child and adolescent Psychiatry illness in an in-patient facility.
Journal of Clinical and Diagnostic Research [serial online] 2012 May [cited: 2012 Dec 27]; 6:431-436.
- 7) Shivaprakash G, Akash, Nishith RS, Basu A, PallaviShivaprakash, PrabhaAdhikari, Gopalakrishna HN, Rathnakar UP.
Dispensing patterns and cost of glucose-lowering therapies in Diabetes Mellitus patients at a tertiary care hospital in Southern India.
Drug invention today 2012;4(12):671-673.
- 8) Rathnakar U P, Srikanth D, VishmaHydieMenezes, Ashok Shenoy K, Shiva Prakash G, Udupa A L, Sahana D Acharya, Nishchal B S.
Evaluation of antinociceptive activity of Vanillin mediated through Opioid receptors.
Drug Invention Today 2012; 4(12): 674-676.

Publications of faculty for the year 2013:**International Publications:**

- 1) Srikanth D, Vishma Hydie Menezes, Nischal Saliyan, Rathnakar UP, Shivaprakash G, Sahana D Acharya, Ashok Shenoy K, Udupa AL.
Evaluation of anti-inflammatory property of Vanillin in Carrageenan induced paw edema models in rats.
International Journal of Bioassays 2013; 2(1): 269-271.
- 2) Seema Rai, Mukta N Chowta, Natesh Prabhu, Nishchal BS, Yogesh Belagali, Nishith R S.
Evaluation of *Tribulus terrestris* in depression models of albino mice.
American Journal of Pharmtech Research 2013;3 (1):538-546.
- 3) Seema Rai, Yogesh Belagali, Sheetal Ullal D, H N Gopalakrishna, Sahana D Acharya, Akash, Nishchal BS, Ashok Shenoy.
Acute oral toxicity of VTH pills in wistar rats.
International Journal of Pharmacy & Pharmaceutical Sciences 2013; 5(1): 321-323.
- 4) Jaykumar Sejpal, Rathnakar UP, Ashok Shenoy K, Sudhanshu Sahoo, Kutty NG, Udupa AL, Gopalakrishna HN.
Correlation between prolonged hyperlipidemia and cognition in Wistar rats.
International Journal of Bioassays 2013; 2(4): 681-684.
- 5) N Chowta K, Sachin Bangera, Mukta N Chowta.
Pattern of respiratory tract infections in type 2 Diabetes Mellitus.
International journal of Universal Pharmacy and Biosciences 2013; 2(3):
- 6) Mukta N Chowta,, N K Chowta, Prabha Adhikari, Ashok Shenoy.
Analysis of hemogram profile of elderly diabetics in a tertiary care hospital.
International journal of Nutrition, Pharmacology, Neurological Diseases 2013;3(2): 126-130.
- 7) Vani Bhagwat, Mukta N Chowta, Ahsan Shoeb, Rakshita Maskeri, V Venkatesh, Amritha Rai.
Evaluation of anxiolytic activity of vanillin in Wistar albino rats.
International journal of Nutrition, Pharmacology, Neurological Diseases 2013;3(2): 96-101.
- 8) Rathnakar U P, Anjali Ganesh, Unnikrishnan B, Srikanth D, Ganesh K, Ashok Shenoy K. Ashwin Kamath.
Doctor patient relationship: Influence of gender and role.
Int J Med Pharm Sci 2013, 3(12): 30-36.
- 9) Surabhi R, Chowta K N, Chowta M N.

Profile of complications in diabetic patients admitted to a tertiary care hospital in South India.

International Journal of Universal Pharmacy and Bio Sciences 2(4):July–August 2013, 8-16.

10) Ashwin Kamath.

Fluoroquinolones induced neurotoxicity: A review.

Journal of Advanced Pharmacy Education & Research 2013; 3(1): 16-19.

11) Rajeshwari Shastry, Sudhanshu Sahoo, Muralidhara N, Amritha Rai.

Prescription pattern in non-infectious respiratory diseases-A retrospective pilot study.

International journal of Universal Pharmacy and Biosciences 2013; 2(5): 452-456.

12) Shivaprakash G, Jagadish R P, Pallavi LC.

Unlocking the mystery of Paracetamol mechanism of action and existence of COX-3 a Review.

International journal of Universal Pharmacy and Biosciences 2013; 2(6): 317-324.

13) Shivaprakash G, Natesh Prabhu, Priyanka Kamath, Sanjay H, Pallavi LC, Jagadish RP.

Current status and future perspectives of Herpes Simplex virus as Oncolytic virus in cancer chemotherapy-A Review.

American journal of Pharmacy and Health Research 2013; 1(8): 29-48.

14) Ashwin Kamath.

Thiocolchicoside: A review.

DHR International Journal of Medical Sciences. 2013; 4(2): 39-45.

National Publications:

1) Muralidhara Yadiyal, Junaid Ahmed, Ashok Shenoy K, Nandita Shenoy.

Recent advances in oral drug delivery system.

Global Research Analysis 2013; 2(8):11-12.

2) Preethi G Pai, Umma Habeeba.P, Sheetal Ullal, Ahsan Shoeb P, Pradeepti MS, Ramya.

Evaluation of hypolipidemic effects of *Lycium barbarum* Linn (Goji berry) in a murine model.

Journal of natural remedies 2013; 13(1): 4-8.

3) Preethi G Pai, Umma Habeeba, Nishith RS, Jnaneshwara P Shenoy.

Evaluation of diuretic activity of ethanolic extract of *Ocimum sanctum* (L) in Wistar albino rats.

Research Journal of Pharmaceutical, Biological and Chemical Sciences 2013; 4(1): 533-538.

- 4) KA Chandrashekhar, KF Kammar, Jnaneshwara P Shenoy, Shivakumar J, Preethi G Pai.

Can short term practice of Shavasana modify autonomic status in early stage of bronchial asthma?

Research Journal of Pharmaceutical, Biological and Chemical Sciences 2013; 4(1): 932-938.

- 5) Shivaprakash G, Basu A, Ashwin Kamath, Pallavi Shivaprakash, Prabha adhikari, Rathnakar UP, Gopalakrishna HN, Jagadish Rao P.

Acanthosis nigricans in PCOS patients and its relation with type of 2 diabetes mellitus & body mass at a tertiary care hospital in south India.

Journal of Clinical and diagnostic research 2013; 7(2) : 317-319

- 6) Suparna PN, Basava Prabhu Achappa, Unnikrishnan B, Deepak Madi, Mukta N Chowta, John T Ramapuram, Satish Rao, Soundarya Mahalingam.

Evaluation of carotid atherosclerosis in patients with the HIV-1 infection: The role of the antiretroviral therapy.

Journal of Clinical and Diagnostic Research. 2013;7(2): 261-264.

- 7) Apoorva Mittal, Basavaprabhu Achappa, Deepak Madi, Mukta N Chowta, John T Ramapuram, Satish Rao, Unnikrishnan B, Soundarya Mahalingam.

Development of metabolic risk factors after the initiation of the second line anti-retroviral therapy.

Journal of Clinical and Diagnostic Research. 2013;7(2): 265-268.

- 8) Ahsan shueb, Mukta Chowta, Gokul P, Amritha Rai, Ashish Singh.

Evaluation of antidepressant activity of vanillin in Mice.

Indian J Pharmacol. 2013;45:141-4.

- 9) Zahoor A, Mukta N Chowta, GJK Prakash Raju, Faheem Mubeen.

Evaluation of the adverse reactions of antiretroviral drug regimens in a tertiary care hospital.

Indian J Pharmacol 2013;45:145-8.

- 10) Rathnakar UP, Sahana D Acharya, Preethi G Pai, Unnikrishnan B, Shiva Prakash G, Ashok K Shenoy, Udupa AL.
Utilization of library Services by teachers of a medical college in India.
Indian Journal of Library and Information Science 2013; 7 (2):121-125.
- 11) Yogesh Belagali, Sheetal Ullal, Ahsan Shoeb, Vani Bhagwath, Ramya K, Rakshita Maskeri.
Effect of vanillin on lipid profile in a model of hyperlipidemia, a preliminary study.
Indian journal of Experimental Biology 2013; 51: 288-291.
- 12) Yogesh Belagali, Alwar M C, Poornachandra Tejaswi, Ullal Sheetal D, Vani Bhagwat, Ashok Shenoy K, Mukta Chowta, Sahana D. Acharya.
A critical evaluation and comparison of antimicrobial prophylaxis in elective surgeries across three hospitals.
Journal of clinical and Diagnostic Research 2013,7(6): 1076-7.
- 13) Priyanka Kamath, K Ashok Shenoy.
Yellapragada Subba Rao: The unsung hero.
Muller Journal of Medical Sciences and Research 2013;4(2): 130-32.
- 14) Rathnakar UP, Madhuri B, Ashwin Kamath, Unnikrishnan B, Ashok Shenoy K, Udupa AL.
Evaluation of health literacy status among patients in a tertiary care hospital in coastal Karnataka, India.
Journal of clinical and diagnostic Research 2013; 7(11): 2551-2554.
- 15) Nandita Shenoy, Junaid A, Saranya B, Ashok Shenoy, Priyanka K, Srikanth N, Muralidhara Y.
Oral Cancer awareness among undergraduate medical students of Dakshina Kannada, India.
Scholars Journal of Applied Medical Sciences 2013; 1(5): 632-36.
- 16) R Shastri, P Adhikari, A Kamath, M Chowta, S Ullal, MRS M Pai.
Do Geriatrics require dose titration for antidiabetic agents?
Journal of Post graduate Medicine 2013; 59(4): 271-274.
- 17) Nandita Shenoy, Ashok Shenoy K., Rathnakar U.P.
The Perceptual Preferences in Learning among Dental Students in Clinical Subjects.
Journal of Clinical and Diagnostic Research. 2013 April, Vol-7(4)
- 18) Anjali Ganesh, Rathnakar U.P., Ganesh K.

DNA of doctor patient relationship.

Training and Development journal. August 2013. Vol 4[1].

Publications of faculty for the year 2014:

International Publications:

- 1) Seema Rai, Preethi G Pai, Rajeshwari S, Ullal Sheetal D, Nishith RS, Yogesh Belagali.
Evaluation of anxiolytic effect of chronic administration of *Mucuna Pruriens* in Wistar Albino rats.
American Journal of PharmTech Research 2014;4(1): 611-619.
- 2) Ashok K Shenoy, KV Ramesh, Mukta N Chowta, Prabha M Adhikari, U P Rathnakar.
Effects of botropase on clotting factors in healthy human volunteers.
Perspectives in clinical research 2014; 5(2): 71-74.
- 3) Ashwin K.
Pharmacological management of hypertension in adults: updates from eighth Joint National Committee. International journal of basic and clinical Pharmacology 2014; 3(2): 415.
- 4) Basavaprabhu Achappa, Shivani P, Deepak Madi, Unnikrishnan B, John T R, Satish Rao, Mukta Chowta, S Mahalingam.
Neurocognitive dysfunction among HIV positive patients using international HIV dementia scale.
Asian journal of Medical Sciences 2014; 5(4): 61-64.
- 5) S Mahalingam, A Soori, Pradhun R, Basavaprabhu A, Mukta Chowta, Deepak M.
Knowledge, attitude and perceptions of mothers with children uner five years of age about vaccination in Mangalore, India.
Asian journal of Medical sciences 2014; 5(4): 52-57.
- 6) Junaid A, Nandita S, Arjun T, Ashok Shenoy, Muralidhara Y.
Oral malodor producing bacteria in tongue biofilm.
International journal of biomedical research 2014; 5(5):349-50.
- 7) Ashok Shenoy, Mukta Chowta, Nandita Shenoy, Prabha Adhikari.
Efficacy and safety of Sauropus androgynous in the treatment of aphthous stomatitis-A placebo controlled double blind trial.
Journal of Medical Science and clinical research 2014; 2(5): 1187-93.

- 8) Gopalakrishna HN, Gurudutt Nayak, Rathnakar UP, Ashok shenoy, Shivaprakash G, Priyanka Kamath, Udupa AL.
Effect of Losartan on hemostatic profile in rats.
International journal of Bioassays 2014; 3(7):3152-54.
- 9) Preethi G Pai, Umma Habeeba, Ramya K, Pradeepthi M S, Yogesh Belagali.
Evaluation of Diuretic Effect of *Lycium Barbarum* Linn (*Goji Berry*) in rats.
International Journal of Pharmaceutical Sciences and Research 2014; 5(4): 1411-1415.
- 10) Manohar VR, Pai MRSM, Sabitha P, Pai Pushpalatha, Rai Mohandas, Ullal Sheetal D.
Hepatoprotective activity of *Phyllanthus niruri* in thioacetamide induced hepatotoxicity in male Wistar rats.
International journal of Pharmacy and Pharmaceutical Sciences 2014; 6(4): 341-43.
- 11) Natesh Prabhu, Sanjay H, Ullal Sheetal D, Sushma DS, Ashok Shenoy K.
Effect of *Tribulus terrestris* on learning and memory in Wistar rats.
Phcog J 2014; 6(4): 68-71.
- 12) Pabba Sindhu, Mukta N chowta, Nishith RS, Seema Rai, Akash Gadgade, Rajeshwari S.
Evaluation of antidepressant activity of *Bacopa Monnieri* in mice.
International journal of Pharmacy 2014; 4(3): 144-48.
- 13) Rajeshwari Shastry, Yugandhar Bethi, Sowjanya, J Uday Kumar.
Trends in drug usage among elderly with cardiovascular diseases.
International journal of Basic and Clinical Pharmacology 2014; 3(4): 723-725.
- 14) Rathnakar P U, Ashwin Kamath, Sheetal Ullal, Ashok K Shenoy, Nandita Shenoy, Laxminarayana A Udupa.
Assessment of learning styles of undergraduate medical students using the VARK questionnaire and the influence of sex and academic performance.
Advances in Physiology education 2014; 38: 216-220.
- 15) Akshaya Alva, Roopa Nayak, Rashmi Rao, Mohandas Rai.
A retrospective study of sputum conversion rate in new smear positive and re-treatment cases of Pulmonary Tuberculosis in Mangalore.
American Journal of Pharma Tech Research 2014; 4(4): 336-342.
- 16) Mohandas Rai, Sudha MJ, Viveka S, Kumaraswamy K, Ashwini M, Rashmi R Rao, Roopa Nayak, Seethalakshmi.
Effect of Gemcitabine on female fertility-An animal model study.

- Journal of Drug delivery and Therapeutics 2014; 4(1): 45-48.
- 17) Ardra P, Jagadeesh Babu P, Reval Sekhar Nishith, Sanjay H, Preethi G Pai.
Synthesis and characterization of Polysialic acid-uricase conjugates for the treatment of hyperuricemia.
Int J Pept Res Ther 2014; 20: 465-72.
- 18) Rathnakar UP, Ashwin K, Medha Urval, Unnikrishnan B, Laxminarayana Udupa A, Ashok Shenoy K.
Applicability of the rapid estimate of adult health literacy in medicine-short form among patients attending a University hospital in southern India.
International journal of healthcare and biomedical research 2014; 3(1): 196-205.
- 19) Junaid A, Nandita Shenoy, Almas B, Laxmish P Mallya, Ashok Shenoy.
Herbal oral care: an old concept or a new model?
International Journal of Research in Medical Sciences 2014;2(3):818-821.
- 20) Akshaya Alva, Roopa P Nayak, Rashmi R Rao, Mohandas Rai.
A Retrospective study of sputum conversion rate in new smear positive and retreatment cases of pulmonary tuberculosis in Mangalore.
American Journal of Pharmatech Research:2014;4(4):236-42.

National publications:

- 1) Ashwin K, Rathnakar UP, Ashok Shenoy K.
Willingness to participate in a clinical trial and understanding of informed consent information among medical students.
Indian Journal of Medical Ethics 2014; 11(1): 16-18.
- 2) Preethi G Pai, Vishma Menezes, Srikanth, Atreya M S, Jnaneshwara P Shenoy.
Medical Students' perception of their educational environment.
Journal of clinical and diagnostic research 2014; 8(1): 103-107.
- 3) MN Chowta, G Tiwary.
Comment on: Association of B 12 deficiency and clinical neuropathy with metformin use in type 2 diabetes patients.
J Postgrad Med 2014; 60: 96-7.
- 4) Kamath A.
Paracetamol in osteoarthritis: NICE guidelines or not so nice.
Journal of Postgrad Med 2014; 60(2): 212.

- 5) Natesh Prabhu M, Preethi G Pai, Vinay Kumar S, Gaurav, Caron S M D'Silva, Sheetal D Ullal, Ashok Shenoy K, Sushma D S.
Diuretic Activity of aqueous ethanolic extract of leaves of *Costus Speciosus* in normal Wistar Albino rats.
Research Journal of Pharmaceutical, Biological and Chemical Sciences
2014;5(3):127-132.
- 6) Anjali G, Rathnakar UP, Ganesh K.
Placebo of Doctor patient bond: Influential parameters.
SCMS Journal of Indian management 2014; 11(1): 109-123.
- 7) Shastry R, Adhikari P, Kamaath A, Chowta MN, Ullal SD, Pai MR.
Author's reply.
Journal of Post graduate medicine 2014; 60(1):
- 8) Sahana D Acharya, Ramya K, Rohit Shenoy, Ullal Sheetal D, Preethi G Pai.
Evaluation of the diuretic activity of alocasia macorrhizos in rats.
Research journal of Pharmaceutical biological and chemical Sciences 2014; 5(4):
1358-62.
- 9) BS Nishchal, S Rai, M N Prabhu, Sheetal D Ullal, Rajeshwari S and HN
Gopalakrishna.
Effect of Tribulus terrestris on haloperidol-induced catalepsy in mice.
Indian journal of Pharmaceutical Sciences 2014; 564-67.
- 10) Shivaprakash G, Punya Suvarna, Sanjay Hadigal, Priyanka Kamath, Natesh Prabhu,
Ashok Shenoy K, Pallavi LC.
Can metabotropic glutamate receptor 7 (MGRUR7) be a novel target for analgesia.
Journal of clinical and diagnostic research 2014; 8(9): HC16-HC18.
- 11) Hadigal S, Shenoy K A.
Comment: Comparison of efficacy, safety and cost. Effectiveness of various statins in
dyslipidemia diabetic patients
Indian Journal Pharmacology 2014; 46:460.
- 12) Anjali Ganesh, Rathnakar UP.
Learning preferences of PG and UG students: Application of VARK.
SCMS Journal of Indian management 2014(July-Sep); 26-36.
- 13) K N Chowta, Mukta N Chowta.

Association of serum uric acid level with estimated glomerular filtration rate in diabetic patients.

Archives of medicine and health sciences 2014; 2(2) : 145-149.

The details of our conference presentations have been listed below.

Year 2012

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Utilization of library services by teachers of a medical college in India	Dr Rathnakar U. P	International Academic Conference held at Orlando, U.S.A. during January 2-4, 2012
2	FABP2 54 Thr polymorphism in subject with metabolic syndrome with 2 type 2 diabetes mellitus	Dr. P Sudhakar	6 th Asian Pacific Congress of Heart Failure held at Thailand during February 3-5, 2012
3	Effect of polyherbal product in Streptozotocin-induced diabetic rats	Dr. P Sudhakar	4 th International conference on Bioinformatics and Biomedical Technology 2012 held at Singapore during February 26-28, 2012
4	A descriptive study of use of psychotropic drugs with regard to age and gender in a tertiary healthcare facility	Dr. Ashwin Kamath	1 st International Psychiatric Congress on Mental Health & Recovery held at Bern Switzerland during March 29-30, 2012
5	A study of over the counter sale of antimicrobial agents in the community based pharmacies in an urban area in India	Dr. Rathnakar	2012 European International Health Sciences Conference held at Rome Italy, during June 6-8, 2012

6	Dispensing patterns and costs of Glucose lowering therapies in type 2 diabetic mellitus in south India	Dr. Shivaprakash G	2012 European International Health Sciences Conference held at Rome Italy, during June 6-8, 2012
7	Medical students' perception of educational environment"	Dr. Preethi G Pai	South East Asian International and national conference on Health Professional Education held at Coimbatore during September 5-8, 2012

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Association of serum uric acid with glomerular filtration rate in type 2 diabetic patients.	Dr. Mukta N. Chowta	Conference of the Research Society for the Study of Diabetes in India held at Chennai during October 26-28, 2012
2	Anti-hyperlipidemia effect of <i>Costus pictus</i> in an experimental model of dyslipidemia	Dr. Sheetal D. Ullal	33 rd Annual conference of Indian Association of Biomedical Scientists held at Mangalore during November 1-3, 2012
3	Anti-obesity effect of Smartlean in wistar rats	Dr. Sahana D. Acharya	33 rd Annual conference of Indian Association of Biomedical Scientists held at Mangalore during November 1-3, 2012
4	Diuretic action of <i>Ocimum sanctum</i> in Wistar albino rats	Dr. Preethi G Pai	33 rd Annual conference of Indian Association of Biomedical Scientists held at Mangalore during November 1-3, 2012
5	Association of body mass index with lipid profile in type 2 diabetic patients	Dr. Mukta N. Chowta	Annual Conference of the Association of Physicians of India held at Kolkata during January 12-16, 2012

Year 2013**International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Knowledge, Attitude and Practices regarding reporting of Adverse Events following Immunization (AEFI) among healthcare professionals.	Dr Ashok Shenoy K	6 th International Conference on “Innovation in 21st Century: Clinical Pharmacology in current and future environment held at Mumbai during April 19-22, 2013.
2	Clinical profile of geriatric diabetic patients.	Dr. Rajeshwari Shastry	International non-communicable disease research meet held at KMC< Manipal during February 9-10, 2013.
3	Chaired a scientific oral presentation session	Dr Ashok Shenoy K	14 th Nepal Dental Association conference held at Chitwan, Nepal during February 2, 2013
4	Correlation between Prolonged Hyperlipidemia & Cognition in wistar male rats	Dr. Rathnakar UP	26 th All Nepal Medical Conference of Nepal Medical Association held at Kathmandu, Nepal during March 2-4, 2013.
5	Evaluation of Diuretic Activity of <i>Alocasia macrorrhizos</i> in rats.	Dr. Sahana D Acharya	26 th All Nepal Medical Conference of Nepal Medical Association held at Kathmandu, Nepal during March 2-4, 2013.
6	Do Geriatrics Require Dose Titration for Antidiabetic Agents?	Dr. Rajeshwari Shastry	26 th All Nepal Medical Conference of Nepal Medical Association held at Kathmandu, Nepal during March 2-4, 2013.
7	Willingness to participate in a clinical trial and understanding	Dr. Ashwin Kamath K. A.	Dubai International Pharmaceuticals and Technologies

	of informed consent information among medical students		conference and exhibition held at Dubai, UAE during March 10-12, 2013
8	Evaluation of Health Literacy Status among Patients in a Tertiary Care Hospital in Coastal Karnataka [India	Dr. Rathnakar UP	International Academic Conference held at Las Vegas, USA during September 23-25, 2013
9	Evaluation of Antioxidant potential of <i>Costus igneus</i> in ethanol induced peroxidative damage in albino rats	Dr. Shivaprakash G	International Academic Conference held at Las Vegas, USA during September 23-25, 2013
10	Problem solving in an e-learning platform as a teaching and learning tool	Dr. Ashwin Kamath K. A.	Frontiers in Medical and Health Sciences Education conference held at Pokfulam, Hong Kong during December 6-7, 2013
11	Association of tuberculosis with diabetes mellitus: A hospital based study in South India"	Dr. Mukta N Chowta	IDF conference held at Melbourne, Australia during December 2-6, 2013

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Evaluation of antidiabetic activity of aqueous extract of <i>Costus pictus</i> in streptozotocin-induced diabetic rats.	Dr. Sheetal D Ullal	KAPICON 2013-31 st Annual Conference of API-Karnataka Chapter held in Mangalore during April 26-28,2013
2	Comparison of clinical profile of geriatric and non-geriatric diabetic patients	Dr. Rajeshwari Shastry	KAPICON 2013-31 st Annual Conference of API-Karnataka Chapter held in Mangalore during April 26-28,2013

3	Evaluation of diuretic effect of <i>Lycium barbarum Linn</i> (Goji Berry) in rats	Dr. Preethi G Pai	59 th annual national conference of Association of Physiologists and Pharmacologists of India (APPICON 2013) held at Bengaluru during Nov 28-30, 2013
4	Evaluation of antinociceptive activity of curcuminoids (BCM95 [®]) and <i>Boswellia serrata</i> extract (Bospure [®]) in rodents Chaired an oral presentation session	Dr. Sahana D Acharya	46 th Annual conference of Indian Pharmacological Society held at Bengaluru during December 16-18, 2013
5	Comparative study of analgesic activity of aqueous extract of <i>andrographis paniculata</i> and diclofenac sodium in mice- acute & chronic study	Dr. Rashmi R Rao	46 th Annual conference of Indian Pharmacological Society held at Bengaluru during December 16-18, 2013
6	Effect Of aqueous extract of <i>Costus Pictus</i> Leaves in Streptozotocin Induced Diabetes Mellitus in Wistar Rats	Dr. Priyanka Kamath	46 th Annual conference of Indian Pharmacological Society held at Bengaluru during December 16-18, 2013

Year 2014

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Applicability of the rapid estimate of health literacy in	Dr. Rathnakar UP	International conference on Behavioral & health care

	medicine (SF) among patients in Dakshina Kannada district, Karnataka, India		research held at Zurich, Switzerland during July 30-31, 2014
2	Psychotropic drug utilization in geriatric psychiatry inpatients of a University hospital	Dr. Ashok Shenoy K	16 th Pacific Rim College of Psychiatrists Conference held at Vancouver, Canada during October 5-7, 2014
3	Psychotropic drug utilization in child and adolescent psychiatry inpatients of a University hospital	Dr. Ashwin Kamath KA	16 th Pacific Rim College of Psychiatrists Conference held at Vancouver, Canada during October 5-7, 2014
4	Efficacy of Honey on healing diabetic ulcers	Dr. Sheetal Ullal	10 th IDF-WPR congress 2014 6 th AASD scientific meeting held at Singapore during November 21-24, 2014
5	Antidiabetic activity of hydroalcoholic and ethanol extracts of Costus pictus leaves in Streptozotocin induced diabetic rats	Dr. Sahana D Acharya	10 th IDF-WPR congress 2014 6 th AASD scientific meeting held at Singapore during November 21-24, 2014

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Comparison of renal profile in geriatric and non-geriatric diabetic patients	Dr. Rajeshwari S	South Regional Conference of the Association of Clinical Biochemists of India 2014 held at KMC, Mangalore during May 22-23, 2014
2	Role of melatonin on	Dr. Zahoor	South Regional Conference of the

	ethanol intake following forced ethanol consumption in wistar rats: a pilot study.	Ahmad	Association of Clinical Biochemists of India 2014 held at KMC, Mangalore during May 22-23, 2014
3	Comparison of polypharmacy between geriatric & non geriatric diabetic patients	Dr. Rajeshwari S	10th Annual conclave (KRSSDI Mangalore 2014) held at Father Muller Medical College, Mangalore during September 6-7, 2014
4	Antidepressant like activity of <i>Cymbopogon Citratus</i> in albino mice using forced swim test.	Dr. Rashmi R Rao	Third international & sixth national conference of Indian society for rational pharmacotherapeutics held at JIPMER, Puducherry during November 21-22, 2014
5	Effect of Aqueous and Methanolic Extracts of <i>Costus pictus</i> Leaves in Streptozotocin Induced Diabetes Mellitus in Wistar Rats	Dr. Priyanka Kamath	Medpharma 2014: National Seminar on Pharmacogenomics in Drug Discovery and its Clinical Applications held during 16-17 October, 2014, at JSS Medical College, Mysore.
6	Effect of Gender on the Immunological Response to Antiretroviral Therapy in HIV Patients	Dr. Priyanka Kamath	7 th National Conference of AIDS Society of India held during 12-14 December, 2014 at Kolkata.

12. Placement record of the past students and the contribution of the department to aid student placements:

The department has industry posting program for the postgraduates which gives them exposure to the practical aspects. The department assists in placement by issuing recommendation letters to the aspiring candidates. All the postgraduate students passed out from the department in the last 5 years are well placed in various industries / academic institutions.

13. Plan of action of the department for the next five years:

- i. The department aims to host a national/regional pharmacology conference.
- ii. All the faculty are encouraged to publish their research work with a minimum of 2 publications in indexed journals every year for each faculty
- iii. The faculties are also encouraged to attend at least one national and one international workshop/conference per year
- iv. Applying and procuring external research grants/funds as a means for high quality research output by the postgraduate students and faculty is given a high priority.
- v. The faculties are actively encouraged to guide the undergraduate students for the ICMR –STS project and to apply for at least one project every year.
- vi. The department also aims to introduce various learning modules like problem based learning and interdisciplinary seminars to promote integrated teaching
- vii. We intend to organize continuing medical education programs and workshops with a higher frequency
- viii. Students are actively encouraged to approach the faculty regarding issues of academics or non-academics with the aim of improving their attendance profile, examination results and perception of learning environment.

FORENSIC MEDICINE

1. Faculty profile - adequacy and competency of faculty

There are nine teaching faculty members who meet the requirements for MBBS training as per the requirements of the regulatory body. All faculty members are competent.

Faculty List

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. B. Suresh Kumar Shetty	MBBS MD, PGCTM	Professor & Head	13
2.	Dr. Prateek Rastogi	MBBS MD, PGDMLE, PGDCFS, PGCMNCPA, PGCTM, Dip.Cyber Law	Assoc. Prof.	12
3.	Dr. Tanuj Kanchan	MBBS MD MD, DFM	Assoc. Prof.	10
4.	Dr. Jagadish Rao P.P.	MBBS MD, DNB, PGDCFS, Dip.Cyberlaw, PGCTM, MNAMS	Assoc. Prof.	11
5.	Dr. Raghavendra Babu Y.P.	MBBS MD,MBA	Assoc. Prof.	09
6.	Dr. Rakshatha Nayak	MBBS	Tutor	< 01
7.	Dr. Sonali Prabhakar	MBBS	Tutor	< 01
8.	Dr. Kripali Rai	MBBS	Tutor	< 01
9.	Dr. Vimala Christina Colaco K	MBBS	Tutor	< 01

Category	Sanctioned	Filled
Teaching staff	5	5
Tutors	5	4

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.

The course is governed by regulatory body MCI and the department strictly complies with the laid down requirement. The board of studies forensic medicine had modified the list of prescribed text books and reference books keeping in mind the current scenario, practical

importance and examination requirements of undergraduate MBBS students.

Board of studies has modified our exam pattern from 4 long questions, 12 short notes and 40 MCQ's to 2 long questions, 15 short notes and 20 MCQ's in theory. In practicals students have to undertake 8 OSPE pattern spotters.

Trends in the success and drop- out rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2011-2012	2012-13	2013-14	2011-2012	2012-13	2013-14
MBBS	98	98	98.8	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped library with 268 books for faculty and students. Three computers are available in department for official work. In addition each faculty has been provided with an individual laptop for advancement of teaching and research activities. The department is Wi-Fi enabled.

The department has a spacious air conditioned practical hall that accommodates all 250 students at a time. However each practical batch consists of approximately 125 students. Each student is provided with separate work space. Where necessary, teaching is done using AV aids, charts, microscope, skeleton, bones, specimens, X-ray lobby which are readily available in our department. The department is also proud to possess a spacious state of the art museum with large number of specimens, charts, weapons etc.

There are air conditioned demonstration rooms equipped with audio visual aids to facilitate teaching & learning. Department has a mortuary facility at Govt. Wenlock Hospital for practical demonstration of medico-legal cases to the students.

6. Modern teaching methods practiced and use of ICT in teaching – learning:

The teaching system incorporates various methodologies for ensuring the achievement of the maximum learning objectives. We firmly believe that traditional lectures alone are not adequate as a method of training and are even less effective at skill and attitude development among students. Thus, lectures are made interactive with use of AV aids, discussions, seminars, feedback, frequent tests etc to provide ample scope for students to interact. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach in both understanding and resolution of the problem

The teaching-learning methods used are:

- Interactive lectures
- Small group teaching
 - a. Practicals
 - b. Seminars/Self-directed learning
 - c. Demonstrations
 - d. Group discussions
 - e. Autopsy teaching
- Projects

The institution has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- i. Assignments (either individual or group)
- ii. Conference presentations
- iii. Research

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

7. Participation of teachers in academic and personal counseling of students:

There is no formal participation by the faculty of the department. However, the faculty provide feedback to students on a continual basis and counsel them when the need arises.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

All of them have undergone training regarding the same in the past. All faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended 43 such programmes.

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching UG and PG students, research and publications.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Interdepartmental research work- Many of our faculty have worked in collaboration with other department, have jointly done minor projects and published scientific articles in various international/ national indexed journals. However such collaborations at the state/ national/ international levels have not been possible in the past two years.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

Areas of research- Forensic Identification, Forensic Anthropology, Forensic Toxicology, Forensic Pathology.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	0
PG research projects	0
UG research projects	2

Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		0	0	0
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	0
Completed PG research projects		0	0	0
Completed UG research projects		0	3	3
Publications	International	30	21	27
	National	13	15	29
Books		0	0	1
Chapters in books		3	2	5
Conference presentations	International	12	10	5
	National	5	2	5

Our ongoing UG Projects are:

Sl#	Topic	Name of the student	Guide
1.	Stature estimation and sex determination using anthropometric measurements of normal human ear auricle.	Deepali Singh	Dr. Prateek Rastogi
2.	Morphology of lip print patterns among Indian and Malaysian population. A tool for racial and gender identification	Alister Thomas	Dr. Jagadish Rao P P

Our completed UG research projects are:**Year 2013**

Sl#	Title	Name of the student	Guide
1	Estimation of Age using Chest Radiograph(<i>ICMR-STs</i>)	Tarun Agarwal	Dr. B Suresh Kumar Shetty
2	Histopathological evaluation of organs in poisoning mortalities- An investigation unexpected.(<i>ICMR-STs</i>)	Hariharan Kannan	Dr. Tanuj Kanchan
3	Stature and gender estimation using foot measurements in South Indian Population.(<i>ICMR-STs</i>)	Mahak Bhandari	Dr. Jagadish Rao P P

Year 2014

Sl#	Title	Name of the student	Guide
1	Mandibular Measurement an aid : in gender and stature estimation	Vasudha Ahuja	Dr. Prateek Rastogi
2	Discriminant function analysis and Gender determination among Indian and Malaysian populations using Palatal rugae configuration	Mr. Sreenivas Kamath	Dr. Jagadish Rao P P
3	Study of Dorsal Finger Print Pattern and its utility in Identification	Kanika Gupta	Dr.Raghavendra Babu YP

The details of our publications by our faculty are mentioned below

Publications in last 3 years

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The details of books published by our faculty are given below:

Year 2014

Sl#	Title	Name of the faculty	Publisher
1	Atlas of Forensic Pathology. New Delhi	Shetty BSK, Rastogi P, Kanchan T, Padubidri JR, Babu RYP	Jaypee Brothers Medical Publishers (P) Ltd;

The details of chapters in books published by our faculty are given below:

Year 2012

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher
1.	Pancreatitis: Treatment and complications.	Acute Pancreatitis – the current concept in Ethiopathogenesis, Morphology and complications.	B Suresh Kumar Shetty, Ramdas Naik , Adithi S Shetty, Sharadha Rai, Ritesh G Menezes and Tanuj Kanchan	In Tech Publisher

2.	Malaria: An infection with global impact.	Malaria- Etiology, Pathogenesis and Treatments	Menezes RG, Pant S, Kanchan T, Senthilkumaran S, Kharoshah MA, Naik R, Babu YPR, Rao PPJ, Fazil A.	Nova Science Publishers
3.	Histopathological Investigation in Forensic Autopsies.	Pathology: New Research	Kanchan T, Lobo FD, Menezes RG, Shetty BSK	New York: Nova Science Publishers

Year 2013

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher
1	Forensic Pathology: Principles and Overview	Encyclopedia of Forensic Sciences-Vol-3	Tanuj Kanchan, Kewal Kishan	Academic Press, UK
2	Stature and Build	Encyclopedia of Forensic Sciences-Vol-1	Tanuj Kanchan, Kewal Kishan	Academic Press, UK

Year 2014

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher
1	Fat embolism	Recent Advances in Forensic Medicine & Toxicology.	Dr. Prateek Rastogi	Jaypee Brothers Medical publishers (P) Ltd; New Delhi.015.
2	Asphyxia	Medical Jurisprudence, Toxicology & Forensic Science for class room, Investigation & court room with case laws.	Dr. Prateek Rastogi	All India Reporter Pvt. Ltd; Nagpur.
3	Accidents at work place	Medical Jurisprudence, Toxicology & Forensic Science for class room, Investigation & court room with case laws.	Dr. Prateek Rastogi	All India Reporter Pvt. Ltd; Nagpur.
4	Forensic Serology & Biology	Medical Jurisprudence, Toxicology & Forensic Science for class room, investigation & court room with case laws	Dr. Prateek Rastogi & Dr. Ragahavendra Babu YP	.All India Reporter Pvt.Ltd; Nagpur
5.	Air crash Disaster	Medical Jurisprudence, Toxicology & Forensic Science for class room, investigation & court room with case laws	Dr. Prateek Rastogi & Dr. Ragahavendra Babu YP	All India Reporter Pvt. Ltd; Nagpur

The details of our conference presentations have been listed below.

Year 2012

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Footprint Ridge Density- A New Attribute For Sexual Dimorphism.	Dr. Tanuj Kanchan	64th Annual Scientific Meeting of the American Association of Forensic Sciences (AAFS 2012) held at Atlanta, Georgia, USA from February 20th – 25th, 2012
2.	Sex Differences In Palm Print Ridge Density - A Preliminary Study.	Dr. Tanuj Kanchan	1st Saudi International Conference of Forensic Medical Sciences held at Riyadh, Saudi Arabia from 12th to 14th March
3.	Retrospective postmortem study of insecticide mortality-a study in southern India.	Dr. Prateek Rastogi	50 th Annual Meeting of the International Association of Forensic Toxicologists (TIAFT-2012), at Act City, Hamamatsu, Japan from 3 rd -8 th June 2012
4.	Fatal Poisonings In Rural Southern India – A Retrospective Analysis	Dr. Tanuj Kanchan	50 th Annual Meeting of the International Association of Forensic Toxicologists (TIAFT-2012), at Act City, Hamamatsu, Japan from 3 rd -8 th June 2012
5.	A Retrospective study of gastro-intestinal system related causes of sudden death.	Dr. Prateek Rastogi	22 nd Congress of the International Academy of Legal medicine(IALM-2012) at Istanbul, Turkey from 5 th to 8 th July 2012
6.	Tuberculosis pericarditis a cause of sudden death without pulmonary involvement.	Dr. Jagadish Rao P P	6 th Triennial conference of the European Academy of Forensic Science [EAFS] at Hague, Netherlands from 20 th to 24 th August 2012
7.	Radiological development of Mandibular third molar as an indicator of chronological age in South Indian Population.	Dr. Jagadish Rao P P	21 st International Symposium on the Forensic Sciences, [ANZFSS-2012] at Hobart, Tasmania, Australia from 23 rd to 27 th September 2012
8.	Sex estimation from foramen magnum in an Indian population	Dr. Raghavendra Babu YP	21 st International Symposium on the Forensic Sciences, [ANZFSS-2012] at Hobart, Tasmania, Australia from 23 rd to 27 th September 2012

9.	Central Nervous system related causes of sudden death- A retrospective post mortem study.	Dr. Prateek Rastogi	44 th Annual Conference of Asia Pacific Academic Consortium of Public Health (APACPH) at Colombo, Sri Lanka from 14 th -17 th October 2012.
10.	Deaths among women of reproductive age: A Forensic autopsy study	Dr. Jagadish Rao PP	44 th Annual Conference of Asia Pacific Academic Consortium of Public Health (APACPH) at Colombo, Sri Lanka from 14 th -17 th October 2012.
11.	Death due to clostridial sepsis	Dr. Raghavendra Babu YP	44 th Annual Conference of Asia Pacific Academic Consortium of Public Health (APACPH) at Colombo, Sri Lanka from 14 th -17 th October 2012.
12.	An Accidental Copper Sulphate Poisoning-A Case Report.	Dr. B Suresh Kumar Shetty	11 th Scientific Congress of Asia Pacific Association of Medical Toxicology at Hongkong from November 29 th to 1 st December 2012.

National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Ligature Mark On The Face – An Unusual Finding In Suicidal Hanging.	Dr. Tanuj Kanchan	3 rd Annual Conference of Indian Association of Medico-legal Experts (IAMLE-2012) held at Jaipur, India from February 3rd to 5th, 2012.
2.	Human Rabies following Post exposure prophylaxis Established autopsy investigations	Dr. Jagadish Rao PP	3 rd Annual Conference of Indian Association of Medico-legal Experts (IAMLE-2012) held at Jaipur, India from February 3rd to 5th, 2012.
3.	Traumatic degloving Lesion of External Male Genitalia – A case report.	Dr. B Suresh Kumar Shetty	XXXIII Annual National Conference of Indian Academy of Forensic Medicine (FORENSIC MEDICON – 2012) held at Pt. JNM Medical College, Raipur, Chattisgarh, India from 11th February 2012.
4.	Zinc Phosphide Poisoning – A Case Report.	Dr. Prateek Rastogi	VI Annual National Conference of Indian Society of Toxicology (TOXOCON – 6) at Amrita Institute of Medical Sciences, Kochin, Kerala, India on 27 th May 2012.

5.	Autopsy Analysis Of Zinc Phosphide Poisonings – A Study From Manipal, India	Dr. Tanuj Kanchan	VI Annual National Conference of Indian Society of Toxicology (TOXOCON – 6) at Amrita Institute of Medical Sciences, Kochin, Kerala, India on 27 th May 2012.
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Year 2013

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Postmortem Prolactin in Suicides: Is it an Indicator of Antemortem Stress?	Dr. Tanuj Kanchan	65th Annual Scientific Meeting of the American Association of Forensic Sciences (AAFS 2013) at Washington, DC, USA on February 18th to 23rd, 2013.
2.	Fatal Suicidal Gun Shot Injury	Dr. Prateek Rastogi	9 th Annual Pacific Forensic Psychiatry Conference at Vancouver, Canada on 20 th - 22 nd March 2013.
3.	Mental Health Act Indian Perspective	Dr. Prateek Rastogi	9 th Annual Pacific Forensic Psychiatry Conference at Vancouver Canada on 20 th - 22 nd March 2013.
4.	An unusual case of fatal femoral vessels transection	Dr Raghavendra Babu YP	International Conference of Forensic Sciences (ICFS) 2013 at London on 8th-9th July 2013
5.	Craniometric Analysis of Foramen Magnum for Estimation of Sex.	Dr Tanuj Kanchan	International Conference on Forensic Sciences (IAFS-2013) at London on July 8th to 9th, 2013
6.	Sexual Diamorphism An Odontometric Approach	Dr. Prateek Rastogi	2 nd International Conference on Forensic Research & Technology at Las Vegas, USA on 7 th to 9th October 2013
7.	Meningioma a rare cause of sudden death – a case report.	Dr. Raghavendra Babu YP	2nd International conference of Forensic Research and Technology Las Vegas, NV, USA on 7 th to 9th October 2013
8.	Organophosphorus Poisoning : Pattern and Profile of Autopsied Cases in Mangalore, South India	Dr. B Suresh Kumar Shetty	45 th Annual Conference of Asia Pacific Academic Consortium of Public Health (APACPH) at Wuhan, China on 24th – 27th October 2013.
9.	Curse of the Occult in Fish meal Industry- Lesson to learn	Dr.Jagadish Rao	45 th Annual Conference of Asia Pacific Academic Consortium of Public Health (APACPH) at Wuahn, China on 24 th to 27 th October 2013.

10.	Perceptions of doctors and nurses about Euthanasia in Indian scenario	Dr.Tanuj Kanchan	International Conference on Human and Social Scien Cape Town, South Africa on November 20 to 21, 2013
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National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Variations in cranial suture closure – A case of inconsistencies in age estimation	Dr. Tanuj Kanchan	10th Annual Conference of South India Medico Legal Association (SIMLA) at Bangalore on 27th – 29th September 2013.
2.	Cranio-cerebral injury due to ocular trauma- An unusual case report.	Dr. Prateek Rastogi	XXI Annual State Conference of Karnataka Medico-legal society (FORENSIC MEDICON 2013) at Mysore on 22nd-24th November 2013.

Year 2014

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Cerebral Toxoplasmosis-A Histopathological Diagnosis	Dr. Prateek Rastogi	International Conference on Health Informatics & Health Information Management ICHIHIM 2014 at Rio de Janeiro, Brazil on 27 th -28 th February 2014.
2	.Electrocution- reconstruction of events	Dr.Raghavendra Babu YP	International Conference on Health Informatics & Health Information Management ICHIHIM 2014 at Rio de Janeiro on 27 th -28 th February 2014 March 8th – 10th, 2014.
3	Correlation between footstep length, lower extremities and stature?	Dr. Tanuj Kanchan	6th Conference of Mediterranean Academy of Forensics Sciences (nMAFS) at Porto Sokhna, Egypt on 8 th -10 th March 2014
4	Anthropometry, cephalometry and cranial trait assessment with sexual dimorphism- A preliminary study	Dr Jagadish Rao	Annual congress of International Association of Law and Forensic Sciences (IALFS) & the 1 st International Association of Forensic Toxicologist, Middle East

			Congress at World Trade Center, Dubai on 1 st to 3 rd April 2014.
5	Accidental Ligature Strangulation Due to Electric Chaff Cutter- A Case Report.	Dr. B Suresh Kumar Shetty	22 nd International Symposium on the Forensic Sciences of the Australian and New Zeland Forensic Science Society at Adelaide, South Australia on 31 st August to September 4 th 2014.

National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Fat Embolism- A case Report	Dr. Prateek Rastogi	35 th Annual National Conference of Indian Academy of Forensic Medicine (FORENSIC MEDICON-2014) at Guwahati, Assam on 31 st January-2 nd Feb 2014.
2	Perceptions and practices of nursing professionals towards healthcare ethics – A study from coastal South India	Dr. Tanuj Kanchan	5th International Conference on Legal Medicine, Medical Negligence and Litigation in Medical Practice & 5th International Conference on Current Trends in Forensic Sciences, Forensic Medicine & Toxicology at Goa on 25 th -27 th February 2014
3	Acute Aortic Dissection- A Case of Sudden Death	Dr Prateek Rastogi	11 th Annual Conference of the South India Medicolegal Association (SIMLA 2014 Preconference CME at Coimbatore on 12-14 th September 2014
4.	Cardiac pathology in fatal electrocution.	Dr. Tanuj Kanchan	11 th Annual Conference of the South India Medicolegal Association (SIMLA 2014 Preconference CME at Coimbatore on 12-14 th September 2014
5	Foramen magnum as a tool of estimation of stature in a male population	Dr Raghavendra Babu YP.	11 th Annual Conference of the South India Medicolegal Association (SIMLA 2014) and Preconference CME at Coimbatore on 12-14 th September 2014

12. Placement record of the past students and the contribution of the department to aid studentplacements:

Most of our students have either joined a post-graduate course in our country or have gone abroad for further studies. Some of them start their practice immediately after graduation.

13. Plan of action of the department for the next five years:

- A. Plan to organize a CME every year.
- B. Plan to organize a Police training programme every year.
- C. Promote faculty members and undergraduate students to conduct research work
- D. Promote faculty members and undergraduate students to present scientific papers/posters in conferences and to publish their research work in Journals.
- E. To upgrade the departmental museum and research lab.
- F. To start a post graduation programme in department.

COMMUNITY MEDICINE

1. Faculty profile - adequacy and competency of faculty

There are seventeen teaching faculty members who meet the requirements for MBBS, as per the requirements of the regulatory body. All faculty members are competent.

Sl#	Name of the Staff	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. Unnikrishnan B	MBBS MD	Professor & HOD	14
2.	Dr. Animesh Jain	MBBS MD	Professor	10
3.	Dr. Harsha Kumar H. N.	MBBS MD	Assoc. Prof.	7
4.	Dr. Nitin Joseph	MBBS MD	Assoc. Prof.	7
5.	Dr. Rekha T.	MBBS MD	Assoc. Prof.	7
6.	Dr. Prasanna Mithra P.	MBBS MD	Assoc. Prof.	6
7.	Dr. Nithin Kumar	MBBS MD	Assoc. Prof.	5
8.	Mr. Shashidhara Kotian M.	M Sc. (Statistics)	Selection Grade Lecturer	33
9.	Dr. Vaman Kulkarni	MBBS MD	Asst. Prof.	4
10.	Dr. Ramesh Holla	MBBS MD	Asst. Prof.	3
11.	Dr. Darshan B. B.	MBBS MD	Asst. Prof.	2
12.	Dr. Avinash Kumar	MBBS MD	Asst. Prof.	< 01
13.	Dr. Nikhil Kumar Patnaik R	MBBS	Tutor	< 01
14.	Dr. Sharol L Fernandes	MBBS	Tutor	< 01
15.	Dr. Sirish Gauni	MBBS	Tutor	< 01
16.	Dr. Manasa K N	MBBS	Tutor	< 01
17.	Dr. Manoj Kumar Prasad	MBBS	Tutor	< 01

Category	Sanctioned	Filled
Faculty	12*	12
Tutors	6	5

*Includes two Assistant Professors for the health centres

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by MCI and the department strictly complies with the laid down requirement. The board of studies in Community Medicine has given timely feedback for bringing out changes in the teaching curriculum. The past two years has witnessed several changes in the teaching programme of this department. During medico social case presentations the group of students will first present the seminar on the topic followed by case discussion on the same topic in the lecture halls in front of the whole department during their 3rd clinical postings in the 7th semester. In addition to this group of students in their 3rd clinical postings are trained for incorporating tobacco cessation during case taking in the hospitals. The compulsory short term student research projects involve a group of 6 students who will be doing projects during their 2nd clinical postings in 4th semester. The faculties then guide the same set of students in their 6th semester practical classes for publication of this research projects. The latest innovation being mentoring of a group of students for appreciating evidence based medicine and systematic reviews. This activity is carried out in collaboration with PHESA (Public health evidence South Asia) – a satellite of Cochrane public health group and all faculties has played an important role in this initiative.

4. Trends in the success and drop out rates of students during the past two years

Course	Pass percentage		Drop out rate	
	2012-2013	2013-2014	2012-2013	2013-2014
M.B.B.S	94.9	91	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has a library with 228 books for the use of faculty and students. All faculties and students are provided with lap tops by the university. The campus is Wi-Fi enabled. In addition the department has 3 desk top computers complete with multi-functional printers.

The department has a spacious central laboratory with a seating capacity for 125 students. The laboratory is provided with sinks, adequate water supply, electric points and cupboard for storage of microscope and slides. The laboratory has a total of 35 dissecting microscopes, 6 compound microscopes and 2 binocular microscopes. The laboratory is used for showing students spotters and entomology slides in community medicine. Write ups of all spotters are also arranged in the cup boards. For conducting classes overhead projector and board is provided.

The research laboratory has a computer with a printer, 8 calorimeters, 2 hot air ovens, 1 incubator and water testing facility such as Horrocks apparatus, water analysis test kit and meteorological station. The laboratory was utilized to test the haemoglobin level of blood samples taken randomly from people under the DLHS IV survey of 15 districts of Karnataka in 2013-14.

The department has a Rural Health Training Centre at Asaigoli which is under the administrative control of Dean of KMC, Mangalore. This centre is situated at a distance of 18 Km from the medical college. The centre provides training for students in community oriented primary health care and rural based health education for the rural community in its catchment area. Adequate transport facility (both for staff and students) is provided for carrying out field work like community diagnosis survey for second year MBBS students in the first clinical postings.

For transportation the college provides three buses of 45-50 seats capacity each and two vans of 14 seats capacity each.

Residential facility for interns is provided at CHC Moodabidri and PHC Ullal. There is separate accommodation facility for male and female interns with a mess at both these centres. CHC Moodabidri is situated at a distance of 37 km from the college and PHC Ullal at a distance of 14 km from the college.

The Urban Health Training Centre, Lady Hill is affiliated to the Dept. of Community Medicine. Adequate transport (as mentioned above) is provided for commuting to the staff, interns and students. The other Urban Health Training Centre is situated at Bejai. This centre is under the full administrative control of Dean, KMC Mangalore.

In addition to the above mentioned health centres the Department has health clinics at Shivanagar, Jeppinamogaru, and Bolor areas situated in and around Mangalore city. Transportation facility for commutation of staff and interns are provided by the college. Free medical checkup and free drugs are being provided by the department at these clinics.

6. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasized upon like PowerPoint, Charts and multi-media for the teaching purposes. This is aided by the

teaching and small group teaching is being done for the student along with OSCE and OSPE examination. All the above methods are aided by the relevant videos.

Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character and expression which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience for rendering preventive, curative and rehabilitative health care services in different settings including primary, secondary and tertiary levels. Specific stress is laid on Community Health. The graduate medical education in our department is based primarily on out-patient teaching, emergency departments and in-patients. During the postings the students are encouraged to look at the totality and not just a sum of parts. The students are taught to integrate various system findings and arrive at the diagnosis. While planning the management, aspects of health socio-economics and ethics are stressed upon.

Clinical postings are organized in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical or community cases and exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalization of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Bed-side clinics
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalized world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

7. Participation of teachers in academic and personal counseling of students

Faculties provide time to time and critical feedbacks to the students on their academic matters and also address the personal issues; though there is no formal schedule for the same.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Most of our faculties have attended faculty development programmes pertaining to teaching learning and evaluation in the past two years. All of them have undergone training regarding the same in the past. All faculties regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. Our department faculties are also member of the "Medical Education Unit" which is responsible for conducting various faculty development programmes in the college. The faculties have played a key role in developing the course material for these programmes.

2013

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1.	Dr Nithin Kumar	Medical Education Technologies	19 th to 24 th September 2013	Kasturba Medical College, Mangalore

2014

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Dr. Harsha Kumar H N	Medical Education Technologies	7-9 th August 2014	Medical Education Hall, KMC, Mangalore
2.	Dr Nithin Kumar	Design-National workshop on creating effective MCQs	17 th and 18 th February 2014	Kasturba Medical College, Manipal
3.	Dr.Nitin Joseph	Mentoring	11 th January 2014	Medical Education Hall, KMC, Mangalore
4.	Dr.Nitin Joseph	SOCKS Workshop	22 nd September 2014	MCPD Class room, Health Sciences Library, Manipal
5.	Dr.Nitin Joseph	Integrated teaching – What, Why and How	4 th December 2014	Medical Education Hall, KMC, Mangalore

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching the medical undergraduates, research activities of undergraduates and postgraduates students of various specialties belonging to health and allied health sciences. Also faculties are involved in institutional and extra mural collaborative research consultancies.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Name of the Institute / University	Outcomes of the collaboration
University of Alabama at Birmingham, USA	Research project titled; Global Climate change: “Opinions of school teachers and general population in Mangalore, India”
	Research projects on occupational health – hospital and industry based.
St John’s Research Institute	A school based study to improve the quality of life of school children with bronchial asthma – a clustered randomized trial.
University of Arizona, USA	Quit Tobacco International: Building capacity for Tobacco cessation in India & Indonesia.
Achutha Menon Centre for Health Sciences Studies, SreeChitraTirunal Institute of Medical Sciences & Technology, Trivandrum.	
National Institute of Health & Family Welfare, New Delhi	Clinical, Anthropometric & Biochemical tests as part of District level household survey (DLH-4) for the 15 districts of Karnataka state.
International Institute of	

Population Studies (IIPS), Mumbai.	
Karnataka State AIDS Prevention Society (KSAPS), Bangalore	Establishment of regional centre for continuous mentoring of community care centres for PLHIV
Karnataka Health Promotion Trust, Bangalore	
Indian Institute of Public Health, Gandhinagar	Membership in the External Expert and advisory board.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Priority areas of Research

Infectious disease epidemiology, Non-Communicable, Maternal & Child Health, Environmental and Occupational Health, Health Systems Research are the key areas of interest in the research activities carried out by the department. In addition in the past 2 years the department has had several major research projects and publications in the above stated areas.

A snapshot of our research activities and publication activities in given in the tables below

Ongoing (2015 – 16):

Category	Number
Funded research projects	3
Funded UG research projects	0

Last 2 years (2013-2014):

	2013	2014
Completed funded research projects	3	4
Completed UG research projects	5	7
Publications	International	27
	National	29
Conference presentations	International	5
	National	3

The detailed outline of projects is given below:

Our ongoing (2015 – 16) funded research projects are:

S l #	Title	Principal investigator/ Co-PI	Funding agency	Amount received
1	Feasibility, Working and Translation of Peri-Natal Death Audit System for Improvements in quality of care: A Health Systems Research.	PI: Dr. B. S. Baliga Co PI: Dr. Harsha Kumar HN	ICMR	Rs 14, 25, 631

2	Adolescent Health Care in two districts of Coastal Karnataka- An Exploratory Study	PI : Dr.Asha Hegde Co PI: Dr.B.Unnikrishnan	ICMR Extramural Research Programme	17 Lakhs
3	Training of Health Personnel for implementation of the Non-Communicable Disease Prevention and Control Project in Dakshina Kannada District	PI: Dr. Unnikrishnan B Co. PI: Dr. Vaman Kulkarni	Karnataka Health System Development and Reforms Project (KHSDRP), Govt. of Karnataka	INR. 20,83,950/-

Our ongoing UG research projects are:

Sl#	Title	Name of the student	Guide

Our completed funded research projects are:

2013

Sl#	Title	Faculty Involved	Funding agency	Amount received
1.	A school based Programme to improve quality of life in school children with bronchial asthma at Mangalore, India: a cluster randomized trial.	PI:Dr. Animesh Jain Co PI: Dr. Nitin Joseph	St John's Research Institute, Bangalore, India: NIH Centre of Excellence	Rs 1.30 Lakhs
2.	Occupational history of Exposure to Nicotine dust and risk of carcinoma cervix – A case control study	PI:Dr. Nitin Joseph Co PI: Dr.Animesh Jain, Dr B Unnikrishnan, Mr. M Shashidhar Kotian, Mr. Purushotama, Mrs. Ruth Angeline, Mrs. Sharavathi	Manipal University, Manipal	Rs. 25,000
3.	A community based cross sectional study on the prevalence of pre-hypertension & hypertension and their socio demographic correlates in an urban area of South India	PI:Dr. Prasanna Mithra P Co-PI: Dr.Unnikrishnan B	Monash University, Australia	Rs. 21,000

2014

Sl#	Title	Faculty Involved	Funding agency	Amount received
1.	Quit Tobacco India.	PI: Dr B Unnikrishnan Co PI: Dr. Rekha T Dr. Prasanna Mithra Dr. Nithin Kumar	NIH & Sree Chithra Tirunal Institute for Medical Sciences and Technology	25 Lakhs
2.	Clinical, Anthropometric & Biochemical tests as part of District level household survey (DLHS – 4) of 15 districts of Karnataka state	PI : Dr. B.Unnikrishnan CO PI: Dr.Nithin Kumar Dr.Mohan Kumar Dr.Vaman Kulkarni	Ministry of Health & Family Welfare, Govt of India	13 Lakhs
3.	Study of patterns and associated factors of occupational injuries among the people seeking health care in the urban area of Mangalore.	PI: Dr. Prasanna Mithra P Co PI: Dr. B Unnikrishan	University of Ala Bama at Birmingham (USA) and National Institutes of Health (NIH)	1,30,900
4.	Employer based survey evaluating occupational health safety and policies at workplace in Mangalore, India	PI:Dr. Rekha T Co PI: Dr.B.Unnikrishnan	University of Ala Bama at Birmingham (USA) and National Institutes of Health (NIH)	1,80,000/-

Our completed UG research projects (STS/Manipal University grants) are:

Year 2013

Sl#	Title	Name of the student	Guide
1.	Study of perception & practice of evidence based medicine among health care professionals in Coastal South India. (ICMR-STs)	Mr.Akshay Sethi	Dr. B Unnikrishnan
2.	Health affects of Tobacco containing products among class IV workers in Mangalore City. (ICMR-STs)	Mr.Vijaya Kumar	Mr. M Shashidhar Kotian
3.	Depression and quality of life among patients with type 2 diabetes mellitus in the coastal city of Mangalore, India. (ICMR-STs)	Ms.Malavika Hari	Dr Vaman Kulkarni
4.	Perception and practices of Menstrual Hygiene among adolescent school girls in coastal South India. (ICMR-STs)	Ms.Sushmitha Shetty	Dr Ramesh Holla

5.	Domestic Violence against married women and its impact on their mental health – a cross sectional study. (<i>Manipal Univeristy</i>)	Ms.Shrea Goswami	Dr. Animesh Jain
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Year 2014

SI #	Title	Name of the student	Guide
1.	Patients' Awareness about their Rights among Patients admitted in Teaching Hospitals in South India. (<i>ICMR-STTS</i>)	Ms.Divya Trivedi	Dr.B.Unnikrishnan
2.	Knowledge, Knowledge, attitude and self -reported practice regarding Asthma and adherence to the standard Asthma guidelines among Physicians in Mangalore. (<i>ICMR-STTS</i>)	Ms.Monisha D'Souza	Dr. Animesh Jain
3.	Awareness regarding effect of excess weight on reproductive health among women in Mangalore. (<i>ICMR-STTS</i>)	Ms.Sneha V	Dr. Nitin Joseph
4.	A Study on clinico-epidemiologic profile of pediatric tuberculosis patients attending DOTS centres in Mangalore, India. (<i>ICMR-STTS</i>)	Ms.Divya Chaudhary	Dr. Vaman Kulkarni
5.	Clinico-Epidemiological Profile of Leptospirosis Patients Admitted in Tertiary Care Hospitals of Coastal South India. (<i>ICMR-STTS</i>)	Ms.Latika Pandey	Dr. Ramesh Holla
6.	Health seeking behavior among adolescent students in coastal district of South India. (<i>ICMR-STTS</i>)	Ms.Ankita Singh	Dr. Darshan B B
7.	Quality of life and psychological well-being in women with polycystic ovarian syndrome. (<i>Manipal Univeristy</i>)	Ms.Neha Garg	M. Shashidhar Kotian

Our completed UG non funded research projects are:**Year 2013**

SI#	Title	Guide
1.	Perceptions and practices of clinical faculty towards bedside teaching for undergraduate medical students	Dr. B. Unnikrishnan & Dr. Ramesh Holla
2.	Perception and attitude of medical students towards bedside teaching	Dr. B. Unnikrishnan & Dr. Ramesh Holla
3.	Perception regarding HIV testing and counselling among integrated counselling and testing centre attending a tertiary level hospital	Dr. B. Unnikrishnan & Dr. Ramesh Holla
4.	Perception of health care professionals about fire safety measures in tertiary care teaching hospitals in Mangalore	Dr. B. Unnikrishnan & Dr. Ramesh Holla
5.	Perception of the faculty about research undertaken by medical undergraduates in Mangalore	Dr. B. Unnikrishnan

6.	Perception and attitude regarding communication skills training among medical students	Dr. Animesh Jain
7.	Pattern of opportunistic infections and prevalence of IRIS in HIV-TB co-infected patients in tertiary care hospitals, Mangalore.	Dr. Animesh Jain
8.	Does a doctor's appearance matter? A study among hospital visitors and young medicos.	Dr. Animesh Jain
9.	Awareness and attitude towards research ethics among faculty of Health Sciences	Dr. Animesh Jain
10.	Prevalence of bronchial asthma in primary school children in Mangalore	Dr. Animesh Jain
11.	Hepatitis B Vaccination Status and Post-exposure Prophylaxis Practices among Health Care Workers in teaching hospital in Mangalore	Dr. Harsha Kumar H N
12.	Awareness and Perception about Basic Life Support among Medical Students	Dr. Harsha Kumar H N
13.	A Cross Sectional Study on Frequency of Antenatal Visits and Perceived Barriers for Antenatal Care among Pregnant Women in Mangalore Taluk.	Dr. Harsha Kumar H N
14.	Awareness and consequences of consanguineous marriages – A community based cross sectional study.	Dr. Nitin Joseph
15.	Prevalence, risk factors and treatment of diarrhoeal diseases in a semi urban and rural area of Dakshina Kannada district.	Dr. Nitin Joseph
16.	Awareness, attitude and practices in first aid among school teachers in Mangalore.	Dr. Nitin Joseph
17.	A study on morbidity pattern, quality of life and awareness of government facilities among elderly population in south India	Dr. Nitin Joseph
18.	Perception towards simulation based learning among students of a private medical college in Mangalore.	Dr. Nitin Joseph
19.	Perception and practices of use of E-learning among medical students in Mangalore	Dr. Rekha T
20.	Knowledge, attitude and practices of oral hygiene among healthcare students in Mangalore	Dr. Rekha T
21.	Employer based survey evaluating occupational health safety and policies at workplace in Mangalore	Dr. Rekha T
22.	Perception and practice of informed consent among admitted patients in tertiary care hospital	Dr. Rekha T
23.	Clinico epidemiological profile of malignancies in the tertiary care centres in Mangalore	Dr. Prasanna Mithra P
24.	Profile of occupation related injuries among the patients in tertiary care centres in Mangalore	Dr. Prasanna Mithra P
25.	Profile of occupation related injuries among the patients in tertiary care centres in Mangalore	Dr. Prasanna Mithra P
26.	Patterns and associated factors of occupational injuries among the people seeking health care in Mangalore	Dr. Prasanna Mithra P
27.	Perceptions and practices related to lifestyle modification among diabetes mellitus patients in tertiary care hospitals in Mangalore	Dr. Prasanna Mithra P
28.	Perception and Attitude towards Problem Based Learning (PBL) among teaching faculties in a Medical College in Mangalore	Dr Nithin Kumar

29.	A Study on the Learning Style Preferences of undergraduate students of Kasturba Medical College, Mangalore - A Cross Sectional Study	Dr Nithin Kumar
30.	Study On Gender Preference, Knowledge And Attitude Regarding Prenatal Sex Determination And PNDTA Among Pregnant Women Attending Tertiary Care Hospital In Mangalore	Dr Nithin Kumar
31.	Attitude of Medical Students Regarding Empathy towards Patients in a Medical College in Managalore	Dr Nithin Kumar
32.	Knowledge and Attitude of Medical Students towards Complementary, Alternative and Integrative Medicine	Dr Nithin Kumar
33.	Health promoting life style among non-teaching staff in medical college.	Mr. M Shashidhar Kotian
34.	Knowledge and practices of food handling techniques among undergraduate medical students in Mangalore, Karnataka	Mr. M Shashidhar Kotian & Dr. Vaman Kulkarni
35.	Health promoting lifestyle among medical students of Mangalore	Mr. M Shashidhar Kotian
36.	Psycho social problems faced by adolescent students	Mr. M Shashidhar Kotian
37.	Profile of medical termination of pregnancy seekers in a tertiary care teaching hospital	Mr. M Shashidhar Kotian & Dr. Ramesh Holla
38.	A study on the knowledge and impact of pictorial warnings imposed Under 'The cigarettes and other tobacco products act 2003' in Mangalore city	Dr. Vaman Kulkarni
39.	Awareness of Cervical Cancer and its Prevention among Female College Students in Mangalore	Dr. Vaman Kulkarni
40.	Prevalence and determinants of medical student syndrome among students of a medical college in Mangalore	Dr. Vaman Kulkarni
41.	Premenstrual Syndrome Among Students of a Medical College in Mangalore	Dr. Vaman Kulkarni
42.	Profile of medical termination of pregnancy seekers in a tertiary care teaching hospital.	Dr. Ramesh Holla
43.	Perception of health care professionals about fire safety measures in tertiary care teaching hospitals in Mangalore	Dr. Ramesh Holla
44.	Perception regarding HIV testing and counselling among integrated counselling and testing centre attending a tertiary level hospital	Dr. Ramesh Holla
45.	Perception and attitude of medical students towards bedside teaching	Dr. Ramesh Holla
46.	Perceptions and practices of clinical faculty towards bedside teaching for undergraduate medical students	Dr. Ramesh Holla
47.	A retrospective study to assess the outcome of paid and free anti-retroviral therapy	Dr. Mohan Kumar P
48.	Stressful life events and its association with occurrence of non-communicable disease among clerical staff employed in Manipal University, Mangalore	Dr. Mohan Kumar P

49.	Prevalence & determinants of medical student syndrome among the medical students in Mangalore	Dr. Vaman Kulkarni
50.	Awareness of cervical cancer & its prevention among female students of university colleges in a coastal city of South India	Dr. Mohan Kumar & Dr. Vaman Kulkarni
51.	Perception and felt needs of doctors about under graduate training in psychiatry at a medical college	Dr. Mohan Kumar
52.	Awareness and perception of smokers regarding pictorial warnings on tobacco product in Mangalore city, India	Dr. Vaman Kulkarni

Year 2014

Sl#	Title	Guide
1.	Perception regarding ethics in medical research among teaching faculty of medical college in Mangalore	Dr. B Unnikrishnan & Dr. Darshan B B
2.	Knowledge & utilization of Janani Suraksha Yojana among antenatal mother in a tertiary care hospital	Dr. B Unnikrishnan & Dr. Darshan B B
3.	Association of emotional intelligence with academic performance among medical students – a cross sectional study	Dr. B Unnikrishnan & Dr. Darshan B B
4.	Knowledge & attitude regarding breastfeeding and immunization practices among primigravida mothers in tertiary care hospitals	Dr. B Unnikrishnan & Dr. Darshan B B
5.	Knowledge and Practice regarding foot care among type-2 diabetic patients at tertiary care hospital in Mangalore – A cross sectional study	Dr. B Unnikrishnan / Dr. Darshan B B
6.	Knowledge and Practice regarding foot care among type-2 diabetic patients at tertiary care hospital in Mangalore – A cross sectional study	Dr. B Unnikrishnan / Dr. Darshan B B
7.	Knowledge and Practice regarding foot care among type-2 diabetic patients at tertiary care hospital in Mangalore – A cross sectional study	Dr. B Unnikrishnan / Dr. Darshan B B
8.	Recall and self perceived effectiveness of anti-tobacco advertisement – a cross sectional study	Dr. Animesh Jain
9.	Association of caffeinated drink with sleep cycles of medical students in Mangalore - A cross sectional study	Dr. Animesh Jain
10.	Health behavior and life style among doctors practicing in Mangalore	Dr. Animesh Jain
11.	Effects of maternal hypothyroidism on pregnancy outcome – A record based comparative study	Dr. Animesh Jain
12.	Prevalence of dysmenorrhea and its impact among health sciences students in Mangalore	Dr. Animesh Jain
13.	Profile of sexually transmitted infections in a teaching hospital of a medical college in Mangalore	Dr. Harsha Kumar H N
14.	Learning preferences for research methodology among medial students - A cross sectional study	Dr. Harsha Kumar H N
15.	Knowledge, perception & practice about blood donation among college students in Mangalore city.	Dr. Harsha Kumar H N
16.	Clinical profile of patients with varicose veins in tertiary care	Dr. Nitin Joseph

	hospitals in Mangalore	
17.	Prevalence, severity and risk factors of allergic disorders among people in Mangalore	Dr. Nitin Joseph
18.	Screening of polycystic ovarian syndrome among college students in Mangalore	Dr. Nitin Joseph
19.	Awareness and perception of emergency contraceptives among college students	Dr. Nitin Joseph
20.	Awareness and perception of emergency contraceptives among college students	Dr. Nitin Joseph
21.	Clinical profile of uterine prolapse cases - a hospital record based study	Dr. Nitin Joseph
22.	Breakfast skipping: Proportion and awareness of its effects among medical students	Dr. Rekha T
23.	Knowledge, attitude and practices towards eye donation among college going students of Mangalore	Dr. Rekha T
24.	Assessment for the need of guidance and counseling centres in educational institutions of Mangalore	Dr. Rekha T
25.	Comparative study of mortality trends in tertiary care hospitals	Dr. Rekha T
26.	The correlation between sleep quality and short-term memory among medical students in Mangalore	Dr. Prasanna Mithra P
27.	perception & awareness towards gestational diabetes mellitus (GDM) among antenatal women in tertiary care hospital of Mangalore	Dr. Prasanna Mithra P
28.	Awareness, attitude and practices towards health utilities and hazards due to mobile phone use among the college students in Mangalore	Dr. Prasanna Mithra P
29.	Awareness of breast self examination among college students	Dr. Prasanna Mithra P
30.	Clinico epidemiological profile of patients with Acute Coronary Syndrome (ACS) in tertiary care hospitals of Mangalore	Dr. Prasanna Mithra P
31.	Attitude towards the proposed changes by Medical Council of India (MCI) in MBBS curriculum and mandatory rural posting among medical undergraduate students	Dr. Nithin Kumar
32.	Perception and attitude towards euthanasia among undergraduate students and clinical faculties of a medical college in Mangalore	Dr. Nithin Kumar
33.	Perceptions regarding utility of social networking sites on academic activities among undergraduate students and teaching faculties of a medical college in Mangalore	Dr. Nithin Kumar
34.	Attitude & perceptions among undergraduate students of a Medical College, Mangalore towards psychiatric illness	Dr. Nithin Kumar
35.	Effect of distress and other factors on adherence to antidiabetic medications among type-2 diabetic patients attending tertiary care hospital in Mangalore	Dr. Nithin Kumar
36.	Impact of roommates on academic grades of health sciences students in Mangalore	Mr. M. Shashidhar Kotian
37.	Association between dietary patterns and BMI in medical students - A cross sectional study	Mr. M. Shashidhar Kotian
38.	Awareness of hazards of exposure to sunlight among medical students	Mr. M. Shashidhar Kotian

39.	Factors associated with multiple births – A case control study	Mr. M. Shashidhar Kotian
40.	The clinical profile of dengue fever in Mangalore	Mr. M. Shashidhar Kotian
41.	Proportion and determinants of social anxiety disorder among students of medical college in coastal south India	Dr. Vaman Kulkarni
42.	Awareness of hazards of radiation exposures associated with diagnostics imaging among medical students	Dr. Vaman Kulkarni
43.	Profile of cervical cancer patients attending tertiary care hospital of Mangalore, Karnataka	Dr. Vaman Kulkarni & Dr. Ramesh Holla
44.	Sources & Proportion of stress and burnouts among medical postgraduates in Mangalore, Karnataka, India	Dr. Vaman Kulkarni
45.	Screening for diabetic peripheral neuropathy among patients attending outpatient department of a tertiary care hospital	Dr. Vaman Kulkarni
46.	Screening for post partum depression using Edinburgh post natal depression scale	Dr. Ramesh Holla
47.	Awareness about rabies prophylaxis among medical professionals	Dr. Ramesh Holla
48.	Screening for irritable bowel syndrome among undergraduate medical students	Dr. Ramesh Holla
49.	Profile and outcome of gestational diabetes mellitus in a tertiary care teaching hospital	Dr. Ramesh Holla

The details of our publications are described below.

2013

International:

1. B.Unnikrishnan, Kanchan T, Holla R, Kumar N. Perceptions of Doctors and Nurses about Euthanasia in Indian Scenario. International Journal of Social, Human Science and Engineering 2013; 7(11):947-948.
2. Kumar N, Kanchan T, Unnikrishnan B, Rekha T, Mithra P. Perceptions and Practices of Self-Medication among Medical Students in Coastal South Indi.; PLoS ONE 2013 ; 8(8): e72247.
3. Kumar N, Kanchan T, Unnikrishnan B, Thapar R, Mithra P, Profile of Substance Use among Patients Attending De-Addiction Centres in a Coastal City of Southern India. PLoS ONE 2013;8(2): e57824.
4. Mukund P Srinivasan, Padmanabh K Kamath, Poornima A Manjrekar, B Unnikrishnan, Aishwarya Ullal, Mohammed Faheem Kotekar, Chakrapani Mahabala. Correlation of severity

- of coronary artery disease with insulin resistance. *North American Journal of Medical Sciences* 2013; 5(10):611-614.
5. Narahari SR, Bose KS, Aggithaya MG, Swamy GK, Ryan TJ, Unnikrishnan B, Washington RG, Rao BP, Rajagopala S, Manjula K, Vandana U, Sreemol TA, Rojith M, Salimani SY, Shefuvan M. Community level morbidity control of lymphoedema using self care and integrative treatment in two lymphatic filariasis endemic districts of South India: a non randomized interventional study. *Trans R Soc Trop Med Hyg.* 2013 Sep;107(9):566-77.
 6. Rathnakar UP, Anjali Ganesh, Unnikrishnan B, Srikanth D, Ganesh K, Ashok Shenoy K, Ashwin Kamath. Doctor patient relationship: influence of gender and role. *International Journal of Medical and Pharmaceutical Sciences* 2013; 3 (12): 30-36.
 7. K M Papanna, V Kulkarni, D Tanvi, V Lakshmi, L Kriti, B Unnikrishnan, S Akash, Perception and Preference of Medical Students regarding teaching methods in a Medical College, Mangalore, India. *African Health Sciences* 2013; 13(3): 808-813.
 8. Shenoy A, Ramapuram J T, Unnikrishnan B, Achappa B, Madi D, Rao S, Mahalingam S. Effect of Lipodystrophy on the Quality of life among PLHIV on Highly active Antiretroviral Therapy. *Journal of International Association of Providers of AIDS care* 2013 : 1-5.
 9. T. Rekha, P. Singh, B. Unnikrishnan, P. Prasanna Mithra, N. Kumar, K. D. V. Prasad, V. Raina, M. Kumar Papanna, V. Kulkarni. Sputum collection and disposal among pulmonary tuberculosis patients in coastal South India. *Int J Tuberc Lung Dis* 2013 ;17(5):621–623.
 10. Mohan K. Papanna, Pawan Kumar, Avinash Shetty, Asha Kamath, Unnikrishnan B, Sahoo Saddichha. Client Satisfaction with HIV Counseling Services: A Cross-Sectional Study from South India; *Journal of the International Association of Physicians in AIDS Care* 2013;12(3):169-172.

11. Shetty S, Shenoy N, Shenoy K A, Unnikrishnan B, Mogra S. Comparison of preoperative piroxicam and ibuprofen on pain after separator placement: A randomized controlled trial; J Ortho Res 2013; 1:57-61.
12. Vaman Kulkarni, M.K. Papanna, Upasana Mohanty, Ritika Ranjan, V. Neelima, Nithin Kumar, P. Prasanna Mithra, Ravi P. Upadhyay, B. Unnikrishnan. Awareness of medical students in a medical college in Mangalore, Karnataka, India concerning infection prevention practices; Journal of Infection and Public Health 2013 ;6(4):261-268.
13. Chakrapani Mahabala, Padmanabha Kamath, Unnikrishnan B, Narasimha D Pai, Aparna U Pai, Antihypertensive therapy: nocturnal dippers and nondippers. Do we treat them differently?; Vascular Health and Risk Management 2013;9 : 125 -133.
14. Basavaprabhu Achappa, Deepak Madi, Unnikrishnan B, John T Ramapuram, Satish Rao, Soundarya Mahalingam, Adherence to antiretroviral therapy among people living with HIV; North American Journal of Medical Sciences 2013 ;5(3) : 220-223.
15. Vijairam Selvaraj, Michael W. Ross, B Unnikrishnan, Supriya Hegde, Association of quality of life with major depressive disorder among people with HIV in South India; AIDS Care 2013 ; 25(2) : 169-172.
16. Vinay Narasimha Krishna, Ravish Thunga, B. Unnikrishnan, Tanuj Kanchan, Association between bipolar affective disorder and thyroid dysfunction; Asian Journal of Psychiatry 2013 ;6 (1):42-45.
17. Sanjay Eapen Samuel, Ashok Nayak, M. Shashidhar Kotian, Fear of Falls and Compliance in Exercise Intervention by Community Dwelling Older Adults at Risk of Falling; Int J Health Rehabil Sci2013; 2(1): 8-14.
18. Prateek Rastogi, Ankita Jain, Shashidhar Kotian and Shilpi Rastogi., Sexual Dimorphism-An Odontometric Approach ; Anthropol 1: 104.

19. Ravikiran SR, Baliga BS, Jain A, Kotian MS; Factors influencing the television viewing practices of Indian children; Indian J Pediatr 2013 Aug 14.
20. Puthran S, Vaswani V, Jain A, Kakunje A, Perception about autonomy of patients having psychiatric disorders/illness by psychiatry nursing staff; The International Journal's Research Journal of Social Science and Management 2013; 3: 47 – 53.
21. Chandrashekhar T S, Harsha Kumar H N, John T A, Prevalence of self-reported tuberculosis, knowledge about tuberculosis transmission and its determinants among adults in India: results from a nation-wide cross-sectional household survey; BMC Infectious Diseases 2013; 13:16.
22. Hegde Shruti S, Soundarya P, Harsha Kumar H N; Study of the clinicopathological profile of paediatric haematological malignancies at a tertiary care centre; Journal of Evolution of Medical and Dental Sciences 2013 October; 2 (43): 8438 – 43.
23. Nitin Joseph, Deepak Madi, Ganesh S Kumar, Maria Nelliyanil, Vittal Saralaya, Sharada Rai, Clinical spectrum of rheumatic fever and rheumatic heart disease: A 10 year experience in an urban area of south India; North American Journal of Medical Sciences 2013;5:647-652.
24. Tanuj Kanchan, Prateek Rastogi, Nithin Kumar, Manisha Singh, Tripti, Shamira Naz Ansari; Sudden cardiac deaths- an autopsy analysis from a tertiary care centre in coastal south india; International Journal of Medical Toxicology & Legal Medicine 2013;16(1):1-8.
25. Kulkarni V, Kanchan T, Palanivel C, Papanna MK, Kumar N, Unnikrishnan B; Awareness and practice of road safety measures among undergraduate medical students in a South Indian state; J Forensic Leg Med. 2013 May;20(4):226-9.
26. Narayana DH, Shampur MN, Sampath G, Tripathy RM, Sudarshan MK, Bilugumbe G, Ravish HS, Satapathy DM, Gowda G, Holla R, Belludi AY, Padhi A, Shamanna M, Patel PM, Safety and immunogenicity study of a new purified chick embryo cell rabies vaccine Vaxirab-N (Pitman Moore strain) manufactured in India; Human Vaccines and Immunotherapeutics. 2013 Sep 12;10(1).

27. Tanuj Kanchan, Deepak Madi, B Unnikrishnan, Nithin Kumar, Ramesh Holla, Preetham R Acharya, Dettol poisoning; International Journal of AJ Institute of Medical Sciences. 2013 May 2(1).

National:

1. Pooja Rajashekar, Keshava Pai, Ravish Thunga, B Unnikrishnan. Post-stroke depression and lesion location: A hospital based cross-sectional study: Indian Journal of Psychiatry 2013;55(4):343-348.
2. Rent NH, Bhojwani KM, Bhat JS, Unnikrishnan B, Tinnitus: Characterization of associated hearing loss and modalities of treatment; Indian J Otol 2013;19:182-5.
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The details of our conference presentations have been listed below.

Year 2013

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Teaching faculties perceptions about the research carried out by undergraduate Medical students – Experience of a Mentorship Program in an Indian Medical School.	Dr. B.Unnikrishnan	Association for Medical Education in Europe (AMEE) 2013 Conference, Prague, Czech Republic, 24 th to 28 th August 2013.
2.	Estimation of stature from ULNA	Mr. M. Shashidhar Kotian	2 nd international conference on Forensic Research & Technology, Las vegas,USA, 07-09 October 2013
3.	Prevalence of stress and anxiety among medical students in a coastal south Indian city – Dr Animesh Jain (presenter)	Dr. Animesh Jain & Mr. M Shashidhar Kotian	Asian Association of Social Psychology, Yogyakarta, Indonesia, 21 – 24 Aug 2013
4.	Assessment of awareness and self-management practices among hypertensive patients attending various outreach clinics of a private medical college in south India	Dr. Nitin Joseph	International Cardiology Symposium and Diabetes forum, Dubai, United Arab Emirates, 16th to 18th May 2013
5.	Immunization practices of the Pediatricians for the under-fives in an urban area of South India	Dr. Prasanna Mithra P	South East Asia Regional Scientific Meet of the International Epidemiological Association, Hotel Pokhara Grande, Pokhara, Nepal, 26th to 29th September 2013.

National:

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
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1.	Invited Talk on “ Systematic Review & Metaanalysis”	Dr. B.Unnikrishnan	3 rd Annual Conference of the Indian Association for Statistics in Clinical Trial held at Mumbai from 19 th to 21 st April 2013.
2.	Invited Talk on “ Research Proposals for future priorities in Morbidity control of Lymphatic Filariasis and Integrated Medicine”	Dr. B.Unnikrishnan	6 th National Colloquium on Evidence based Integrative Medicine for Lymphatic Filariasis and other chronic Dermatoses held at Institute of Applied Dermatology, Kasargod from 8 th to 10 th Dec 2013.
3.	Study of unmet need for family planning among pregnant women attending primary health centres	Dr Ramesh Holla	South East Asia Regional Public Health and Indian Public Health association, Kolkata, India, February 1 st -3 rd 2013.

Year 2014

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Knowledge and Practice regarding Foot Care among type 2 Diabetes Mellitus Patients at a Tertiary Care Hospital in costal south India	Dr .B .Unnikrishnan	Public Health Conference 2014, Bangkok. Thailand, 12 th to 14 th July 2014
2.	Perception and Practice of Evidence Based Medicine among Medical Professionals in South India	Dr .B .Unnikrishnan	11 th International Conference on Medical Regulation (IAMRA 2014), London, 9 th to 12 th Sep 2014
3.	Career choice of medical students at Mangalore, India	Dr. Animesh Jain	3rd South East Asian Regional Association of Medical Education Conference, Colombo, Sri Lanka, November 12 - 15, 2014
4.	Patients' preference of Doctor's appearance – A descriptive survey among hospital visitors from southern India	Dr. Animesh Jain	The Network: Towards Unity For Health, Fortaleza, Brazil, November 19 - 23, 2014
5.	A Retrospective Study On The Profile Of Ischaemic Heart Disease [IHD] Cases Admitted In KMC Attavar, Mangalore	Dr. Harsha Kumar H N	4th International Conference on Clinical & Experimental Cardiology, San Antonio, USA, April 14-16, 2014
6.	A study of emotional	Dr. Nitin	International Conference on Health

	intelligence and its association with perceived stress among medical students of first and second year in a private medical college in Mangalore city of south India.	Joseph	Informatics and Health Information Management, Rio de Janeiro, Brazil, Feb 27 to 28, 2014
7.	“Pattern of injuries among children attending a tertiary care hospital of Mangalore city, India”	Dr. Vaman Kulkarni	The 3rd Global Congress for Consensus in Pediatrics & Child Health 2014, Bangkok Thailand, 13 th -16 th February 2014
8.	“Perception and practices of standard precautions among health care professionals at tertiary care hospitals in coastal South India”	Dr. Ramesh Holla	Public Health Conference 2014, Bangkok Thailand, 12th - 14th July 2014
9.	“Association of emotional intelligence with academic performance among medical students in South India ”	Dr Darshan BB	Public Health Conference 2014, Bangkok Thailand, 12th - 14th July 2014

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	The Process of Developing a fully Integrated Tobacco Curriculum in South Indian Medical College.	Dr.B.Unnikrishnan	3 rd National Conference on Tobacco or Health, Mumbai, 15 th Dec 2014.
2.	Invited talk in Plenary session – “Addressing social determinants to bring about equity in health”	Dr. Animesh Jain	58th Annual National Conference of Indian Public Health Association, S.V.Medical College, Tirupati, Andhra Pradesh, 21 st - 24 th January 2014.
3.	“Adherence to Antihypertensive Treatment and Associated Factors among Patients Attending a Tertiary Care Hospital in Mangalore”	Dr Nithin Kumar	58th Annual National Conference of Indian Public Health Association, S.V.Medical College, Tirupati, Andhra Pradesh, 21 st - 24 th January 2014.
4.	“Awareness of Cervical Cancer and its Prevention	Dr. Vaman Kulkarni	IPHA Conference, 2014, Tirupathi, 21 st to 24 th January

	among Female College Students in Mangalore”		2014
5.	“Medical student’s perception towards bedside teaching”	Dr. Ramesh Holla	IAPSM Conference, 2014, Agartala, 6 th to 8 th February 2014
6.	“A study to assess Haemoglobin level among recently delivered mothers in a rural field practice area”	Dr Darshan B B	58th Annual National Conference of Indian Public Health Association, S.V.Medical College, Tirupati, Andhra Pradesh, 21 st - 24 th January 2014.

12. Placement record of the past students and the contribution of the department to aid student placements

The students are taught Community medicine from 1st semester to 7th semester except 5th semester. The students are eligible to sit for the Final MBBS Part 1 exam (7thSem) only after they pass the 2nd MBBS exams. After passing the final MBBS part- I, the students are eligible to appear for the Final MBBS part II examination. Again the students are posted in the Community Medicine Dept during their compulsory rotating internship for 2 months.

Once the students finish their MBBS degree they continue their education either within India or abroad. The previously passed out students have taken up several fields and specialties. The Department contributes to the career of the students with respect to research, rational practice of Medicine, health administration, and Public health importance of the various health related fields and events.

13. Plan of action of the department for the next five years

a. Curriculum:

- a.i. Building on the current foundation, develop a comprehensive Curriculum Implementation Plan with new emphasis on modern methods of teaching like problem based learning.
- a.ii. Optimize the availability and utilization of resources to support student learning (e.g. technology, space), individualized achievement of learning goals and effective teaching to actively improve the success rates in the examination.
- a.iii. Take feedback from the stakeholders and alumni to try and identify areas that need to be strengthened.

- a.iv. Constantly monitor and if necessary design new assessments to evaluate the effectiveness of the teaching programme.
- a.v. Enhance objective evaluation systems for graduate student outcomes assessment.
- b. New initiatives in education:
 - b.i. Start a post-graduate (MD) programme.
 - b.ii. Starting a certificate programme in epidemiology, research methodology and statistical techniques.
 - b.iii. Conduct a greater number of continuing medical education programmes and regional conference.
 - b.iv. Explore the possibilities of starting inter-disciplinary programmes.
- c. Research:
 - c.i. Augment the research activities leading to the publications, thus enhancing the number of publications by at least 50% over the next 5 years.
 - c.ii. Enhancing the number of research publications in indexed and impact factor journals.
 - c.iii. Develop at least one project over the next two years which will receive an external grant and thereafter one every year (total of 4 over the next 5 years).
 - c.iv. Participate in at least 1 inter-departmental research project every year.
 - c.v. Formation of a research cell in the department.
 - c.vi. Conducting a research methodology and advanced statistical technique workshop for capacity building of the professional in the health care sector.
 - c.vii. Further collaboration with international universities and funding agencies.
 - c.viii. Starting a satellite centre for Certificate program in Research methodology and biostatistics in collaboration with Dept of Statistics, Manipal University

d. Faculty development:

- d.i. Faculty will be encouraged to develop teaching portfolios which will serve as effective means of recognizing good teaching with the emphasis on demonstrating excellence.
- d.ii. The faculty will also be trained in newer teaching-learning and evaluation methodologies so that they can easily adapt to changes in the curriculum.

e. Patient care

- e.i. Increasing the drugs and logistics at our health centres and clinics.
- e.ii. Preparation of structured guidelines for case management at all our outreach facilities for the benefit of interns.
- e.iii. Creating a centre for evidence based medicine at the Department.

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1. Faculty profile - adequacy and competency of faculty

There are eight teaching faculty members who meet the requirements for MBBS, and also for postgraduate training as per the requirements of the regulatory body. All faculty members are competent. 4

Faculty list

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Dr.Kiran M. Bhojwani	MBBSMS	Professor&Head	18
2.	Dr.M.Panduranga Kamath	MBBS MS	Professor	25
3.	Dr.Suja Sreedharan	MBBS MS	Prof.	17
4.	Dr. Vijendra Shenoy	MBBS MS	Assoc.Prof.	09
5.	Dr.Raghavendra Rao	MBBS MS	Assoc.Prof.	09
6.	Dr.DeviprasadD	MBBS MS	Assoc.Prof.	08
7.	Dr.Arathi Alva	MBBS MS	Asst.Prof.	06
8.	Dr.Vishnu Prasad	MBBS MS	Senior Resident	02
9.	Dr.Haseena.S	MBBS	Junior Resident	2
10.	Dr.Nazeem Abdul Majeed	MBBS	Junior Resident	2
11.	Dr.Nidhin Prakash	MBBS	Junior Resident	2
12.	Dr.Aswin Mukundan	MBBS	Junior Resident	2
13.	Dr.Neethu Mary Mathew	MBBS	Junior Resident	2
9.	Dr.Jayakrishna Anne	MBBS	Junior Resident	1
10.	Dr.Kanishka	MBBS	Junior Resident	1
11.	Dr.Oj Kukmar Giri	MBBS	Junior Resident	1
12.	Dr.Karthik	MBBS	Junioir Resident	1
13	Dr.Mudru Ajay	MBBS	Junior Resident	<1
14	Dr.Guntu Shobha	MBBS	Junior Resident	<1
15.	Dr.Safeer Mohammed	MBBS	Junior Resident	<1
16.	Dr.Vikranth Kambhoj	MBBS	Junior Resident	<1

Category	Sanctioned	Filled
Teaching staff	6	7
Senior resident	2	1
Junior residents	8	8

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The curriculum followed for both undergraduate and postgraduate training is as per MCI guidelines and notified by the Board of Studies (University Body consisting of faculty members of ENT departments, registrar evaluation)

Significant changes were made in UG clinical teaching program. Each student was given opportunity to present a case & a seminar. Tutorials were started. Log book was evaluated and modified as per teaching schedule. Feedback from UGs was evaluated and necessary actions were taken.

Speciality postings were started for the PGs.

4. Trends in the success and dropout rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2012-2013	2013-2014	2014-2015	2012-2013	2013-2014	2014-2015
MBBS	94	94	94	0	0	0
MS	100	100	100	0	0	0
DLO	100	100	100	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

We have resources in central library numbering 974 books, 10 journals, and 13 online journals pertaining to ENT. We have two departmental libraries with a total of 303 books and 2 audiovisual aids.

We have 4 computers, 2 of which are dedicated to student training.

We have a temporal bone dissection laboratory.

6. Modern teaching methods practiced and use of ICT in teaching - learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients. Every attempt is made to encourage students to participate in group discussions and seminars to

enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience in diagnosing and managing patients with ENT illnesses as well as different settings including primary, secondary and tertiary levels. The graduate medical education in our department is based primarily on out-patient teaching, emergency departments and in-patients. During the postings the students are encouraged to look at the totality and not just a sum of parts. The students are taught to integrate various system findings and arrive at the diagnosis. While planning the management, aspects of health socio-economics and ethics are stressed upon.

Clinics are organised in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills. The department uses the facilities of a clinical skills lab to provide hands on training to students.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical cases and exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Bed-side clinics/Outpatient discussion of short cases
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

7. Participation of teachers in academic and personal counseling of students

There is no formal participation by the faculty of the department with the undergraduate students. Post graduate students are mentored and regularly monitored by faculty.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Two faculty members have taken part in faculty development programmes. The training includes various aspects of teaching- learning and evaluation. One of the department faculty also serves as the member of the “Medical Education Unit” which is responsible for conducting various faculty development programmes in the college.

In addition, all faculty regularly attend various scientific programmes like conference, workshop, symposia and CMEs.

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1.	Dr.Deviprasad	Students evaluation Workshop	30 th and 31 st March 2012	Medical Education Dept. K.M.C, Mangalore
2.	Dr.KiranBhojwani	Medical Education Technologies	9 th to 13 th Oct 2012	Medical Education Dept. K.M.C, Mangalore
3.	Dr.SujaSreedharan Dr.KiranBhojwani Dr.Vijendra Shenoy Dr.Raghavendra Rao	Basic Medical Writing	23 rd June 2012	Medical Education Dept. K.M.C, Mangalore
4	Dr.Vijendra Shenoy	Lesson plan preparations	31 st July 2013	Medical Education Dept. K.M.C, Mangalore
5	Dr.Arathi Alva	Basic workshop on Medical Educations Technologies	19 th to 24 th Sept 2013	Medical Education Dept. K.M.C, Mangalore
6	Dr.Kiran Bhojwani Dr.M.P.kamath Dr.Suja Sreedharan Dr.Vijendra Shenoy Dr.Raghavendra Rao	How to conduct a Journal club	25 th Sept 2013	Medical Education Dept. K.M.C, Mangalore

	Dr.Deviprasad Dr.Vishnuprasad			
7.	Dr.Kiran Bhojwani	Assessment of Learning outcomes, past, present and future	13 th Nov.2013	Medical Education Dept. K.M.C, Mangalore
8.	Dr.Kiran Bhojwani Dr.Suja Sreedharan	Workshop on problem based learning	8 th May 2014	Medical Education Dept. K.M.C, Mangalore
9.	Dr.Vijendra Shenoy	Basic Met workshop	9 th August 2014	Medical Education Dept. K.M.C, Mangalore
10.	Dr.Deviprasad	Integrated teaching – What, why & How ?	4 th December 2014	Medical Education Dept. K.M.C, Mangalore

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All the faculty members are actively involved in undergraduate and postgraduate teaching. All are involved in research.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

No collaboration.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Research is focused on Head and Neck Tuberculosis, and Head and Neck Oncology.

Ongoing:

Category	Number
PG research projects	8
UG research projects	0

Last 3 years (2012-2014):

		2012	2013	2014
Completed PG research projects		3	3	5
Completed UG research projects		1	2	1
Publications	International	2	8	10
	National	1	7	9
Books		0	0	2
Chapters in books		0	0	1
Conference presentations	International	1	0	0
	National	2	5	10

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1.	Predictors of subjective and objective outcomes after fees in chronic Rhinosinusitis	Dr.Jayakrishna Anne	Dr.Suja Sreedharan
2.	Outcomes of Septoplasty in allergic and non – allergic patients	Dr.Karthik K	Dr.Kiran Bhojwani
3.	The effects of endoscopic VS conventional Adenoidectomy on middle ear function	Dr.Oj Kumar Giri	Dr.Vijendra Shenoy
4.	Alterations of plasma lipid profile in oral cancer	Dr.Kanishka Seetharam	Dr.M.P.Kamath
5.	Comparison between microscopic and endoscopic myringotomy with or without grommet insertion	Dr.Mundru Ajay	Dr.Deviprasad.D
6.	Clinicopathological study of lesions of nose and paranasal sinuses	Dr.Guntur Shobha	Dr.M.P.Kamath
7.	Study of bacteriology and durg susceptibility in CSOM	Dr.Safeer Mohammed	Dr.Raghavendra Rao
8.	To evaluate the efficacy of FNAC USG in differentiating between benign and malignancy thyroid nodule	Dr.Vikranth Kambhoj	Dr.Kiran Bhojwani

Our completed PG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1.	Hashimoto’s thyroiditis – a comprehensive study	Dr.Nithin Mittal	Dr.M.P.Kamath
2.	Stroboscopy –formation of a perceptual evaluation tool in voice disorder	Dr.Anshul Garg	Dr.Mahesh Chandra Hegde
3.	Management of tinnitus	Dr.Natashya Hilda Rent	Dr.Kiran Bhojwani

Year 2013

Sl#	Title	Name of the student	Guide
1.	Our experience with percutaneous tracheostomy	Dr.Shahab Ali Usmani	Dr.Suja Sreedharan
2.	Effect of Dexamethasone and Lignocaine on post-Tonsillectomy pain	Dr.Supriya Miriam Kuriakose	Dr.Kiran Bhojwani
3.	Comparison of Efficacy of Myringoplasty with and without cortical mastoidectomy	Dr.Vinay Raj	Dr.M.P.Kamath
4.	Clinical study of deep neck abscesses	Dr.Mubeena	Dr.M.C.Hegde
5.	Hashimoto’s thyroiditis – a comprehensive study	Dr.Tina Thomas	Dr.Suja Sreedharan

Year 2014

Sl#	Title	Name of the student	Guide
1.	Tuberculosis in the Head and Neck region	Dr.Sowjanya Gandla	Dr.M.P.Kamath
2.	Effect of Mastoid drilling on the Distortion product Otoacoustic emission on the non-operated ear	Dr.Siddharth	Dr.Vijendra Shenoy
3.	Treatment response and evaluation of the induction chemotherapy in advanced head and neck malignancy	Dr.S.S.Suhas	Dr.Raghavendra Rao

Our completed UG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1.	Risk factors for voice disorders and its impact on the quality of life in school teachers in Mangalore(ICMR-STs)	Ms.Meghana Machado	Dr.Arathi Alva

Year 2013

Sl#	Title	Name of the student	Guide
1	A comparison of the efficacy of oral Lycopene against a combination of topical hyaluronidase and intralesional triamcinolone in the management of oral submucous fibrosis(ICMR-STs)	Mr.Srivats	Dr.Vijendra Shenoy
2.	Analysis of the Micro-Biological spectrum in Biopsy specimens obtained from Paranasal sinuses in patients with chronic sinusitis(ICMR-STs)	Mr.Ramakrishna n.N	Dr.M.P.Kamath

Year 2014

Sl#	Title	Name of the student	Guide
1.	Human immunodeficiency virus infection does HAART influence ENT manifestations ? (ICMR-STs)	Mr.Vijay Kumar	Dr.Deviprasad

The details of our publications are described below.

Year 2012

International:

1. Kiran M Bhojwani, Mahesh Chandra, ArathiAlva,K.Vishwas
Papillary carcinoma in a lingual thyroid: An unusual presentation,
ENT-Ear, Nose &thorat JournalJuly 2012;91(7):289-291
2. SujaSreedharan,KishoreChandraPrasad,Mahesh Chandra Hegde,Kausalya Sahoo,Arathi Alva
Carcinoma expleomorphic adenoma of the maxillary Sinus: A case report,
ENT-Ear, Nose &thorat JournalDecember 2012; 91(12):E1-3

National:

1. Deviprasad D, Singh R, Nayak, Hazarika P, Manonmani S,Randev P.
A comparision between conventional stapedectomy and KTP-532 laser stapedectomy.
Indian Journal of OtologyJuly 2012;18(3):122-124

Year 2013**International:**

1. Vijendra Shenoy, Kamath MP, Hege MP,Raghavendra Rao,Vijetha V Maller
Cervical Thymic Cyst: A rare Differential diagnosis in Later Neck Swelling
Case reports in Otolaryngology , volume 2013,Article ID 350502 4 pages
2. Vijendra Shenoy,Vinod Maller,vijetha maller
Maxillary Antrolith – A rare cause of recurrent sinusitis
Case reports in Otolaryngology, volume 2013,Article ID 527152, 4 pages
3. Kamath MP,S.Vijendra Shenoy, M.Nirupama.T.Vinay Raj
Hemangioperricytoma : A rare sinonasal tumour
Egyptian journal of Ear,Nose, Thorat and Allied Sciences
4. Vijendra Shenoy, A.Raghavendra Rao,Vishnu Prasad, Supriya Miriam Kuriakose
Rhabdomyoma of Larynx – A Diagnostic Dilemma
Egyptian Journal of Ear, Nose, Thorat and Allied Sciences
5. Navisha Latheef,Vijendra Shenoy, Kamath MP, Hegde MC,ARaghavendra Rao
Maltoma of Thyroid : A rare thyroid tumour
Case reports in Otolaryngology, Volume 2013, Article ID 740241, 3 pages

6. Kamath MP, Vijendra Shenoy, Nithin Mittal, Nitish Sharma
Microbiological Analysis of paranasal sinuses in chronic sinusitis – A South Indian Coastal study
Egyptian Journal of Ear, Nose, throat and Allied Sciences
7. Kamath MP, Hema Kini, Vijendra Shenoy, Deviprasad, Nidhin Prakash, Radha Pai
Schwannoma of tongue – A rare presentation
Egyptian journal of Ear, Nose, Throat and Allied Sciences
8. Kamath MP, Vijendra Shenoy, Nazeem Abdul Majeed, Flora D Lobo
Granular Cell Tumour – A rare laryngeal tumour
Indian Journal of Otolaryngology

National:

1. Suja Sreedharan, Arathi Alva, Kalalakshi Bhat, Nutan Kamath, Mubeena
Our experience with Paediatric Airway,
Karnataka Paediatric Journal Vol.28, No.2 & 3 April-Sept 2013
2. Kamath MP, Suja Sreedharan, A. Raghavendra Rao, Vinay Raj, Krishnan Raju
Success of Myringoplasty : Our experience,
Indian J. Otolaryngology Head Neck Surgery DOI 10.1007/S 12070013-0651-9
3. Kamath MP, Vijendra Shenoy, Surgesh Shenoy, Vishnu Prasad, Aswin Mukundan
Recurrent post cricoid webs in Plummer Vinson syndrome – Is it malignancy next ?
Journal of Evolution of medical and Dental sciences/Volume 21/Issue 35/Sept.2013.
Page No.6748 – 6753
4. Mahesh Chandra Hegde, Vijendra Shenoy, Kamath MP, Raghavendra Rao, Vishnu Prasad
Bindu Sara Varghese
Mobile phones: Its effect on hearing
Indian Journal of Otology/July 2013/vol 19/issue 3
5. Navisha Latheef, Vijendra Shenoy, Kamath MP, Nazeem Abdul Majeed
Necrotic subcutaneous fasciitis – A rare cause of neck swelling in 2 year
Journal of Evolution of medical and dental sciences

6. Natashya H.Rent, Kiran M Bhojwani, Jayashree S.Bhat, B.Unnikrishnan
Tinnitus: Characterization of associated hearing loss of modalities of treatment
Indian Journal of Otolgy.Oct.2013:vol 19(4)1:82-185
7. Nayak DR,Deviprasad D, Parul P,Pujary K, Balakrishnan R, Kamath G
Carotid body tumours: Our experience and review of literature
Odisha Journal of Otorhinolaryngology and HNS,July-Dec-2013:vol-7,Issue -II

Year 2014

International

1. Kamath MP,Vijendra Shenoy,Kiran Bhojwani,Arathi Alva,Vishnu Prasad,Soujanya Gandla
Tuberculosis uin head and neck in India down but not yet dead
Journal of mycobacterial disease,2014,Iss.2, Page N0 1-4
2. Vishnu Prasad,Kishore Chandra Prasad,Vijendra Shenoy,Raghavendra Rao,Kamath MP Soumya V
A study of middle ear reconstruction, the degree of functional restoration and causes of Graft failure following chronic diseases
Egyptian Journal of ear, nose,Throat and allied sciences,2014, vol 15, page No.267-270
3. Kamath MP, Vijendra Shenoy, Flora D Lobo, Nazeem Abdul Majeed
Granular cell tumour A rare laryngeal tumour
Iranian journal of otolaryngology,2014,vol26(4),Page No.267-270
4. Kamath MP,Vijendra Shenoy, Jyothi Kini, Aswin Mukundan
Lobular capillary Hemangioma of the nasal septum – A case report
Egyptian journal of Ear nose , throat and Allied sciences,2014,vol.15,page No.255-257
5. Kamath MP,Kiran Bhojwani,Chakrapani.M,Vidhyalaxmi,Vishnuprasad
Meliodosis of salivary glands with coexisting diabetes –Management of difficult case
Ear Nose, Thorat Journal,2014, vol 93,Iss.1
6. Kamath MP,Kiran Bhojwani,Ajay J Bhandarkar, Radha M Pai, Natashya H.Rent
Angiolymphnoid hyperplasia with Eosinophilia of root of Nose: A rare phenomenon
Journal of clinical research and diagnostic research,2014,vol.8,Page No.144-145

7. Deviprasad, Ashok Shetty, Panduranga Kamath, Kiran M Bhojwani, Miriam Kuriakose, Supriya
Neck Swelling: Unusual manifestation of Pott's spine
Egyptian Journal of Ear, nose and Throat and allied Sciences, 2014, vol.15, Page No 135-137
8. Measuring Vestibular Evoked Myogenic Potential using 2 different procedure
Kiran M Bhojwani, Kaushlendra Kumar, Jayashree Bhat, Nimalka Maria sequiera
Internal journal of speech and language Pathology and Audiology, 2014, vol.2, page No.132-137
9. Suja Sreedharan, Hegde MC, Abhijit Kumar, Gopalakrishna Bhat
Oral Microflora : A Comparative study in HIV and normal patients
Indian J Otolaryngology Head Neck Surgery, 2014, vol.66, Page No.126-132
- 10 Kamath MP, Hema Kini, S.Vijendra Shenoy, Deviprasad, Nidhin Praksh, Radha Pai
Schwannoma of the base of tongue – A rare presentation
Egyptian Society of Ear, Nose, Throat and Allied Sciences, 2014, vol.15, page No 61-64

National:

1. Kamath MP, Vijendra Shenoy, Vishnu Prasad, Kiran Bhojwani, Radha Pai, Neethu Mary Mathew
Inverted papilloma of atypical origin with unusual extension in to the oropharynx
Journal of cancer research and therapeutics
2. Vijendra Shenoy, S.Kamath MP, Suja Sreedharan, Suhas S.S.
Adenoid cystic carcinoma of parotid Gland associated with salivary calculi – An unusual
Presentation
Journal of cancer research and therapeutics
3. Vijendra Shenoy, Raghavendra Rao, Vishnu Prasad, Neethu Mary Mathew
Synchronous bony and head and neck malignancies – a rare presentation
Otolaryngology online Journal, 2014, vol 4, Iss.3
4. Vishnu Prasad, Vijendra Shenoy, Kamath MP, Santhosh Rai P.V, Neethu May Mathew
An unsuspected foreign body: How we managed it
Muller Journal of medical sciences and research, 2014, vol 6, Iss.1., page No.81-83
5. Kamath MP, Rojas Mathew, Vishnu Prasad, Vijendra Shenoy, Raghavendra Rao, Anu George, Haseena A
A clinical study of recurrent Aphthous stomatitis an assessment of multiple ecological factors

Journal of evolution of medical and dental sciences,2014,vol.3,Iss.64

6. Vijendra Shenoy, Raghavendra Rao, Vishnuprasad, Kamath MP, Kanishka Rao
Soft tissue myxoma – A rare differential diagnosis of localized oral cavity lesions
Journal of clinical and diagnostic research,2014,vol.8,Iss.12,Page No.1 - 2
7. Kamath MP, Dr.Vijendra Shenoy,S.Nirupama, Chakrapani, Vishnu Prasad,Nazeem A Majeed
Tuberculosis of waldeyer’s ring with an atypical presentation as chronic adenotonsillitis
Journal of clinical and diagnostic research,2014,vol.5,Iss 1,Page No.5 - 10
8. Vishnuprasad,Sowmya, Venkataramanan, R
Analysis of retinal nerve fiber layer thickness using optical coherence tomography in normal South Indian population
Muller Journal of medical science and Research,2014,vol.5,Iss 1,Page No 5 -10
9. Tina Thomas, Suja Sreedharan, Urmila N.Khadilkar, Deviprasad D, Kamath MP,Kiran Bhojwani, Arathi Alva
Clinical, biochemical and cytomorphologic study on Hasimoto’s thyroiditis
Indian J Med Res 140, December 2014 PP 729-735

The details of our conference presentations have been listed below.

Year 2012

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Laryngeal Duplication Cyst – A cause of Stridor in the Newborn	Dr.Suja Sreedharan	5 th International congress of World Voice Consortium, Luxor, Egypt.

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Extensive Multicentric tuberculosis	Dr.M.P.Kamath	Fusion Radio ENT 2012,Rajarajeswari Medical College and Hospital, Bangalore
2.	An Assessment of Multifactorial Etiology for Sensory Neural Hearing Loss in Chronic Kidney Disease	Dr.Devi Prasad	21 st Annual conerence “ISOCON KOLKATA 2012, Swabhumi and Apollo Gleneagles Hospital, Kolkata

Year 2013

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Haemangiopericytoma – A rare sinonasal tumour	Dr.M.P.Kamath	31 st Karnataka State conference of Association of Otolaryngology of India AOIKCON 2013
2.	Presented a paper on Unusual case presentations of Schwannoma in the head and neck region	Dr.Kiran Bhojwani	AOICON 2013 & 65 TH Annual conference of the Association of Otolaryngologists of India
3.	Laryngeal papillomatosis	Dr.Vijendra Shenoy	31 st Karnataka State conference of Association of Otolaryngology of India AOIKCON 2013
4.	Invasive Fungal sinusitis in an uraemic patient	Dr.Raghavendra Rao	31 st Karnataka State conference of Association of Otolaryngology of India AOIKCON 2013
5.	Knowledge, attitude and practice of ear care in coastal Karnataka	Dr.Deviprasad	21 st ISOCON , Bangalore

Year 2014

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Squamous cell carcinoma of thyroglossal duct cyst	Dr.Kiran M Bhojwani	14 th Annual conference of the foundation of Head-Neck Oncology, Chandigarh
2.	Role of electronystagmography in balance disorders – A clinical study	Dr.M.P.Kamath	23 rd Annual conference of the Indian Society of Otolaryngology, Chennai
3.	Primary clear cell carcinoma of the Nasopharynx	Dr.Suja Sreedharan	14 th Annual conference of the foundation of Head-Neck Oncology, Chandigarh
4.	Is pterygopalatine infiltrations with adrenaline effective in reducing bleeding during fess ?	Dr.Vijendra Shenoy	10 th South Zone and 32 rd Karnataka state Annual conference 2014, Bangalore

5.	Effect of Mastoid drilling on distortion product otoacoustic emission in the nonoperated ear?	Dr.Vijendra Shenoy	23 rd Annual conference of the Indian Society of Otolaryngology,Chennai
6	Mobile Phones – Its effect on the hearing	Dr.Raghavendra Rao	23 rd Annual conference of the Indian Society of Otolaryngology,Chennai
7	A rare polyp arising from base of tongue	Dr.Deviprasad	AOICON 2014 & 66 th National Conference of the Association of Otolaryngologists of India, Mysore
8	Vertigo on swallowing: an unusual symptom of parapharyngeal tumour	Dr.Deviprasad	10 th South zone and 32 nd Karnataka state Annual conference 2014, Bangalore.
9	Rhinospiridiosis – A tropical disease of lateral pharyngeal wall and chaired a session on Rhinoplasty	Dr.Vishnuprasad	10 th South zone and 32 nd Karnataka state Annual conference 2014, Bangalore
10	Adenoid Cystic Carcinoma – A rare differential diagnosis of a mass in the external auditory canal	Dr.Vishnuprasad	23 rd Annual conference of the Indian Society of Otolaryngology,Chennai

12. Placement record of the past students and the contribution of the department to aid student placements

Under Graduates: Our students after clearing the final exams go on to do 1 year of compulsory rotating internship. The subject taught by us is vital for their work in internship, in the preparation for post-graduate placements, and also for general practice. Many of our students are placed in various post-graduate programs in India, and abroad.

Post Graduates: the post graduate program in our institute is highly acclaimed. Our students are trained to deal with diagnostic and surgical challenges. They are encouraged to participate in various national and international conferences and hands-on workshops, and are made familiar with the latest innovations in the field. They are actively involved in the planning and organizing of workshops and CMEs conducted by our department. They also participate in undergraduate teaching. After completing the course, they head into various fields including teaching, research and practice within and outside the country. Our students are currently placed in many prominent positions in various institutes.

13. Plan of action of the department for the next five years

- i. The department plans to specialize and focus in certain areas of clinical sub specialties such as voice related problems (voice clinic) and phonosurgery.
- ii. We also plan to conduct more CMEs and live surgery workshops in the future.
- iii. The faculty will be encouraged to participate in more national and international workshop and conferences.
- iv. The faculty will also be trained in newer teaching-learning and evaluation methodologies so that they can easily adapt to changes in the curriculum.
- v. We plan to increase the number of publications, and also augment the original research activities from our department.
- vi. We plan to expand on the existing interdisciplinary teaching programmes and to conduct them on a regular basis.

OPHTHALMOLOGY

1. Faculty profile - adequacy and competency of faculty

There are eight teaching faculty members who meet the requirements for MBBS and postgraduate training programmes, as per the requirements of the regulatory body. All faculty members are competent.

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Dr. Sumana J Kamath	MBBS MS	Professor & Head	22
2	Dr. M. Gurudutt Kamath	MBBS DO, MS	Professor	32
3	Dr. M. Manjunath Kamath	MBBS DO, MS	Professor	25
4	Dr. Shobha G Pai	MBBS DO, MS	Addl.Prof.	18
5	Dr. Ajay R Kamath	MBBS MS	Assoc. Prof.	21
6	Dr. Rajesh R Nayak	MBBS MS, DNB, FRCS	Assoc. Prof.	13
7	Dr. Susan D'Souza	DO	Senior Resident	07
8.	Dr Abin Holla	MBBS MS	Senior Resident	02
9	Dr. Madhurima K Nayak	MBBS MS	Senior Resident	<01
10	Dr. Bindu Madhavi M	MBBS	Junior Resident	02
11	Dr. Vignesh Shenoy Belle	MBBS	Junior Resident	02
12	Dr. Chanda Sethia	MBBS	Junior Resident	02
13	Dr. Trisha Sharma	MBBS	Junior Resident	02
14	Dr. Garud Ajita Prakash	MBBS	Junior Resident	02
15	Dr. Harish K	MBBS	Junior Resident	01
16	Dr. Shylesh Dabke	MBBS	Junior Resident	01
17	Dr. Marthala Himabindu	MBBS	Junior Resident	01
18	Dr. Vasuraj	MBBS	Junior Resident	01
19	Dr. Ruchi Pratapsingh	MBBS	Junior Resident	01
20	Dr. Menon Rahul Radhakrishnan	MBBS	Junior Resident	01
21	Dr. Chethana G.R	MBBS	Junior Resident	<01
22	Dr. Kalary Jayanthi	MBBS	Junior Resident	<01
23	Dr. Gloria George Thandiakkal	MBBS	Junior Resident	<01
24	Dr. Umesh Krishna	MBBS	Junior Resident	<01
25	Dr. Usha Bhanu Kommineni	MBBS	Junior Resident	<01
26	Dr. Neha Singh	MBBS	Junior Resident	<01

All faculty have competency as laid down by MCI

Category	Sanctioned	Filled
Teaching staff	06	06
Senior resident	03	02
Junior resident	05 + 01	11

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.

The curriculum followed for both undergraduate and postgraduate training is as per MCI guidelines and notified by the Board of Studies (University Body consisting of faculty members of Ophthalmology departments, registrar evaluation)

Significant changes were made in UG clinical teaching program. Each student was given opportunity to present a case. Micro teaching was started with an opportunity given to the students to present the topics by turns. Feedback from UGs was evaluated and necessary actions were taken

Speciality postings to be started for the PGs

4. Trends in the success and drop out rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2012-2013	2013-2014	2014-2015	2012-2013	2013-2014	2014-2015
MBBS	99.7%	91.4%	94.5%	0	0	0
DO	100%	-	100%	0	0	0
MS	100%	100%	100%	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The department library is well equipped with 135 reference books. Further reference books and journals are also available in the college central library.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition, the department also has 2 desktop computers complete with multi-functional printers.

Classroom is provided in the OPD.

PG classes are taken in Sushruta hall, which is well equipped with modern teaching methods. Wet lab facilities are available for Post graduates students to aid in surgical training.

6. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with, lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience in diagnosing and managing patients with Ophthalmic diseases as well as different settings including primary, secondary and tertiary levels. Specific stress is laid on Community Health. The graduate medical education in our department is based primarily on out-patient and in-patient teaching; and management of emergency ophthalmic conditions. A wet-lab is provided for hands on training in various surgical procedures. Surgeries are demonstrated live in the OT to which the students are given access. CC monitors are also available which aid in teaching. Various quizzes are also conducted for the students. During the postings the students are encouraged to look at the totality and not just a sum of parts. The students are taught to integrate various system findings and arrive at the diagnosis. While planning the management, aspects of health socio-economics and ethics are stressed upon.

Clinics are organised in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills. The department uses the facilities of a clinical skills lab to provide hands on training to students.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical or community cases and

exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Out patient clinical teaching
- Bed-side clinics
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the department which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

7. Participation of teachers in academic and personal counseling of students

All teachers are engaged in actively teaching both undergraduates & postgraduates. Every attempt is made to make the topic lucid and interesting. Students are encouraged to clarify their doubts both during the lectures or later. Slow learners are given special attention to overcome their learning difficulties.

Wet lab functions under the supervision of faculty. The postgraduates undertake their prescribed dissertation work under the guidance of their allotted guide and also do voluntary research projects under different faculty. Faculty also encourages students to undertake ICMR, STS and Manipal University approved short term studies. Postgraduates

are encouraged to do minor projects and present papers/ posters during national and international conferences. They are also guided by faculty to publish quality papers in national and international indexed journals.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

One of our faculty have attended faculty development programmes pertaining to teaching-learning and evaluation and also research methodologies in the past two years conducted by the Medical Education Unit of our college. Other faculty have undergone training regarding the same in the past. All faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years, faculty have attended at least 20 such programmes.

One of the department faculty serves as the member of the “Medical Education Unit” which is responsible for conducting various faculty development programmes in the college. The faculty has played a key role in developing the course material for these programmes.

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Dr. Susan D'Souza	Medical Education Technologies	9 th – 13 th October 2012	Medical Education Unit, KMC, Mangaluru
2	Dr. Rajesh R Nayak Dr. Priyansha Multani	Lesson Plan preparation	31 st July 2013	Medical Education Unit, KMC, Mangaluru
3	Dr. Shobha G Pai	How to Conduct Journal club	25 th September 2013	Medical Education Unit, KMC, Mangaluru
4	Dr. Shobha G Pai	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Medical Education Unit, KMC, Mangaluru
5	Dr. Rajesh R Nayak	Medical Education Technologies	7 th – 9 th August 2014	Medical Education Unit, KMC, Mangaluru
6	Dr. Shobha G Pai Dr. Susan D'Souza Dr. Abin Holla	Hands on workshop on “Effective use of Power point”	21 st November 2014	Medical Education Unit, KMC, Mangaluru
7	Dr. Sumana J Kamath Dr. Shobha G Pai	Workshop on Integrated Teaching What, Why & How	4 th December 2014	Medical Education Unit, KMC, Mangaluru

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research. The department assists the faculty and the students of our department to carry out research & dissertation projects.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

The faculty have jointly done minor projects and published scientific articles in various international/ national indexed journals in collaboration with department of Physiology.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Priority areas for Research: Cataract, Diabetes and eye, Glaucoma, Squint, Neuro Ophthalmology, Cornea

A snapshot of our research activities and publication activities in given in the tables below:

Ongoing:

Category	Number
Funded research projects	1
PG research projects	10

Last 3 years (2012 – 2014):

	2012	2013	2014
Completed PG research projects	4	4	4
Completed UG research projects	0	0	1
Publications	International	03	02
	National	0	07
Books	0	0	0
Chapters in books	0	0	0
Conference presentations	International	02	0
	National	14	20

The detailed outline of projects is given below:

Our on- going funded research projects are:

Sl#	Title	Principal Investigator	Funding agency	Total amount received
1.	Retinopathy of prematurity	Dr. Sumana J Kamath	Manipal University	Rs. 12,000

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1.	Ocular Manifestations in Rheumatoid Diseases	Dr. Menon Rahul Radhakrishnan	Dr. Sumana J Kamath
2.	A clinical study of Amblyopia	Dr. Marthala Himabindu	Dr. M. Gurudutt Kamath
3.	Comparision of Conventional External Dacryocystorhinostomy done using figure of Eight Vertical Matteress suture Technique	Dr. Shylesh Dabke	Dr. M. Manjunath Kamath
4.	Estimation of central corneal thickness in diabetics and non diabetics when measured with spectral domain optical coherence tomography.	Dr. Vasuraj	Dr. Shobha G Pai
5.	Astigmatic profile induced by superior vs. temporal clear corneal incision in phacoemulsification.	Dr. Gour Ruchi Pratapsingh	Dr. Ajay R Kamath
6.	Prevalence of refractive errors in school children of 7 – 15 years age group in the field practice area of a private medical college, Mangalore.	Dr. Umesh Krishna	Dr. Sumana J Kamath
7.	Clinical evaluation of AV pattern strabismus	Dr. Kalary Jayanthi	Dr. M. Gurudutt Kamath
8.	A study on central corneal thickness over a cross section of normal population.	Dr. Gloria George	Dr. M. Manjunath Kamath
9.	Visual outcomes of cataract surgery in diabetic patients	Dr. Neha Singh	Dr. Shobha G Pai
10.	Comparision between sutureless and gluefree versus sutured limbal conjunctival autograft for pterygium surgery	Dr. Usha Bhanu Kommineni	Dr. Rajesh R Nayak

Our completed PG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1.	A Correlation between clinical, FFA and OCT findings in clinically significant diabetic Macular edema.	Dr. Rathi Nishant Sathish	Dr. Sumana J Kamath
2.	A Clinical Study on Concomitant Esotropias in Children	Dr. Priyansha Multani	Dr. M. Gurudutt Kamath
3.	A Study of the role of B Scan in evaluation of posterior segment pathology	Dr. Shubashree Karat	Dr. Manjunath Kamath
4.	A Clinical study of branch retinal vein occlusion	Dr. Jayashree K	Dr. Ajay R Kamath

Year 2013

Sl#	Title	Name of the student	Guide
1.	Macular Status in retinal vein occlusion by OCT	Dr. Shiveta Gupta	Dr. Sumana J Kamath
2	Study of glaucoma in post operative patient using steroid eye drops	Dr. Poojary Sushma Sadashiva	Dr. M. Gurudutt Kamath
3	Retinal nerve fibre layer thickenss in glaucoma by optical coherence tomography	Dr. Deepa Jose	Dr. Shobha G Pai
4	Comparison of SDOCT verses FFA as a primary investigative tool in acute central serous chorioretinopathy	Dr. Jagarlamudi Anil Seshu Kumar	Dr. Anupama Karanth

Year 2014

Sl#	Title	Name of the student	Guide
1.	Central conreal thickness by optical coherence tomography in glaucomatous and non-glaucomatous eyes	Dr. Madhurima K Nayak	Dr. Sumana J Kamath
2.	Changes in centralcorneal thickness after smallnceision cataract surgery_an OCT study	Dr. Roopashree	Dr. M. Gurudutt Kamath
3.	Intravitreal triamcilone for diabetic macular edema – An OCT study	Dr. Vishwaraj C.	Dr. M. Manjunath Kamath R
4	Peri-papillary retinal nerve fibre layer thickness in myopes measured by optical coherence tomography	Dr. Lakshey Dudeja	Dr. Ajay R Kamath

Our completed UG research projects are:**Year 2014:**

Sl#	Title	Name of the student	Guide
1.	Age related irido corneal angle changes in normal & Glaucomatous Eyes using anterior segment optical coherence tomography	Mr. Siddharth Kackar	Dr. Sumana J Kamath

The details of our publications are described below.**Year 2013:****International:**

1. Sumana J Kamath, Roopashree and Vishwaraj

Oculodermal Melanocytosis

International Journal of Bioassays, ISSN 2278-778X, 2013, Pg. No 1290 – 1292.

2. Shobha G Pai, M Gurudutt Kamath, Roopashree
Central Serous retinopathy in pregnancy
International Journal of Bioassays, 2013 02 (09), 1190 – 1192. ISSN 2278 – 778X.
3. Panchami, Sheila R Pai, Nayanatara AK, Akshay Pai and Shobha Pai
Association of body mass index, Atherogenic index and serum lipid markers with intraocular pressure in postmenopausal Indian women.
International Journal of Pharmaceutical, Chemical and Biological Sciences (IJPCBS) 2013,3 (3), 849-853. ISSN: 2249-9504.

National:

1. Pai SG, Kamath SJ, D'Souza S, Dudeja L
A clinical study of blunt ocular trauma in a tertiary care centre.
Online J Health Allied Scs. 2013:12(2):10.
2. Nayak RR, Kamath GM, Kamath MM, Kamath AR, D'Souza S, Roopashree
Ocular surface squamous neoplasia in Xeroderma pigmentosum
Online J Health Scs. Vol:12, Issue 3: (Jul – Sep 2013)
3. Kamath AR, Kamath MM, Kamath GM, Nayak MA
Sebaceous carcinoma of the Eyelid
Online J Health Scs. 2013:12(2):16

Year 2014:

International:

1. Gurudutt M Kamath, Madhurima A Nayak & Lakshey Dudeja
Anteriorly dislocated lens in Weil Marchesani syndrome
International Journal of Bioassays, 2014, 3(06), 3048-3050
2. Pai Shobha G Pai Sheila R, Kini Jyothi, Nayak Madhurima J, Pai G Ajay
A comparative study of tear film function and tear secretion among diabetics:
International Journal of Bioassays, September 2014: vol 3, Issue 9,: pg 3291-3296

National:

1. Sumana J Kamath, Priyansha Multani, Madhurima A Nayak
Posterior reversible encephalopathy syndrome
Journal of Clinical Ophthalmology & Research May – August 2014: Vol 2: Issue 2
2. Sumana J Kamath, Gurudutt Kamath, Roopashree
Bilateral simultaneous central retinal vein occlusion presenting as retinal manifestations of multiple myeloma

- Online Journal of Health & Allied Scs. Vol 13: Issue 2 April – June 2014.
3. Sumana J Kamath, Madhurima A Nayak, Flora D.Lobo
Acquired Horner’s syndrome in an infant : A case report
Muller Journal of Medical Sciences & Research: Vol 5:Issue 2: July – Dec 2014.
 4. Rathika D. Shenoy, Deepthi R.V, Nutan Kamath & Sumana J Kamath
Developmental delay in childhood cataract: A caveat marineasco-sjogren syndrome
Nitte University Journal of Health Science: Vol-4: No-3, September 2014. ISSN 2249-7110.
 5. Pai Shobha G, Nayak Madhurima, Shenoy Vignesah, Dudeja Lakshey
Bleeding Eye
Delhi Journal Ophthalmology 2014:24(4): 283
 6. Nayak RR, Kamath AR, Nayak MA, Kamath GM, Kamath MM, D’Souza S
Role of out reach camps in reducing the burden of cataracts in South India
Online Journal of Health & Allied Sciences 2014: 13 (1) 5: ISSN 0972 – 5997
 7. Kamath MM, Kamath GK, Kamath AR, Nayak RR, D’Souza S, Sharma T
The baffling case of bilateral luxated globes
Delhi Journal of Ophthalmology 2014:25(2):139-140. ISSN0976-2892

The details of our conference presentations have been listed below:

Year 2012:

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Retinoblastoma masquerading as Endophthalmitis	Dr. M. Gurudutt Kamath	World Ophthalmology Congress – 2012 at Abu Dhabi from 6 th to 20 th February 12
2	Incidence of ROP at Government Wenlock Hospital in Mangalore	Dr. M Manjunath Kamath	3 rd World ROP conference at Shanghai China from 14 th – 16 th October 12
3	CSR - a rare presentation in pregnancy	Dr. Shobha G Pai	World Ophthalmology Congress – 2012 at Abu Dhabi from 6 th to 20 th February 12
4	Ocular manifestation of Dirofilaria repens	Dr. Rajesh R Nayak	World Ophthalmology Congress – 2012 at Abu Dhabi from 6 th to 20 th February 12

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Schwannoma Associated Horner’s syndrome	Dr. Sumana J Kamath	All India Ophthalmological Society at Cochin from 2 nd - 5 th February 12

2	A rare case mimicking the exact diagnostic sign of Foster Kennedy Syndrome.	Dr. Sumana J Kamath	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
3	A clinical study of blunt ocular trauma in a tertiary care Centre.	Dr. Sumana J Kamath	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
4	Late presentation of adenocarcinoma breast as retinal detachment	Dr. M. Gurudutt Kamath	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
5	Weill Marchesani syndrome in elderly	Dr. M. Gurudutt Kamath	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
6	Pulsatile proptosis in cranio-orbital-temporal neurofibromatosis	Dr. Anupama Karanth	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
7	CSR - a rare presentation in pregnancy	Dr. Shobha G Pai	Focus – 2012 at Mumbai 3 rd – 5 th August 12
8	Role of KF ring in diagnosis of Wilson disease	Dr. Shobha G Pai	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
9	Aniridia a paraocular disease	Dr. Anupama Karanth	All India Ophthalmological Society at Cochin from 2 nd - 5 th February 12
10	Comparison of SDOCT and FFA as a primary investigative tool in acute central serous chorioretinopathy	Dr. Anupama Karanth	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
11	Abnormal Foveal Morphology In Acute Lightning Maculopathy Imaged By Spectral Domain Optical Coherence Tomography	Dr. Anupama Karanth	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
12	Shifting The focus Towards anterior segment and adnexal diseases in HIV	Dr. Anupama Karanth	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
13	Punctum sparing canaliculotomy in a case of mixed infection canaliculitis	Dr. Anupama Karanth	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12

14	Role of SDOCT in pituitary lesions	Dr. Anupama Karanth	Karnataka State Ophthalmic Society 2012 at Bijapur 2 nd – 4 th November 12
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Year 2013

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Intravitreal Triamcinolone for DME: an Optical Coherence Tomography (OCT) study	Dr. M. Manjunath Kamath	International Ophthalmology Conference at Muscat Sultanate of Oman from 12 th -14 th December 2013.
2	Evaluation for diabetic retinopathy by clinic based physician vs hospital based physician referring to an Ophthalmologist	Dr. Susan D'Souza	IDF WDC 2013 at Melbourne, Australia from 2 nd - 6 th December 2013

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Bilateral simultaneous central retinal vein occlusion - A rare case report	Dr. Sumana J Kamath	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
2	The correlation between clinical, fundus fluorescein angiography and optical coherence tomography findings in clinically significant diabetic macular edema	Dr. Sumana J Kamath	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
3	A clinical study of penetrating ocular trauma and its final visual outcome in a tertiary care centre	Dr. Sumana J Kamath	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
4	Acquired horner's syndrome in an infant - a case report	Dr. Sumana J Kamath	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
5	Macular status in retinal vein occlusion: Optical coherence tomography study	Dr. Sumana J Kamath	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
6	Ocular disorders and visual dysfunction in children with neurodevelopmental delay	Dr. Sumana J Kamath	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
7	Central corneal thickness by SD-OCT in Glaucomatous and non-glaucomatous Eyes – A comparative study	Dr. Sumana J Kamath	23 rd Annual Conference of Glaucoma Society of India at Indoor from 20 th – 22 nd September 2013
8	Reversible Ophthalmoplegia following chemotherapy – A case report	Dr. M. Gurudutt Kamath	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013

9	Pleomorphic adenoma of the eyelid	Dr. Gurudutt Kamath	M.	Karnataka State Ophthalmic Society at Hassan from 8 th – 10 th November 2013
10	An adolescent case of primary exodeviation with DVD – A case report	Dr. Gurudutt Kamath	M.	20 th Annual Conference of Strabismological Society of India & Pune Ophthalmological Society at Pune from 7 th & 8 th December 2013
11	Intravitreal triamcinolone form DME: an Optical Coherence Tomography (OCT) study	Dr. Manjunath Kamath	M.	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
12	Cysticercosis of the eyelid	Dr. Manjunath Kamath	M.	Karnataka State Ophthalmic Society at Hassan from 8 th – 10 th November 2013
13	Retinal nerve fiber layer thickness in glaucomatous and normal patient using SD-OCT and SAP – A comparative analysis	Dr. Shobha G Pai	G	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
14	A clinical case series study of idiopathic intracranial hypertension	Dr. Shobha G Pai	G	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
15	A clinical study of blunt ocular trauma in a tertiary care centre	Dr. Shobha G Pai	G	Tamilnadu Ophthalmic Conference at Chennai from 9 th – 11 th August 2013
16	Bilateral luxated globes: a rare case report	Dr. Ajay R Kamath	R	Karnataka State Ophthalmic Society at Hassan from 8 th – 10 th November 2013
17	Pupillary capture in paediatric patient – A frequent menace	Dr. Ajay R Kamath	R	Karnataka State Ophthalmic Society at Hassan from 8 th – 10 th November 2013
18	Ocular surface squamous neoplasia - case report with histopathology in Xeroderma pigmentosa	Dr. Rajesh R Nayak	R	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
19	Autoenucleation	Dr. Rajesh R Nayak	R	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013
20	Frontal mucocoele – A rare case presentation	Dr. Rajesh R Nayak	R	71 st All India Ophthalmological Society at Hyderabad from 17 th – 20 th January 2013

Year 2014

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	A clinical study of open globe injury	Dr. Sumana J Kamath	33 rd Karnataka State Ophthalmic Conference 2014 at Mysore from 7 th – 9 th November 2014.
2	Papilledema in cerebral venous sinus thrombosis	Dr. M. Gurudutt Kamath	33 rd Karnataka State Ophthalmic Conference 2014 at Mysore from 7 th – 9 th November 2014.
3	CHARGE syndrome - A case report	Dr. M. Gurudutt Kamath	33 rd Karnataka State Ophthalmic Conference 2014 at Mysore from 7 th – 9 th November 2014.
4	Giant chalazion masquerading as adenocarcinoma of meibomian gland – A case report	Dr. M. Gurudutt Kamath	Kerala State Ophthalmic Annual Conference at Trissur from 28 th – 30 th November 2014
5	Retina in electrocution - A rare manifestation	Dr. M. Manjunath Kamath	33 rd Karnataka State Ophthalmic Conference 2014 at Mysore from 7 th – 9 th November 2014.
6	Bleeding Eye : A case report	Dr. Shobha G Pai	Tamil Nadu State conference at Coimbatore from 8 th – 10 th August 2014
7	Ophthalmic manifestation in Alport's syndrome – A prognostic aid	Dr. Shobha G Pai	33 rd Karnataka State Ophthalmic Conference 2014 at Mysore from 7 th – 9 th November 2014.
8	Lagophthalmos in Hansen's disease	Dr. Ajay R Kamath	33 rd Karnataka State Ophthalmic Conference 2014 at Mysore from 7 th – 9 th November 2014.
9	Visual field defects in occipital lobe lesions	Dr. Rajesh R Nayak	33 rd Karnataka State Ophthalmic Conference 2014 at Mysore from 7 th – 9 th November 2014.
10	Missed wooden intra-orbital foreign body - A diagnostic challenge	Dr. Susan D'Souza	Bombay Ophthalmic Association at Bombay from 20 th – 22 nd June 2014
11	Diabetic macular edema estimation : Slit lamp biomicroscopy vs OCT	Dr. Susan D'Souza	KRSSDI Decennial conclave Father Muller Medical College, Mangalore on 7 th Septembr 2014

1. Placement record of the past students and the contribution of the department to aid student placements

Students who have passed out from our institution are working as consultants in premier institutions of our country and abroad. Several of the students have completed or are currently pursuing fellowships in various ocular sub specialities of their choice.

2. Plan of action of the department for the next five years

The department's plan of action is to help the college in implementing its strategic plan.

- a. Curriculum:
 - i. Building on the current foundation, develop a comprehensive Curriculum Implementation Plan with new emphasis on modern methods of teaching like problem based learning.
 - ii. Optimize the availability and utilization of resources to support student learning (e.g. technology, space), individualized achievement of learning goals and effective teaching to actively improve the success rates in the examination.
 - iii. Take feedback from the stakeholders and alumni to try and identify areas that need to be strengthened.
 - iv. Constantly monitor and if necessary design new assessments to evaluate the effectiveness of the teaching programme.
 - v. Enhance objective evaluation systems for graduate student outcomes assessment.
 - vi. Explore the possibility of using "Simulated Patients" for clinical teaching
- b. Initiatives in education:
 - i. Conduct a greater number of continuing medical education programmes including at least one national and regional conference by 2017.
 - ii. Explore the possibilities of starting inter-disciplinary programmes.
- c. Initiatives in Clinical Practice:
 - i. To continue using State of art equipment for diagnosis and prognosis of various ocular conditions. Also, make these tests available at concessional rates for more camp patients.

- ii. Out reach camps to deal with the cataract backlog in and around Mangalore. Patients are brought to the hospital for work up and latest techniques of cataract extraction like SICS and phacoemulsification are available.
 - iii. Continued Screening programmes for Diabetic retinopathy including newly diagnosed diabetics, Glaucoma, ROP and Free Camps to be used as a means to spread awareness about various eye ailments .
 - iv. Running an eye bank effectively to deal with cornea related blindness.
- d. Research
- i. Augment the research activities leading to the publications, thus enhancing the number of publications by at least 50% over the next 5 years
 - ii. Increase our participation in clinical trials by at least 10% over the next 5 years.
- e. Faculty development:
- i. Faculty will be encouraged to develop teaching portfolios which will serve as effective means of recognizing good teaching with the emphasis on demonstrating excellence.
 - ii. To motivate faculty to enhance presentation of papers and posters and paper publication by post graduates and faculty at state, national and international conferences.
 - iii. The faculty will also be trained in newer teaching-learning and evaluation methodologies so that they can easily adapt to changes in the curriculum.
 - iv. Every faculty to participate in at least 5 national conferences and 1 international conference over the next 5 years.

GENERAL MEDICINE

1. Faculty profile - adequacy and competency of faculty

There are thirty eight teaching faculty members who meet the requirements for MBBS, Dental and the postgraduate training as per the requirements of the regulatory bodies. All faculty members are competent.

Sl. No.	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr.Raghavendra Bhat	MBBS MD	Professor and Head	29
2.	Dr. M. Venkatraya Prabhu	MBBS MD	Dean & Professor	29
3.	Dr. PrabhaAdhikari M. R.	MBBS MD	Professor	27
4.	Dr. Mohammed Ismail Hejamady	MBBS MD	Professor	23
5.	Dr.M.Chakrapani	MBBS MD	Professor	23
6.	Dr. Christopher C. Pais	MBBS MD	Professor	23
7.	Dr. John Thomas Ramapuram	MBBS MD	Professor	23
8.	Dr. Dinesha	MBBS MD	Professor	19
9.	Dr. Damodara Shenoy	MBBS MD	Professor	17
10	Dr. Nithyananda Chowta K.	MBBS MD	Addl. Prof.	21
11	Dr.Satish Rao	MBBS MD	Addl. Prof.	12
12	Dr.Meenakshi A. Shetty	MBBS MD	Assoc. Prof.	17
13	Dr. Venugopala D.	MBBS MD	Assoc.Prof.	14
14	Dr. Sushanth Kumar B.	MBBS MD DNB	Assoc.Prof.	12
15	Dr. MuralidharaYadiyal B.	MBBS MD	Assoc.Prof.	13
16	Dr.Thajuddeen K.	MBBS MD	Assoc.Prof.	13
17	Dr. Krishna Prasad	MBBS MD, DM (Med-Onco)	Assoc.Prof.	09
18	Dr. Harish Rao	MBBS MD	Assoc.Prof	11
19	Dr.Jayakumar J.	MBBS MD	Assoc.Prof.	09
20	Dr.Arun S.	MBBS MD	Assoc.Prof.	07
21	Dr. Girish M.	MBBS MD	Assoc.Prof.	09
22	Dr. Basava Prabhu A.	MBBS MD	Assoc.Prof.	06
23	Dr. Pavan M.R.	MBBS MD	Assoc.Prof.	06
24	Dr.Alam Nawaz	MBBS MD	Assoc. Prof.	08
25	Dr. Deepak R. Madi	MBBS MD	Assoc. Prof.	06
26	Dr. Pradeep Kumar Shenoy	MBBS MD	Asst. Prof.	04
27	Dr. Mayoora Prabhu	MBBS DNB	Assoc. Prof.	02
28	Dr.AbulFazil	MBBS MD	Asst. Prof.	05
29	Dr. ArchithBloor	MBBS MD	Asst. Prof	05
30	Dr. Deepak Rao	MBBS MD	Asst. Prof	04
31	Dr.Sheetal Raj	MBBS MD	Asst.Prof	03
32	Dr Mayur Prabhu	MBBS MD DNB	Asst. Prof	02

33	Dr Guruprasad	MBBS MD	Asst. Prof	<01
34	Dr.BengreMridula Laxman	MBBS MD	Senior Resident	02
35	Dr. Mahesha P	MBBS MD	Senior Resident	02
36	Dr. Jinzy Mariam	MBBS MD	Senior Resident	02
37	Dr.Ajay Bhat	MBBS MD	Senior Resident	02
38	Dr. Arjun Nayak	MBBS MD	Senior Resident	02
39	Dr.Prashanth B	MBBS MD	Senior Resident	01
40	Dr.Riffat Abdul Aziz	MBBS MD	Senior Resident	03
41	Dr. Madhusudhan Raikar	MBBS MD	Senior Resident	<01
42	Dr. Zawar Abhinav Bhagwan	MBBS	Junior Resident	02
43	Dr. Jayalal Jayapalan Nair	MBBS	Junior Resident	02
44	Dr. Arun kumar Ponna	MBBS	Junior Resident	02
45	Dr. Anupama K V	MBBS	Junior Resident	02
46	Dr. Taha Perwaiz Sethjiwala	MBBS	Junior Resident	02
47	Dr. Sanoj Abdul Vahab Alikannu	MBBS	Junior Resident	02
48	Dr. Hyma Jose	MBBS	Junior Resident	02
49	Dr. G Pradeep Krishna Chowdary	MBBS	Junior Resident	02
50	Dr. Rajananda Reddy Peram	MBBS	Junior Resident	02
51	Dr. Thinakarmani B	MBBS	Junior Resident	02
52	Dr. Toshniwal Anup Murlidhar	MBBS	Junior Resident	02
53	Dr. Gosavi deven Shrikant	MBBS	Junior Resident	02
54	Dr. Sibithooran K	MBBS	Junior Resident	02
55	Dr. Vaibhav Tiwari	MBBS	Junior Resident	02
56	Dr. Srinivas Vinayak Shenoy	MBBS	Junior Resident	02
57	Dr. Ashok R	MBBS	Junior Resident	02
58	Dr. Rasal Yogesh Prakash	MBBS	Junior Resident	02
59	Dr. Pavana Raghava Reddy K.	MBBS	Junior Resident	02
60	Dr. Galidevara Jyothi	MBBS	Junior Resident	02
61	Dr.Hifzur Rahman	MBBS	Junior Resident	02
62	Dr.Ajay Mohan	MBBS	Junior Resident	01
63	Dr.Sachin Shiragavi	MBBS	Junior Resident	01
64	Dr.Anupa Thampy	MBBS	Junior Resident	01
65	Dr.Monica Tripathy	MBBS	Junior Resident	01
66	Dr.Amarnadh Polisetty	MBBS	Junior Resident	01
67	Dr.Bharat Narasimhan	MBBS	Junior Resident	01
68	Dr.Sahana G	MBBS	Junior Resident	01
69	Dr.Vishnu B Chandran	MBBS	Junior Resident	01
70	Dr.Jagadeesh.M	MBBS	Junior Resident	01
71	Dr.Sravan Thumati	MBBS	Junior Resident	01
72	Dr.Aravinth Kumar R	MBBS	Junior Resident	01
73	Dr.Siddarth Kanta	MBBS	Junior Resident	01
74	Dr.Venkat Ramesh	MBBS	Junior Resident	01
75	Dr.Naveen Kumar H B	MBBS	Junior Resident	01
76	Dr.Poornima Narayanan Nambiar	MBBS	Junior Resident	01

77	Dr.Rakshith S C	MBBS	Junior Resident	01
78	Dr.Praveen Goud Kotha	MBBS	Junior Resident	01
79.	Dr.M Vinayak	MBBS	Junior Resident	01
80.	Dr.Nannapaneni Sai Sameera	MBBS	Junior Resident	01
81.	Dr.Naveen Reddy Avula	MBBS	Junior Resident	01
82.	Dr.K Kalyani	MBBS	Junior Resident	01
83.	Dr.Vinay C	MBBS	Junior Resident	01
84.	Dr.Anudeep Gaddam	MBBS	Junior Resident	<01
85.	Dr.S Abhimanyu Reddy	MBBS	Junior Resident	<01
86.	Dr.Kolla Gautham	MBBS	Junior Resident	<01
87.	Dr.Vivek Athunoori	MBBS	Junior Resident	<01
88.	Dr.Narendran K	MBBS	Junior Resident	<01
89.	Dr.Chaitanya siva Marupudi	MBBS	Junior Resident	<01
90.	Dr.P Ganesh Chakravarthy	MBBS	Junior Resident	<01
91.	Dr.Sandeep Gurram	MBBS	Junior Resident	<01
92.	Dr.Kishor Kumar R	MBBS	Junior Resident	<01
93.	Dr.Thomas Kuncheria	MBBS	Junior Resident	<01
94.	Dr.Patre Rachita Dutt	MBBS	Junior Resident	<01
95.	Dr.Yalampati Rama Kishore	MBBS	Junior Resident	<01
96.	Dr.Mouleeswara Kumar Tamma	MBBS	Junior Resident	<01
97.	Dr.Mohammed Sha Alam M B	MBBS	Junior Resident	<01
98.	Dr.Holla Subraya Krishna	MBBS	Junior Resident	<01
99.	Dr .Shanu Mathew	MBBS	Junior Resident	<01
100.	Dr.Shehzad Ruman	MBBS	Junior Resident	<01
101.	DR. Venkata Rakesh Chintala	MBBS	Junior Resident	<01
102.	Dr. Mohammad Yousuff	MBBS	Junior Resident	<01
103.	Dr.Gautham Gandaham	MBBS	Junior Resident	<01
104.	Dr. Shivakumar Pawadshettar	MBBS	Junior Resident	<01
105.	Dr. K.M. Rizwanulla Basha	MBBS	Junior Resident	<01

Category	Sanctioned	Filled
Teaching Staff	24	31
Senior Resident	15	7
Junior Resident	22 per year	22

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

Integrated teaching is being considered, especially in consultation with the para-clinical departments so that the systems covered in medicine are similar to the para-clinical topics in the particular semester for better understanding. The Undergraduate students were previously assessed at the end of the respective postings in their own unit. It was decided that at the end of the medicine posting in the final year the evaluation would be done in the same way as the University exam pattern at a centralized place so that they get used to the system and this is now being implemented for the last two years. Newer methods of learning such as OSCE have been introduced to the final year students.

In the post graduate teaching programme in addition to the seminar and journal club additional modes of presentation such as Debates and Clinical image session has been introduced to make it more interactive and interesting in the last two years. For the last two years a few topics (ethics, common symptoms, basic science topics, medico legal aspects etc) are put up for discussion for the First year PGs which are conducted by the staff members in addition to the regular seminar, journal club and bed side presentations.

4. Trends in the success and dropout rates of students during the past two years

Course	Pass percentage			Dropout Rate		
	2012	2013	2014	2012	2013	2014
MBBS	Jan 84%	Jan 87%	Jan 97%	0	0	0
	Aug 58%	Oct 56%	Oct 38%	0	0	0
MD	April 83%	April 76%	April 90%	0	0	0
	Oct 80%	Oct 0%	Oct 100%	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

Department has 2 libraries with 215 books.

The department has 2 computers and one printer. One Laboratory for basic investigation is present in Govt. Wenlock Hospital.

All faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. The ICU has been provided with a computer which has been loaded with required medical textbooks for the benefit of students in the ICU. Every year the Medicine

PG students have a day of hands on training session (workshop) in critical care procedures and management in the skills lab by the staff members of the department before being posted in the ICU.

6. Modern teaching methods practiced and use of ICT in teaching – learning

Modern teaching method like Audio-visual presentation for classes and seminar are done.

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasized upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience in diagnosing and managing patients with respiratory illnesses as well as different settings including primary, secondary and tertiary levels. Specific stress is laid on Community Health. The graduate medical education in our department is based primarily on out-patient teaching, emergency departments and in-patients. During the postings the students are encouraged to look at the totality and not just a sum of parts. The students are taught to integrate various system findings and arrive at the diagnosis. While planning the management, aspects of health socio-economic and ethics are stressed upon.

Clinics are organized in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills. The department uses the facilities of a clinical skills lab to provide hands on training to students.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical or community cases and exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalization of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Bed-side clinics
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

7. Participation of teachers in academic and personal counseling of students

Though no formal counseling of students is done at the end of each term any students formed wanting in terms of Academic performance (On basis of Marks record) is personally counseled by HOD.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

The list of faculty who have attended teaching Learning workshop is given below. In these workshops stress has been on how to improve teaching-learning and evaluation.

2012

Name of the Faculty & Designation	Name of the programme	Dates	Venue
Dr. Gita R.Bhat Sr. Resident	Workshop on pedagogic and personal effectiveness	22 nd July 2012 27 th July	Manipal
Dr. Sheetal Raj Sr. Resident	Workshop on pedagogic and personal effectiveness	22 nd July 2012 27 th July	Manipal

Dr.Jinzy Mariam George Sr. Resident	Workshop on pedagogic and personal effectiveness	22 nd July 2012 27 th July	Manipal
Dr.Bengre Mridula Laxman Sr. Resident	Workshop on pedagogic and personal effectiveness	22 nd July 2012 27 th July	Manipal
Dr.Ahalya Sr. Resident	Workshop on pedagogic and personal effectiveness	22 nd July 2012 27 th July	Manipal
Dr. Mahesh P Sr. Resident	Basic Medical Education Technology	9 th October to 13 th October 2012	Mangalore
Dr. Akshatha Nayak U Sr. Resident	Basic Medical Education Technology	9 th October to 13 th October 2012	Mangalore
Dr. Ajay N Bhat Sr. Resident	Basic Medical Education Technology	9 th October to 13 th October 2012	Mangalore
Dr. Nakul Sr. Resident	Basic Medical Education Technology	9 th October to 13 th October 2012	Mangalore

2013

Name of the Faculty & Designation	Name of the programme	Dates	Venue
Dr. Archith Boloor	How Conduct Journal Club	25 th Sep 2013	Mangalore
Dr.Arun S	How Conduct Journal Club	25 th Sep 2013	Mangalore
Dr. Nithyananda Chowta	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Mangalore
Dr. Raghavendra Bhat	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Mangalore
Dr. Pawan	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Mangalore
Dr. Arun S	Assessment of Learning outcomes, Past, Present and Future	13 th November 2013	Mangalore
Dr. Uday baburaya Nayak	Basic Workshop on Medical Education Technologies	19-24 Sep 2013	Mangalore
Dr. Pradeep Kumar Shenoy	Basic Workshop on Medical Education Technologies	19-24 Sep 2013	Mangalore

Dr. Sheetal Raj M	Basic Workshop on Medical Education Technologies	19-24 Sep 2013	Mangalore
Dr. Archith Bloor	Lesson Plan preparation	31 st July 2013	Mangalore
Dr. Meenakshi Shetty	Lesson Plan preparation	31 st July 2013	Mangalore
Dr. Abul Fazil	Lesson Plan preparation	31 st July 2013	Mangalore
Dr. Pradeep Kumar shenoy	Lesson Plan preparation	31 st July 2013	Mangalore
Dr. Abul fazil	No power Communication	16 th November 2013	Mangalore
Dr. Archith Bloor	No power Communication	16 th November 2013	Mangalore
Dr. Nithyananda Chowta	No power Communication	16 th November 2013	Mangalore
Dr. Jinzy Mariam George	No power Communication	16 th November 2013	Mangalore
Dr. Ajay Bhat	No power Communication	16 th November 2013	Mangalore

2014

Name of the Faculty & Designation	Name of the programme	Dates	Venue
Dr. Arun S	Workshop on Research in Medical Education	23-04.2014	Mangalore
Dr. Sidney C D'Souza	Workshop on Research in Medical Education	23-04.2014	Mangalore
Dr. Meenakshi Shetty	Basic Met Workshop	7 th - 9 TH August 2014	Mangalore
Dr. Venugopala D	Basic Met Workshop	7 th - 9 TH August 2014	Mangalore
Dr.Muralidhara Yadiyal D	Basic Met Workshop	7 th - 9 TH August 2014	Mangalore
Dr. Archith Bloor	Basic Met Workshop	7 th - 9 TH August 2014	Mangalore
Dr. Deepak R Madi	Effective use of Powerpoint		Mangalore

In addition, all faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. Faculty development programmes: 16 members have attended for the last 3 years the faculty attend various Programmes like conference (2012 :6, 2013: 14, 2014 :09) Workshop(2012 : 1 2013 :0, 2014:0),symposia (2012: 2013: 0, 2014 :3) and CME (2012 : 3,2014 :4).

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All staff members contribute to teaching by taking their respective theory classes, bedside clinic and moderating seminars for students. Few staff members are also involved in conducting workshops for research methodology

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

No official collaboration with other department exists as of now.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority areas are:

1. Diabetes Mellitus
2. Geriatric
3. Hypertension
4. HIV
5. Malaria
6. Tuberculosis

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research Projects	11
PhD research projects	5
PG research projects	64
UG research projects	22

Last 3 years (2012-2014):

	2012	2013	2014
Completed funded research projects	0	9	3

Completed non-funded research projects	0	0	0
Completed PhD research projects	0	1	1
Completed PG research projects	20	22	22
Completed UG research projects	2	17	3
Publications	International	27	31
	National	18	14
Books	1	1	1
Chapters in books	0	0	0
Conference presentations	International	6	10
	National	1	11

The detailed outline of projects is given below:

Our on- going funded research projects are:

Sl#	Title	Principal Investigator	Funding agency	Total amount received
1.	ALECARDIO-a diabetes study	Dr. Prabha Adhikari M R	George clinical Institute	Rs. 3,68,000
2.	Molecular characterization of Asymptomatic Bacteruria in type 2 diabetes	Dr. Prabha Adhikari M R	API Karnataka chapter	Rs. 90,000
3.	Canagliflozin and cardiovascular out comes	Dr. Prabha Adhikari M R	Johnson and Johnson	3,00,000
4.	Alloglitazaar in acute coronary syndromes	Dr. Prabha Adhikari M R	ALECARDIO	2,00,000
5.	Entitled indoor air pollution and type 2 diabetes	Dr. Prabha Adhikari M R	ITREOH	5,50,000
6.	Association between Indoor air pollution and Type 2 diabetes (purchase of Dusk Track Air Monitor)	Dr. Prabha Adhikari M R	ITREOH(Forgarthy Foundatin through University of Alabama)	Rs.3,00,000
7.	Development of software for Early detection of organ failure	Dr. Prabha Adhikari M R	Phillips	Rs.10,00,000
8.	Development of Android application for comprehensive Geriatric Assessment software	Dr. Prabha Adhikari M R	Phillips	Rs.1,00,000
9.	Fraility data collection for validation of equipment –a pilot study	Dr. Prabha Adhikari M R	Phillips	Rs. 1,00,000
10.	MOSAIC Observational study	Dr. Prabha Adhikari M R	Quintiles India	Rs.2,00,000
11.	CANVAS study	Dr. Prabha Adhikari M R	George clinical research Institute Australia	Rs.3,00,000

Our ongoing PhD research projects are:

Sl#	Title	Name of student	Name of the guide
1.	Correlation of insulin resistance with severity of coronary artery disease in type 2 diabetes mellitus	Mr. Mukund P.S	Dr. Chakrapani M
2.	11 β HSD-1 gene polymorphism in type 2 diabetes mellitus, metabolic syndrome and polycystic ovary syndrome: Effect of carbenoxolone sodium on participants with 11 β HSD-1 gene polymorphism	Ms.Nayana Devang	Dr.Prabha Adhikari M R
3.	Molecular characterization of uropathogenic Escherichia coli causing asymptomatic bacteriuria in patients with diabetes mellitus	Ms.Archana Deraje	Dr.Prabha Adhikari M R
4	Twenty four hour continuous temperature recording: Normal pattern and usefulness in patients with fever	Mr.Pradeepa H D	Dr. Chakrapani M
5.	Clinico Microbiological Efficacy of Honey Dressing in comparison with Povidone Iodine dressing in Diabetic Foot Ulcers -A Randomized Double Blind Trial	MRS .Ramaya	Dr.Prabha Adhikari M.R

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1.	Fertility intention and desire in HIV patients	Dr.Hyma Jose	Dr. K.Nithyananda Chowta
2.	Tuberculosis among doctors and medical students	Dr.Ajaya Mohan	Dr.Raghavendra Bhat
3	Clinical and etiological profile of non resolving pneumonia	Dr.Sravan Thumati	Dr.Damodar Shenoy
4	Correlation of serum uric acid with glycemic control in patients with type 2 DM	Dr.Venkat Ramesh	Dr.Dinesha
5.	Medical illness and alcohol in tertiary health care centre	Dr.Rakshith S C	Dr. Muralidhara yadiyal
6.	Impact of age on short term immune response and opportunistic infection related morbidity during the first six months of ART in people living with HIV	Dr.Sachin Shiragavi	Dr. Satish Rao
7.	Sagittal abdominal diameter in comparison with other	Dr.Poornima Narayanan Nambiar	Dr Sydney D'souza

	anthropometric parameters and its correlation with insulin resistance in pre-diabetes		
8.	Effect of pioglitazone discontinuation on glycemic status of type 2 diabetic patients	Dr. Vinaya C	Dr.Thajuddeen
9.	Supine, Standing and post walk blood pressure in elderly patients with mild to moderate cognitive decline	Dr.Jagadeesh M	Dr. Prabha Adhikari
10.	Non invasive markers of esophageal varices	Dr.Siddhartha Kantha	Dr.Meenakshi Shetty
11.	Neurocognitive impairment in people living with HIV and its impact on adherence to ART	Dr.Sahana G	Dr.. John T Ramapuram
12.	Study of thyroid function tests in Chronic kidney disease patients	Dr.Arvinth Kumar R	Dr.M.V.Prabhu
13.	Assessment of body protein energy status in adult chronic kidney disease patients on hemodialysis	Dr.Praveen Goud Kotha	Dr.Venugopal D
14.	Quality of life among primary caregivers of people living with HIV	Dr.Vishnu B Chandran	Dr.K.Nithayanand chowta
15.	Quality of life of carcinoma breast on adjuvant chemotherapy	Dr.Kalyani	Dr. Krishnaprasad
16.	Early clinical implications of microalbuminuria in patients with acute ischemic stroke	Dr. Anupa Thampy	Dr Christopher C Pais
17.	ABO blood groups and severity of malaria	Dr. Naveen kumar H.B	Dr.Alam nawaz
18.	Evaluation of association of hyperuricemia with metabolic syndrome and insulin resistance	Dr. Naveen Reddy Avula	Dr.Damodar Shenoy
19.	Comparison of insulin resistance in people with isolated impaired fasting glucose versus combined glucose intolerance	Dr. Sai Sameera Nannapaneni	Dr.Jayakumar B
20.	Effect of mastication on post prandial blood sugar levels in normoglycaemics and dysglycaemics	Dr.M Vinayak	Dr Arun S

21.	A case control study of presence of metabolic syndrome in migraine	Dr. Amarnadh Polisetty	Dr.Girish M
22.	Relationship between Arm length and type II Diabetes Mellitus	Dr. Monica Tripathy	Dr.Mohammed Ismail
23.	Clinical and biochemical associates of angiographically determined severe coronary artery disease in type II diabetes	Dr.Bharath Narasimhan	Dr. Chakrapani M
24.	Clinical study to correlate the complications of malaria with parasite load and C-reactive protein at the time of presentation	Dr.Anudeep Gaddam	Dr.Damodar Shenoy
25.	Clinical study to correlate the complications of malaria with parasite load and C-reactive protein at the time of presentation	Dr.S Abhimanyu Reddy	Dr.Alam Nawaz
26.	Cardiac autonomic dysfunction in diabetes mellitus and its correlation with QTc Interval	Dr.Kolla Gautham	Dr.Raghavendra Bhat
27.	Prognostification of acute kidney injury	Dr.Vivek Athunoori	Dr. Venugopal D
28.	Study of right hand second digit to fourth digit length ratio and its association with oligospermia and azoospermia	Dr.Narendran K	Dr. Murlidhar Yadiyal
29.	Effect of blood pressure normalization interventions on cognitive function of senior citizens with low blood pressure and mild cognitive decline.	Dr.Chaitanya Siva Marupudi	Dr. Prabha Adhikari
30.	Study on relationship between dermatoglyphics and hypertension	Dr.P Ganesh Chakravarthy	Dr.Arun s
31.	treatment outcomes of tuberculosis in HIV positive patients : Hospital based descriptive study	Dr.Sandeep Gurram	Dr.Sathis Rao
32.	QTc alteration in patients treated with Azithromycin and Cetirizine for upper respiratory tract infections	Dr.Kishor Kumar R	Dr.Jayakumar B
33.	Pattern of complications among patients admitted with severe malaria	Dr.Thomas Kuncheria	Dr. K.N.Chowta
34.	Risk factors for early renal impairment in type 2 diabetes	Dr.Patre Rachita Dutt	Dr.Chakarapani M
35.	Correlation Of Pre Treatment C - Reactive Protein Levels And The	Dr.Yalampati Rama Kishore	Dr.Girish M

	Treatment Outcome Of Newly Diagnosed Symptomatic Immune Thrombocytopenia		
36.	Clinico-Immunological Profile of human immunodeficiency virus(HIV)- tuberculosis(TB) co-infected patients and response to anti tubercular therapy	Dr.Mouleeswara Kumar Tamma	Dr. John T Ramapuram
37.	Relationship between finger length and coronary artery disease	Dr.Mohammed Sha Alam M B	Dr.Mohammed Ismail
38.	The role of fresh frozen plasma in reducing the volume of anti-snake venom in snake bite envenomation	Dr.Holla Subraya Krishna	Dr.Harish Rao
39.	Comparative study of clinical hematological and biochemical profile of patients with vivax and falciparum malarias on Day 1,Day 3,and Day 7 of admission	Dr .Shanu Mathew	Dr.Christopher C Pais
40.	Usefulness of CURB65 score in community acquired pneumonia	Dr.Shehzad Ruman	Dr. Dinesha
41	Serum magnesium levels in acute kidney injury guide	Dr. Venkata Rakesh Chintala	Dr. M.V Prabhu
42	Clinical and immunological outcomes initiation of second line anti retro viral therapy in HIV infected patients	Dr. Mohammad Yousuff	Dr.Basava Prabhu
43	Dermatoglyphics and alcohol tobacco consumption	Dr.Gautham Gandaham	Dr. Thajuddeen
44	Microalbuminuria in acute ML: prognostic significance	Dr. Shivakumar pawadshettar	Dr. Meenakshi Shetty
45	clinical study of Gastrointestinal Stromal Tumors	Dr. K.M. Rizwanulla Basha	Dr.Thajuddeen

Our ongoing UG research projects are:

2013

Sl#	Title	Name of the student	Guide
1.	28 Day Clinical and Parasitological Cure with Artesunate and Sulfadoxine Pyrimethamine Combination for Uncomplicated Falciparum Malaria	Ms. Shruthi J	Dr.Chakrapani M
2.	Awareness of Diabetes Mellitus Among GENERAL Population Visiting Tertiary Care Hospitals in Mangalore	Ms. Devika Sinha	Dr.Sydney DSouza
3.	Correlation Between Mid-Arm Circumference, Waist Circumference And waist-hip ratio with risk of onset of type 2 diabetes mellitus	Indranil Paul	Dr. Prabha Adhikari M R

4.	Hematological and biochemical parameters and short clinical outcomes among patients with acute stroke- A correlational study	Niveditha M	Dr.Pawan M R
5.	Correlation between spot urine protein creatinine ratio to 24-hour proteinuria in assessing diabetic nephropathy	Ashima Mutneja	Dr. Raghavendra Bhat
6.	Carotid Intima-Media Thickness in Type 2 Diabetes Mellitus Patients with Cardiac Autonomic Neuropathy: A Cross Sectional Study	Chavi Wadhwa	Dr. Raghavendra Bhat
7.	Glycemic control and mortality in critically ill patients in tertiary care hospitals of Mangalore city, South India - A Hospital based study	Angel Ann Chacko	Dr. Meenakshi A. Shetty
8.	Awareness of Cervical Cancer among HIV Positive Women Attending Anti Retroviral Therapy Centre	Parul Gupta	Dr.Deepak R Madi
9.	Living with Diabetes: Adherence to Everyday care and Management Practices among Diabetic Population of Mangalore	Sachita Pal	Dr.Gita Raghavendra Bhat
10.	Quality of life amongst HIV-tuberculosis co-infected patients	Jyotsna Jha	Dr. Basavaprabhu. A.

2014

Sl#	Title	Name of the student	Guide
1.	clinical profile of patients following the first episode of ischemic heart disease with special reference to the angiographic characteristics- a cross sectional study	Shubha SN	Dr. Raghavendra Bhat
2.	Migraine and neck circumference	Haleemath Thabsheera	Dr.Mohammed Ismail
3.	Analysis of risk factors for Deep Vein Thrombosis (D.V.T.) using Wells D.V.T. score for patients admitted to Intensive Care Unit(I.C.U.).	Isha	Dr. Damodar Shenoy
4.	Clinico-epidemiological profile of elderly hiv patients attending anti retro-viral therapy (art) centers of a teaching hospital of coastal south India.	Neha Ramakrishna n S	Dr. John Ramapuram
5.	Trends in CD4 count & who staging among newly Diagnosed HIV patients attending an ART centre in territory care hospital	Kumailabbas Dewji	Dr. Basava Prabhu A
6.	Effect of movie-derived acute stress on working memory	Murugadass Narendran	Dr. Meenakshi Shetty
7.	Association of Intimate Partner Violence (IPV) with Quality Of Life, Depression and Adherence to Anti Retro Viral Therapy among women with HIV AIDS	Mahak Bhandari	Dr. Basava Prabhu

8.	Nerve Conduction Velocity Study in patients with Type 2 Diabetes Mellitus in a Tertiary Care Hospital	Ms. Monisha D'souza	Dr. Abul Fazil
9.	Clinico-epidemiological Profile and Outcome of Leptospirosis at a Tertiary care Teaching Hospital of KMC in Coastal South India	Abhilash Bhat	Dr. Basava Prabhu
10.	Estimation of Proportion of Adolescent Students in Mangalore city with Hypertension and Investigation of the Risk Factors associated with it	Sriranjani Iyer	Dr. Arun S
11.	short-term and long-term outcomes for tuberculosis among HIV positive patients in coastal Karnataka	Shivani Kamath	Dr. Basava Prabhu
12.	A cross sectional study of the risk factors for esophageal adenocarcinoma	Pragya Maheshwari	Dr. Chakrapani M.

Our completed funded projects (trials) are:

Year 2012

Sl#	Title	Faculty Involved	Funding agency	Amount received
1	ICMR-INDIAB Rest of India study	Dr. Prabha Adhikari M R	ICMR	Rs. 24,96,890
2	CYP Gene-polymorphism in PCOS	Dr. Prabha Adhikari M R	M.V. Diabetes center Chennai	Rs. 1,00,000
3	CYP Gene-polymorphism and 11 β HSO Gene-polymorphism in PCOD	Dr. Prabha Adhikari M R	RSSDI	Rs. 1,90,000
4	ALTITUDE –a diabetes study	Dr. Prabha Adhikari M R	George clinical Institute	Rs. 45,00,000
5	Serum lead levels among family members of battery workers	Dr. Prabha Adhikari M R	ITREOH University of Alabama	Not Yet received
6	Indoor air pollution and occurrence of type 2 diabetes	Dr. Prabha Adhikari M R	ITREOH University of Alabama	Not Yet received
7	Mosaic study observation study on diabetes	Dr. Prabha Adhikari M R	Eli Lilly	Rs. 58,000
8	Combination antihypertensive therapy in type 2 diabetes	Dr. Prabha Adhikari M R	IPCA	Rs. 55,000

Year 2013

SI#	Title	Faculty Involved	Funding agency	Amount received
1	ICMR-INDIAB Study	Dr. Prabha Adhikari MR	ICMR	26,00,000
2	Factors affecting insulin Progression in type 2 diabetes	Dr. Prabha Adhikari MR	Eli Lilly	2,00,000
3	Alloglitazaar in acute coronary syndromes	Dr. Prabha Adhikari MR	ALECARDIO	2,00,000
4	Entitled indoor air pollution and type 2 diabetes	Dr. Prabha Adhikari MR	ITREOH	5,50,000

Our completed PG research projects are:

Year 2012

SI#	Title	Name of the student	Guide
1.	Genetic Polymorphism of HSDIIBI gene and its association with metabolic syndrome	Dr. Kunal Gandhi	Dr. PrabhaAdhikari MR
2.	Cardio Vascular risk factors and Carotid intimal thickness in HIV I patients visiting KMC, Mangalore	Dr. Jimmy Joseph	Dr. John T Ramapuram
3.	Study of Lipid Profile in Anaemia	Dr. B. Sivanananda Reddy	Dr. K. Nithyananda Chowta
4.	Clinical study of poisoning	Dr. Mahalingheshwara Bhat	Dr. MuralidharaYadiyal
5.	Association of TB after initiation of ART (evaluations of risk factors)	Dr. Harneet Singh	Dr. Sathish Rao
6.	Impact of self monitoring of blood glucose on glycemic control in non insulin treated diabetic patients	Dr. Ankit Agarwal	Dr. Sydney C D'Souza
7.	Study of micro albuminuria in essential hypertension and its clinical correlation	Dr. Sumit Agarwal	Dr. M. Venkatraya Prabhu
8.	Study of cardiovascular risk in patients with rheumatoid arthritis using carotid intima medial thickness	Dr. Madhusudan Reddy	Dr. Christopher Pais

9.	A study of clinical & laboratory profile of fever with thrombocytopenia	Dr. V. Pradeep Kumar	Dr. Damodar Shenoy
10.	A study of clinical profile of skin articular and extra articular manifestations of psoriatic arthropathy	Dr. Sarathchandra Gorantla	Dr. Thajuddeen
11.	Clinical profile of Dengue fever	Dr. Sathya Sudhish N.	Dr. M.Chakrapani
12.	Thyroid function abnormalities in rheumatoid arthritis	Dr. Shefna P.M	Dr. Meenakshi Shetty
13.	Micro albuminuria on Type 2 diabetes “comparative study of first morning void urine sample with 24 hours urine albumin excretion	Dr. Vijay Joshi	Dr.Mohan Pai
14.	Clinical study of HIV with lymphadenopathy and correlation with CD4 count and FNAC	Dr. Naveen K.	Dr. UdayB.Nayak
15.	Correlation of clinical and histopathological findings in patients with accelerated hypertension	Dr.Nachiketh Mahindrakar	Dr.Sushanth Kumar
16.	Association of hyperuricemia and metabolic syndromes in patients with type 2 diabetic mellitus	Dr.Pinkesh Patel	Dr.Sunil Kumar
17.	Neck circumference in cardiometabolic risk factor	Dr.Nagendran V	Dr.Mohammed Ismail
18.	A study on validity of auscultation in comparison to echocardiography in suspected valvular heart disease in a tertiary care centre mangalore.	Dr.HariSuthan	Dr. Raghavendra Bhat
19.	Clinical study on emergencies in HIV	Dr.Ranjith Bharathan	Dr.Dinesha
20.	Study of bone mineral density in patients of type 2 diabetic mellitus	Dr.AthulyaG.Asogan	Dr.Jayakumar J

Year 2013

Sl#	Title	Name of the student	Guide
1.	A clinical study of risk factors associated with nosocomial methicillin resistant staphylococcus Aureus infection	Dr. Shalu Mariam John	Dr.Sunil Kumar
2.	Clinical study of complication of central venous catheterization in hemodialysis patients	Dr. Sathis Kumar Reddy	Dr. Venugopal D
3	A Clinical profile of patients in hypertensive crisis with special reference to frequency of end organ damage	Dr. Sunil Chacko Verghese	Dr.Dinesha M
4	Tissue Doppler imaging in type2 diabetes mellitus and its comparison with 2Dconventional echo	Dr. Madhusudan Pramod Raikar	Dr.Thajuddeen

5.	A prospective study of patients on ventilator for more than 48 hours with special reference to ventilator associated pneumonia	Dr. Sanmath Shetty	Dr.Raghavendra Bhat
6.	Home –Insulin resistance calculation, A cross sectional study	Dr. Amruth Raj	Dr.Meenakshi A Shetty
7.	Effect of metformin on diastolic dysfunction of the heart in patients with Metabolic syndrome	Dr.KaushikiKirty	Dr.PrabhaAdhikariM R
8.	A study on the clinical and socio-demographic profile of the attendees at the art centre	Dr.Srinivas Rao Lenka	Dr.Udaya B Nayak
9.	Correlation between the severity and extent of coronary artery disease and duration of diabetes mellitus in type 2 diabetic patients	Dr. Mahadeva Swamy B.C	Dr.Sydney D'souza
10.	A study of carotid artery intima-media thickness in patients of ischemic strokes	Dr. BharambeSwapnilVasudeo	Dr.Girish M
11.	HIV Late presenters V/S early presenters ,A comparative study	Dr. Satheesh A.V	Dr.Satish Rao
12.	Clinical study of previously treated sputum positive pulmonary tuberculosis	Dr. Deepak RamachandraNenwani	Dr.MuralidharaYadiyal B
13.	Relationship between palmar dermatoglyphics and stroke	Dr. Sandeep Satsangi	Dr.Mohammed Ismail
14.	Use of palmar dermatoglyphics in rheumatoid arthritis a case control study	Dr.Saritha K Narayana	Dr.Christopher C Pais
15.	A Case control study of serum ferritin levels in patients with acute myocardial infarction	Dr.ShivaSree	Dr.Damodhar Shenoy
16.	Memory profile in young diabetic mellitus type 2 patients	Dr.ParulKodan	Dr.Jayakumar J
17.	Clinical and Biochemical Parameters predicting Malarial complications	Dr.Sachin Kumar	Dr.Chakrapani M
18.	Etiology clinical profile management & out come in acute kidney injury	Dr.Lakshmi Maddeneeni	Dr.M.V.Prabhu
19.	Effect of pharmacological & psychological intervention in enhancing adherence to art among poorly adhered HIV positive patients with mild depression	Dr.Adarsha Nayak	Dr.K.NityanandaChowta
20.	Clinical Profile of Malignancy in HIV and its Outcome	Dr.Kiran V.H	Dr.John Ramapuram

Year 2014

Sl#	Title	Name of the student	Guide
1.	Cardiac autonomic neuropathy in diabetes and its association with early morning bp surge	Dr. ZawarAbhinavBhagwan	Dr. Raghavendra Bhat
2.	A study of acute kidney injury in tropical acute febrile illness	Dr. JayalalJayapalan Nair	Dr. M.V. Prabhu
3	The study of carotid intima mediaticickness in patients of chronic kidney disease	Dr. Arun Kumar Ponna	Dr. Venugopla D
4	Clinical response to glibenclamide in newly diagnosed type 2 DM and its pharmacogernomic correlation	Dr. PavanRaghva Reddy Kulluri	Dr. PrabhaAdhikari M R
5.	Correlation between serum ferritin and bone marrow iron stores	Dr. Anupama K.V	Dr. Chakrapani M
6.	Characterization of hyponatremia in patients admitted in hospitals under KMC mangalore	Dr. TahaPerwaizSethjiwala	Dr. Christopher C.Pais
7.	Satisfaction among HIV/AIDS patients attending the infectious diseases clinic attavar	Dr. Sanoj Abdul VahabAlikannu	Dr.John T Ramapuram
8.	A study on fertility desires and intentions of HIV-positive patients at a tertiary care centre	Dr. Hyma Jose	Dr. NityanandaChowta
9.	Platelet count/splenic diameter ration as a tool in predicating esophageal varices in liver cirrhosis patients.	Dr. Srinivas Vinayak Shenoy	Dr. Dinesha
10.	Long-term outcome and sequels of acute renalfailure	Dr. G. Pradeep Krishna Chowdary	Dr. Damodhar Shenoy
11.	Tenofovir induced nephrotoxicity (descriptive study)	Dr.Rajandnda Reddy Pream	Dr. Satish Rao
12.	Clinical response to metformin in newly diagnosed type 2 DM and its pharmacogenomic correlation	Dr. Thinkaramani B	Dr. Sydney D'Souza
13.	A cross-sectional study to assess the adequacy of hypertension control hypertensive patients in Govt. Wenlock hospital	Dr. ToshniwalAnupMurlidhar	Dr. MuralidharaYadiyal
14.	Correlation of degree of proteinuria with pulse pressure in diabetics	Dr. GosaviDevenShrikant	Dr. Thajuddin
15.	Pulse pressure predicts white coat hypertension	Dr. Sibithoran K.N	Dr.Mohammed Ismail

16.	Study the association of peripheral insensate neuropathy in smokers and non smokers	Dr. Vaibhav Tiwari	Dr.Girish
17.	Adrenal response in tuberculosis patients using low dose ACTH stimulation test	Dr. Ashok R	Dr. Jayakumar J
18.	Serum magnesium level and acute exacerbation of chronic obstructive pulmonary disease	Dr. Yogesh Prakash Rasal	Dr. Alam Nawaz
19.	Hand pattern and prostate cancer	Dr. JoythiGalidevara	Dr. Udaya B Nayak
20.	Study of Vitamin D level in diabetes patients	Dr. HizurRahaman	Dr. Meenakshi Shetty

Our completed UG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1.	Comparison of APACHE III and SOFA Scores	Bhosle Abhinav Ramchandra	Dr. Arun S
2.	Neurocognitive Dysfunction Among Asymptomatic HIV Positive Patients using International HIV Dementia Scale	Shivani Priyadarshini	Dr. Basavaprabhu

The details of our publications are described below.

2012

International:

1. Mahesha P,R.V.Bhat,Dinesh M, AlamNawaz A study of chest X-ray patterns in relation to CD4 count North.Am.J Medical Sciences 2012;4:221-5
2. RajeshwariS,AdhikariPMR,Sheetal D U,AshokS Renal function Using Cockcroft-Gault and Modification of Diet in Renal Disease Equations in Healthy South Indian Males-A pilot study Aian J of Medical Sciences 2011,2:185
3. MukthaNC,AdhikariPM,RishavS,Sahana D A,GopalakrishnaHN,John.R. Highly sensitive C reactive protein in patients with metabolic syndrome and cardiovascular disease. Annals of Trop Med and Public Health 2012,5(2):98-102

4. ShreelaxmiH,AdhikariP,Subbalkshmi N K,Nandini M, Gayathri Rao M,D Souza V
Diaphragmatic breathing as an intervention to control oxidative stress in Type 2 diabetes
Complementary Therapies in Clinical Practice.2012,18(3):151-153
5. PremV,Sahoo R C,Adhikari P Comparison of the effects of Buteyko and Pranayama breathing techniques on quality of life in patients with asthma-a randomized controlled trial ClinicalRehabilitation.Online First Version July 26 2012
6. NK Subbalakshmi, AdhikariPMR,RaoKNS,Jeganathan PS Deteriorationof cardiac autonomic function over a period of one year in relation to cardiovascular and somatic neuropathy complications in type 2 diabetes mellitus. Research and Clinical Practice 2012,97:313-321
7. SenthilPK,AdhikariP,JeganathanPS,Misri ZK. Surgical management of painful diabetic neuropathy-a focused review International Journal of Neurology and Neurosurgery 2012,4(1):21-25
8. VaishaliK,VijayakumarK,AdhikariP,Unnikrishnana B. Effect of Yoga based Program on Glycosylated hemoglobin level and serum lipid profile in community dwelling elderly subjects with chronic type 2 diabetes mellitus-A randomized Controlled trial . Physical &Occupational Therapy in Geriatrics 2012 30(1):22-30
9. NarasimhaP,AdhikariP,DeepakM, Basavaprabhu A,ShivanadaP,Unnikrishnan B.Evaluation of one minute heart rate variability during deep breathing as a prognostic indicator in patients with acute myocardial infarction. International J of Biological& Medical Res.2012,3(3):2103-2106
10. SJahnavia, V Poovazhagi,V Mohan, D Bodhinia,P Suresh Kumar, P Adhikari,MShriraam, TKauri, AKDasj, JMolne, PR Njolstadl, RUnnikrishnan, V Radha Clinical and molecular characterizationof neonatal diabetes and monogenic syndromic diabetes in Asian children. Clinical Genetics 2012,John Wiley Sons 2012
11. Pai AU, Chakrapani M, Bhaskaran U, Kamath P. Study of home-monitored night blood pressure and its correlation with left ventricular hypertrophy in treatment-naive hypertensive patients.Singapore Med J 2012; 53(2): 95–98
12. Vidyalakshmi K, Lipika S, Vishal S, Damodar S, Chakrapani M.

Emerging clinico-epidemiological trends in melioidosis: analysis of 95 cases from western coastal India. *Int J Infect Dis.* 2012 Jul;16(7):e491-7.

13. SurulirajKarthikbabu, Mahabala Chakrapani, SailakshmiGaneshan, Kedambadi C Rakshith, Syed Nafeez1, Venkatesan Prem. A review on assessment and treatment of the trunk in stroke. A need or luxury. *Neural Regeneration Research* 2012;7(25):1974-1977

14. Pradyumn S, Mahale A, Chakrapani M, Ganaraja B. Effect of HMG CO-A reductase inhibitors on arterial wall thickness in hypertensive subjects undergoing long term treatment. *International Journal of Applied Biology and Pharmaceutical Technology*; 3:308

15. Basava Prabhu A, Deepak R Madi Successful Treatment of Cerebral Toxoplasmosis with Clindamycin: A Case Report *Oman Medical Journal*; Volume 27, Issue 5 September 2012.

16. Basava Prabhu A, Deepak R Madi CNS Toxoplasmosis Presenting with Obstructive Hydrocephalus in Patients of Retroviral Disease-A Case series *Med Journal of Malaysia* Vol 67 No 2 April 2012.

17. Basava Prabhu A, Deepak R Madi A Fatal Case of Brucine Poisoning *Australasian Medical Journal*, Vol 5, No 8 (2012)

18. Basava Prabhu A, Deepak R Madi Study of Depression and Its Associated Factors among Women Living with HIV/AIDS in Coastal South India. *AIDS*; Volume 2012 (2012), Article ID 684972, 4 pages, doi:10.5402/2012/684972.

19. ShivanandaPai, Chakrapani M, Deepak R Madi, Basavaprabhu Achappa, Unnikrishnan.

Non alcoholic fatty liver disease in patients with type 2 diabetes mellitus *International journal of biological and medical research*; 2012; 3(3): 2189-2192

20. Basava Prabhu A, Deepak R Madi Evaluation of 1-minute heart rate variability during deep breathing as a prognostic indicator in patients with acute myocardial infarction *International journal of biological and medical research*; 2012; 3(3): 2103-2106

21. Pavan MR, Basava Prabhu A, Deepak R Madi Comparison of siriraj stroke score with computerized tomography in ascertaining stroke type among south Indians International journal of biological and medical research; 2012; 3(3): 1920 -1923.
22. Shetty SK, Bolor A, Ullal HG, Kassam ZN, Chidhananda PS, Rastogi P, et al. Death due to massive bee injury- a case report J Punjab Acad Forensic Med Toxicol 2012;12(1):33-6.
23. B. Suesh Kumar Shetty, TanujKanchan, Ritesh G. Menezes, Mahabalesh Shetty, ArchithBolor et alPoisoning fatalities in Mangalore, South India: A three year snapshot International Journal of A J institute of Medical Sciences
24. Ritesh G. Menezes, Abul Fazil et, al., Autopsy discoveries of death from malaria Journal of Legal Medicine14 (2012) 111–115. Jayakumar J, Sushanth Kumar, Amruthesh (2012) Timing of Nephrology referral: influence on mortality and morbidity in chronic kidney disease Nephrology Urology monthly; 2012;4(3):578-81.
25. Venugopal D, Vishesh K, Shyamala K.V The role of coronary angiography in assessing the clinical severity of coronary artery disease International Journal of Biomedical and advance research, 3(5) Pp435-440
26. Venugopal D, Vishesh K, Shyamala K.V Anthropometric and Bioclinical parameters in patients of coronary artery disease International Journal of Pharmacy & technology 4 (3) pp 4670-4678 issn 0975-766x

National:

1. Mridula Laxman Bengre, Venkatraya Prabhu M, Arun S, Krishnaprasad, Gopalkrishna Bhat K

Evaluation of the Multinational Association for Supportive Care in Cancer (MASCC) score for identifying low risk febrile neutropenic patients at a South Indian tertiary care centre JCDR 2012;6(5):839-843

2. VaishaliK,KumarS,AdhikariP,Vijaya Kumar. Relationship of age, gender and routine physiotherapy with depression among elderly people in a multidisciplinary Geriatric Care Ward-A cross sectional study Physiotherapy and Occupational Therapy Journal 2012,5(1):19-26

3.PremV,SahooRC,Adhikari P Effect of diaphragmatic breathing exercise on quality of life in subjects with asthma:A systematic review. Physiotherapy Theory and Practice.Early Online 2012,1-7

4. Shenoy A,SureshK,AdhikariP, Sudhakar P,Ratnakar UP,Mukta NC,Sheetal UD.

Male sexual dysfunction in type 2 diabetes patients. Research J of Pharmaceutical,Biological and Chemical Sciences 2012,3(1):390-395)

5. Anand V,AdhikariPMR,Shashidhar Kotian Indian Diabetes Risk score among medical students and its correlation to blood sugar, blood pressure and lipid profile Ind J Diag Res 2012

6. DeepakM,BasavaprabhuA,SatishR,AdhikariP,Soundarya M. Cerebral Toxoplasmosis Mimicking Intracranial Tuberculoma.J of Clinical Diagnostic Research 2012,6(6):1083-1085

7. Kumar S,AdhikariP,Jegannathan Physical activity in the treatment and prevention of type 2 diabetes and its complications -a critical review Ind .J of Ancient Medicine and Yoga2011,3(3-4)

8. RajeshwariS,AdhikariP,Kotian S. Comparison of antidiabetic agents among Geriatric and Non Geriatric Population. Pharmacology online 2011,3:299-304

9. ArindamChakraborty, PrabhaAdhikari, Shalini Shenoy, Shrikala Baliga, Satish Rao, DhanashreeB.Extra-intestinal β -lactamase Producing Escherichia coli Infection-an Emerging Infection in a South Indian Tertiary Care Hospital J of Clinical and Diag Res 2012
10. Basava Prabhu A, Deepak R Madi Patient with Multiple IRIS Following Initiation of Antiretroviral Therapy Journal of Clinical and Diagnostic Research; Nov 2012; 6 (9). pp. 1547-1549.
11. Basava Prabhu A, Deepak R Madi Doctor I am swaying -an interesting case of ataxia
Journal of Clinical and Diagnostic Research;2012 May; 6:702-703
12. Basava Prabhu A, Deepak R Madi A rare case of hemolytic anemia – paroxysmal nocturnal hemoglobinuria.Journal of Clinical and Diagnostic Research 2012 May; 6:725-726.
13. Basava Prabhu A, Deepak R Madi Knowledge Risk Perceptions and Attitudes of Nurses Towards HIV in a Tertiary Care Hospital in Mangalore, India; Journal of Clinical and Diagnostic Research,2012 August; 6:982-986.
14. Basava Prabhu A, Deepak RMadi Cerebral Toxoplasmosis Mimicking Intracranial Tuberculoma Journal of Clinical and Diagnostic Research, 2012 August; 6:1083-1085.
15. Basava Prabhu A, Deepak R Madi The Immunological Response after the Initiation of the Second Line Anti-Retroviral Therapy (ART) in HIV Patients Journal of Clinical and Diagnostic Research;2012 September; 6:1171-1173.

16. PavanManibettuRaghuram, BiradarMallangouda,Shivangouda, Jayakumar Jeganathan

Comparison of Siriraj stroke score and Guy's hospital score in south India Journal of Clinical and diagnostic research

17. Sushanth Kumar, Jayakumar Jeganathan, Amruthesh (2012 Study of effect of smoking on blood pressure in normotensive men International journal of medicine and public health; 2012;2(4):43-6.

18. Arun Shirali, Jyoti Kini, AnjithVupputuri, Maria Kuruvila, M. Venkatraya Prabhu.

Disseminated histoplasmosis with conjunctival involvement in an immunocompromised patient

Indian J Sex Transm Dis. 2010 Jan-Jun; 31(1): 35–38.

2013

National

1.Divya Jain, Lakshmi Jayaram, Venkatraya Prabhu M, Gopalkrishna Bhat KAntibacterial effect of neem (Azadirachtaindica) oil on multidrug resistant bacteria isolated from human infections Original full paper Int J Biol Med Res.2013; 4(4):3544-3546 indexed Yes

2..Shetty SK, Bloor A, Ullal HG, Kassam ZN, Chidhananda PS, RastogiP, et al. Death due to massive bee injury- a case report Case report J Punjab Acad Forensic Med Toxicol 2012;12(1):33-6.Indexed

3.B.SueshKumar Shetty,TanujKanchan, Ritesh G. Menezes, MahabaleshShetty,.ArchithBloor et alPoisoning fatalities in Mangalore, South India: A three year snapshot Original ResearchArticle LnternationalJournal of A J Institute of Medical Sciences Indexed

4. Uthra Mohan, S. Karthikbabu, K. Vijaya Kumar, B. V. Suresh, Z. K. Misri, Prof M. Chakrapani Effectiveness of mirror therapy on lower extremity motor recovery, balance and mobility in patients with acute stroke: A randomized sham controlled pilot trial Original Article Annals Indian Academy of Neurology. Oct 2013; Volume: 16 Issue 4:634-9.

5. Arindam Chakraborty, Prabha Adhikari, Shalini Shenoy, Shrikal Baliga, Satishrao, Dhanshree B β -lactamase Producing Escherichia coli Infection-an Emerging Infection in a South Indian Tertiary Care Hospital J of Clinical and Diag Res 2012 National -Indexed Embase, Pubmed Central 0.14

6. Kumar SP, Adhikari P, D Souza S, Sisodia V Diabetes Foot- Are existing guidelines evidence informed? Original Article Res Foot Ankle 1:e101. doi.104172/crfa.1000e101-Indexed in Google scholar, Cross Reference

7. Dr. Jayakumar J Fahr's syndrome-An interesting case presentation Case report Journal of clinical and diagnostic research 2013;7:532-33. Indexed Pubmed central; IF:0.14

8. Dr. Jayakumar J The carotid Intima Media thickness: A predictor of the clinical coronary events Original Article Journal of clinical and diagnostic research 2013;7(6):1082-85. Indexed Pubmed central IF: 0.14

9. Deepak Madi, Basavaprabhu Achappa, John T Tamapura, Nithyananda Chowta, Soundarya Mahalingam An Interesting case of dysphagia in HIV patient Case report Journal of clinical and diagnostic research 2013 March, Vol-7(3) :534-536 Indexed

10. P N S, Achappa B, Madi D, Chowta MN, Ramapuram JT Rao S, Mahalingam S The evaluation of carotid atherosclerosis in patients with the HIV-1 infection the role of the antiretroviral therapy Journal of clinical and diagnostic research 2013 ;7(2) :261-4 Indexed

11. Mittal A, Achappa B, Madi D, Chowta MN, Ramapuram JT, Rao S, Unnikrishnan B, Mahalingam S. The development of metabolic risk factors after the initiation of the second line anti-retroviral therapy. *Journal of clinical and diagnostic research* 2013 ;7(2) :265-8 Indexed

12. Madi D, Achappa B, Ramapuram JT, Chowta N, Mahalingam S. An interesting case of Dysphagia in a HIV patient. *Case report Journal of clinical and diagnostic research* 2013 ;7(3) :534-6 Indexed

13. Pai S, Madi D, Achappa B, Mahalingam S, Kendambadi R. An interesting Case of eosinophilic meningitis. *Journal of clinical and diagnostic research* 2013 ;7(4) :734-5 Indexed

14. Achappa B, Basavaprabhu and Deepak Madi and Soundaryamahalingam S. An interesting case of subcutaneous nodule. *Original Journal of clinical and diagnostic research* 2013 7(2) pp 364-365 Indexed

International

1. *Abdul Vahab Saadi, 1*Himanshu Gupta, 1Arshia Angural, 1Sreeja Kumari Dhanya, 1, aSridevi Mony, 2, bDevesh Oberoi, 2Sydney C D'Souza, 3Ramesh Chandra Sahoo, 4Manjunath H Hande, 1Puthiya Mundyat Gopinath, 1Kapaettu Satyamoorthy. Single Nucleotide Polymorphisms of ADRB2 gene and their association with susceptibility for Plasmodium falciparum malaria and asthma in an Indian population. *Original Article MEEGID 1728 S1567-1348(13)00331-6* Indexed 3.22

2. Himanshu Gupta, Sanica C. Sakharwadea, Arshia Angural, Q1 Ananthapadmanabha Kotambaila, Gopal K. Bhata, Manjunath H. Hande, Sydney C. D'Souza, Purnima Raod, Veena Kumari, Abdul V. Saadia, Kapaettu Satyamoorthy, * Evidence for genetic linkage between a polymorphism in the GNAS gene and malaria in South Indian population. *Original Article Pubmed Dec;128(3):571-7. doi: 10.1016/j.actatropica.2013.08.005. Epub 2013 Aug 17* Indexed

3. JinzyMariamGeorge, RaghavendraBhat, K. Mohan Pai, Arun S., JayakumarJeganathan on The Carotid Intima Media Thickness: A Predictor of the Clinical Coronary Events Original Article Journal of Clinical and Diagnostic Research. 2013 June Vol-7(6): 1082-1085Indexed
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7. Chowta MN, Chowta NK, Adhikari P, Shenoy AK Analysis of hemogram profile of elderly diabetics in a tertiary care hospital. Original Article Int J NutrPharmacolNeurol Dis 2013;3:126-30 Indexed
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9. DrMurlidharaYadiyal B ,Dr.Jundaiahmeddr.ashokShenoy k Dr. Nanditashenoy Recent advance in oral drug delivery system Original Article Global research analysis vol-2 Indexed
10. Dr.MurlidharaYadiyal B ,Dr.Jundaiahmeddr.ashokShenoy k Dr. Nanditashenoy Are diabeticsvictims of oral cancer? Original Article International Journal of Bioassays ISSN 2278-778x Indexed
- 11.Vijayakumar K, Prof M Chakrapani, Prof UV Shennoy Effects of Mental Practice on Functional Mobility and Quality of Life in Ambulant Stroke Subjects-at Pilot

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National

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International

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2.Rai, SP; Acharya, V; Chakrapani, M Feasibility of computed tomography angiography as an essential prerequisite tool in cases of massive hemoptysis requiring embolization in a tuberculosis prevalent South Indian population: Case series Case series West African Journal of Radiology 2014;21;53 Indexed

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9. Soundarya Mahalingam and Soori, Abhijna and *, Pradhun Ram and *, Basavaprabhu Achappa and Chowta, Mukta N and Madi, Deepak Knowledge, attitude and perceptions of mothers with children under five years of age about vaccination in Mangalore, India. Original Article Asian Journal of Medical Sciences , 5 (4). pp. 52-57. Indexed

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12. Dr. Archith Bloor Deliberate Suicide by Copper Sulphate Poisoning: Case Report with Review of Literature Case Report Austin J Forensic Sci Criminol. 2014;1(1): 3 Indexed

13. Agarwal, Sumit and Prabhu, Venkatraya M and *, Arun S and Pinto, Veena J. and Bhat, Gopalkrishna K and *, Deepti Mangla Correlation of microalbuminuria with cardiovascular morbidity in essential hypertension Original article International Journal of Clinical Cases and Investigations, 5 (6). pp. 67-76. ISSN 2229-7669 Indexed

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15. Kodan, Parul and *, Jayakumar Jeganathan and *, Seemanthani S and D'Souza, Sydney C Cognitive Impairment in Diabetes Mellitus – A Review Original article International Journal of Scientific Research, 3 (1). pp. 336-338. ISSN 2277 - 8179 Indexed

16. Madi, Deepak and *, Basavaprabhu Achappa and Bengre, Mridula Laxman and *, John T Ramapuram and Chowta, Nithyananda K and Yadlapati, Sujani and *, Soundarya Mahalingam Multiple pyogenic liver abscess Original article Asian Journal of Medical Science, 5 (2). pp. 29-33. Indexed

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19.Arindam Chakraborty,Prabha Adhikari,Shalini Shenoy,Vishwas Saralaya Clinical significance and phylogenetic background of extended spectrum β -lactamase producing Escherichia coli isolates from extra-intestinal infections J of Infection and Public Health Original article doi:10.3109/09593985.2012.731626) Indexed under Rehabilitation category of Thomson Reuters' Science Citation Index Expanded and the Social Sciences Indexed

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21.Vaibhav Mahesh Jagad1, Nandita Shenoy2*, John Ramapuram3, Junaid Ahmed2, Amitha Lewis4 and Srikant N. Oral cytology in human immunodeficiency virus (HIV): An immune marker? Original article Vol. 6(8), pp. 160-163, September 2014 DOI: 10.5897/JAHR2013.0309 Article Number: 32C1B4647862 ISSN 2141-2359 Journal of AIDS and HIV Research Indexed

The details of books published by our faculty are given below:

Year 2012

Sl#	Title	Name of the faculty	Publisher
1.	Chest X-ray Diagnosis	Dr.Raghavendra Bhat	PARAS

Year 2013

Sl#	Title	Name of the faculty	Publisher
1.	ECG-Diagnosis	Dr.Raghavendra Bhat	CBS Publishers

Year 2014

Sl#	Title	Name of the faculty	Publisher
1.	The Facts of Life	Dr. Raghavendra Bhat	Penguin UK

The details of chapters in books published by our faculty are given below:

Year 2012

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher

The details of our conference presentation have been listed below

Year 2012**National:**

Sl#	Title of the presentation	Name of the faculty	Details of conference
1	Is the effect of group exercises superior to walking in the elderly people a pilot study	Dr. Gita R Bhat	KARGERICON 2012 on 8 th and 9 th September

International:

Sl#	Title of the presentation	Name of the faculty	Details of conference
1	Improving research by undergraduate medical students in Medical college	Dr. M.V Prabhu	IAMRA 2012 19 th International conference on 2 nd to 5 th October 2012 at Ottawa
2	Immune reconstitution inflammatory syndrome (IRIS) in HIV positive patients on antiretroviral therapy (ART)	Dr. Basavaprabhu A	17 th International symposium on HIV and emerging infectious diseases (ISHEID) 23 rd and 25 th May 2012 France

3	Immunological response after initiation of second line anti-retroviral therapy in HIV patients	Dr. Basavaprabhu A	17 th International symposium on HIV and emerging infectious diseases (ISHEID) 23 rd and 25 th May 2012 France
4	A Rare Case of Hemolytic Anaemia - Paroxysmal nocturnal Hemoglobinuria	Dr. Deepak Madi	17 th International symposium on HIV and emerging infectious diseases (ISHEID) 23 rd and 25 th May 2012 France
5	Right heart failure following ingestion of gloriosa superb	Dr. AbulFazil	11 scientific congress of Asia pacific association of medical toxicology Hong Kong 14 th and 15 th August 2012
6	Clinical profile and outcome of PCR proven Leptospirosis	Dr. Ahalya Kariappa	XLVIII international congress for tropical medicine 23 rd to 27 th September 2012 Brazil

Year 2013

National:

Sl#	Title of the presentation	Name of the faculty	Details of conference
1.	A curious case of pituitary lesion. (poster) (second prize)	Dr. Christopher C. Pais	26, 27, 28 APRIL, 2013 KAPCON 2013
2.	A usual case unusual presentation. (poster)	Dr. Christopher C. Pais	26, 27, 28 APRIL, 2013 KAPCON 2013
3.	1) A rare complication of chronic pancreatitis --- 2) Gauchers disease 3) An unusual case of a coagulation disorder 4) An interesting case of painful quadriparesis .	Dr ArchithBloor	26, 27, 28 APRIL, 2013 KAPCON 2013

	5)Atypical manifestations of Dengue fever- 6) Beauty over Brains – 9) An unusual presentation of Amyloidosis 10) Bilateral facial palsy in leprosy –		
4.	1)Hemolytic Uremic Syndrome a rare Complication of Viper Envenomation- 2)Chlorpyrifos induced reversible ventricular tachycardia	Dr Archith Bloor	26, 27, 28 APRIL, 2013 KAPCON 2013
5.	1)Unusual presentation of CML as multiple skin chloromas- 2)CRP and Pancytopenia –	Dr Archith Bloor	26, 27, 28 APRIL, 2013 KAPCON 2013
6.	Hypertension at the onset of Diabetes –Double trouble	Dr. Chakrapani M	International conference of Updates in Research Ethics and Research Methodology 2013 ^{4th} to 5 th March 2013 Chennai
7.	Haematological profiles of patients with antinuclear antibodies at a south Indian tertiary care centre	Dr. Bengre Mridula Laxman	HAEMATOCON-2013 7 th to 10 th November 2013 Mumbai
8.	Peripheral insensate Neuropathy in diabetes mellitus –.	Dr Archith Bloor	3 rd Annual Medical Students international conference 9-11 August New Delhi
9.	Prevalence of Syphilis among People living with HIV (PLHIV) attending a tertiary care hospital in coastal South India. Asicon 2013, Mumbai.	Dr. Basavaprabhu A	Asicon 2013 13-15 Dec 2013 Mumbai.

10.	<p>1. An unusual case of ataxia. 2. Kapicon 2013;26-28 April 2013, Mangalore 3. A rare syndrome of symmetrical peripheral gangrene in a patient with sepsis.Kiran V H, 3. Ellis Van Crevald Syndrome-A case report and Review of literature. 4. An interesting case of tuberculosis presenting as paradoxical iris in a patient with HIV. 5. Study of radiological manifestations of pulmonary tuberculosis and their healing patterns, 6. A rare case of cutaneous T cell lymphoma. 7. Primary cutaneous large B-cell lymphoma leg type with CNS metastasis, arising from a filarial limb. 8. Prostatic abscess as a presenting feature of paradoxical tb-iris.Ching Hsia Mak,</p>	Dr Basavaprabhu A	26, 27, 28 APRIL, 2013 KAPCON 2013
11.	Prevalence of cognitive decline and its association with low blood pressure and other risk factors among the elderly- A community based study?	Dr.Sheetal Raj M.	Eleventh Annual Conference of Indian Academy of Geriatrics – GERICON 2013, held at Chennai on 13 to 15th December 2013.

International

Sl#	Title of the presentation	Name of the faculty	Details of conference
1.	Public Private Partnership in Health Care System – 60 years’ Experience of a Private Medical College in Mangalore, India.	Dr. M. Venkatraya Prabhu	PRAGUE 26.08.2013

2.	An Interesting case of Cutaneous Melioidosis	Dr. Deepak R Madi	Vienna 15 th to 18 th Feb 2013
3.	Outbreak of tuberculosis among elderly in geriatric home & Prevalence of B6 , B12 and folic acid deficiency in HIV positive Patients	Dr. Basavaprabhu A	Vienna 15 th to 18 th Feb 2013
4.	Effect of Indoor air pollution on glycemic control and complication of type 2 diabetes (T2DM) –A case control study in an outreach clinic	Dr. Prabha Adhikari	Melbourne ,Australia 2 nd to 6 th December 2013
5.	Hyperamylasemia as an indicator of acute pancreatitis in severe leptospirosis	Dr. Abul Fazil	Wuhan, China 24 th to 27 th October 2013
6.	Correlation of diabetes duration with severity of coronary artery disease	Dr. Sydney D'souza	Melbourne ,Australia 2 nd to 6 th December 2013
7.	Association between glycosylated hemoglobin and acute coronary syndrome in type 2 diabetes mellitus	Dr. Nithyananda Chowta	Melbourne ,Australia 2 nd to 6 th December 2013
8.	Hypertension in the elderly – A varying perspective	Dr. Jinzy Mariam George	Prague, Czech 2 nd to 5 th of October 2013
9.	Plummer Vinson syndrome – A case report	Dr. Deepak R Madi	Hong Kong 20 th to 22 nd November 2013
10.	Left ventricular hypertrophy in chronic kidney disease- Dr. Jayakumar J	Dr. Jayakumar J	Pokhara(Nepal) 27-9-13 to 29- 9-13
	Prevalence of B6, B12 and folic acid deficiency in HIV positive patients	Dr. Basavaprabhu A	Vienna, Austria February 15- 18, 2013

Year 2014

National

Sl#	Title of the presentation	Name of the faculty	Details of conference
1.	Paper entitled 11 beta HSD1 Gene ploymorphohism in Type 2	Dr.Prabha Adhikari	KRSSDI - 2014 Mangalore
2.	Urinary incontinence among the elderly resulst of MaSCODE	Dr.Prabha Adhikari	7 th to 9 th November 2014 Nagapur
3.	The philistine Fungus : A Case of Native Valve Fungal Endocarditis	Dr. Ahalya Kariappa	20 th to 23 rd Feb 2014 Ludhiana
4.	Bleeding and clotting disorders	Dr.Prashantha.B	25 th May 2014 Mangalore
5.	A single centre study of treatment outcomes of consecutive 32 cases of AIHA in a tertiary care centre, Dr.Prashantha.B	Dr.Prashantha.B	06/11/2014 Hyderabad
6.	Meningitis- a royal connection Bilateral facial nerve palsy Rare complication of pancreatitis	Dr. Archith Bolor	8 TH -10 TH AUGUST 2014 New Delhi
7.	Hypertension in the cognitively impaired elderly –A Boon or Bane?(Mangalore community Dementia (MaSeCoDe) Project)	Dr. Sheetal Raj	7th to 9th November 2014 Nagpur

International

Sl#	Title of the presentation	Name of the faculty	Details of conference
1.	1 st Global Manipal Alumni Health, Science & Technology convention	Dr. Raghavendra Bhat	Kaulalumpur August 2014
2.	16h ICID Congress	Dr. Deepak Madi	South Africa 5 th April 2014
3.	15th Congress of the international Society for Peritoneal Dialysis	Dr. Mayoor Vasanth Prabhu	Madrid, Spain 7th September to 10th
4.	32nd world congress of International Medicine 2014	Dr. Basava Prabhu	Korea 24th to 28th October 2014
55	32nd world congress of International Medicine 2014	Dr. Deepak Madi	Korea 24th to 28th October 2014

12. Placement record of the past students and the contribution of the department to aid student placements

Most of our students are pursuing a career of their choice. They have either joined a post-graduate course in our country or have gone abroad for further studies. Some of them start their practice immediately after graduation. Fe of them have gone into research and health administration. The department issue Letter of Recommendation for meritorious students when they leave so that they continue to carry on their studies at other national and international places.

13. Plan of action of the department for the next five year

- i. Faculty Development
 - a) To encourage to attend at least on National/International conference in a year

ii. Initiatives in Education

- a) To conduct more number of Medical education programmes and
- b) To start fellowship in Diabetes, Geriatrics and critical care

iii. Research

- a) To increase the research activities so that it leads to more publication (50% increase over next 5 year)
- b) To encourage post graduates in conversion of post graduated thesis in to publication.

GENERAL SURGERY

1. Faculty profile - adequacy and competency of faculty

There are thirty two teaching faculty members who meet the requirements for MBBS, Dental and other allied health sciences and also for postgraduate training as per the requirements of the regulatory bodies. All faculty members are competent.

Faculty list:-

Sl#	Name of the Faculty	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. Alfred J Augustine	MBBS MS, FRCS	Professor & HOD	20
2.	Dr. B.Manjunath Nayak	MBBS MS., D Ortho	Professor	34
3.	Dr. Thangam Varghese	MBBS MS., M Ch	Professor	31
4.	Dr. K.Jayarama Shenoy	MBBS MS	Professor	30
5.	Dr. K. Harish Rao.	MBBS MS	Professor	26
6.	Dr. H.Shivananda Prabhu	MBBS MS	Professor	18
7.	Dr. B.K. Shivaprasad Rai	MBBS MS	Professor	25
8.	Dr. M.Sriram Bhat	MBBS MS	Professor	23
9.	Dr. Yogesh Kumar	MBBS MS	Professor	23
10.	Dr. Manohar V. Pai	MBBS MS	Addl. Prof	16
11.	Dr. Ashok B. Shetty	MBBS MS MCh. (CTS)	Professor	25
12.	Dr. Suresh Pai M.	MBBS MS MCh. (CTS)	Professor	32
13.	Dr. K. Ramachandra Pai	MBBS MS	Professor	31
14.	Dr. U.Anand Kini	MBBS MS.,M Ch (Plastic Surg)	Assoc. Prof.	30
15.	Dr. Ashfaque Mohammed	MBBS MS, DNB	Assoc. Prof.	14
16.	Dr. Keshav Prasad Y. V.	MBBS MS	Assoc. Prof.	09
17.	Dr. Poorna Chandra Thejeswi	MBBS MS, DS	Assoc. Prof.	08
18.	Dr.Chandra Kumar Ballal	MBBS MS,, M.Sc.(NeuroSurg)	Assoc. Prof.	27
19.	Dr. Sadashiva Rao P.	MBBS MS, M.Ch(Paed. Surg)	Assoc. Prof.	19
20.	Dr. Shibumon MM	MBBS MS	Assoc. Prof.	08
21.	Dr. Sunil Kumar Shetty	MBBS MS	Assoc. Prof.	07
22.	Dr. Rahul R. Bhat	MBBS MS	Assoc. Prof.	07
23.	Dr. Rohan Shetty	MBBS MS, M Ch (Neuro Surg)	Assoc. Prof	01
24.	Dr. Venkatesh Shanbagh	MBBS MS	Asst. Prof.	07
25.	Dr. Ranjith Rao	MBBS MS	Asst. Prof.	05
26.	Dr. Vivek M. A.	MBBS MS	Asst. Prof.	02

27.	Dr Aravindan	MBBS MS	Asst. Prof.	<01
28.	Dr. Sushruth Shetty	MBBS MS	Senior Resident	01
29.	Dr. Sunil Kumar Math	MBBS MS	Senior Resident	01
30.	Dr. Mohan Kumar	MBBS	Junior Resident	02
31.	Dr. J. Ravi Teja	MBBS	Junior Resident	02
32.	Dr. Sagar H C	MBBS	Junior Resident	02
33.	Dr. Siddha K LokaVijayan	MBBS	Junior Resident	02
34.	Dr. PotnuruVamsi Krishna	MBBS	Junior Resident	02
35.	Dr. K. SaiTheja	MBBS	Junior Resident	02
36.	Dr. Karunakar Reddy Chalimidi	MBBS	Junior Resident	02
37.	Dr.Lokesh B	MBBS	Junior Resident	02
38.	Dr. Sanjog Sharma	MBBS	Junior Resident	02
39.	Dr. Mrunalini B.R	MBBS	Junior Resident	02
40.	Dr. Ashwin Kumar. C	MBBS	Junior Resident	01
41.	Dr. Bijan Kumar Shah	MBBS	Junior Resident	01
42.	Dr. Pavan Chandar	MBBS	Junior Resident	01
43.	Dr. Pulla Reddy Seelam	MBBS	Junior Resident	01
44.	Dr. Maramreddy Revanth	MBBS	Junior Resident	01
45.	Dr. Prathibha B Naik	MBBS	Junior Resident	01
46.	Dr. Shabin Fahad	MBBS	Junior Resident	01
47.	Dr. Nutheti Mohan	MBBS	Junior Resident	01
48.	Dr. Sunil Kumar Sajjan	MBBS	Junior Resident	01
49.	Dr. Dhananjay Kumar	MBBS	Junior Resident	01
50.	Dr. Suraj Pai.M	MBBS	Junior Resident	<01
51.	Dr. Anjana Sreedharan	MBBS	Junior Resident	<01

52.	Dr. Nigil Abdul Jalal	MBBS	Junior Resident	<01
53.	Dr. Shrijith	MBBS	Junior Resident	<01
54.	Dr. Manasvi	MBBS	Junior Resident	<01
55.	Dr. Niket Mayank	MBBS	Junior Resident	<01
56.	Dr. Venkatesh G.	MBBS	Junior Resident	<01
57.	Dr. C Akshay Ajay Nikita	MBBS	Junior Resident	<01
58.	Dr. Syed Mahmood Ayaz	MBBS	Junior Resident	<01
59.	Dr. S.V Kinnera	MBBS	Junior Resident	<01

Category	Sanctioned	Filled
Teaching staff	24	26
Senior resident	15	02
Junior resident	30	30

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by MCI and the department strictly complies with the laid down requirement. Board of studies consisting of all the Professors and representatives from associate as well as assistant professor level meet at regular intervals to discuss the curriculum and the conduct examination. The decisions made during the last meeting held on 13th June 2013 saw the following decisions made

1. All UG students are requested to maintain log books which have to be scrutinized by faculty taking clinical class at the end of every session.
2. Matters related to PG & UG examination.

4. Trends in the success and dropout rates of students during the past two years:

Course	Pass Percentage		Dropout Rate			
		2013-2014	2014-2015		2013-2014	2014-2015
MBBS Regular Repeater		94% 67%	92% Awaited		0	0
MS (Gen. Surg.) Regular Repeater		40% 100%	80% Awaited		0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has library with about 200 reference books in the subject & 14 Journals for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition department also has 2 desktop computers complete with multi-functional printers and 1 LCD.

The department laboratories cater to the requirements of PG curriculum.

There are three demonstration rooms and 1 seminar room equipped with audio visual aids to facilitate teaching & learning. .

6. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to

function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience in diagnosing and managing patients with respiratory illnesses as well as different settings including primary, secondary and tertiary levels. Specific stress is laid on Community Health. The graduate medical education in our department is based primarily on out-patient teaching, emergency departments and in-patients. During the postings the students are encouraged to look at the totality and not just a sum of parts. The students are taught to integrate various system findings and arrive at the diagnosis. While planning the management, aspects of health socio-economics and ethics are stressed upon.

Clinics are organised in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills. The department uses the facilities of a clinical skills lab to provide hands on training to students.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical or community cases and exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Bed-side clinics
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

7. Participation of teachers in academic and personal counseling of students.

There is no formal participation by the faculty of the department. However, the faculty members provide feedback to students on a continual basis and counsel them when the need arises.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Faculty development programmes:

2013

Name of the Faculty & Designation	Name of the programme	Dates	Venue
1) Dr. Keshava Prasad Y.V Assoc., Professor	“Lesson Plan Preparation”	31 st July 2013	KMC,M’lore
2) Dr. Poornachandra Tejaswi Assoc. Prof	“Lesson Plan Preparation”	31 st July 2013	KMC,M’lore
3) Dr. Venkatesh Shanbhag M Asst. Prof	“Lesson Plan Preparation”	31 st July 2013	KMC,M’lore
4) Dr.Sunil Kumar Shetty Assoc. Prof	“Lesson Plan Preparation”	31 st July 2013	KMC,M’lore
5) Dr. Sunil Kumar Shetty Assoc. Prof	“Basic Workshop on Medical Education Preparation”	19 th to 24 th September 2013	KMC,M’lore
6) Dr. Shibumon M M Asst. Prof	“Basic Workshop on Medical Education Preparation”	19 th to 24 th September 2013	KMC,M’lore
7) Dr. Shivananda Prabhu. H Professor	“How to conduct Journal Club”	25 th September 2013	KMC,M’lore
8) Dr. U Anand Kini Assoc. Prof	“How to conduct Journal Club”	25 th September 2013	KMC,M’lore
9) Dr. U Anand Kini Assoc. Prof	“No Power Communication”	16 th November	KMC,M’lore

2014

Name of the Faculty	Name of the programme	Dates	Venue
1) Dr. Keshava Prasad Y.V Assoc. Prof	“Basic met Workshop”	7 th to 9 th August 2014	KMC,M’lore
2) Dr. Rahul Bhat Asst. Prof	“Basic met Workshop”	7 th to 9 th August 2014	KMC,M’lore
3) Dr. Alfred J. Augustine Professor	“Workshop on Integrated Teaching What, Why & How”	4 th December 2014	KMC,M’lore
4) Dr. Alfred J. Augustine Professor	“Workshop on mentoring of medical students”	11 th January 2014	KMC,M’lore

9. Participation / contribution of teachers to the academic activities including teaching, Consultancy and research.

All the faculties are actively involved in teaching UG and PG students. All of them participate in research.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

The department presently does not have any such initiatives.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority areas for Research:

- 1) Respiratory function after Laparoscopic Surgery
- 2) Cholecystectomy - Laparoscopic Surgery
- 3) Clinical Trails

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
PhD research projects	1
PG research projects	20

Last 3 years (2013-2014):

	2013	2014
Completed funded research projects	0	0
Completed non-funded research projects	0	0
Completed PhD research projects	0	0

Completed PG research projects		10	10
Completed UG research projects		5	1
Publications	International	9	11
	National	2	3
Books		0	4
Chapters in books		0	4
Conference presentations	International	4	0
	National	6	5

The detailed outline of projects is given below:

Our ongoing PhD research projects are:

Sl#	Title	Name of student	Name of the guide
1.	Comparison of diaphragmatic breathing exercise, volume and flow incentive spirometry on diaphragm excursion and pulmonary function in patients undergoing laparoscopic surgery – a randomized controlled trial	Gopala Krishna Alaparathi	Dr. Alfred J Augustine

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1.	Factors affecting recovery in bowel Surgery	Dr. Ashwin Kumar C	Dr. Harish Rao
2.	Early outcome of operative and non-operative management of grade II, III and IV type of splenic trauma	Dr. Bijan Kumar Saha	Dr. Jayarama Shenoy
3.	Correlation Between clinical profile of patients and Receptor status in Carcinoma Breast	Dr. Pavan Chandhar Dudde	Dr. Shivananda Prabhu
4.	Conservative versus surgical intervention in management of recurrent venous ulcers	Dr. Pulla Reddy Seelam	Dr. Yogesh Kumar
5.	Comparison of Split skin graft survival in Diabetic/non diabetic wound management	Dr. Maramreddy Revanth	Dr. Shivaprasad Rai
6.	A prospective study comparing wound outcome in scalpel and electro A prospective study comparing wound outcome in scalpel and electrocautery dissection for skin and subcutaneous tissue cautery dissection for skin and subcutaneous tissue	Dr. Prathibha B Naik	Dr. Sriram Bhat
7.	Role of Matrix Metalloproteinase-9 in Direct and Indirect Inguinal Hernia	Dr. Shabin Fahad	Dr. Alfred J Augustine
8.	Intra-Abdominal pressures in Incisional Hernia Surgeries	Dr. Nutheti Mohan	Dr. Alfred J Augustine
9.	Evaluation of role of heparin in cellulitis	Dr. Sunil Kumar Sajjan	Dr. Manohar V Pai
10.	Comparative study of local flaps versus non	Dr. Dhanjaya Kumar	Dr. Ashfaque

	flap techniques of wound closure following resection in oral malignancy		Mohd
11.	Evaluation of role of Diagnostic Laproscopy in patients non specific abdominal pain with co-relation with clinical and radiological findings	Dr. Suraj Pai.M	Dr. Ashfaque Mohd
12.	HIV/AIDS-Occupational risk, attitudes and behavior of the surgical team.	Dr. Anjana Sreedharan	Dr. Harish Rao
13.	Comparative assessment of prognosis of acute pancreatitis on admission with harmless acute pancreatitis scoring system and apache scoring system.	Dr. Nigil Abdul Jalal	Dr. Keshavprasad Y V
14.	Early predictive factors of hypocalcaemia after total thyroidectomy	Dr. Shrijith	Dr. Sriram Bhat M
15.	Comparison of recurrent laryngeal nerve injury in total and sub total thyroidectomy for multi nodular Goiter	Dr. Manasvi	Dr. Manohar V Pai
16.	Comparative study of open preperitoneal approach and Laproscopic TEP approach in inguinal hernia repair	Dr. Niket Mayank	Dr. Jayrama Shenoy
17.	Comparative study of colonoscopy vs sigmoidoscopy in patients with haemorrhoids	Dr. Venkatesh G.	Dr.H.Shivananda Prabhu
18.	Randomised control trial lightweight mesh vs conventional mesh for lichtenstein's inguinal hernioplasty	Dr. C Akshay Ajay Nikita	Dr.Alfred J Augustine
19.	Comparative study between collagen dressing and conventional dressing in healing of wound in split skin graft donor area	Dr. Syed Mahmood Ayaz	Dr. B.K.Shivaprasad Rai
20.	A descriptive study of analysis of intra-operative pancreatic juice aspirate in chronic pancreatitis in patients undergoing lateral pancreatic Jejunostomy	Dr. S.V Kinnera	Dr. Yogesh Kumar

Our completed PG research projects are:

Year 2013

Sl#	Title	Name of the student	Guide
1	Comparison of post operative outcomes of roux-en-y reconstruction with loop reconstruction in upper gi surgeries	Dr. Sunil Kumar Math	Dr. Yogesh Kumar
2	Study of post operative fever in patients undergoing clean surgeries	Dr. Baid Anand Ravindra	Dr. Thangam Varghese
3	Relationship of intravenous fluid therapy to electrolyte imbalance in upper gastrointestinal surgeries	Dr. Tekalkote Sudheendra	Dr. Harish Rao

4	Evaluation of various procedures in the management of rectal prolapse	Dr. Hemanth Makineni	Dr. B.K. Shivaprasad Rai
5	Comparing the outcomes of different surgical approaches for chronic pancreatitis	Dr. Srikanth Soma	Dr. Sriram Bhat
6	Is laparoscopic cholecystectomy following endoscopic retrograde cholangiopancreatography technically more difficult?	Dr. Gorla Guru Prasad Reddy	Dr. Alfred J Augustine
7	Study on complications of chronic lymphedema	Dr. Aromol Chekavar. S	Dr. H. Shivananda Prabhu
8	Surgical outcomes: open versus laproscopic repair for inguinal hernia	Dr. Abid Ali Mirza	Dr. Alfred J Augustine
9	Sentinel lymph node biopsy for breast cancer using methylene blue	Dr. Rama Mani Lam	Dr. Manohar Pai
10	Comparison of ripsa and alvarado score in the diagnosis of acute appendicitis	Dr. Nanjundiah N	Dr. Ashfaque Mohd.

Year 2014

Sl#	Title	Name of the student	Guide
1	Comparison between Ultrasound guided and non-guided foam sclerotherapy for varicose veins	Dr. Mohan Kumar SK	Dr. Sriram Bhat
2	Comparison of Post-operative pulmonary complications in elective and emergency laparotomy an observational study	Dr. J. Ravi Teja	Dr. Shivaprasad Rai
3	Surgical site infection in patients with diabetes mellitus following clean surgeries	Dr. Sagar H C	Dr. Ashfaque Mohd
4	Efficacy of modified vacuum assisted wound closure in wound healing	Dr. Siddha K Loka Vijayan	Dr. Thangam Varghese
5	Surgical reconstruction in oral malignancy: A descriptive study	Dr. Potnuru Vamsi Krishna	Dr. Harish Rao
6	Role of diagnostic laparoscopy in the management of locally advanced Gastro Oesophageal, Pancreatic and Colorectal cancers	Dr. K. Sai Theja	Dr. Manohar V Pai

7	Efficacy of sterile collagen particles in management of chronic non healing ulcers	Dr. Karunakar Reddy Chalimidi	Dr. Yogesh Kumar
8	Comparing effectiveness of nifedipine with dilgiazem and nitroglycerine in treating anal fissure – A prospective study	Dr.Lokesh B	Dr Jayarama Shenoy
9	Is Routine Histopathological Evaluation of Indirect Inguinal Hernia Sacs in Adults Justified?	Dr. Mrunalini B.R	Dr. Alfred J Augustine
10	Comparison of efficacy between conventional excisional technique and ligasure for haemorrhoids, an Observational study	Dr. Sanjog Sharma	Dr. Shivananda Prabhu

The details of our publications are described below.

Year 2013

National:

1. Yogesh Kumar, Veerapur,Basavaraj G, Math,Sunil Kumar , Y P Raghavendra Babu
“Comparison of clinical outcome and post operative complications in Roux-en-y pharmaceutical and biomedical sciences”
28 (28) pp.646-649: ISSN 2230-7885
2. Saha, Debarshi and Kini, Ullal Anand and Kini, Hema
“Cutaneous Neurocristic Hamartoma Presenting as Cutis Verticis Gyrate”

International:

1. Somu Karthik, Alfred Joseph Augustine, Mundunadackal Madhavan Shibumon, Manohar Varadaraya Pai
“Analysis of laparoscopic port site complications: A descriptive study”
Journal of Minimal Access Surgery 2013: Volume: 9 Page: 59-64
2. V Murthy, M V Pai, R Bhat, P Thejeswi
“Comparative study of Hand sutures versus staplers in elective gastric surgeries in a South Indian Population”
The Internet Journal of Surgery. 2013 Volume 30 Number 2
3. A R, S Shetty, S Rai, R Bhat, S Rao, P Thejeswi. P, S R HS
“Comparison of Early Postoperative Complications of Laparotomies in Diabetics and Non-Diabetics – A Study on South Indian Population”
The Internet Journal of Surgery. 2013 Volume 30 Number 4

4. P B Babannavar, P Thejeswi, Ravishankar, S P Rao, R Aravindan, S Ram H S
 “Role of Laparoscopy in Diagnosis and Management of Acute Abdomen – In South Indian Population”
 The Internet Journal of Surgery 2013 Volume 30 Number4
5. Yogesh Belagali, Alwar M C, Poornachandra Thejeswi, Ullal Sheetal D, Vani Bhagwath, Ashok Shenoy K, Mukta Chowta, Sahana D Acharya
 “A Critical Evaluation and Comparison of Antimicrobial Prophylaxis in Elective Surgeries Across three Hospitals”
 DOI: 10.7860/JCDR/2013/ 5362.3063
6. Mukunda Narayanareddy, Venkatesh Shanbhag, Tara V Shanbhag, Ganesh Bhat, Smita Shenoy
 “A Retrospective study of the Drug Prescribing Pattern in Crohn’s Disease in a Tertiary care Hospital”
 International Journal of Pharmaceutical Sciences Vol: 2 2013: 67-74
7. S K Shetty, M.Shankar
 “A clinical study of Right Iliac Fossa Mass”
 The Internet Journal of Surgery Vol.30 2013
8. Keshav Prasad
 “Bilateral Branchial Apparatus Anomaly – a Rare Case”
 Surgery: Current Research
9. Keshav Prasad
 “Bilateral Primary Angiosarcoma of the Breast”
 Case reports in Surgery
10. Gopala Krishna Alaparathi, Alfred J Augustine, Anand R, Ajith Mahale
 “Chest physiotherapy during immediate postoperative period among patients undergoing laparoscopic surgery – A Randomized Controlled Pilot Trail”
 International Journal of physiotherapy and Research, Int J physiother Res 2013, Vol (5):274-78 ISSN: 2321-1822

Year 2014

National

1. Aromal Chekavar, Prabhu Shivananda, Kini Anand, Thejeswi Poornachandra
 “Study on Chronic Lymphedema”
 Journal of Evolution of Medical and Dental Sciences Vol: 3 March 2014 Page No: 3009-3015

2. Radha R Pai, Khadilkar U, Kini U Anand
 “Lymph node infarction and lymphoma”
 Journal of Pathology of Nepal Vol: 4 May 2014, Page: 591- 593
3. Augustine J Alfred
 “A comprehensive predictive scoring method for difficult laparoscopic cholecystectomy”
 Journal of Minimal Access Surgery Vol: 10 Apr-June 2014 Page: 62-67

International

1. Shibumon MM, Bhat Rahul, Bharath K and Augustine, Alfred Joseph
 “Routine laparoscopy in male patients with RLQ pain: a single centre experience”
 Journal of Dental and Medical Sciences
2. Karunakar Reddy CH, Poornachandra Thejaswi, Hema Kini, Suchita Shenoy, Shivananda Prabhu
 “Phaeohyphomycotic cyst in the Foot by Exophiala”
 Journal of Clinical and Diagnostic Research Nov.2014 Vol.8 (11)
3. Anand R Baid, Sunil Kumar Shetty, Thangam Verghese J
 “Study of Post-Operative Fever in patients undergoing clean Surgeries”
 Journal of Dental and Medical Sciences Vol: 13 – Apr.2014 Page No: 99-102
4. Rahul R Bhat, Manohar V Pai, Shankar Ram HS, Reddy Sandeep, Shivaprasad Rai, Poornachandra Thejeswi, Shivananda Prabhu
 “Comparison of Sugar and Honey Dressings in Healing of Chronic Wounds”
 Journal of Dental and Medical Sciences Vol: 13 (5) – Apr.2014 Page No: 84-8
5. Rahul R Bhat, Shibumon MM and Naik Prathibha, Shankar Ram, Prabhu Shivananda, Manohar V Pai, Poornachandra T
 “Tuberculosis mastitis – Still a Great Masquerader”
 Journal of Dental and Medical Sciences Vol: 13 (7) – July.2014 Page No: 78-82
6. Abid Ali Mirza, Alfred J Augustine, Shibumon MM
 “Surgical Outcomes Open versus Laparoscopic Repair for Inguinal Hernia”
 Journal of Dental and Medical Sciences Vol: 13 (4) – Apr.2014 Page No: 46-49
7. Guru Prasad Reddy Gorla, Alfred J Augustine, Shibumon MM
 “Optimal Timing of Laparoscopic Choecystecomy after Endoscopic Retrograde Cholangiopancreatography”
 Journal of Current Surgery Vol: 4(2) 2014 page: 35-39
8. Makineni Hemanth, Thejeswi Poornachandra, Rai Shivaprasad B K
 “Evaluation of Clinical Outcomes after Abdominal Rectopexy and Delorme’s Procedure for Rectal Prolapse: A Prospective study”

- Journal of clinical and Diagnostic Research Vol: 8(5) May 2014 Page: 4-9
9. Poornachandra Thejeswi, Reddy Guru Prasad, Prabhu Shivananda
“Gall bladder carcinoma in a young male – a rare presentation”
Journal of Dental and Medical Sciences Vol: 13 April 2014 Page: 42-45
 10. Makineni Hemanth, Thejeswi Poornachandra, Prabhu Shivananda, Bhat R Rahul
“Giant peritoneal Loose Body a case report and review of literature”
Journal of Clinical and Diagnostic Research Vol: 8(1) – Jan 2014 Page 187-188
 11. Vijayan Loka Siddha, Shetty Sunil, Sri Ram Bhat, Suyog Shetty
“Retroperitoneal Schwannoma an Atypical Presentation”
Journal of Critical and Diagnostic Research VO: 8(10) Oct-2014 Page: 22-23

The details of books published by our faculty are given below:

Year 2014

Sl#	Title	Name of the faculty	Publisher
1	SRB’s Surgical Operations a text and Atlas first edition in June – 2014	Dr. Sriram Bhat	J P Brothers
2	SRB’s Surgery for dental students 2 nd edition – August 2014	Dr. Sriram Bhat	J P Brothers
3	SRB’s clinical methods in Surgery 2 nd edition – January 2015	Dr. Sriram Bhat	J P Brothers
4	3 rd addition of “History taking” - 2015	Dr. H. Shivananda Prabhu	J P Brothers

Year 2013

The details of our conference presentations have been listed below.

National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Multiple Z – Plasty – in Surgical Treatment of Pilonidal Disease of Sacro Coccygeal Area	Dr. K.Jayarama Shenoy	ASICON-2013
2	Fourniers Gangrene: Our Experience	Dr. Keshav Prasad Y.V	Karnataka ASI State Conference
3	Ampullary vs, Periapillary carcinomas stage bases prognosis: is there any difference?	Dr. Keshav Prasad Y.V	IHPBA National Conference
4	Clinical and pathological profile of carcinoma esophagus: A retrospective study of 195 patients	Dr. Keshav Prasad Y.V	IAGES National Conference
5	Sentinel lymph node biopsy for breast cancer using methylene blue	Dr. Rama mani lam	ICC conference

6	Study of post operative fever in patients undergoing clean surgeries	Dr. Anand Ravindra Baid	23 rd National Conference of IASC
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International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	“Pre-operatvie ERCP is a significant difficulty predictor for Laparoscopic Cholecystectomy – an analysis”	Dr. Ranjith Rao M	10 th Annual Conference of Indian Chapter of International Hepato Pancreato Biliary Association
2	Unicentric Castleman’s Disease Mimicking Retroperitoneal Mesenchymal Tumor	Dr. Ershad Hussain Basha G	ENDOSURG 2013 International Minimal Access Surgery Conference
3	Clinical outcome comparison between Roux en Y anastmosis with Loop jejunostomy in upper GI Surgeries	Dr. Sunil Kumar Math	ENDOSURG-213
4	Post ERCP laparoscopic cholecystectomy Technical difficulties	Dr. Guru Prasad Reddy Gorla	ENDOSURG 2013

Year 2014

The details of our conference presentations have been listed below.

National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Open Pre-peritoneal approaches to Groin hernias in laparoscopic era	Dr. K.Jayarama Shenoy	ASICON-2014
2	Management of Biliary Tract Diseases with Available Minimum Modalities at a District Hospital	Dr. Sunil Kumar Math	IHPBA 2014
3	Efficacy of collagen particles in management of chronic non healing ulcers	Dr. Karunakar Reddy	APSICON 2014
4	Surgical reconstruction in oral malignancy: A descriptive Study	Dr. Ponuru Vamsi Krishna	APSICON 2014
5	Is vacuum dressing possible in low resource setings	Dr. Siddha Loka Vijayan	APSICON 2014

12. Placement record of the past students and the contribution of the department to aid student placements.

Most of our students are pursuing a career of their choice. Many of our freshly passed out post-graduates get into Mch programmes. Some of them join the institution as teaching faculty. Those who join as teaching faculty are encouraged to get involved in more and more research activities so that their academic progression is facilitated.

13. Plan of action of the department for the next five years

1. Starting “Surgical technology training lab” such that PG students as well as junior faculty can get “hands on” training in the basics of laparoscopy.
2. To establish a “centre of excellence” in advanced laparoscopic surgery at KMC Hospitals, Mangalore. The department hopes to carry out surgeries like bariatric surgery, oncosurgery, fundoplication etc. laparoscopically at regular frequency once the infrastructure is in place
3. Encourage staff members to enhance research activities such that at least 10 original research articles are published in indexed journals in the next 3 years.
4. To hold CME programmes at regular intervals
5. To improve patient satisfaction through dedicated clinical work such that the bed occupancy and revenue generation always remains above the targeted level.

OBSTETRICS & GYNAECOLOGY

1. Faculty profile - adequacy and competency of faculty

There are twenty five teaching faculty which meets the requirements for MBBS, and other allied health sciences and also for postgraduate training as per the regulatory body requirements. All faculties are competent.

Faculty List

Sl#	Name of the Faculty	Qualification	Designation	Teaching Experience (Yrs)
1	Dr.A.ArunRao	MBBS DGO, MD	Professor &Head	27
2	Dr.S.R.Nayak	MBBS DGO, MD	Professor	25
3	Dr.PralhadKushtagi	MBBS MD, DNB, FICOG	Professor	26
4	Dr.SuchitraThunga	MBBS DGO, MD	Professor	18
5	Dr.PriyaBallal K.	MBBS MD	Professor	14
6	Dr.Vijaya M. Revankar	MBBS MD	Assoc. Prof.	15
7	Dr.NinaAjithMahale	MBBS MD	Assoc. Prof.	13
8	Dr.Anupama Suresh Y.	MBBS DGO, DNB	Assoc. Prof.	11
9	Dr.B.Poornima R.Bhat	MBBS MD	Assoc. Prof	11
10	Dr.BharathiRao	MBBS MD	Assoc. Prof.	10
11	Dr.Anagha J. Kamath	MBBS MD	Assoc. Prof.	09
12	Dr.Jyothi Harish Rao	MBBS MS	Assoc. Prof.	07
13	Dr.Rajalaxmi Kamath	MBBS MD	Assoc. Prof.	06
14	Dr.ShraddhaShetty K.	MBBS MS	Assoc. Prof.	05
15	Dr.Sharan J. Pal	MBBS DGO, DNB	Asst. Prof.	11
16	Dr.NikilShetty	MBBS MS	Asst. Prof.	07
17	Dr.VittalSaralaya	MBBS DGO, MD	Asst. Prof.	06
18	Dr.Supriya K.	MBBS MS	Asst. Prof.	05
19	Dr.AdithiShetty	MBBS MS	Asst. Prof.	04
20	Dr.RashmiPolnaya	MBBS MS	Asst. Prof.	05
21	Dr.AshaShanbhag	MBBS MS	Asst. Prof.	04

22	Dr.Lynsel Hilda Texeira	MBBS MS	Asst. Prof.	03
23	Dr.Akanksha Gupta	MBBS MS	Senior Resident	02
24	Dr.Pundalik Baliga	MBBS MS	Senior Resident	01
25	Dr.Ambika Hegde	MBBS MS	Senior Resident	<01
26	Dr.Mrudhula Thota	MBBS	Junior Resident	02
27	Dr.Lavu Narmada	MBBS	Junior Resident	02
28	Dr.Swathi Gudage	MBBS	Junior Resident	02
29	Dr.Silpa Sindhoora Kadiyala	MBBS	Junior Resident	02
30	Dr.Akshay V.Prabhu	MBBS	Junior Resident	02
31	Dr.Shreeji Goyal	MBBS	Junior Resident	02
32	Dr.Deepika Bansal	MBBS	Junior Resident	02
33	Dr. Vasavi Korupolu	MBBS	Junior Resident	02
34	Dr.Swathi Kotha	MBBS	Junior Resident	02
35	Dr.Bharathi P.	MBBS	Junior Resident	02
36	Dr.Palem Gowthami	MBBS	Junior Resident	01
37	Dr.Sneha Sharma	MBBS	Junior Resident	01
38	Dr.Anusha Emani	MBBS	Junior Resident	01
39	Dr.Sree Chandana Damineni	MBBS	Junior Resident	01
40	Dr.Varnika Rastogi	MBBS	Junior Resident	01
41	Dr.Mrinalini Mitra	MBBS	Junior Resident	01
42	Dr.Jagadevi	MBBS	Junior Resident	01
43	Dr.Sharadhi C.	MBBS	Junior Resident	01
44	Dr.Swathi Mittal	MBBS	Junior Resident	01
45	Dr.Gagandeep Kaur	MBBS	Junior Resident	01

46	Dr.Rekha Parimkayala	MBBS	Junior Resident	<1
47	Dr.Sowmya R	MBBS	Junior Resident	<1
48	Dr.Nithya P.J.	MBBS	Junior Resident	<1
49	Dr.Bhavya Adla	MBBS	Junior Resident	<1
50	Dr.Manjushree Prabhu G.	MBBS	Junior Resident	<1
51	Dr.Mubeenara Quazi	MBBS	Junior Resident	<1
52	Dr.Shilpa G.R.	MBBS	Junior Resident	<1
53	Dr.S.K.Deepika Dammavalam	MBBS	Junior Resident	<1
54	Dr.B.Nikhitha	MBBS	Junior Resident	<1
55	Dr.G.Geya	MBBS	Junior Resident	<1

Category	Sanctioned	Filled
Teaching staff	17	22
Senior resident	08	03
Junior resident	10 per year	10

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

We follow guide lines laid by MCI and have to adhere to it.

4. Trends in the success and dropout rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2012-2013	2013-2014	2014-2015	2012-2013	2013-2014	2014-2015
MBBS	88	87	83	0	0	0
MS	100	100	100	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

We have a well equipped departmental library and it is periodically updated. We return old editions of standard text books for the latest.

We have a computer in fact two and with internet and internet we have all the journals/periodicals on line and can access from the department.

Soon we will be getting a work station for Laparoscopic training in the department. A central mannequin lab where we teach both students and post graduates.

6. Modern teaching methods practiced and use of ICT in teaching – learning:

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Each lecture session is planned to deliver maximum relevant information to the student. The clinical aspect as well as rationality is discussed with the students. At the end of the class the students are quizzed and the objectives of the class are re-emphasized.

Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Seminars/Self-directed learning
- Demonstrations and Practical exercises

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. This is achieved by student seminars deliberated by a group of students (about 5-6 under the guidance of a faculty member) discussing a particular topic for 60 minutes

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

E learning: The e-learning modules are available on the intranet portal of Manipal University which the students are required to access for self-directed learning.

7. Participation of teachers in academic and personal counseling of students

Our teachers are called periodically to lecture at local forums and in meeting and conferences. For students who are falling behind we take more interest, hold extra classes and encourage them.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

The entire faculties have to go through learning / teaching skill and such refresher courses. These workshops lay stress on developing teaching-learning and evaluation skills.

The names of the staff members who have attended the course and successfully completed the teaching learning programme

2012

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1.	Dr.Supriya K.	Personality development and public speaking	13 th &14 January 2012	Medical Education Unit KMC Mangalore.
2.	Dr.Adithi Shetty	Basic Medical Education technology Clinical learning Electronic Module	9 th to 13 th Oct.2012 13 Dec 2012	Medical Education Unit KMC Mangalore.
3.	Dr.Shraddha Shetty	Basic Medical Education technology	9 th to 13 th Oct. 2012	Medical Education Unit KMC Mangalore
4.	Dr.RashmiPolnaya	Personality development and public speaking	13 th &14 January 2012	Medical Education Unit KMC Mangalore.

5.	Dr.Lynsel H Texeira	Basic Medical Education technology	9 th to 13 th Oct. 2012	Medical Education Unit KMC Mangalore
6.	Dr.Asha Shanbhag	Basic Medical Education technology	9 th to 13 th Oct 2012	Medical Education Unit KMC Mangalore

2014

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Dr.Vijaya M.Revankar	Basic Medical Education Technologies	7 th to 12 th August 2014	Medical Education Unit KMC Mangalore
2	Dr.Poornima R.Bhat	Basic Medical Education Technologies	7 th to 12 th August 2014	Medical Education Unit KMC Mangalore

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

Many of the faculty members have attended National and International conferences and presented papers / poster etc.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

As such we at present do not have any .There is a request from Yoga department Mangalore – effects of Yoga to alleviate Dysmenorrheal in teenage girls. We are working on that.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Our priority areas for research are – Pre-eclampsia, pre pregnancy induced hypertension occurring during monsoon in Dakshina Kannada district.

Ongoing:

Category	Number
PG research projects	20
UG research projects	1

Last 3 years (2012-2014):

		2012	2013	2014
Completed PG research projects		10	10	10
Completed UG research projects		2	3	1
Publications	International	8	15	19
	National	5	6	5
Chapters in books		6	9	0
Conference presentations	International	3	0	2
	National	6	2	0

The detailed outline of projects is given below:

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1.	One step procedure for screening and diagnosis of gestational diabetes mellitus	Dr.MrudhulaThota	Dr.Suchitra Thunga
2.	Prediction of hypertensive disorders of pregnancy in early second trimester by serum β -hcg and lipid profile.	Dr.Lavu Narmada	Dr.Vijaya M. Revankar
3.	Study of length of normal pregnancy	Dr.SwathiGudage	Dr.Priya Ballal K.
4.	Transdermal nitroglycerin v/s oral nifedipine for inhibition of preterm labor	Dr.SilpaSindhooraKadiyala	Dr.Bharathi Rao
5.	The correlation in antepartum fetal surveillance between full biophysical profile and rapid biophysical profile	Dr.AkshayV.Prabhu	Dr.NinaA.Mahale
6.	A clinical study of amniotic fluid index versus umbilical artery Doppler velocimetry in prediction of perinatal outcome	Dr.ShreejiGoyal	Dr.Anupama Suresh
7.	Study of urine calcium creatinine ratio and microalbuminuria in prediction of preeclampsia	Dr.Deepika Bansal	Dr.S.R.Nayak
8.	A study of serum magnesium levels in preterm labour	Dr. VasaviKorupolu	Dr.A.ArunRao
9.	Development of risk scoring system for prediction of mode of delivery at term	Dr.SwathiKotha	Dr.PralhadKushtagi
10.	PPROM – diagnosis, evaluation and management strategies	Dr.Bharathi P.	Dr.Anagha J Kamath
11.	Umbilical cord Thickness and Coiling Index after 34 weeks period of Gestation as predictors of Meconium staining and perinatal outcome	Dr.Athira Narayanan	Dr.Priya Ballal K.

12.	Intra operative difficulties encountered in repeat caesarean deliveries an observational prospective study.	Dr.Palem Gowthami	Dr.A.Arun Rao
13.	Serum ferritin levels in anemia and its influence in outcome of Pregnancy.	Dr.Sneha sharma	Dr.S.R.Nayak
14.	Study of arterial resistance in the late first trimester as a predictor of hypertension in pregnancy.	Dr.Anusha emani	Dr.Pralhad Kushtagi
15.	Comapretive study between IV Ferric carboxymaltose & oral Ferrous sulfate in the Treatment of Post Partum Iron deficiency Anemia.	Dr.Sree Chandana Damineni	Dr.Suchitra Thunga
16.	Role of Labetalol in the Prevention of Eclampsia.	Dr.Varnika rastogi	Dr.Priya Ballal K.
17.	Placental thickness and its correlation with gestational age and Foetal growth parameters.	Dr.Mrinalini mitra	Dr.Nina A.Mahale
18.	Comparision of sublingual , vaginal and oral misoprostol in cervical ripening prior to 1 st trimester surgical abortion – A prospective study.	Dr.Jagadevi	Dr.Anupama Suresh
19.	The maternal and fetal effects of occupational tobacco exposure in beedi rollers in third trimester.	Dr.Sharadhi C.	Dr.Bharathi Rao
20.	Cytological screening for cervical cancer in women of reproductive age group.	Dr.Swati Mittal	Dr.Anagha J Kamath
21.	Homocysteinemia in Pregnancy	Dr.Gagandeep Kaur	Dr.Vijaya M R.

Our ongoing UG research projects are:

Sl#	Title	Name of the student	Guide
1.	Umblical cord blood sampling for the level of nucleated red blood cells as a marker of asphyxiation in fetus	Umadri Singh	Dr.Supriya K.

Our completed PG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1	Oligohydramnios and fetal outcome beyond 34 weeks period of gestation.	Dr.Abirami B	Dr.R.RathiDevi
2	Obstetrical outcome of teenage pregnancy.	Dr.Priyadarshini P.	Dr.A.Arun Rao

3	A study to find correlation of maternal serum alpha fetoprotein levels with preterm labor.	Dr.Akanksha Gupta	Dr.A.Arun Rao
4	A comparison between serum inhibin A levels in pre-eclampsia and normotensive pregnancy	Dr.V.Harshini	Dr.Suchitra Thunga
5	Comparison of serum copper level in pre-eclamptic and normotensive pregnant women.	Dr.Kriti Sehgal	Dr.A.Arun Rao
6	Post abortal acceptance of contraception.	Dr.Sarafaraz Nawaz G.Salgar	Dr.Vijaya M.R.
7	Need to redefine the glucose challenge test threshold in screening for gestational diabetes mellitus.	Dr.Taruna Bansal	Dr.Priya Ballal
8	A study of bacterial vaginosis in pregnancy and association between bacterial vaginosis and preterm labour	Dr. Balveer Kaur	Dr.Nina Mahale

Year 2013

Sl#	Title	Name of the student	Guide
1	Second stage partogram	Dr.Prathima Desai	Dr.S.R Nayak
2	Thyroid dysfunction in pregnancy	Dr.YaramareddySwapna	Dr.Shameem V.P.A.
3	A Study of postnatal recovery of blood pressure in women with hypertension in pregnancy	Dr.Aditi Kulkarni	Dr.Bharathi Rao
4	Comparison of ca-125 levels in threatened abortion and normal pregnancies	Dr.Arushi Aggarwal	Dr.Vijaya M.R.
5	A study of thyroid function in patients with abnormal uterine bleeding	Dr.Prathima K.N.	Dr.Nina Mahale
6	Prevalence of abnormal urodynamic test results in severe genitourinary prolapse	Dr.Roopa M.	Dr.S.R.Nayak
7	Serum lipid peroxide levels and erythrocyte glutathione peroxidase and superoxide dismutase activities in premenopausal and postmenopausal women	Dr.Deepika G.	Dr.Anagha J Kamath
8	Comparison of accuracy of diagnostic modalities in adnexal masses	Dr.Lakshmi Mohan	Dr.A.Arun Rao
9	Incidence of postcesarean uterine infection in relation to methods of placental management	Dr.Swetha M.	Dr.PralhadKushtagi
10	Association of metabolic syndrome in polycystic ovarian syndrome	Dr.Jisha Varghese	Dr.Suchitra Thunga

Year 2014

Sl#	Title	Name of the student	Guide
1	Active management of 3 rd stage of labour – oxytocin versus methergin	Dr.Ajantha B.	Dr.S.R.Nayak
2	Sonographic diagnosis of fetal	Dr.SridivyaChallamalasetty	Dr Anagha J

	growth restriction by transcerebellar/ abdominal circumference ratio		Kamath
3	Correlation between amniotic fluid index at admission and intrapartum fetal well-being in women with prelabour rupture of membranes at term	Dr.Ashwini M.S.	Dr.PralhadKushtagi
4	Association of metabolic syndrome in polycystic ovarian syndrome	Dr.Jisha Varghese	Dr.Suchitra Thunga
5	Vaginal misoprostol vs vaginal misoprostol with vaginal estradiol for induction of labour	Dr.Raksha M.	Dr.Shameem V.P.A.
6	Polyhydramnios- maternal & neonatal outcome	Dr.Shruti Saralaya	Dr. Vijaya M Revankar
7	Influence of maternal BMI on clinically estimated fetal weight	Dr.Sabina Parveen	Dr.Priya Ballal K.
8	Effect of vaginal pH dinoprostone gel in induction of labour	Dr.Maria Joseph Kurian	Dr.Bharathi Rao
9	Fetal transcerebellar diameter in third trimester and prediction of gestational age	Dr.AnupKharel	Dr.Nina A. Mahale
10	Endometrial histopathology in women more than 40 years with abdominal bleeding in relation to BMI	Dr.Prachi Jain	Dr.Anupama Suresh

The details of our publications are described below.

Year 2012

International:

1. Dr.PralhadKushtagi –

Simultaneous detection of periodontal pathogens in subgingival plaque and placenta of women with hypertension in pregnancy.

ArchGynecolObstet 285(3):613-9, 2012

2. Dr.PralhadKushtagi, Dr.PriyaBallal K. –

Timely Antenatal Diagnosis of Malformations – Still a Far Cry.

J Biomed Graphics and Computing 2(December 2):64-71, 2012

3. Dr.PralhadKushtagi –

Periodontal disease and hypertension in pregnancy: a clinical correlation.

JPeriodontolPostedonlineonOctober29, 2012(doi:10.1902/jop.2012.120264).

4. Dr.PralhadKushtagi –

A thought for tramadol as labor analgesic.

- Anesth Essays Res 6(2) July- December: 147-50; 2012.
5. Dr.Vijaya M Revankar, Dr.RainaChawla –
Post abortal acceptance of contraception.
Int J Pharm Biomed Res 2012, 3(3), 181-184.
 6. Dr.Vijaya M Revankar –
A Clinical Round up of the Female Infertility Therapy Amongst Indians.
Journal of Clinical and diagnostic Research 2012, September, Vol: 6(7)1343-1349.

National:

1. Dr.A.ArunRao –
Replacing 24-h albumin Excretion with a Shorter Collection Period in Preeclampsia.
The Journal of Obstetrics and Gynecology of India, vol 62, No.4, Pgn0424,
July/August 2012.
2. Dr.PralhadKuhtagi, Dr.PriyaBallal K –
Screening for Endometrial Cancer – Present Status.
Trendz Med World 5(1 Apr-Jun): 28-34, 2012.
3. Dr.Anagha J Kamath –
An In Vitro Study Comparing the IntracanalEffectiveness of Calcium Hydroxide –
and Linezolid – based Medicaments against Enterococcus faecalis.
Journal of endometrics, vol-38; 1;pg 95-100, Jan 2012.
4. Dr.AdithiShetty –
Legal Terrorism in Domestic Violence. An Indian Outlook. Medico-
Legal Journal 2012; 80 (1):33-39

Year 2013

International

1. Dr.Arun rao, Dr.Bharathi Rao-
Mifepristone plus misoprostol versus only misoprostol in induction of labour in intra
uterine fetal death.
Int J Pharma Biomed Res May 2013.4(2), 108-110.
2. Dr.Arun Rao, Dr,Bharathi Rao-
Induction of labor in unfavourable cervix: vaginal misoprostol versus vaginal
misoprostol with estradiol.

- Int J Pharm Biomed Res Oct.2013, 4(4), 202-205
3. Dr.S.R.Nayak , Dr.Bharathi Rao –
Mifepristone in the induction of labour at term
Int J Pharma Biomed Res July 2013.4(3), 164-166.
 4. Dr.Pralhad Kushtagi-
Incidence of Post –Cesarean Uterine Infection in relation to Methods of Placental
Mangaement.
IJBR, Nov.2013, 4(11):582-588.
 5. Dr.Vijaya M. Revankar-
A.correlative study of 24 hours urinary protein and random urinary protein creatinive
ratio in hypertensive pregnant women.
Int J Pharma Biomed Res April 2013.4(2), 93-96.
 6. Dr.Nina A.Mahale-
Variation of nuchal translucency with increasing crown – rump lenth and gestational
age in normal singleton pregnancies.
IOSR J of Dental & Medical science May 2013, 6(3):16-19.
 7. Dr.Vittal Saralaya-
Clinical Spectrum of Rheumatic Fevar and Rheumatic Heart Disease: A 10 year
Experience in an Urban Area of South India.
North Americal Journal of Medical Science, Nov.2013, 5(11):647-652.
 8. Dr.Shraddha Shetty, Dr.Rajalaxmi Kamath –
Chorioangioma of placenta: A Case report.
IJBR, June 2013, 4(6), 289-291.
 9. Dr.Rajalaxmi Kamath, Dr.Shraddha Shetty-
Pempigues vulgaris in pregnancy: analysis of current data on the management and
outcome.
IJBR, July 2013, 4(7), 358-360.
 10. Dr.Shraddha Shetty-
Diagnostic Laparoscopy in Infertility - A Retrospective study.
IJBR, July 2013, 4(7), 343-348.
 11. Dr.Shraddha Shetty, Dr.Rajalaxmi Kamath-
Ruptured Ovarian Pregnancy - A Rare Case Report
IJBR, July 2013, 4(7), 364-366.

12. Dr.Shraddha Shetty –
A study of congenital anomalies and perinatal outcome in oligohydramnios.
IJMSPH, Sept. 2013, 2(4)1117-1119.
13. Dr.Shraddha Shetty-
Laparoscopic evaluation of tubal factor in cases of infertility.
Int. Reprod.Contracept Obstet Gynecol Sept .2013.2(3):410-413.
14. Dr.Shraddha Shetty –
Emergency peripartum hysterectomy: A one year review at a Tertiary Care Hospital.
Int. J of Medical Science and Public Health. August 20132(4):1071-1074.
15. Dr.Shraddha Shetty –
Perinatal Outcome and Congenital anomalies in Polyhydramnior: A prospective
Study.
IJBR, Oct.2013, 4(10):546-549

National

1. Dr.Pralhad Kushtagi –
Plastic spatula with narrow long tip provides higher satisfactory smears for Pap test.
Journal of Cytology July 2013, 30(3), 159-161.
2. Dr.Priya Ballal, Dr.Pralhad Kushtagi-
The need of flexibility in the upper limit of gestation age for fetal anomalies in the
MTP Act: A questionnaire survey.
J-SIMLA, Sept.2013, 5(2):43-49.
3. Dr.Pralhad Kushtagi –
Accelerated clotting time with amniotic fluid: a reliable indicator of fetal maturity.
Indian J of Obstetrics & Gynaecology, Jan-June 2013, 1(1):7-13.
4. Dr.B.Poornima R.Bhat –
Evaluation of obstetric admissions to intensive care unit of a tertiary referral center in
coastal India.
Indian J Crit Care Med. Jan-Feb 2013, 17(1): 34–37.
5. Dr.B.Poornima R.Bhat –
Sequential bilateral torsion of a normal ovary at thirty one weeks of gestation and
twelve months following delivery in a thirty year old Patient.
Indian Journal of Clinical Practice, Feb.2013, 23(9) 547-549.

Year 2014**International**

1. Dr.Rajalaxmi Kamath, Dr.S.R.Nayak –
Serum Uric acid level in preeclampsia and its correlation of maternal and fetal outcome.

International Journal of Biomedical Research, Jan 2014, 5(1), 22-24.
2. Dr.Rajalaxmi Kamath –
Utility of oral and vaginal misoprostol in the induction of labour: A comparative study.

International Journal of Pharmaceutical Research & Analysis. Jan 2014, 4(1), 70-74.
3. Dr.Pralhad Kushtagi-
DNA Promoter Methylation- dependent Transcription of the Double C2-like Domain β (DOC2B) Gene Regulates Tumor Growth in Human Cervical Cancer.

Journal of Biological Chemistry, April 2014, 15, 10637-49.
4. Dr.Pralhad Kushtagi –
Mitochondrial DNS variation analysis in cervical cancer.

Mitochondrion, May 2014, 16, 73-82.
5. Dr.Poornima R.Bhat –
Comparative study of fasting plasma glucose concentration and glucose challenge test for screening gestational diabetes mellitus.

Journal of South Asian Federation of Obstetrics & Gynaecology May-August 2014, vol 6(2), 75-78.
6. Dr.Bharathi Rao, Dr.A.Arun Rao –
A Retrospective study on Prevalence of Anomalous Babies in a Tertiary Care Hospital.

International Journal of Innovative Research & Development, June 2014, 3(6), 200-204.
7. Dr.Pralhad Kushtagi –
HELLP Syndrome in a Government District Hospital on the west coast in South India.

International Journal of Biomedical Research, July 2014, 5(7), 439-44.
8. Dr.Sharan J Pal, Dr.S.R.Nayak. Dr.A.Arun Rao –

- Collision Tumors of Ovary: A Rare Entity.
International Journal of Innovative Research & Development, July 2014, 3(7), 425-427.
9. Dr.Sharan J Pal, Dr.A.Arun Rao –
A Three year Review of Maternal Mortality in a District Hospital on the West Coast in South India (April 2011-2014).
International Journal of Innovative Research & Development, July 2014, 3(7), 15-21.
10. Dr.Vijaya M.Revankar, Dr.A.Arun Rao –
Trends and Rates of Caesarean Section: Seven Year Study in Mangalore.
International Journal of Innovative Research & Development, August 2014, 3(8), 232-235.
11. Dr.S.R.Nayak. Dr.Arun Rao, Dr.Bharathi Rao –
Oxytocin versus Methylergometrine in the Active Management of Third stage of Labour.
Open Journal of Obstetrics and Gynaecology , August 2014, 4, 666-671.
12. Dr.Bharathi Rao, Dr.S.R.Nayak, Dr.A.Arun Rao –
Clinical Study of Ovarian Tumors in Pregnancy: Observation vs Surgery.
International Journal of Innovative Research & Development, September 2014, 3(9), 52-55.
13. Dr.Anupama Suresh Y.-
Influence of Abnormal GCT with Normal or Impaired OGTT on Neonatal Outcome..
Journal of Medical Science and Clinical research, September 2014, 2(9), 2471-2482.
14. Dr.Anupama Suresh Y.-
Abnormal uterine bleeding: a clinicohistopathological analysis.
International Journal of Reproduction, Contraception, Obstetrics and Gynecology,
September 2014, 3(3), 656-661.
15. Dr.A.Arun Rao-
Study of Serum Magnesium Levels in Preterm Labour.
International Journal of Innovative Research & Development, October 2014, 3(10), 62-67.
16. Dr.Bharathi Rao, Dr.a.Arun Rao –
Two Rare Presentations of Epidermal Cyst.
Journal of Clinical and Diagnostic Research, October 2014, 8(10), 01-03.

17. Dr.Bharathi Rao, Dr.Pralhad Kushtagi, Dr.A.Arun Rao-
Maternal “NEAR MISS” Events and maternal deaths in a tertiary hospital in South India - A Two Year Study.
International Journal of Recent Scientific Research, October 2014, 5(10)1854-1856.
18. Dr.Anupama Suresh, Dr.A.Arun Rao-
Amniotic Fluid Index versus Umbilical Artery Doppler Velocimetry in Prediction of Perinatal Outcome.
International Journal of Innovative Research & Development, November 2014, 3(11), 91-95.
19. Dr.Supriya K., Dr.Suchitra Thunga-
“Clinical study of meconium stained amniotic fluid”
International Journal of Biomedical and Advance Research,Dec. 2014,05(12),612-614

National

1. Dr.Anupama Suresh Y.-
Rectal Misoprostol versus vaginal misoprostol for first trimester termination of pregnancy.
Journal of Evolution of Medical and Dental Sciences, April 2014,3(18),4815-23.
2. Dr.Anupama Suresh Y.-
Laparoscopy-Pneumothorax and Ocular Wmphysema, A Rare Complication-A Case Report.
Journal of Clinical and diagnostic Research, April 2014,8(4),1-2.
3. Dr.Vittal Saralaya-
Assessment of menopausal symptoms among women attending various outreach clinics in South Canara District of India.
Journal of Mid-Life Health, April 2014,5(2),84-90.
4. Dr.Anupama Suresh Y.-
Influence of abnormal GCT with normal or impaired OGTT on obstetrical outcome.
Transworld Medical Journal, April 2014, 1(4),121-123.
5. Dr.A.Arun Rao-
“Comparison of Mifepristone and Misoprostol in the Induction of Labour At Term”.
Paripex – Indian Journal of Research, Nov 2014, 3(11), 117-119.

12. Placement record of the past students and the contribution of the department to aid student placements

Many are abroad and have got good posts by training from dept and recommendation from the department

13. Plan of action of the department for the next five years

- i. We hope to concentrate on PG teaching to UG with feedback questionnaire from the UGs, so as to improve teaching and communication skills.
- ii. Plan to have more clinical oriented discussion during the rounds in the wards by the individual unit staff.
- iii. More use of ethical skill lab for both undergraduate and postgraduate teaching.
- iv. Planning to have quarterly exams for PGs and Final mock exams before the University Examination.
- v. Planning to have Basic Science lectures followed by the post tests.
- vi. Interdepartmental meetings.
- vii. Posting for PGs in allied departments.
- viii. Conduct workshops or CMEs
- ix. Encourage the staff and PGs to attend and present papers in National and International Conferences.
- x. Concentrate on Publication and Research to improve.

ORTHOPAEDICS

1. Faculty profile - adequacy and competency of faculty

There are a total of 20 faculty members taking care of the UG and PG programmes. All of them fulfill the criteria of qualification and experience stipulated by MCI. All are competent

Faculty List

Sl. #	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Prof. Surendra U Kamath	MBBS D. Ortho, DNB, FRCS	Professor & HOD	22
2.	Prof. B. Jagannath Kamath	MBBS D. Ortho, MS	Professor	25
3.	Prof. Prem Kotian	MBBS MS	Professor	24
4.	Prof. K. Ghanashyam Kamath	MBBS D. Ortho, MS	Professor	16
5.	Dr Ramachandra Kamath K	MBBS DOrtho, DNB	Addl. Prof.	12
6.	Dr. Amarnath D'Savur	MBBS D. Ortho, DNB	Additional Professor	12
7.	Dr. Janardhana Aithala P	D Ortho, DNB	Assoc. Prof.	12
8.	Dr. Deepak Pinto	MBBS MS, MBBS FRCS	Assoc. Prof.	11
9.	Dr. Premjit Sujir	MBBS MS	Assoc. Prof	08
10.	Dr. Preetham J Salian	MBBS MS	Assoc. Prof.	07
11.	Dr. Dinesh K V N	MBBS MS	Assoc. Prof	06
12.	Dr. Sandeep Kini B	MBBS MS	Asst. Prof.	02
13.	Dr. Vivek Nahar	MBBS MS	Asst. Prof.	03
14.	Dr. Nikil Jayasheelan	MBBS MS	Senior Resident	02
15.	Dr. Rajendra A	MBBS MS	Senior Resident	<1
16.	Dr. Varghese Joe C	MBBS DOrtho, MS	Senior Resident	<1
17.	Dr. Rejith Mathews Philip	MBBS MS	Senior Resident	<1
18.	Dr. R A Purnachandra Tejaswi	MBBS MS	Senior Resident	<1
19.	Dr. R. Naufal Rizwan A	MBBS MS	Senior Resident	<1
20.	Dr. Mulky Navaneeth Kamath	MBBS MS	Senior Resident	<1
21.	Dr. K. Rohit Shankar	MBBS	Junior Resident	02
22.	Dr. Girish M	MBBS	Junior Resident	02
23.	Dr. Rajashekar Danda	MBBS	Junior Resident	02

24.	Dr. Dumpa Venkata Subba Reddy	MBBS	Junior Resident	02
25.	Dr. M Narendra Reddy	MBBS	Junior Resident	02
26.	Dr. Basangouda Karigoudar	MBBS	Junior Resident	02
27.	Dr. Vikram Kumar Goud	MBBS	Junior Resident	01
28.	Dr. Sriram S	MBBS	Junior Resident	01
29.	Dr.Y Bhanu Tej	MBBS	Junior Resident	01
30.	Dr.Chethan B Shetty	MBBS	Junior Resident	01
31.	Dr.Heramb Mittal	MBBS	Junior Resident	01
32.	Dr. Vikas Jain	MBBS	Junior Resident	01
26	Dr. Divakar M	MBBS	Junior Resident	01
27	Dr. Prem Kumar S.A.	MBBS	Junior Resident	01
28	Dr. Sharan Mallya P	MBBS	Junior Resident	01
29	Dr. Manjunatha K	MBBS	Junior Resident	01
30	Dr. Abdul Rasheem P T	MBBS	Junior Resident	01
31	Dr. Nidhin Koshy	MBBS	Junior Resident	<1
32	Dr. Pinnaka <u>Balakrishna</u>	MBBS	Junior Resident	<1
33	Dr. Thatikanda Sai Dinesh	MBBS	Junior Resident	<1
34	Dr. Mithun Pai G	MBBS	Junior Resident	<1
35	Dr. Sunil L Krishnamurthy	MBBS	Junior Resident	<1
36	Dr. Shankara Linga	MBBS	Junior Resident	<1

All faculty are competent.

Faculty who worked for the department for part of the year:

Sl. No	Name of the Relieved Faculty	Designation	Period	
			Date of joining	Date of Relief
1.	Dr. B. Seetharama Rao,	M.S Ortho, Mch.Ortho	Professor	26(relieved on 28-11-2014)
2.	Dr. Sandesh Madi	MBBS MS	Senior Resident	<1(relieved on 22-01-2014)
3.	Dr.B.Babul Reddy	MBBS MS	Senior Resident	<1 relieved on 04-02-2014
4.	Dr. G. Venkata Sivanagaraja	MBBS MS	Senior Resident	<1(relieved on 19-05-2014)
5.	Dr.Pawan C	MBBS MS	Senior Resident	<1(relieved on 08-12-2014)

Category	Sanctioned	Filled
Teaching	15	15
Senior Resident	8	8
Junior Residents	10	6

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

Changes in mode of teaching by incorporating evidenced based medicine, clinically oriented teachings are made. Faculty periodically gets a feedback from students and takes measures to improvise on teaching methods and programmes.

4. Trends in the success and dropout rates of students during the past two years

Course	Pass Percentage						Dropout Rate		
	2012		2013		2014		2011	2012	2013
	January	August	January	August	January	July			
MBBS						Results awaited	0	0	0
MS	April 100	October -	April 90	October 100	April 90	October Results awaited	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

- 2 Department libraries with books and CDs in each hospital, 2 computers in each hospital exclusively for the department, Limb centre with orthotics and prosthesis, bone models to demonstrate various techniques and simulator based teaching. Interactive lectures
- Small group teaching
 - Bed-side clinics
 - Demonstrations
 - Camera/ Over Head Projector

6. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience in diagnosing and managing patients with respiratory illnesses as well as different settings including primary, secondary and tertiary levels. Specific stress is laid on Community Health. The graduate medical education in our department is based primarily on out-patient teaching, emergency departments and in-patients. During the postings the students are encouraged to look at the totality and not just a sum of parts. The students are taught to integrate various system findings and arrive at the diagnosis. While planning the management, aspects of health socio-economics and ethics are stressed upon.

Clinics are organised in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills. The department uses the facilities of a clinical skills lab to provide hands on training to students.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical or community cases and exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
 - Bed-side clinics
 - Seminars/Self-directed learning
 - Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/presents to the departments which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

Surgical endoscopy simulation center is used to orient freshers for minimally invasive surgery. Bone models used regularly.

Workshops pertaining to basic surgical technique e.g. suturing techniques for tendon repairs are conducted regularly.

7. Participation of teachers in academic and personal counselling of students

Students are encouraged to discuss academics during clinical postings. They are regularly given feedback on their performance and are taught the measures to improve themselves academically. Personal counseling is also provided for those students who need it.

8. Details of faculty development programmes and teachers who have been benefited during the past two years.

Continuing medical education (CME) are conducted for faculty and residents every six months and faculty members our dept and neighboring medical colleges are also benefitted and are regularly updated on the subject. Faculty also attend medical teaching learning program to keep themselves updated with newer teaching techniques.

2012

Sl. #	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Dr. Preetham V Salian	Personality Development & Public speaking Workshop	13-01-2012 &	Personality Development & Public speaking Workshop

2013

Sl.#	Name of the faculty	Title of the workshop	Date (s)	Venue
1.	Dr. Janardhana Aithala	Lesson Planning Workshop	31-07-2013	Medical Education Seminar Hall KMC Mangalore
2.	Dr. Preetham V Salian	Lesson Planning Workshop	31-07-2013	Medical Education Seminar Hall KMC Mangalore
3.	Dr. Ankush Bansal	Lesson Planning Workshop	31-07-2013	Medical Education Seminar Hall KMC Mangalore
4.	Dr. B Jagannath Kamath	Assessment of Learning outcomes, Past, Present and Future	13th November 2013	Medical Education Seminar Hall KMC Mangalore
5.	Dr. Ramachandra K Kamath	“Basic Course Workshop	4 th to 6 th December 2013	St. John’s Medical College, Bangalore

2014

Sl.#	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Dr. Janardhana Aithala	“Workshop on Design” for M.C.Q.s	February 2014	Manipal University.
	Dr. Ramachandra K Kamath	PG Orientation Programme	21 st June 2014	Medical Education Unit Mangalore
2	Dr. Ramachandra K Kamath	CME Observer Corneal Disease	22 nd June 2014	Medical Education Unit Mangalore

3	Dr.Ramachandra K Kamath	Questionnaire preparation Workshop	27 th June 2014	Medical Education Unit Mangalore
	Dr. Janardhana Aithala	“Basic Course Workshop”	7 th to 9 th August 2014	Medical Education Unit Mangalore
4	Dr. Ramachandra K Kamath	Awareness Programme	26 th August 2014	Medical Education Seminar Room
5	Dr. Janardhana Aithala P	Awareness Programme	26 th August 2014	Medical Education Seminar Room
6	Dr.Ramachandra K Kamath	Integrated Teaching “What Why & How” Workshop	4 th December 2014	Medical Education Seminar Room

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

Faculty moderates and conducts seminars for students and coordinates the session during presentations. This helps the students in better understanding of subject and provides confidence to students for future presentations. Students are encouraged to take up research projects under ICMR (Indian Council of Medical Research) guidelines.

10. Collaboration with other departments/ institutions, at the State, National and International levels,and their outcome during the past two years

No collaborations in the past two years.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority research areas include area of interest or area of specialization of the respective research guides. Predominantly comprising of topics like Fracture Healing, Degenerative diseases, Children’s Orthopedics, Sports Medicine, Adult Reconstruction and Hand & Orthopedic plastic surgery.

A snapshot of our research activities and publication activities in given in the tables below.

Ongoing:

Category	Number
Funded research projects	4
Non-funded research projects	0
PhD research projects	0
PG research projects	13
UG research projects	0

Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		-		
Completed non-funded research projects		-		
Completed PhD research projects		-	-	-
Completed PG research projects		9	6	7
Completed UG research projects		5	3	3
Publications	International	3	3	7
	National	2	4	2
Books		2	1	-
Chapters in books		-	-	-
Conference presentations	International	-	4	1
	National	3	9	3

The detailed outline of projects is given below:

Our on- going funded research projects are:

Sl. #	Title	Principal Investigator	Funding agency	Total amount received
1	Use of Biologics in Gout Patients	Dr. Surendra U Kamath	AMGEN	Rs. 1,50,000
2	BMP and fracture healing	Dr. Surendra U Kamath	AMGEN	Rs. 1,50,000
3	Sclerostin for Tibial fracture healing	Dr. Surendra U Kamath	Quintiles	Rs. 1,50,000
4	Hip Replacement & DVT Prophylaxis	Dr. K.R. Kamath	ICON	Rs. 2,20,000

Our ongoing PG research projects are:

Sl. #	Title	Name of the student	Guide
1	Management and Outcome of Displaced Intra-articular Calcaneal Fractures using Sander’s classification	Dr. Sharan Mallya P	Dr. K. Ramachandra Kamath
2	The value of tip apex distance in predicting failure of fixation of intertrochanteric hip fractures	Dr. Abdul Rasheem P T	Dr. Prem Kotian
3	Clinical Examination, MRI and Arthroscopic correlation in the Demography of Rotator cuff lesions	Dr. Divakar. M	Dr. K. Ghanashyam Kamath
4	A Comparative study between Modular unipolar and Modular Bipolar Prosthesis for fracture neck of femur	Dr. Vikas Jain	Dr. Surendra U Kamath
5	Clinical evaluation of upper Limb	.Dr. S.A .Prem Kumar	Dr. B.N.

	Deformities in children with Cerebral Palsy		Jagannath Kamath
6	Comparative study of the role of antibiotic coated Intramedullary Interlocking nail versus Regular Intramedullary Interlocking nail in type 1 and 2 open tibial fractures	Dr Manjunatha.K	Dr. Deepak John Victor Pinto

Our ongoing PG research projects are:

Sl. #	Title	Name of the student	Guide
1	Effect of alendronicacid administration, after closed reduction for distal radial fracture, on radiological fracture healing time, mangalore	Dr. Nidhin Koshy	Dr. K. Ghanasyam Kamath
2	Comparision of low,multidirectional locked nailing and locking compression plate in distal tibial fractures	Dr. Pinnaka Balakrishna	Dr. K.Ramachandra Kamath
3	A study to evaluate the midterm effectiveness of steenbeek foot abduction brace in maintaining the correction achieved by ponsetti method of treatment of clubfoot	Dr. Thatikonda Sai Dinesh	Dr. Prem kotian
4	Association and role of palmaris longus tendon in causation of carpal tunnel syndome	Dr. Mithun Pai G	Dr. B.N.Jagannath Kamath
5	The association of rotator cuff pathology with hypercholesterolemia	Dr. Sunil L K	Dr. Surendra U Kamath
6	Study of functional outcome of unstable intertrochanteric fractures following intramedullary devices fixation	Dr. Shankar Linga S	Dr. janardana Aithala P

Our completed PG Research Projects are:

Year 2014

Sl. #	Title	Name of the Student	Guide
1	Role of Ultrasound in the treatment of Dequervains Tenosynovitis by Local Steroid Infiltration	Dr. Rajashekar Danda	Dr. B.N.Jaganath kamath
2	Correlation of Clinical Features and Magnetic Resonance imaging findings in lumbar disc prolapse	Dr. Girish M	Dr. B. Seetharama Rao
3	Assessment of Clubfoot by Radiology	Dr. K. Rohit Shankar	Dr. Prem Kotian

4	Comparative study of Coxo-Femoral Bypass & Proximal Femoral nail in the treatment of unstable intertrochanteric Fractures in Elderly	Dr. Medagam Narendra Reddy	Dr. K. Ghanashayam Kamath
5	Comparison of Functional Outcome with Accelerated and Standard Rehabilitation in Anterior Cruciate Ligament Reconstruction with Bone Tendon Patellar Bone Graft	Dr. Dumpa Venkata Subba Reddy	Dr. Surendra U Kamath
6	Prevalence & Interventional study of Vitamin Deficiency in adults in a cross section of population coming to KMC hospitals	Dr. Ashish Khurana He has completed one year course on May 1998	Dr. K. Ramachandra Kamath
7	A Clinico-Socio Economic study of muscul Skeletal Tuberculosis Tuberculosis – A Hospital Based Study	Dr. Basanagouda Karigoudar C	Dr. Amarnath D Savur

Year 2013

Sl. #	Title	Name of the Student	Guide
1	Radial bow- its importance in return of rotation after Surgical fixation of fracture both bones forearm in adults	Dr. Pathan Rameezahmed Khan	Dr. K. Ghanashyam Kamath
2	A Study of Coarrelation of the Disease Severity with Antibody Titers in Rheumatoid Arthritis	Dr. Praveen Madan	Dr. P.Umananda Mallya/
3	Complications of Tourniquet use in Orthopaedics Surgery	Dr. Purnachandra Tejaswi	Dr. B. Seetharama Rao/
4	Comprehensive study of modified wide awake surgery of hand	Dr. Naufal Rizwan Ahmed R	Dr. B.N. Jagannath Kamath/
5	A Study of Normal Glenohumeral Relationships in Patients Attending a Teaching Hospital, Mangalore.	Dr. Mulky Navaneeth Kamath	Dr. Prem Kotian/
6	Co- Relation of Clinical finding with Ultrasound Diagnosis of rotator cuff Pathology	Dr. Pawan Kumar C	Dr. Surendra U Kamath/

Year 2012

Sl. #	Title	Name of the Student	Guide
1	Primary Osteoarthritis of Knee – an epidemiological study	Dr. Rohit Singh	Prof. B. Jagannath Kamath
2	Comprehensive study of Bone marrow injection in delayed union of Long Bone	Dr. Guram Venkata Siva Nagaraj	Dr. Deepak Pinto
3	An Analysis of reconstruction of traumatic soft tissue	Dr. Siva Kumar S.P.	Prof. B. Jagannath Kamath
4	Comprehensive study of non-vascularised fibular strut grafting	Dr. Shah Kunal Bipinchandra	Prof. P. Umananda Mallya
5	Comprehensive study of distal Periarticular fracture of tibia treated with minimally invasive percutaneous plating Osteosynthesis (MIPPO)	Dr. Hari Prasad C	Dr. Mayur Rai
6	Comparative study between reamed and unreamed intramedullary interlocking nailing of tibia type I & type II open fractures	Dr. Amit Handa	Prof. K. Ghanashyam Kamath
7	Comprehensive study of Tibial Plateau Fracture	Dr. Amit S.K.	Prof. Prem Kotian
8	Comprehensive study of cervical spine injuries and its management	Dr. Mohammad Shrjeel Rasheed	Prof. B. Seetharama Rao
9	Implant Failure in Osteosynthesis- An Analysis	Dr. Babul Reddy	Dr. Anup Kumar

Our Completed UG Research Projects

Year 2013

Sl. #	Title	Name of the student	Guide
1	A comprehensive study of pathological fractures.	Gayathri Sreekumar	Dr. B. Seetharam Rao
2	ulnar variance and its correlation with the difference in the levels of radial and ulnar styloid processes	Divya Vasudevan	Dr. BN Jagannath Kamath
3	Study on follow up of Patients treated for Lumbar intervertebral Disc Prolapse in Mangalore	Amina Maqbool	Dr. Preetham R salian
4.	Musculoskeletal manifestations in DM	Ranganatha	Dr. Surendra U Kamath

Year 2014

Sl. #	Title	Name of the student	Guide
1	Accuracy of Needle placement in Intra-articular Space of Knee in Osteoarthritis patients	Manaswini	Dr. Surendra U Kamath
2	Assessment of Fracture Risk and its Application in Screening for Osteoporosis	R. Keerthan Ganapathy	Dr. K.Ramachandra Kamath
3	Outcome and postsurgical complications of primary total hip replacement and total knee replacement arthroplasties in a tertiary care hospital	Ravi Shankar T.C.	Dr. Preetham Raj Vittal Salian

The details of our publications have been listed below.

NATIONAL JOURNALS: 2014

1. Avuthu, Siddartha and Salian, Preetham Raj V and Kotian, Prem and Shetty, Suresh Kumar B Computed tomographic morphometry of thoracic and lumbar pedicles in South Indian population Asian Journal of Pharmaceutical and Health Sciences, 4 (2). pp. 891-895.
2. Dhananjaya K.V.N and *, Murlimanju BV and *, Vinaya Poornima and Ullal, Sonali and Mithra, Prasanna P and *, Dinesh K.V.N and Saralaya, Vasudha and Prabhu, Latha V. and *, Prashanth K.U Morphometry of Menisci of the Knee in South Indians: A Preliminary Study. Biomedical Journal, 37 (1). pp. 14- 17. ISSN 2319-4170

INTERNATIONAL 2014

1. Dr, Surendra U Kamath Vivek P Nahar Comparison of the functional outcome following hydrodilatation with manipulation and manipulation alone for idiopathic frozen shoulder Original Asian Journal of Pharmaceutical and health sciences March 2014
2. Dr, Surendra U Kamath Vivek P Nahar Dr. pawan Kumar Chajed Correlation of clinical finding with ultrasound diagnosis of rotator cuff pathology Original Research and reviews: Journal of Medical and Health Sciences June 2014
3. Dr, Surendra U Kamath Computer related Musculoskeletal Injuries Original Indian journal of scientific research July 2014

4. Kotian, Prem and Salian, Preetham Raj V and Nahar, Vivek and Pinto, Deepak and Shetty, Suresh Kumar Multiple Myeloma – A prospective study of various clinical and laboratorial parameters in relationship to survival and treatment. Original A J Institute of Medical Sciences, 3 (1). pp. 52-64.
5. Dr. Rajendra A, Dr. Nand lal Jhamarra, Dr. Dinesh KUN, Dr. Pooja K Suresh Cemented or uncemented hemiarthroplasty for displaced intracapsular femoral neck fractures Original Vol 05(09) 09/2014 Page from 4312 to 434,
6. Dr. Janardhana Aithala P Dr. Archana Bhakta Epidural Steroids does the level of injections makes any differences in pain relief and outcome International Journal of Biomedical Research 25-12-2014 ISSN: 0976-9633 (Online) Journal DOI:10.7439/ijbr CODEN:IJBRFA
7. Deepak J V Pinto*1, Dinesh K.V.N.1, Ravindra M. Shenoy1, Surendra U Kamath1, Vijay Reddy1 and Chalapalli Srinivas2 Optimal position and posture of operating surgeon to reduce radiation during intra-operative use of image intensifier in extremity surgeries International Journal of Biomedical And Advance Research ISSN: 2229-3809 (Online Journal DOI:10.7439/ijbar CODEN:IJBABN

NATIONAL: 2013

1. Dr. Surendra U Kamath Treatment of CTEV KOA Journal Feb-2013
2. Dr.K.Ghanashyam Kamath Dr.Premjit Sujir Comprehensive study of distal Periarticular Fracture of tibia treated with minimally invasive Percutaneous plating Osteosynthesis (MIPPO) Feb-2013 Journal of Karnataka Orthopaedic Association
3. Dr. B.Seetharama Rao Journal of Foot and Ankle Surgery India Original XXVIII Indexed
4. Dr. B.Seetharama Rao Dr. Rai Ravi R The role of Ultrasound in Clubfoot Management Original Indexed.
5. Dr.Surendra U Kamath Antibiotics for open fractures of tibia in children Asian Journal of Pharmaceutical and Health Sciences 201 Jul-Sep.Vol3 Issue3 ,791-793
6. Dr.B.N.Jagannath Kamath Dr.Saraswati Viswanathan Dr. Ankush Bansal Dr.Vishal Pai Clinical evaluation of hip joint in sagittal plane using pelvifemoral angle Original Journal of Clinical Orthopaedics & Trauma Volume 4, Issue 4 Pages 171-173, December 2013 indexed

INTERNATIONAL JOURNALS: 2013

1. Dr. BJagannath Kamath Dr. Mayur Rai Dr. Harshavardhan Dr. Deepak Naik
Dr. Ankush Bansal Dr. Anup Kumar A Novel Method of Using Mini External
Fixator
For Maintaining Web Space After the release of Contracture Syndactyly
Origin March
2013 Vol-17 Indexed
2. Dr. Prem Kotian Dr. Preetham Raj V Salian Dr. Vivek Nahar Dr. M.S Kotian
Dr. B. Suresh Kumar Shetty Dr. Amith S K Functional outcome of tibial plateau
Fracture – A prospective Hospital based study in Mangalore, Coastal Karnataka
Original
AJ Institute of Medical Science 2(2013) 102-109 VOL.22end Nov 2013 Indexed
3. Dr. Janardhana Aithala P Proximal Femoral Nailing: Technical Difficulties and
Results in Trochanteric Fractures Original Open Journal of Orthopedics,
2013, 3, 234-242 3rd September 2013 Vol-3 Page No- 234 -242 Indexed
4. Dr. Janardhana Aithala P, Dr. Sharath Rao Percutaneous vertebroplasty, result and
technical problems with the use of a cost effective Technique Original
International journal of Biomedical Research, VOL-4, No (2013) Indexed

Year 2012***International:***

1. Kamath SU, Joseley T Clinical Interaction of season interaction in balance:
Concurrent variety study Journal of Pediatric Neurology 2012, 311-313
2. Kumar Anup, Kumar Senthil Doping Sciences – A Reflection upon performance in
Sports Medicine J Sports Medicine 2012, 2-e119
3. Kumar Anup Issues, Challenges, Controversies, Responsibilities & Opportunities –
J Sports Medicine 2012, 2-e126

National:

1. Kamath BJ, Harshvardhan, Naik DM, Bansal Ankush
Three unusual factors contributing to compressive neuropathy in the distal forearm in
a single patient
Journal of plastic reconstructive and aesthetic surgery February 2012
2. Kamath BJ, Shetty MS, Thangam Varghese, Ajith Kumar, Harshavardhan, Naik DM
Soft Tissue Coverage in Open tibia fractures
Indian Journal of Orthopedics – July 2012, vol.46, issue 4

Year 2012**National**

Sl. #	Title of the Presentation	Name of the Faculty	Details of Conference
1	Pedicle Morphology of Lower Thoracic and Lumbar Vertebra	Dr. Prem Kotian	Karnataka Orthopedic Association 36 th Annual Conference
2	Thoracolumbar Spine Injuries	Dr. Surendra U Kamath	Medicolegal Spine Injuries
3	Accuracy of needle placement into the intra-Articular space of the Knee	Dr. Surendra U Kamath	4 th IMUKA Congress of Maastricht Conference

The details of books published by our faculty are given below:

Year 2014

Sl. #	Title	Name of the faculty	Publisher

Year 2013

Sl. #	Title	Name of the faculty	Publisher
1	”Kayilegalu Manemathu Vaidyarugala Kiwi Mathu Kannada Awariness Common Ailments”	Dr. K.R.Kamath	IMA Mangalore

The details of our Conference presentations have been listed below.

Year 2014**International**

Sl. #	Title of the Presentation	Name of the Faculty	Details of Conference
1	“ A New Nerve Approximator”	Dr. B.N.Jagannath Kamath	69 th Annual Meeting of the American Society of Surgery of the Hand

National: 2014

Sl. #	Title of the Presentation	Name of the Faculty	Details of Conference
1	“Role of Image guided biopsy in Spinal Lesions: Adequacy and correlation with MRL findings	Dr. Janardhana Aithala P	ASSICON 2014
2	“Single Versus double incision technique for carpal tunnel Decompression”	Dr. Janardhana Aithala P	ISSHCON-2014
3	Comparison of Trans-portal bone-patellar tendon-bone v/s anatomical hamstring autograft.	Dr. R.A. Purnachandra Tejaswi	IOACON 2014

Year 2013**International**

Sl. #	Title of the Presentation	Name of the Faculty	Details of Conference
1	“Our experience with Modified Wash also spoke on Modified Bone Tie for unstable fracture in Hand Fracture”	Dr.B.N.Jagannath Kamath	12 th International Hand Conference
2	“Dural Tears rigid primary closure mandatory in all cases”	Dr.Janardhana AiThala	34 th SICOT World Congress Conference
3	“Optimisation of Surgical Results in De-Quervain’s Disease”	Dr. B.N.Jagannath Kamath	Indonesian Orthopedic Association Conference

2013**National**

Sl. #	Title of the Presentation	Name of the Faculty	Details of Conference
1	Poster on painful ischiopubic osteochondrosis(Van Neck Odelberg Syndrome)	Dr.Saraswati Viswanathan	POSICON Workshop
2	Presented paper“ “Rehability of oswestry disability index in indian patients ”	Dr.Janardhana Aithala	ASSICON 2013

3	Poster titled "Comprehensive Study of Tibial Plateau Fractures"	Dr. Prem Kotian	Karnataka Orthopedic Association 37 th Annual Conference
	Spine Surgery Poster: Minimally Invasive Decompression for patients with grade I spondylolisthesis- outcome and comparison of results	Dr. Janardhana Aithala	ICS 2013

Year 2012

National

Sl. #	Title of the Presentation	Name of the Faculty	Details of Conference
1	Pedicle Morphology of Lower Thoracic and Lumbar Vertebra	Dr. Prem Kotian	Karnataka Orthopedic Association 36 th Annual Conference
2	Thoracolumbar Spine Injuries	Dr. Surendra U Kamath	Medicolegal Spine Injuries
3	Accuracy of needle placement into the intra-Articular space of the Knee	Dr. Surendra U Kamath	4 th IMUKA Congress of Maastricht Conference

12. Placement record of the past students and the contribution of the department to aid student placements

Most of our students have joined a post-graduate course in our country or have gone abroad for further studies. Most of our post graduate students pursue a fellowship in the sub specialty of their interest. Some start practicing after completion of their course.

Few have joined other medical colleges and corporate hospitals after completion of their fellowships.

13. Plan of action of the department for the next five years

1. Curriculum:

- Building on the current foundation, develop a comprehensive Curriculum Implementation Plan with new emphasis on modern methods of teaching like problem based learning & evidence based medicine.
- Optimize the availability and utilization of resources to support student learning (e.g. technology, space).

2. New initiatives in education:

- To excel as a sub specialty based teaching and research facility.

- b) Conduct a greater number of continuing medical education programmes including at least one national conference(on hand surgery) by 2014.
 - c) Conduct more Journal clubs and General Clinics.
 - d) Develop Departmental teaching material online that would be available to all faculty, alumni and the local healthcare community.
 - e) Start Trauma Technician Course for training orthopaedic ancillary staff.
3. Patient care
- a) To establish division based units for sub specialties e.g. hand and microsurgery, spine surgery, arthroscopic and minimally invasive surgeries, joint replacement and advanced trauma surgery.
4. Research:
- a) Augment the research activities leading to the publications, thus enhancing the number of publications by at least 50% over the next 5 years.
 - b) Develop at least one project over the next two years which will receive an external grant and thereafter one every year (total of 4 over the next 5 years).
5. Faculty development:
- a) Faculty will be encouraged to develop teaching portfolios which will serve as effective means of recognizing good teaching with the emphasis on demonstrating excellence.
 - b) The faculty is encouraged to take up courses pertaining to their choice of sub specialty.
 - c) The faculty will also be trained in newer teaching-learning and evaluation methodologies so that they can easily adapt to changes in the curriculum.
 - d) Every faculty to participate in at least 5 national conferences and 1 international conference over the next 5 years.

PAEDIATRICS

1. Faculty profile - adequacy and competency of faculty

There are eighteen teaching faculty members who meet the requirements for MBBS, Dental and other allied health sciences and also for postgraduate training as per the requirements of the regulatory bodies. All faculty members are competent.

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. B. Shantaram Baliga	MBBS MD	Professor &Head	26
2.	Dr.NutanKamath	MBBS MD	Professor	24
3.	Dr.AliKumble	MBBS MD	Professor	20
4.	Dr.KamalakshiG Bhat	MBBS MD	Professor	15
5.	Dr.JanardhanShenoy	MBBS MD	Assoc. Prof.	15
6.	Dr. SowminiKamath	MBBS MD	Assoc. Prof.	10
7.	Dr. (Major) Rajesh S.M.	MBBS MD	Assoc. Prof.	10
8.	Dr.JayashreeK.	MBBS MD	Assoc. Prof.	08
9.	Dr.SuchethaRao	MBBS MD	Assoc. Prof.	08
10.	Dr.SoundaryaM.	MBBS MD	Assoc. Prof.	07
11.	Dr.Ravikiran Saralaya	MBBS MD	Assoc. Prof.	07
12.	Dr.Madhav Kamath	MBBS MD	Assoc. Prof.	05
13.	Dr.MuraliKeshava	MBBS MD DNB	Asst.Prof.	09
14.	Dr. Harris.M.M.	MBBS MD	Asst. Prof.	06
15.	Dr. SmithaSharletteD'sa	MBBS MD	Asst. Prof.	06
16.	Dr.MohideenFaheem	MBBS MD	Asst. Prof.	05
17.	Dr.Harsha Prasad	MBBS MD	Asst. Prof.	01
18.	Dr.Kiran Baliga	MBBS MD	Asst. Prof.	04
19.	Dr.SubhodhShetty	MBBS MD	Asst. Prof.	04
20.	Dr.PrashanthKini K	MBBS MD	Senior Resident	03
21.	Dr.ManasShanbhangh	MBBS MD	Senior Resident	02
22.	Dr.Venkateswar Reddy Bode	MBBS	Junior Resident	02
23.	Dr.Rahul Udaya Prasad	MBBS	Junior Resident	02
24.	Dr.Ashok Babu Boddu	MBBS	Junior Resident	02
25.	Dr.Aprameya H.S	MBBS	Junior Resident	02
26.	Dr.Tejashree Katragadda	MBBS	Junior Resident	02
27.	Dr.Alluri Ashok Raju	MBBS	Junior Resident	02
28.	Dr.Sangeetha Devi P.S	MBBS	Junior Resident	02
29.	Dr.Sowmya V.C	MBBS	Junior Resident	01
30.	Dr.KiranKartheek	MBBS	Junior Resident	01
31.	Dr.SurajHaridasUpadya	MBBS	Junior Resident	01
32.	Dr.ShagunWalia	MBBS	Junior Resident	01
33.	Dr.G.SreeSravya	MBBS	Junior Resident	01
34.	Dr.Chethan Kumar N	MBBS	Junior Resident	01
35.	Dr.KesamreddySwetha	MBBS	Junior Resident	01
36.	Dr.TanviSurendraPai	MBBS	Junior Resident	01

37.	Dr.M Nischal	MBBS	Junior Resident	01
38.	Dr.Mohammed Shakkir Yousuf	MBBS	Junior Resident	01
39.	Dr. Mohamed Razeen	MBBS	Junior Resident	01
40.	Dr.AnushaChalla	MBBS	Junior Resident	<01
41.	Dr.Lakmeel K.K.	MBBS	Junior Resident	<01
42.	Dr.Siddartha Reddy	MBBS	Junior Resident	<01
43.	Dr. Mekala	MBBS	Junior Resident	<01
44.	Dr.TariqHrris	MBBS	Junior Resident	<01
45.	Dr.ShifaNismath	MBBS	Junior Resident	<01
46.	Dr. AnushaAllam	MBBS	Junior Resident	<01
47.	Dr.Ravikumar G	MBBS	Junior Resident	<01
48.	Dr. Anand Kumar	MBBS	Junior Resident	<01
49.	Dr.Ramkishore	MBBS	Junior Resident	<01
50.	Dr. Akuthota Srinath Reddy	MBBS	Junior Resident	<01

Faculty Position in the Department

Category	Sanctioned	Filled
Teaching staff	12	18
Senior resident	08	02
Junior resident	11 per year	11

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by MCI and the department strictly complies with the laid down requirement.

4. Trends in the success and drop out rates of students during the past two years

Course	Pass Percentage						Drop out Rate		
	2012		2013		2014		2012	2013	2014
	January	August	January	August	January	July			
MBBS	84%	58%	70%	79%	95%	61%	0	0	0
MD/D	April	October	April	October	April	October	9%	0	0
CH	100%	0%	100%	-	83%	100%			

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has a library with about 246 reference books and 29 Journals in the subject and allied specialities for the use of the faculty and students. Computers with internet

facility are available to the Postgraduate students in the workplace.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition department also has 5 desktop computers for learning and research purpose apart from 8 computers for patient care.

There are three demonstration rooms equipped with audiovisual aids to facilitate teaching & learning. With the contribution of the faculty the department has also developed self-learning, e-learning modules. The same is freely accessible to the students.

6. Modern teaching methods practiced and use of ICT in teaching – learning

The department follows the general guidelines from the college in the structuring teaching programs. Apart from that the department is facilitating more of learning techniques in addition to regular teaching methods.

The students are motivated to undergo computer lessons to enhance the use of laptops in the learning, Courses are conducted to facilitate use of technology day today learning, All the lecture rooms are provided with Av aids and the department has 4 mannequins for skill training

The clinical training emphasizes on Student to student interaction in the form of tutorials for enhancing the examination skills, small group discussion for clinical methodologies and skills, 3 to 4 students are assigned to one staff member for close interactive discussions and Student-centric learning in case discussions, therapeutics which is moderated by staff member

The teaching methodologies are evaluated and modified based on the feedback from the students. Apart from the subject emphasis is laid on development of individual personality, public speaking, ethical issues, time management, communication and managerial skills. The department also adopts appraisal of performance and measures to be taken for progressive improvement. The performance is documented in the log book / case record books. The department also has adopted objective methods of evaluation of students to overcome the inter staff differences in the evaluation of students.

Standard operating procedures are available in the department for students as well as the staff regarding the departmental training programs.

7. Participation of teachers in academic and personal counseling of students

Every batch of student is equally divided among available staff members for personal interaction and mentoring.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Eleven faculty members have attended faculty development programmes pertaining to teaching-learning and evaluation in the past two years. However all the faculty had undergone training regarding the same in the past.

All faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 13 such programmes.

- Each staff member is assigned organizational responsibility.
 - Faculty evaluation by UG/PGs is done periodically and feed back is given to concerned faculty in departmental meeting held every month.
 - Faculty are assigned responsibility to organize workshops/conduct quiz
- Details of the Faculty attended the faculty development Programme.

Details of faculty development programmes attended by faculty:

2012

Sl#	Name of the Faculty	Programmes	Date	Venue
1	Dr.Jayashree	StudentEvaluationProgramme	30 th and 31 st March 2012	KMC,Mangalore
2	Dr.MuraliKeshava	StudentEvaluationProgramme	30 th and 31 st March 2012	KMC,Mangalore
3	Dr.SowminiKamath	Workshop on Basic Medical Education Technology	9 th to 13 th October 2012	KMC,Mangalore
4	Dr.Ravikiran Saralaya	Workshop on Basic Medical Education Technology	9 th to 13 th October 2012	KMC,Mangalore
5	Dr.Kiran Baliga	Workshop on Basic Medical Education Technology	9 th to 13 th October 2012	KMC,Mangalore
6	Dr.PrashantKini.K	Workshop on Basic Medical Education Technology	9 th to 13 th October 2012	KMC,Mangalore

2013

Sl#	Name of the Faculty	Programmes	Date	Venue
1	Dr.NutanKamath	How to prepare self-learning material	21-11-2013	KMC,Mangalore
2	Dr.KamalakshiBhat	How to prepare self-learning material	21-11-2013	KMC,Mangalore
3	Dr.SowminiKamath	How to prepare self-learning material	21-11-2013	KMC,Mangalore
4	Dr. SmithaSharletteD'sa	How to prepare self-learning material	21-11-2013	KMC,Mangalore
5	Dr.SubhodhShetty	How to prepare self-learning material	21-11-2013	KMC,Mangalore
6	Dr.PrashantKini.K	How to prepare self-learning material	21-11-2013	KMC,Mangalore

2014

Sl#	Name of the Faculty	Programmes	Date	Venue
1	Dr.NutanKamath	Integrated Teaching : What,Why and How	04-12-2014	KMC,Mangalore
2	Dr.KamalakshiBhat	Integrated Teaching : What,Why and How	04-12-2014	KMC,Mangalore
3	Dr.SowminiKamath	Integrated Teaching : What,Why and How	04-12-2014	KMC,Mangalore
4	Dr.Jayashree.K	Integrated Teaching : What,Why and How	04-12-2014	KMC,Mangalore
5	Dr.SuchethaRao	Integrated Teaching : What,Why and How	04-12-2014	KMC,Mangalore

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research. Faculties have developed UG log book, PG log book, department soft library and e-library. Dr.B.S.Baliga has been appointed as expert reviewer of ICMR Projects, Member of District infant Death Reviews committee, Dakshina Kannada, Member of Governing Board Karnataka State Health Resource Centre.

10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

- a) ICMR-Role of Public Private Partnership (PPP) Projects on health seeking behavior, health care expenditure and the utilization of health services related to Childhood illness: A comparative study between two districts in a South Indian State.

- b) Department in collaboration with Govt of Karnataka is involved in NRHM training of nurses and doctors and establishing special care neonatal units in various districts of Karnataka.
- c) Expert committee on IDR in the District in collaboration with UNICEF
- d) Participates as resource/expert for ICDS program in the District.
- e) Collaborates with District Health department for immunization.
- f) Dr.Nutan Kamath and Dr.Suchetha Rao are Co-Investigators for ICMR Fund Project “Feasibility, Working and Translation of Peri-Natal Death Audit System for Improvements in quality of care: A Health Systems Interventional Research”.
- g) Dr. Rajesh S.M. is a Co-ordinator for the ‘Facility based child death review committee’ at LadyGoschen Hospital,Mangalore.
- h) Dr. Faheem is a Co-ordinator and Dr.Subhodh Shetty is a Member of the ‘Facility based child death review committee’ at RAPCC,Mangalore.

Dr.B.S.Baliga

- a) Principal Investigator for ICMR Fund Project “Feasibility, Working and Translation of Peri-Natal Death Audit System for Improvements in quality of care: A Health Systems Interventional Research”.
- b) Co-investigator for Malaria Research IDR of District –Malaria in Mangalore, Karnataka: Manifestation and risk factors.
- c) Member of Malaria control action committee city corporation
- i) Consultant for Swach Bharath program for Dakshina Kannda dostrict.
- j) Resource person at review meeting of SNCU , Govt. of Karnataka
- k) Instated as President of National Neonatology Forum Karnataka Chapter on February 16th 2014.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

- a) Departments recognized as research centres - Yes
- b) Faculty recognized as research guides

S.No.	Research Guides
1.	Dr.B.S.Baliga
2.	Dr.NutanKamath
3.	Dr.AliKumble
4.	Dr.JanardhanShenoy

5.	Dr.Kamalakshi G Bhat
6.	Dr.SowminiKamath
7.	Dr.(Major) Rajesh
8.	Dr.Jayashree K
9.	Dr.SuchethaRao
10.	Dr. Soundarya.M
11.	Dr. Ravikiran S.R.

c) Priority areas for research

Community Paediatrics, Rheumatology, Neonatology, Hematology& Oncology, Paediatric Critical Care, Paediatric HIV, Adolescent Pediatrics.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing

Category	Number
PG Research Projects	17
UG Research Projects	2

Last 3 years (2010-2012)

		2012	2013	2014
Completed funded research projects		1	0	0
Completed non-funded projects		0	0	0
Completed PhD Research Projects		0	0	0
Completed PG Research Projects		6	5	6
Completed UG Research Projects		5	5	2
Publications	International	5	3	6
	National	18	10	9
Books		0	0	1
Chapter in Books		1	0	1
Conference Presentations	International	1	1	2
	National	2	8	3

The detailed outline of projects is given below:

Our Ongoing PG research Projects are:

SI#	Title	Name of the Student	Guide
1	Serum Vitamin D levels and its Association with severity and control of Bronchial Asthma among children between 6-15 years of age.	Dr.Sowmya V.C	Dr.Kamalakshi G Bhat
2	Profile and magnitude of Mocronutrient deficiency in children with systemic inflammatory response syndrome/sepsis	Dr.Kiran Kartheek	Dr.B.S.Baliga
3	Thyroid function in chronically transfused beta thalassemia major children – A cross sectional hospital based study	Dr.SurajHaridas Upadya	Dr. Nutan Kamath

4	Use of Yale observation scale for the prediction of bacteremia and sepsis in febrile children in the age group of 3-36 months	Dr.ShagunWalia	Dr.AliKumble
5	Comparison of light emitting diode phototherapy and conventional phototherapy in neonatal hyperbiliruinemia – A Hospital based randomized control trial	Dr.G.SreeSravya	Dr.Janardhan Shenoy
6	Tissue Doppler imaging for evaluation of cardiac function in beta major thalassemic children on transfusion	Dr.Chethan Kumar N	Dr. Sowmini Kamath
7	Micronutrient status in HIV infected children (Zn,Cu,Fe,Se)	Dr.Sangeetha Devi P.S	Dr.JanardhanShenoy
8	Hypovitaminosis D in Overweight and obese adolescents seeking health care in Mangalore-A Hospital based cross sectional study	Dr.Kesamreddy Swetha	Dr. Jayashree .K
9	Oxidative stress in neonates born via normal vaginal and caesarean delivery-Cross sectional hospital based study	Dr.Tanvi SurendraPai	Dr.(Major) Rajesh
10	Role of Ex-vivo induced TNF a levels in predicting the risk of health-Care associated infections among critically ill children	Dr.Anusha Challa	Dr.B.S.Baliga
11	Association of febrile seizure and their eeg changes with micronutrient level among febrile children in a tertiary care hospital	Dr.Lakmeel K.K.	Dr.Janardhan Shenoy
12	Electrocardiography analysis of repolarization changes in children with Kawasaki disease after the acute phase – a prospective study	Dr.Siddartha Reddy	Dr. Nutan Kamath
13	Effect of Platelet transfusion on retinopathy of prematurity	Dr. Mekala	Dr.AliKumble
14	Assessment of intelligence quotient in children treated for cancer	Dr.TariqHrris	Dr.Kamalakshi G Bhat
15	Comparative validity of Microalbuminuria and c-reactive protein with standard clinical scores to predict outcome in Paediatric intensive care unit a cross sectional study.	Dr.ShifaNismath	Dr.Suchetha Rao

16	Effect of conventional and LED phototherapy on oxidant and antioxidant status of Preterm neonates with jaundice	Dr. Anusha Allam	Dr.Ravikiran S.R.
17	Detection of pre hypertension and hypertension among school children of Mangalore city – a School based cross sectional study.	Dr.Ravikumar G	Dr.Soundarya

Our Ongoing UG Research Projects

SI#	Title	Name of the student	Guide
1	Screening of term newborns for Congenital heart diseases using pulse oximetry	Ms.KritikaD.Shenoy	Dr.SuchethaRao
2	A Study on the Early Management and complications of congenital talipes Equino Varus by Ponseti Method.	Ms.Asha Abison Chirackal	Dr.Jayashree.K

Our completed PG Research Projects are:

Year 2012

SI#	Title	Name of the Student	Guide
1	Craniofacial deformities in Indian children with Beta Thalassaemia Major	Dr.Charanya	Dr.U.V.Shenoy
2	Study of Anthracyclineinduced cardiotoxicity in childhood cancer survivors.	Dr.Nageshwar Reddy	Dr.Kamalakshi G Bhat
3	Supplementation of Vitamin A in combination with iron for anaemic children	Dr.Venugopal Reddy	Dr.Raghuveera K
4	Health Care Expenditure for critical care of children- A comparative study	Dr.Prashanth Kini K	Dr.B.S.Baliga
5	Comparison of surgical care expenditure for children in private and public health care system	Dr.Bharath Reddy	Dr. B.S.Baliga
6	Cardiac Evaluation in Juvenile Idiopathic Arthritis.	Dr.Ajmal Sheriff	Dr.NutanKamath

Year 2013

SI#	Title	Name of the Student	Guide
1	Assessment of Cardiac Function by Echocardiography and measurement of carotid intima Medial Thickness after acute phase of typical Kawasaki disease without coronary artery involvement	Dr.Rudraraju Shanti Priya	Dr.NutanKamath
2	Comparison of two different scoring systems for postnatal gestational age Assessment	Dr. Muhamed ShareefMalayil	Dr.B.S.Baliga

3	Study of factors associated with pathological aerobic microbial colonization of neonatal gastrointestinal system-A hospital based case control study	Dr.Davidson Devasia	Dr.Ali K
4	Early onset Septicemia: Predisposing factors and Bacteriological Profile	Dr. P.Vengaiah	Dr.Janardhan Shenoy
5	Assessment of health related quality of life among HIV positive children attending ART centre in Govt.Wenlock Hospital, Mangalore	Dr. K.G. Gopakumar	Dr.KamalakshiG. Bhat

Year 2014

Sl#	Title	Name of the Student	Guide
1	Incidence, etiology management and outcome of acute of kidney injury- A Prospective observational study	Dr. Alluri Ashok Raju	Dr.Jayashree K
2	Pulmonary Dysfunction in Children with β – Thalassemia Major aged 6-15 yrs in relation to iron over load-Hospital Based Cross sectional study	Dr.AshokBabu Boddu	Dr.AliKumble
3	Comparison of Cord Blood Lipid Profile in Preterm small for gestational Age and Appropriate for gestational age newborns –cross sectional, hospital based comparative study	Dr.Teashree Katragadda	Dr.(Major) Rajesh S.M.
4	Prevalence of obesity in school children aged 6 to 11yrs in Dakshina Kannada District.	Dr.Venkateshwar Reddy Bode	Dr.Kamalakshi G Bhat
5	Correlation between Vitamin D (25- hydroxy vitamin D) levels and Pre-term Neonatal Sepsis	Dr.Rahul Prasad	Dr.B.S.Baliga
6	Study of Socio- epidemiological determinates and effectiveness of nutritional rehabilitation centre in management of severe acute malnutrition in children aged 6 months to 5 years	Dr.Aprameya	Dr.Sowmini P.Kamath

Our completed UG Research Projects are

Year 2012

Sl#	Title	Name of the student	Guide
1	The Work-Related determinants and organizational support towards Breastfeeding practice among employed mothers in Mangalore	Ms.Angita Jain	Dr.B.S.Baliga
2	VitaminD(25-Hydroxy vitamin D3) Levels in critically ill infants to determine no needfor prophylactic supplementation	Miss.Kavya Shree	Dr.Nutan Kamath

3	Contribution of low birth weight to neonatal mortality	Miss. Anushka	Dr. Rajesh S.M.
4	Prevalence perception and correlate of overweight and obesity among school children – A Cross sectional Study	Prakar Kumar Singh	Dr.Suchetha Rao
5	Contribution of low birth rate to neonatal mortality-2012	Miss. Anusha	Dr.Smitha SharletteD'sa

Year 2013

SI#	Title	Name of the student	Guide
1	Prevalence triggers and risk factors of asthma among school going children in Mangalore,South India-a cross sectional study-2013	Srividya	Dr.SowminiP. Kamath
2	Assessing the knowledge of health care providers regarding IMNCI and infrastructure analysis of public health facilities in Mangalore Taluk- 2013	Ms.Mansi Mehrotra.	Dr.Anita Coutinho
3	Congenital malformation in newborns for a period of one year-2013	Miss. Sanjana	Dr.Smitha SharletteD'sa
4	Depression in Human immunodeficiency virus infected children and its relationship with their school performance and social skills in an Anti-Retroviral Therapy center in Mangalore-2013	Miss.LakshmiVij ayakumar	Dr.B.S.Baliga
5	Prevalence of obesity and influence of food advertising on childhood obesity in school children -2013	Miss.Nuthan K.P.	Dr.Kamalakshi Bhat

2014

SI#	Title	Name of the student	Guide
1	Thyroid function in children with juvenile idiopathic arthritis	Mr.Anirudh Chand	Dr.Nutan Kamath
2	Study of pattern of caesarean section and its neonatal outcome and amplications-cross-sectional retrospective study	Ms.Sreeja	Dr.Janardhan Shenoy

The Details of our Publications are described below.**Year 2012****National:**

1. Kamath N, Rao S.,
Henoch-Schonleinpura: An update. Review Article.
Indian Journal of Rheumatology 2012;7(1): 92-98.
2. SinghalVikram, ShenoyRathika D, KamathNutan, RaoSadashiva.
Mediastinal Enteric Cyst in a Neonate.
Journal of Clinical Neonatology,2012; 1 (3) : 149-151.
3. SinghalVikram , Kamath, Nutan,
Detection of Fetal Malnutrition by CAN Score at birth and its comparison with other methods of determining intrauterine growth.
Indian Journal Clinical Practice2012; 22 (11): 575-582.
4. SinghalVikram, KamathNutan, ShenoyRathika D
Esophageal Perforation in preterm Neonate.
Journal of Perinatol and neonatal care, 13 (3):119-121.
5. SinghalVikarm, KamathNutan, Baliga B.S.,Unnikrishnan B,
Cord Blood Bilirubin level as an Early Predictor of Neonatal Hyper bilirubinemia – A Hospital based Prospective Study.
Perinatology 2012; 13(1):1-8.
6. RaoSuchetha, SinghalVikram, KamathNutan
HenochSchonleinpura: Classification and management an Update.
Karnataka Pediatric Journal, 2012; 26(1) 16-19.
7. Bhat Kamalakshi G, SinghalVikram,BorkerAnupama S.
Successful treatment of vincristine induced ptosis and polyneuropathy with pyridoxine and pyridostigmine in a child with acute lymphoblastic leukemia.Case report.
Indian Journal of Medical and Paediatric Oncology, (2012); 33 (3): 185-187.
8. VikramSinghal, Saleem E.K., Rajesh S.M , Anita Coutinho
Neonatal Salmonella Typhi Meningitis A Rare Entity.
Journal of Clinical & Diagnostic Research, 2012;6(8):1433-1434

9. SinghalVikram, Agal Prashant, KamathNutan.
The Prevalence of Elevated Blood Pressure and the Association of Obesity in Asymptomatic Female Adolescent Offsprings of Hypertensive and Normotensive Parents.
Journal of Clinical and Diagnostic Research, 2012; 6 (7): 1158-1161
10. U.V.Shenoy, Anita Coutinho, C.V.Raghuveer, K.SatyaMoorthy, P.N.Gopinath, MurugeshanRaju.
Molecular Diagnosis of β - Thalassaemia in Coastal Karnataka
Karnataka Pediatric Journal 2012; 26:2
11. ATK Rau, Anita Coutinho, K ShreedharAvabratha, AarathiRau, Raj Warrierr..
Pesticide (Endosulfan)Levels in the Bone Marrow of Children with Hematological Malignancies.
Indian Pediatrics February 2012;49:(2):113-7
12. SinghalVikram, KamathNutan,Shenoy.D.Rathika, BhatG.Kamalakshi.
Type II necrotizing fasciitis in neonates – Case Series.
Asian Journal of Pediatric Practice2012; 15(4):21-24.
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The details of our Conference presentations have been listed below.

Year 2012

International:

SI#	Title of the Presentation	Name of the Faculty	Details of Conference
1	The Effect of Treatment with Vincristine on Cochlear Function	Dr.NutanKamath	7 th International society of Pediatric Oncology Asia Congressat Yogyakarta, Indonesia on 22 nd – 24 th April,2012

National:

SI#	Title of the Presentation	Name of the Faculty	Details of Conference
1	Financial Burden on household due to Health care expenditure for critical care of children	Dr.SuchethaRao	Dr James Flett Endowment award -Pedicon 2012 at Gurgoan, 18 th - 22 nd January 2012.
2	Does institutional delivery help in improving infant and child health care practices and health promotion related parameters? A study from Bellary, Karnataka	Dr.SuchethaRao	2 nd National conference on bringing evidence in to public health policy EPHP 2012 at Bangalore, on 5 th - 6 th October 2012

Year 2013

International:

SI#	Title of the Presentation	Name of the Faculty	Details of Conference
1	“Does Ventricular Dysfunction exist in children with Juvenile Idiopathic Arthritis without clinically Evident Cardiac Disease ? Experience from Coastal India”	Dr.NutanKamath	Pediatric Academic Societies Annual Meeting, 4 th to 7 th May,2013, Washington DC,USA

National:

Sl#	Title of the Presentation	Name of the Faculty	Details of Conference
1	“Large Congenital frontoparietal arachnoid cyst-a rarity”	Dr. B.Shantharam Baliga	50 th national conference of IAP – PEDICON 2013, 17 th to 20 th January 2013,Kolkatta
2	" Neonatal Airway Compromise by an Extensive venous Hemangioma- surgically managed”	Dr.JanardhanShenoy	50 th national conference of IAP – PEDICON 2013, 17 th to 20 th January 2013,Kolkatta
3	‘Prevalence Of Obesity and Dyslipidemia in Childhood Cancer Survivors’	Dr.KamalakshiBhat	50 th national conference of IAP – PEDICON 2013, 17 th to 20 th January 2013,Kolkatta
4	“Child health promotion practices, health care utilization and health care expenditure related to childhood illness: A comparative study between the two districts in a South Indian state”.	Dr.SuchethaRao	50 th national conference of IAP – PEDICON 2013, 17 th to 20 th January 2013,Kolkatta
5	Poster Presented ‘Primary hyper parathyroidism preventing as bilateral gemmalgum	Dr.SowminiKamath	50 th national conference of IAP – PEDICON 2013, 17 th to 20 th January 2013,Kolkatta
6	Poster Presentation” Quality of care in NICU of Public and private hospital – A comparative study”	Dr.PrashantKini.K	50 th national conference of IAP – PEDICON 2013, 17 th to 20 th January 2013,Kolkatta
7	“Rickets: not always nutritional,Fractures not always traumatic:APediatric Perspective”	Dr.Jayashree.K	ISPNCN 2013- 25 th Annual Conference of Indian Society of Paediatric Nephrology, St.John’s Medical College ,Bangalore
8	Presented a Paper “ Problem based case discussion as an introduction to clinical Paediatrics for undergraduate students”	Dr.SmithaD’sa	1 st National Conference on Pediatric Education, 31 st August 2013, Dr.T.M.A. Pai Convention Centre,Mangalore.

Year 2014

International

Sl#	Title of the Presentation	Name of the Faculty	Details of Conference
1	“Novel SLC29A3 mutation causing H Syndrome in an Indian Adolescent”	Dr.NutanKamath	64 th American Society of Human Genetics Annual Meeting, 18 th to 22 nd October 2014, San Diego, CA,USA
2	Study to assess the effectiveness of structured training program on the knowledge in Pediatrics during clinical posting from a medical college in coastal South India”	Dr.KamalakshiBhat	International Medical Education Conference, 11 th to 13 th March 2014, Kualalumpur, Malaysia

National:

Sl#	Title of the Presentation	Name of the Faculty	Details of Conference
1	“Assessment of cardiac function by ECHO cardiography and measurement of carotid Intima Media thickness after the Acute phase of Typical Kawasaki Disease	Dr.NutanKamath	3 rd Kawasaki Disease Summit & 12 th National Conference of Pediatric Rheumatology society (PRheSCON2014), 31 st October to 2 nd November 2014,Chandigarh
2	Isosexual precocious puberty in a toddler.	Dr.SuchethaRao	Karnataka State Pedicon 2014, 1 st and 2 nd November,2014, Mysore.
3	“Pseudoscizure??- Transient Dissociative stupor!!”	Dr.Jayashree.K	14 th -16 th November,2014 National Adolescent Pediatric Conference at Dayananda Medical College Hospital, Ludhiana

12. Placement record of the past students and the contribution of the department to aid student placements

Most of our students are pursuing Post-graduate course in our country or have gone abroad for further studies. Some of them have gone to research and health administration.

13. Plan of action of the department for the next five years

UG:

- To achieve transition from teaching methods to learning methods.
- Competence based evaluation.
- Improve Undergraduate Log book to make it user friendly and suitable for objective assessment.

- d) To develop programs to enhance personality development, communication skills, Managerial skills.
- e) Promote research activities by 3 fold and publication in indexed and international journals from existing Undergraduate research
- f) Encourage and guide Undergraduate for conference presentation specially in the field
- g) Improve the quality of Soft Library,E-learning and extend the facility to UG (presently available to PGs)

PG:

- a) To develop programs to enhance personality development, examination Managerial skills
- b) Promote research activities by 3 fold and publication in indexed and international journals from existing Postgraduate.Research
- c) Encourage and guide Postgraduate for conference presentation specially in the field.

Infrastructure

- a) Increase the work place capacity of PICU.
- b) Reorganise and equip NICU.
- c) Establish 50 bedded NICU at the community hospital attached to the institution.
- d) Organise and establish child development center with mobile rehabilitation unit and peripheral center at taluka level in collaboration with various departments of Government of Karnataka and donor agencies.
- e) Establish District early intervention center

Faculty Development

- a) Pediatric Subspecialies.
- b) Organise 3 workshop/yr for health care provides.
- c) Organise 2 workshops/ CME every year
- d) Promote inter departmental research with a target of 2 per year.
- e) Increase research output from staff by twice in next 2 years and 3 time the present publication.

Collaboration

- a) To further the collaboration activities in more areas with existing activities and newer activities.
- b) To have collaboration with more departments/institutions.

Alumni

- a) To develop/organize Alumni directory and take necessary steps to increase Alumni Collaboration for research, CME and faculty development.

ANAESTHESIOLOGY

1. Faculty profile - adequacy and competency of faculty

There are twenty one teaching faculty members who meet the requirements for MBBS, BDS and the postgraduate training. All faculty members are competent.

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. Thrivikram Shenoy	MBBS DA, MD	Professor & Head	27
2.	Dr. Madhusudan Upadya	MBBS MD	Professor	22
3.	Dr. Saroja V. Sharma	MBBS DA, MD	Professor	35
4.	Dr. K. Rajaram Baliga	MBBS DA, MD	Professor	25
5.	Dr. Shaila S. Kamath	MBBS MD	Professor	14
6.	Dr. Suresh Y. V.	MBBS MD	Assoc. Prof.	16
7.	Dr. Rammoorthy Rao	MBBS MD	Assoc. Prof.	14
8.	Dr. Padmanabha K.	MBBS MD	Assoc. Prof.	11
9.	Dr. Jitesh M. Rasquinha	MBBS MD	Assoc. Prof.	10
10.	Dr. Sunil B.V	MBBS MD	Assoc. Prof.	07
11.	Dr. Sonal Bhat	MBBS MD	Asst. Prof.	06
12.	Dr. Julie Misquith	MBBS MD	Asst. Prof.	03
13.	Dr. Neeta S.	MBBS MD	Asst. Prof.	01
14.	Dr. Shetty Veena Anand	MBBS MD	Asst. Prof.	03
15.	Dr. Suhas R	MBBS DNB	Asst. Prof.	03
16.	Dr. Sangeetha B.	MBBS DA	Senior Resident	05
17.	Dr. G. Y. Kamath	MBBS DA	Senior Resident	04
18.	Dr Kaushik Rao	MBBS MD	Senior Resident	02
19.	Dr Manasa Acharya	MBBS MD	Senior Resident	03
20.	Dr. Shaikh Osmani	MBBS MD	Senior Resident	<01
21.	Dr. Shilpa A. Naik	MBBS MD	Senior Resident	<01

22.	Dr.Dattatray A Prabhu	MBBS MD	Senior Resident	<01
23.	Dr. Chandana M Srinivasan	MBBS	Junior Resident	02
24.	Dr. Shivani Bakshi	MBBS	Junior Resident	02
25.	Dr. Aswin A B	MBBS	Junior Resident	02
26.	Dr.Swetha	MBBS	Junior Resident	02
27.	Dr. Joanna Samantha Rodrigues	MBBS	Junior Resident	02
28.	Dr. Trishna Pradeep	MBBS	Junior Resident	02
29.	Dr. K. Vijaya Sai	MBBS	Junior Resident	02
30.	Dr. Vyshali Dharmapal	MBBS	Junior Resident	02
31.	Dr. Sri Sruthi Pachala	MBBS	Junior Resident	02
32.	Dr.Venugopal	MBBS	Junior Resident	02
33.	Dr.Shreyas P.S	MBBS	Junior Resident	02
34.	Dr.Priyamvadha S.R	MBBS	Junior Resident	02
35.	Dr.Sathish Bobba	MBBS	Junior Resident	02
36.	Dr.Rama Sandeep Reddy M	MBBS	Junior Resident	02
37.	Dr.Pallavi Singh	MBBS	Junior Resident	02
38.	Dr. Mohammed Irfanulla	MBBS	Junior Resident	01
39.	Dr. Kurinchi Raja M	MBBS	Junior Resident	01
40.	Dr. Santhosh D	MBBS	Junior Resident	01
41.	Dr. Amrutha S	MBBS	Junior Resident	01
42.	Dr. Samson David S	MBBS	Junior Resident	01
43.	Dr. Jayaprakash Adithya	MBBS	Junior Resident	01
44.	Dr. Avaneesh Sandupatla	MBBS	Junior Resident	01
45.	Dr.Sagar	MBBS	Junior Resident	01
46.	Dr.Ranjeet P	MBBS	Junior Resident	01
47.	Dr.Sharath C	MBBS	Junior Resident	01

48.	Dr.Akkala Abhinav	MBBS	Junior Resident	<01
49.	Dr.Mahesh Nayak	MBBS	Junior Resident	<01
50.	Dr.Sai Kaushik P.H	MBBS	Junior Resident	<01
51.	Dr.Shankar D	MBBS	Junior Resident	<01
52.	Dr.Shaikh Tahoor Javed	MBBS	Junior Resident	<01
53.	Dr.Puneeth N	MBBS	Junior Resident	<01
54.	Dr.Rohit Kumar	MBBS	Junior Resident	<01
55.	Dr.Vignesh Kumar	MBBS	Junior Resident	<01
56.	Dr.Priyanka Dabas	MBBS	Junior Resident	<01
57.	Dr.Keerthi P	MBBS	Junior Resident	<01
58.	Dr.Naveen Kumar Chekka	MBBS	Junior Resident	<01
59.	Dr.C.H. Parameshwar Reddy	MBBS	Junior Resident	<01
60.	Dr. Vinay P	MBBS	Junior Resident	<01

All the faculty therefore have competency as laid down by MCI.

Faculty Position sanctioned and filled

Category	Sanctioned	Filled
Teaching staff	16	14
Senior resident	15	07
Junior resident	10+5 =15 / year	38

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The teaching schedule has been modified and evolved over the past year with joint consensus with the staff and post graduates. This was to improve the quality of the academic content, and to accommodate the hectic theatre work. For the post-graduates, classes for the senior PGs were reduced from 3 to 2 per week; but the duration of class was increased to ≥ 2 hrs, and the classes made more content-rich and discussion-based than didactical. For the junior PGs, classes on basic and introductory topics have been

added instead. More importance was given to operation theatre skill- and case-based teaching, and strong fundamental teaching, for the UG and PGs.

4. Trends in the success and drop out rates of students during the past two years

Course	Pass Percentage				Drop out Rate	
	2013		2014		2013	2014
	April	October	April	October		
MD	100		100	-	0	0
DA	0	0	90	-	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The Dept. has a well-equipped and updated Dept. Library with Anaesthesia textbooks and Journals that are updated every year. The Dept. also subscribes to 15 National and International Journals annually. Journal access online is available through institutional subscription to various scientific journal publishers.

The Dept. has been provided with Desktop computers used for teaching and administrative activities; all the faculty have also been provided with individual laptop computers with WiFi internet access, that is used for academic activity, research and publications.

The Dept. has a Clinical Skills Laboratory in the Medical Education Dept. that is well-equipped with mannequins and instruments to teach anaesthetic and critical care procedures to students.

6. Modern teaching methods practiced and use of ICT in teaching – learning

All the faculty members use multimedia presentations for teaching UG & PG students. The Dept. also maintains a digital library of PG class topic presentations for referral. Under graduate teaching in the institutional lecture halls and all the relevant chapters are dealt. Daily theatre teaching as group discussion for the under graduates in the side room lecture hall in the theatre complex. Practical procedural demonstration for the same group in the theatre between 9am and 12 noon. At the end of the posting there will be a visit to skill lab for demo of ACLS and BLS along with central vein cannulation on mannequins. This facility is utilized by the medicine faculty also. Post graduate teaching twice in a week involving seminars, case presentations, journal club and problem orientated discussions. Additional classes are arranged for senior post graduates for their preparation for the final university examinations. Tests are conducted once in 3 months for all the post graduates. Clinico pathological discussions and mortality meetings once in a month for the heads of the institution, entire faculty and post graduates of all the relevant

departments. Community awareness of anaesthesia and particular emphasis on CPR for the working employees during an industrial hazard or crisis. Awareness of facing natural calamities like fire hazard or an earth quake at school levels. ICT is the future goal of the dept to improve the teaching methodology as well as to communicate with faculty related to our institution all over the country, and increase the students' exposure to anaesthesia practice elsewhere. We annually conduct teaching learning workshops for the junior faculty, basic medicine education technology and student evaluation workshop.

7. Participation of teachers in academic and personal counseling of students.

The Faculty act as Research Guides to lead PG students in their thesis research, and publication and presentation of the results at the end of the studies. The Faculty also guides UG students in independent studies as well as ICMR-STC funded studies.

The Faculty mentor weak PG students individually prior to their final examinations every year. This is a formal mentoring program, with the faculty mentors appointed by the Head of Dept.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

2013

Name of the Faculty	Name of the programme	Dates	Venue
Dr. Madhusudann Upadya	Training on NABH standards (3 rd Edition)	24 th and 25 th July 2013	K.M.C., Mangalore
Dr. Shaila S Kamath	BLS programme for BDS students	19 th January 2013	Med. Education Hall, K.M.C. Mangalore
Dr. Shaila S Kamath	Instructor AHA BLS/ACLS programme	6 th to 8 th May 2013	Manipal University
Dr. Shaila S Kamath	EMS training programme	8 th & 10 th August 2013	K.M.C., Mangalore
Dr. Shaila S Kamath	NABH training programme	21 st and 22 nd August 2013	K.M.C. Hospital Attavar, Mangalore

2014

Name of the Faculty	Name of the programme	Dates	Venue
Dr. Madhusudann Upadya	'Geriatric Palliative course'	20 th to 24 th August, 2014	K.M.C. Hospital Attavar, Mangalore
Dr. Madhusudann Upadya	Geriatric Palliative Care course'	10 th & 14 th December 2014	K.M.C. Hospital Attavar, Mangalore

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.

The Faculty participates in didactic lectures, seminars, presentations and journal clubs conducted for the UG and PG students. Faculty also guides all research projects conducted by the PG students of the Dept., as well as UG students who conduct ICMR-STs and self-funded research.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

None at present.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty , during past two years

The research areas of the Dept. are Preoperative, Perioperative, Pain and Palliative Care, Intensive Care and the development of Anaesthetic Drugs.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
PG research projects	19

Last 2 years (2013-2014):

		2013	2014
Completed PG research projects		9	10
Completed UG research projects		0	0
Publications	International	5	4
	National	9	6
Conference presentations	International	0	0
	National	10	10

Our ongoing PG research projects are:

Sl#	Title	Name of student	Guide
1.	A Comparative Study of Caudal Butorphanol –Bupivacaine and Fenaltyl-Bupivacaine For Alleviating post operative Pain In Infraumbilical Procedures In Children Below 3 Years Of Age.	Dr. Mohammed Irfanulla	Dr. Thrivikram Shenoy
2.	Evaluation of Gender Variability and Body Mass Index variability In Tolerating post operative Pain In Patients Who Underwent open Abdominal Surgeries. A Prospective Study.	Dr. D. Santhosh	Dr. Madhusudan Upadya

3.	Comparison of Effect of 0.5% Bupivacaine With Dexmedetomidine and 0.5% Bupivacaine Alone In Brachial plexus block by supraclavicular approach .	Dr. Sagar S	Dr. Suresh Y V
4.	Comparison of effect of rocuronium with priming and without priming on endotracheal Intubation In adults: A prospective, Randomized control, superiority study.	Dr. Sharath.C	Dr. Shaila S Kamath
5.	A Randomized Controlled comparison between Ultrasound Guidance and nerve stimulation guidance for Improving the success rate of supraclavicular brachial plexus block.	Dr. Samson David S	Dr. Jesni Joseph Manissery
6.	Comparison of efficacy between Intrathecal bupivacaine with fentanyl and bupivacaine with butorphanol : open randomized controlled parallel Study.	Dr.Avaneesh Sandupatla	Dr. Jitesh Marian Rasquinha
7.	Comparison of perioperative Efficacy Of Intrathecal Fentanyl, Clonidine and Dexmedetomidine as adjuvants to hyperbaric Bupivacaine In patients undergoing Infraumbilical surgeries	Dr.Amrutha.S	Dr. Saroja Sharma
8.	Comparison of postoperative analgesic effect of Intrathecal magnesium Sulphate Added To bupivacaine With Bupivacaine Alone In Lower Limb orthopaedic Surgery.	Dr.Adithya Jayaprakash	Dr.Suresh Y.V
9.	Effect of dexmedetomidine As sedative In chronic Sub-dural haematoma evacuation Surgeries.	Dr.Kurinchi Raja M	Dr. Rammoorthi Rao
10.	Effect of sleep deprivation on The skills of anaesthesiologists; A cross over Study.	Dr. Ranjeet P	Dr. Padmanabha Kaimar
11.	Prophylactic phenylephrine for cesarean section under spinal anaesthesia	Dr.Akkala Abhinav	Dr.Thrivikram Shenoy
12.	A comparative study of Intraperitoneal 0.2% ropivacaine versus 0.25% bupivacaine for post-operative pain management in laparoscopic cholecystectomy.	Dr.Mahesh Nayak	Dr. Madhusudan Upadya
13.	“A comparison between intra-articular 0.2% ropivacaine and 0.25% bupivacaine for post- operative pain relief in day-care arthroscopic knee surgery.	Dr.Sai Kaushik P.H	Dr. Shaila S Kamath
14.	Predicting the difficult airway with the ratio of height to thyromental distance (RHTMD)	Dr. Shanker D	Dr.Suresh Y.V

15.	Comparative study of incidence of post dural puncture headache with 25 gauge quincke and 25 gauge whitacre needles in obstetric patients.	Dr. Shaikh Tahoor Javed	Dr.Rammorthi Rao
16.	Effectiveness of using air, A 50% mixture of N20:02 and lignocaine to inflate the endotracheal tube cuff during general anaesthesia	Dr. Puneeth N	Dr.Jesni Joseph
17.	Local anesthetic for surgical wound infiltrationcomparison of bupivacaine and combination of bupivacaine with magnesium sulphate wound infiltration for postoperative analgesia in patient undergoing elective abdominal surgery.	Dr. Rohit Kumar	Dr.Saroja Sharma
18.	Comparison of table tilt versus pelvic tilt position for intrauterine resuscitation during spinal anaesthesia for caesarian section.	Dr. Vignesh Kumar	Dr.Padmanabha
19.	A comparative study of management of perioperative and postoperative shivering with dexmedetomidine, butorphanol and tramadol in patients undergoing spinal anaesthesia.	Dr. Keerthi P	Dr. Shaila S Kamath

Our completed PG Research Projects are:

Year 2013

SL#	Title	Name of Student	Guide
1.	Comparison between dexmedetomedine and fentanyl infusion for short term sedator in mechanically ventilated patients in intensive care unit.	Dr. Ashwin Kumar	Dr. Meghna Mukund
2.	Failure rate n effects of spinal anaesthesia on obese pregnant females	Dr. Aparna Ashok	Dr. Suresh Y.V.
3.	The effect of intraoperative dexmedetomidine on postoperative analgesia and sedation in pediatric patient undergoing tonsillectomy	Dr. Rakesh Roshan	Dr. Madhusudan Upadya
4.	Study to assess the effect of intravenous dexmedetomidine in prolongation of bupivacaine spina anedthesia- randomized control trial	Dr. Rakesh Reddy	Dr. Jesni Joseph

5.	Effect of adding dexmedetomidine versus clonidine to epidural ropivacaine in lower abdominal and lower limb surgeries	Dr. Karthik	Dr. Sumesh T. Rao
6.	Neck circumference to thyromental distance ratio in comparison with mallamatti test a new predictor of difficult intubation	Dr. Samiksha Khanooja	Dr. Madhusudan Upadya
7.	Conscious sedation using propofol fentanyl midazolam with tumescent local anesthetic solution with adrenaline for modified wide awake surgeries of hand	Dr. Vertika Sachin	Dr. Thrivikram Shenoy
8.	Para vertebral block for major breast surgery	Dr. Sunaina Osmani	Dr. Rammoothy Rao
9.	Use of esmolal in attenuation of cardiovascular response to laryngoscopy and intubation in diabetic and non diabetic patients	Dr. Shaik Osmani	Dr. Shaila Kamath

Year 2014

Sl #	Title	Name of the Student	Guide
1	Evaluating the effects of pretreatment with Intravenous granisetron in alleviating pain on propofol injection in comparison with Lignocaine	Dr. K. Vijaya Sai	Dr. Shaila S Kamath
2	Study of haemodynamic changes following induction with propofol-ketamine, propofol-midazolam and propofol	Dr. Swetha	Dr. Rammorthi Rao
3	A comparison of cardio-respiratory effects of pressure-controlled and volume-controlled ventilation during laparoscopic cholecystectomy	Dr.Chandana.M. Srinivasan	Dr. Thrivikram Shenoy
4	Effect of weight gain of each trimester of pregnancy on haemodynamics during elective caesarean section after sub arachnoid blockade	Dr. Sri Sruthi Pachala	Dr. Padmanabha K
5	Paravertebral block-an alternative to conventional spinal anaesthesia in Inguinal	Dr.Aswin A.B	Dr. Suresh Y.V

	hernia repair		
6	Comparison of the fiberoptic guided rush PVC Intubation through the i-Gel and through the ilma in a predicted difficult airway – a randomized controlled trail	Dr. Joanna Samantha Rodrigues	Dr. Madhusudan Upadya
7	A Randomized controlled study of emergence agitation in Pediatric patients undergoing isoflurane v/s sevoflurane anaesthesia	Dr. Trishna Pradeep	Dr. Jesni Joseph Manissery
8	Prospective study on epidural catheter tip cultures in post operative patients	Dr. Vyshali Dharmapal	Dr. Thrivikram Shenoy
9	Dexmedetomidine as an anaesthetic adjuvant in Laparoscopic surgery – using entropy to monitor the depth of Anaesthesia	Dr. Shivani Bakshi	Dr. Madhusudan Upadya
10	Efficacy of Intravenous Dexmedetomidine in attenuating hemodynamic response to laryngoscopy and Intubation – A double blind study	Dr. Venugopal S	Dr. Jithesh Marian Rasquinha

The details of our publications have been listed below.

2013

PAPERS PUBLISHED IN NATIONAL JOURNALS

Sl#	Name of the Author(s)	Title of the Article	Type of the article (Original paper/Short communication, letter to the editor, review article etc.)	Name of the Journal, year of publication, volume number and page number	Indexed/ Non-indexed (Indexing Details if indexed)	Whether SCI indexed Yes/No AND Impact factor of the journal
1	Dr. Shaila S Kamath, Dr. Madhusudan Upadya, Dr. Sonal Bhat	A comparison of the analgesic effect of intravenous nalbuphine and tramadol in patients with post-operative	Journal Article	Asian Journal of Pharmaceutical and Health	Indexed	0.0865

		pain –a double blind prospective randomized study		Sciences, July-Sept-2013, Issue 3 Vol -3,pg No. 786-790		
2	Dr. Padmanabha Kaimar	Effect of dexamethasone added to lidocaine in supraclavicular brachial plexus block; a prospective, randomized, double-blind study	Clinical Investigation	India Journal of Anaesthesia, Mar-Apr-2013, Vol.57, Issue -2, Pg No. 180-184	indexed	
3	Dr. Sumesh T Rao Dr. Madhusudan Upadya	Comparative Study of Anti - Emetic Efficacy of Palonosetron with Ondansetron And Metoclopramide	Research Paper	Indian Journal Of Applied Research, Oct. 2013, Vol.3, Issue 10,Pg No. 1-3	Indexed	
4	Dr. Sonal N Bhat,Dr. Madhusudan Upadya	Comparison of efficacy and safety of ropivacaine with bupivacaine for intrathecal anesthesia for lower abdominal and lower limb surgeries	Original article	Anesthesia:Essays and Researches, 7(3) Sept-Dec-2013,Pg No. 381-385	Indexed	
5	Dr.Suhas Ramaswamy,Dr.	To Compare the Insertion Conditions	Reseach paper	Indian Journal	Indexed	

	Madhusudan Upadya, Dr. Thrivikram Shenoy	for I-Gel, Using Propofol, Thiopentone and Thiopentone with Topical Lignocaine Spray. - A Double Blind Randomized Study		Of Applied Research Oct.2013, Vol.3, Issue 10, page 1-3		
6	Dr.Suhas Ramaswamy	Peri operative care of a patient with Congenital Epidermolysis Bullosa	Research paper	Indian Journal Of Applied Research Dec. 2013, Vol .3, Issue 12, Pg No. 454-455	Indexed	

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:

Sl. No	Name of the Author(s)	Title of the Article	Type of the article (Original paper/Short communication, letter to the editor, review article etc.)	Name of the Journal, year of publication, volume number and page number	Indexed/ Non-indexed (Indexing Details if indexed)	Whether SCI indexed Yes/No AND Impact factor of the journal
1	Dr. Sumesh T Rao Dr. Madhusudan Upadya	A comparative study of induction and recovery characteristics with Propofol and Halothane or Sevoflurane in Adult Day Case	Research paper	International Journal of Scientific Research, 2; issue 8, August 2013, 316-318	Indexed	

		Surgeries				
2	Dr. Sumesh T Rao Dr. Madhusudan Upadya	Comparison of Post-Operative Analgesic Effects of Pre-Operative Pregabalin with Diclofenac in Head and Neck Surgery	Research paper	International Journal of Scientific Research, 2; issue 8, August 2013, 319-322	Indexed	
3	Dr. Sumesh T Rao	Awareness on blood donation among the nursing staff	Research article	International Journal of Advanced Research 1(7); Pg. 610-616	Indexed	
4	Dr. Suhas Ramaswamy, Dr. Madhusudan Upadya	Central Venous Catheter-Related Infections. A Prospective and Non Randomised Study	Research Paper	International Journal of Scientific Research September 2013, Volume 2 Issue 9, Pg No. 265-267	indexed	
5	Dr. Suhas Ramaswamy, Dr. Madhusudan Upadya	Haloperidol Versus Gransisetron for prophylaxis of post operative nausea and vomiting – A Double Blind Prospective Randomised Study	Research paper	International Journal of Scientific Research, September 2013, Volume 2 Issue 9, pg No. 293-295	Indexed	

2014

PAPERS PUBLISHED IN NATIONAL JOURNALS

Sl. No	Name of the Author(s)	Title of the Article	Type of the article (Original paper/Short communication, letter to the editor, review article etc.)	Name of the Journal, year of publication, volume number and page number	Indexed/ Non-indexed (Indexing Details if indexed)	Whether SCI indexed Yes/No AND Impact factor of the journal
1	Nisha Rajmohan, S.Neeta, HK Das	Anaesthesia for auto transplantation after extracorporeal nephron sparing surgery for giant renal angiomyolipoma	Case report	IJA Jan-Feb 2014:58(1);66-68.	Indexed	
2	Dr. Suhas Ramaswamy, Dr. Saroja Sharma, Dr. Saurab Mohan, Dr. Madhusudhan Upadya, Dr. Thrivikram Shenoy	To compare the insertion conditions for I-Gel using propofol, thiopentone and thiopentone with topical lignocaine spray	Original paper	IJAR Feb 2014:4(2)	Indexed	
3	Vaibhav K. Nasa, Shaila S.Kamath	Risk Factors Assessment of the difficult intubation using intubation difficulty scale.	Original article	Journal of clinical diagnostic research July,2014 8(7)1-3.	indexed	0.14
4	Osmani Shaik Gulam and Kamath Shaila S	Effects of esmolol on hemodynamic responses to laryngoscopy tracheal intubation in diabetic and non-diabetic patients,	Original article	Muller journal of medical science and Research, July-	indexed	

				Dec.2014 5(2)117- 120.		
5	Anupama Suresh y, Suresh Y.V, Chaturvedi, Achira	Influence of Abnormal GCT with normal or OGTT on neonatal outcome	Original article	Journal of Medical science and clinical research,2(9). 2471- 2482:234.	indexed	
6	Sandeep Koti V, Padmanabha K	Effect of cricoids pressure on tracheal intubation by direct laryngoscopy	Original article	Indian Journal of applied research Nov.2014: 4: 11-13.	indexed	2.16

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:

Sl. No	Name of the Author(s)	Title of the Article	Type of the article (Original paper/Short communication, letter to the editor, review article etc.)	Name of the Journal, year of publication, volume number and page number	Indexed/Non-indexed (Indexing Details if indexed)	Whether SCI indexed Yes/No AND Impact factor of the journal
1	Sayeda Noor Huzefa, Shaila S Kamath and Julie Misquith.	A comparative study of the effects of placement of laryngeal mask airway Vs endotracheal tube on haemodynamic parameters in children	Original paper	RRJMHS Jan- Mar 2014: 3(1): 61-66	Indexed	0.35
2	Kamath Shaila S. and Rao Amrut K	Comparison of 2 units and 5 units of oxytocin bolus doses followed	Original paper	Asian J. Pharm. Hea.Sci.	Indexed	0.0865

		by infusion in patients undergoing elective caesarean section.		Jan- Mar 2014:41(1):930-935		
3	Shaila S.Kamath	Anaesthetic management of thyroglossal duct cyst causing respiratory distress in an infant- A case report	Case report	Aisan J.Pharm. Hea.sci April.June 2014:4(2) 981-983.	index ed	0.0865
4	Kamath Shaila S	Anaesthetic Management of Non-thyroid surgery in a hypothyroid patient	Case report	RRJMHS.3 (2)April-June 2014; 66-67	Index ed	0.35

12. Placement record of the past students and the contribution of the department to aid student placements.

The Dept. has placed most of its PG students on passing their Degree examinations into Faculty / Consultant / further Training posts in reputed institutions and hospitals. The faculty actively assists students in applying to and securing such tenures. All of the past PG students have been successful in securing jobs.

13. Plan of action of the department for the next five years

- i. To improve the number of publications annually from the department;
- ii. Improvement of the faculty Attendance and presentations at Conferences.
- iii. Encouraging post-graduates to present and publish the results of their research studies.
- iv. To increase the number of projects and grants at departmental and inter-departmental level.
- v. To intensify exam going PG teaching programme in their last 6 months of the course.
- vi. Conduct frequent CME and workshops and conduct conferences at feasible levels.
- vii. Promotion of a skill lab for the benefit of under graduates.
- viii. To procure an ultrasound equipment for PG teaching of simple and advanced blocks and central venous cannulations.

PSYCHIATRY

1. Faculty profile - adequacy and competency of faculty

There are five teaching faculty members who meet the requirements for MBBS, and also for postgraduate training as per the requirements of the regulatory bodies. All faculty members are competent.

Sl#	Name	Qualification	Designation	Teaching Experience
1	Dr.Keshava Pai.K.	MD	Professor and Head	13
2	Dr. Caroline D' Souza	DPM.DNB(Psy)	Assistant Professor	05
3.	Dr. Survesh	MBBS	Senior Resident	04
4.	Dr.Donthu Rajkiran	MBBS	Junior Resident	02
5	Dr Poonam	MD	Senior Resident	01
6	Dr. Sneha Satish Sharma	MBBS	Junior Resident	02

Faculty who worked for the department for part of the year:

Sl. No	Name of the Relieved Faculty	Qualification	Period	
			Designation	Date of Relief
1	Dr.Ravish Thunga	MD,DPM	Professor	24 years (Relieved on 30-8-2014)
2	Dr.Supriya Hegde	MD	Associate Professor	9 yrs. (Relieved on 2-6-2014)

The entire faculty therefore have competency as laid down by MCI.

Category	Sanctioned	Filled
Teaching Staff	3	2
Senior Residents	3	1
Junior Residents	4	1

In addition the department has following staff

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Ms.Mariella D'Souza	MSW, M Phil (Psychiatric Social Work)	Senior Grade Lecturer	23
2	Dr.Seemanthini T.S.	MA, M Phil (Clinical Psychology)Ph.D.	Associate Professor of Clinical Psychology	05
3	Mr. Syam K.R.	M Sc. (Clinical Psychology), Mphil	Assistant Professor of Clinical Psychology	02

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by MCI and the department strictly complies with the laid down requirement.

4. Trends in the success and drop out rates of students during the past two years

Not applicable to our department.

The subject taught by us is assessed as part of General Medicine. The details regarding the success rate of students is mentioned in the Medicine department report.

5. Learning resources of the departments - library, computers, LCD Projector and other resources

The department has well-equipped library with over 143 books and one computer is available in department. We have a Computerized ECT machine and Bio-feedback machine

6. Modern teaching methods practiced and use of ICT in teaching - learning

The teaching methods used in this department are:-

i) Interactive lectures

Lecture topics are chosen according to the prescribe syllabus. Lecturers are made interesting by interactive sessions, LCD Projectors and role playing. Lectures include topics on clinical psychiatry, psychology, psychiatric social work and consultation – liaison psychiatry.

ii) Bed side clinics

Students are taken to the Psychiatry ward in small groups for rounds and relevant clinical signs and symptoms are taught to them.

iii) Case Presentations

They are also allotted patients to take detailed history and examination and presented to the teaching staff. This is done with the aim of familiarizing students with common psychiatric conditions and their management. It also improves their communicative skills.

iv) Demonstration

Student in small groups are shown ECT procedures done for the patients in the department. Relaxation techniques like JPMR are also demonstrated.

7. Participation of teachers in academic and personal counseling of students

Students are encouraged to come to the department and express any difficulties with respect to their studies or personal life. Counseling sessions are provided when required.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Mr.Syam K.R.	Teacher as Communicator	24 th January 2013	Mangalore
2	Dr Caroline Dsouza.	Basic MET	7 th to 10 th October 2014	Mangalore

One of the department faculties also serves as a member of the “Medical Education Unit” which is responsible for conducting various faculty development programmes in the college.

In addition, all faculties regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 20 such programmes.

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All the faculties are actively involved in teaching UG and DNB trainees. All of them participate in research including industry sponsored research.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

The department in collaboration with General Medicine, Community Medicine, Nursing and Physiotherapy departments conducts seminars on Mental Health and awareness campaigns. The campaign includes poster presentation, Memory walk on World Alzheimer's Day.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority areas of research – Schizophrenia, Bipolar mood disorder, Depression.

Ongoing:

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	3
PG research projects	4
UG research projects	2

Last 3 years (2012-2014):

	2012	2013	2014
Completed funded research projects	2	0	0
Completed non-funded research projects	0	0	4
Completed PG research projects	2	2	2
Completed UG research projects	1	1	1
Publications	International	3	0
	National	2	10
Conference presentations	International	0	1
	National	0	4

The detailed outline of projects is given below:

Our ongoing funded research projects are:

Sl#	Title	Principal Investigator	Funding agency	Total amount received
	NA			

Our ongoing PhD research projects are:

Sl#	Title	Name of student	Guide
1	Determinants of the quality of life and burden among wives of HIV/AIDS infected Husbands	Ms.Mariella D'Souza	Dr.K.S. Latha
2	Association between sense of Coherence. Perceived social support and perceived stress among faculty members in dental institutions in Mangalore	Dr.Rajesh	Dr. Keshava Pai-co guide
3.	Microglial and astrocytes expression in Alzheimer's and possible therapeutic effect of N acetyl cysteine	Ms.Teresa Joy	Dr. Keshava Pai-co guide

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1	Sexual dysfunction in Male Alcoholic Dependant patients	Dr. Sneha Sharma	Dr. Keshava Pai
2	Intelligence quotient assessment in childhood cancer survivors	Dr. Tariq	Dr.Nuthan Kamath & co-guide Mr.Syam K.R..
3.	Influence of Psychosocial factors and para functional habits in temporomandibular disorders; A cross sectional Study.	Dr Utkarsh	Dr.Keshava Pai Co-Guide
4.	Prevalence and risk factors of postpartum depression in a tertiary hospital in Dakshina Kannada District.	Dr Manjushree	Dr.Keshava Co-Guide

Our ongoing UG research projects are:

Sl#	Title	Name of the student	Guide
1	Body shape preoccupation, self esteem in adults with High BMI	Ms. Lydia	Dr. Seemanthini. T.S
2	Stress, Gender consciousness and self-esteem in late adolescents and early adults with acne and hair fall – An exploratory study (2013 - 2014). (Submitted for Manipal University as a part of ICMR student research project)	Keerthana Thathvarthy	Dr. Seemanthini. T.S

Our completed funded projects (trials) are:**Year 2012**

Sl#	Title	Faculty Involved	Funding agency	Amount received
1.	A multicenter, randomized double blind parallel group placebo controlled phaseIII, efficacy and safety study of an investigational product as an adjunct to an antidepressant in patients with Major depressive disorder who exhibit an inadequate response to antidepressant therapy	Dr.Keshava Pai	Quintiles	2,25 lakhs
2.	A multicenter, randomized double blind parallel group placebo controlled phaseIII, efficacy and safety study of an investigational product in patients with schizophrenia	Dr.Supriya Hegde	Roche	5 lakh

Year 2013

Sl#	Title	Faculty Involved	Funding agency	Amount received
	NA			

Year 2014

Sl#	Title	Faculty Involved	Funding agency	Amount received
	NA			

Our completed non funded projects are:**Year 2014**

Sl#	Title	Faculty Involved
1	Effect of an intervention to enhance Sense of Coherence among young adults-A randomized study.	Dr.Keshava Pai
2	Association of psychosis and diabetes mellitus	Dr.Keshava Pai
3.	Adolescent anxiety disorder in school going children	Dr.Keshava Pai
4.	Effect of an intervention to enhance Sense of Coherence among young adults – A randomized study.	Dr.Keshava Pai

Our completed PG research projects are:**Year 2012**

Sl#	Title	Name of the student	Guide
1	Comorbid metabolic syndrome in patients with mood disorder	Dr Caroline P.D souza	Dr. Ravish Thunga
2	Study on post stroke depression	Dr. Pooja Rajashekaran	Dr. Keshava Pai

Year 2013

Sl#	Title	Name of the student	Guide
1.	Care giver burden in parents of children with Mental Retardation	Dr. Survesh Kumar L.H	Dr. Ravish Thunga
2.	Antidepressant & brief psychotherapy for depression in type II diabetes mellitus	Dr.Harshil Kumar Chauhan	Dr.Keshava Pai

Year 2014

Sl#	Title	Name of the student	Guide
1..	Assessment of Care giver burden in patients with schizophrenia	Dr. Rajkiran Donthu	Dr. Keshav Pai
2	Impact of Co-morbid depression on functional impairment in Dementia	Dr. P Soumya	Dr Keshav Pai

Our completed UG research projects are:**Year 2012**

Sl#	Title	Name of the student	Guide
1	Effects of non motor symptoms on quality of life in Parkinsons patients and disease burden on their care givers – Non Sectional study	Ms. Akansha	Ms Mariella Dsouza

Year 2013

Sl#	Title	Name of the student	Guide
1.	ICMR STP “ Depression in patients diagnosed with type 2 diabetes mellitus attending outpatient services of a teaching hospital.	Ms.Ekta Sikerwar	Dr Keshava Pai

Year 2014

Sl#	Title	Name of the student	Guide
1	Psychological correlates of stigma in caregivers of HIV infected individuals	Ms.Ruman Khan	Dr.Keshava Pai

The details of our Publications have been listed below.

Year 2012

National:

1. Supriya Hegde. Prevalance of depression and its associated factors using Beck depression inventory among students of a medical college in Karnataka; Indian Journal of Psychiatry 54(3) July-Sept.2012; 223-226
2. Seemanthini.T.S & Manjula. M.Y. (2012).Social life, Addictions and Subjective Wellbeing of the Transsexuals. Indian Journal of Applied research. 1(7)182-184.

International:

1. Ravish Thunga Association between bipolar affective disorder and thyroid dysfunction Asian Journal of Psychiatry 4 (2012) Vol AJP-333 Pg.4
2. Supriya Hegde. Association of quality of life with major depressive disorder among people with HIV in South India. Aids Care 2012; 1-4;
3. Supriya Hegde. Postpartum depression; Prevalence and associated factors among women in India; Journal of Womens Health Issues & Care -2012; 1:1; 1-7.

Year 2013

National:

1. **Pai Keshava K**& Nayak Sangeeta U. Stressing the stress in periodontal disease. Journal of pharmaceutical and biomedical sciences (J Pharm Biomed Sci.) 2013, January; 26(26): 345-348.
2. Hegde Shruthi S, **Pai Keshava K**, Abhishekh Hulegar& Sandeep K.R. Prevalence of antenatal depression and gender preference: A cross sectional study among Mangalore population, Karnataka, India. Journal of pharmaceutical and biomedical Sciences (J Pharm Biomed Sci.) 2013, May; 30(30): 1011-1014.

3. Poojarajashekar, **PaiKeshava K**, Ravish thunga, B. Unnikrishnan. Post stroke depression and lesion location: A hospital based cross sectional study: Indian J Psychiatry 2013 : 55(4):343-348.
4. **Pai Keshava K.**, Vishesh Sharma, Ms. MariellaD'souza: Somatisation of Symptoms in the Geriatric Population of Mangalore City (A Cross Sectional Study): NJIRM 2013; Vol. 4(5)Sept- Oct.
5. Sangeetha Umesh Nayak, Dr.Dilip G.Nayak; Dr.Ashitha S.Uppoor, **Keshava Pai**. Evaluation of cortisol levels in gingival crevicular fluid and saliva in anxious and non-anxious patients with chronic periodontics. Dental research journal jul 2013, vol 10,issue 4: pg 474-481.
6. Kumar, SP, Kumar Anup, Shenoy K, **D'souza M**, Kumar V K. Guided/ Graded Motor Imagery for Cancer pain: Exploring the Mind-Brain Inter-relationship-Indian Journal of Palliative Care 2013: 19(2) L 125-126.
7. Kumar S P, Prasad K, Shenoy, K, **D'Souza M**, Kumar, Vijaya K. Systematic Reviews on Palliative Sedation: What do They Tell Us? Indian Journal of Palliative Care 2013; 19(3): 198-199.
8. Kumar S P **D'Souza M**, Sosodia, Vaishali: Healthcare Professionals' Fear of Death and Dying. Implications for Palliative Care Indian Journal of Palliative care 2013;19(3) : 196-198.
9. P. Kumar Senthil, Prabha Adhikari, Ps Jeganathan, **Mariella D'souza**, C. D'souza Sydney, Z.K. Misri. Evaluation and Intervention of Quality of life in individuals with Diabetic Peripheral Neuropathy: A Quantitative Cross-sectional Content Analysis. Journal of Psychiatry.
10. Latha, Sahana M, **Mariella D'Souza**, Subbannayya K, Asha K. Factors related to Life satisfaction, Meaning of life, Religiosity and Death Anxiety in Health Care staff and students; A cross Sectional study from India. Online Journal of Health and Allied Sciences, Vol.12, Issue-2 Apr-June 2013 - Original Article – Indexed.

Year 2014**National:**

1. **Keshava Pai**, Donthu Raj Kiran, Soumya P.
Norfloxacin induced hallucinations in an alcohol-dependent patient; A case report from a tertiary hospital set up. IJP Vol 56, supplement-S71, Jan 2014.
2. Donthu Raj Kiran, Parameshwaram Soumya, KR shyam, **Pai Keshava**
Association of big five personality with perceived stress in medical postgraduates
A cross sectional study. IJP Vol 56, supplement-S68, Jan 2014.
3. Parameshwaram Soumya, Donthu Raj Kiran, **Pai Keshava**, Thunga Ravish :
Co-occurrence of depression in dementia in a tertiary care center; IJP Vol 56,
supplement-S76, Jan 2014.
4. Kumar S P, D'Souza M, Sosodia, Vaishali:
Interpersonal Communication Skills and Palliative Care "Find the story Behind the
story" Indian Journal of Palliative care. 20(1):62-64. 2014.
5. Seemanthini. T.S (2014) Onti Obbanti – A Kannada novel – reflects Transsexual's life
(Review) Shodha – Biannual Bilingual Research periodical, Ujire: Dr. HaMaNa
Research centre.

International**Year 2014:**

1. ParulKodan, Jayakumar Jeganathan, Seemanthini T.S and Sydney Dsouza.
Cognitive Impairment in Diabetes Mellitus - – A Review, International Journal of
Scientific Research Peripheral Neuropathy: A Quantitative Cross-sectional Content
Analysis. Journal of Psychiatry. Volume: 3 | Issue: 1 | January 2014 ISSN No 2277 -
8179 (Unsure of SCI indexed) Impact factor 1.8651.
2. ParulKodan, Jayakumar Jeganathan and Seemanthini T.S. (2014) Memory Impairment
in Young Type 2 Diabetes Mellitus Males: An Alarming Concern! Global Journal for
Research Analysis, 3 (6). pp. 172-173. June 2014 ISSN 2277 – 8160 (Unsure of SCI
indexed)
Impact factor 1. 5408.

The details of our conference presentations have been listed below.

Year 2013

National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Care givers burden in dementia	Dr.Keshava Pai and Dr.Ambica	National conference ANCIPS held at NIMHANS Bangalore on 10 th to 13 th January 2013.
2.	Atypical antipsychotics and metabolic syndrome	Dr.Keshava Pai and Dr.Harshil	National conference ANCIPS held at NIMHANS Bangalore on 10 th to 13 th January 2013.
3.	“A Comparative Study on the Marital Adjustment in HIV Positive and HIV Negative Wives of HIV Infected Husbands”	Ms.Mariella D’Souza	Presented at the XXXI Annual Conference of Indian Society for Professional Social Work, held from 3 rd to 5 th January, 2013 at Department of Psychiatry, Manipal University, Manipal, Karnataka.
4.	Media and Parenting, Life experiences, Sexuality issues of Street children	Seemanthini, T.S. & Shwetha, T.S (2013).	Presented at National seminar on Creating safety nets for adolescents and youth: Building counseling networks organized by Tata Institute of Social Sciences Counseling Centre, Mumbai, India. February 18 – 20.

Year 2013

International

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Mental health issues in Lesbian, Gay, Bisexual, and Transgenders in India, reaserch review	Seemanthini. T.S and Shwetha.T.S (2013).	Presented at Hawaii, U.S.A July 31st – August 4th. APA annual convention.

Year 2014

National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Gender Identity Issues And Sex Reassignment Surgeries in India – A 21st Century Controversy? –	Seemanthini. T.S & Manjula. M.Y	62 nd National Seminar 7th, 8th &9th February, 2014. Organised by Department of

	Presented at National Seminar on “Contextualizing Discourses on Gender Analysis and Mainstreaming”	(2014).	Social Work Sree Sankaracharya University of Sanskrit Regional Campus, Payyannur.
2	Gender issues and Psychotherapy A Critical Review	Seemanthini. T.S (2014).	40th National Annual Conference of The Indian Association Of Clinical Psychologists to be held at Tamil Nadu in February 27th to 2nd March 2014

12. Placement record of the past students and the contribution of the department to aid student placements

Most of our students are pursuing a career of their choice.

13. Plan of action of the department for the next five years

- To encourage new research and publication by faculty and residents in indexed journals.
- To conduct at least 2 national and international seminars/programmes every year.
- To improve teaching-learning and research activities among the faculty as well as the students.
- To have collaborative academic interactions with other departments in and outside the institutions.
- To enhance Faculty development:
 - i) Faculty will be encouraged to develop teaching portfolios which will serve as effective means of recognizing good teaching with the emphasis on demonstrating excellence.
 - ii) The faculty will also be trained in newer teaching-learning and evaluation methodologies so that they can easily adapt to changes in the curriculum.
 - iii) Every faculty to participate in at least 5 National conferences and 1 International conference over the next 5 years.

PULMONARY MEDICINE

1. Faculty profile - adequacy and competency of faculty

There are three teaching faculty members who meet the requirements for MBBS, training as per the requirements of the regulatory body. All faculty members are competent.

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Dr. Anand R	MD, DNB	Professor & Head	15
2	Dr. Ramesh Chandra Sahoo	MD	Professor & Unit Head-I	27
3	Dr. Vishak Acharya	MD	Associate Professor	14

Category	Sanctioned	Filled
Teaching staff	3	3
Senior resident	3	0
Junior resident	6	0

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by MCI and the department strictly complies with the laid down requirement. However, during delivery of the curriculum all faculty ensure that the advances in the field are covered.

4. Trends in the success and dropout rates of students during the past two years

Not applicable to our department.

Our department is not an “examination department”. The subject taught by us is assessed as a part of General Medicine. The details regarding the success rate of students is mentioned in the Medicine department’s report.

With respect to under-graduates we have not had any instance of a student dropping out from our course. We do not have any PGs and hence we do not have any drop outs.

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped library with over 80 books and one computer is available in department.

We have a state of art pulmonary function testing laboratory. It houses some of the latest equipment including FeNO.

There is a desktop with broadband internet connection. The entire faculty have been provided with laptops and they can access the net using Wi-Fi.

6. Modern teaching methods practiced and use of ICT in teaching - learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience in diagnosing and managing patients with respiratory illnesses as well as different settings including primary, secondary and tertiary levels. Specific stress is laid on Community Health. The graduate medical education in our department is based primarily on out-patient teaching, emergency departments and in-patients. During the postings the students are encouraged to look at the totality and not just a sum of parts. The students are taught to integrate various system findings and arrive at the diagnosis. While planning the management, aspects of health socio-economics and ethics are stressed upon.

Clinics are organised in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught

in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills. The department uses the facilities of a clinical skills lab to provide hands on training to students.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical or community cases and exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Bed-side clinics
- Seminars/Self-directed learning
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

7. Participation of teachers in academic and personal counseling of students

There is no formal participation by the faculty of the department. However, the faculty provides feedback to students on a continual basis during the clinics and seminars and counsel them when the need arises.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Although none of the faculty have attended faculty development programmes pertaining to teaching-learning and evaluation in the past two years all of them have undergone training regarding the same in the past. This training has covered various aspects of teaching-learning and evaluation.

One of the department faculty also serves as the convenor of the “Medical Education Unit” which is responsible for conducting various faculty development programme in the college. The faculty has played a key role in developing the course material for these programmes.

In addition, all faculty members regularly attend to various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 20 such programmes.

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research including industry sponsored research.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

No collaborations in the past two years.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Our priority areas for research are Asthma, COPD and Tuberculosis.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	0
Non-funded research projects	0
PhD research projects	0
UG research projects	3

Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		1	1	Nil
Completed non-funded research projects		1	Nil	Nil
Completed UG research projects		3	5	3
Publications	International	3	2	3
	National	2	8	11
Chapters in books		Nil	Nil	Nil

The detailed outline of projects is given below:

Our on- going funded research projects (clinical trials) are:

Sl#	Title	Principal Investigator	Funding agency	Total amount received
	Nil			

Our ongoing non-funded research projects are:

Sl#	Title	Faculty Involved
	Nil	

Our ongoing PhD research projects are:

Sl#	Title	Name of student	Name of the guide
1.	Nil		

Our ongoing UG research projects are:

Sl#	Title	Name of the student	Guide
1.	The Prevalence of Quadriceps Muscle Weakness among patients with Chronic Obstructive Pulmonary Disease (COPD) visiting a tertiary care hospital in South India. (ICMR-STs)	Mr. Sidharth Kharbanda	Dr. Anand R
2.	Correlation of pleural fluid CEA to cytology (ICMR-STs)	Ms. Astha Garg	Dr. R.C. Sahoo
3.	Risk profile & profile of patients with sleep apnea in a tertiary care centre in coastal Karnataka (ICMR-STs)	Ms. Sristi	Dr. Vishak Acharya

Our completed funded projects (trials) are:**Year 2012**

Sl#	Title	Faculty Involved	Funding agency	Amount received
1.	Phase 3 multi-centric, 52 week treatment, randomized, double dummy, parallel group efficacy study comparing the effect of inhaled IndacaterolVs inhaled Tiotropium on lung function, rate of exacerbations & related outcome in patients with COPD	Dr. R.C. Sahoo – P.I. Dr. Anand R Dr.Vishak Acharya K	Novartis	Rs. 1,44,500/-

Year 2013

Sl#	Title	Faculty Involved	Funding agency	Amount received
1.	Phase 3 multi-centric, 52 week treatment, randomized, double dummy, parallel group efficacy study comparing the effect of inhaled IndacaterolVs inhaled Tiotropium on lung function, rate of exacerbations & related outcome in patients with COPD	Dr. R.C. Sahoo – P.I. Dr. Anand R Dr.Vishak Acharya K	Novartis	Rs. 1,44,500/-

Year 2014

Sl#	Title	Faculty Involved	Funding agency	Amount received
1.		Nil		

Our completed non-funded projects are:**Year 2012**

Sl#	Title	Faculty Involved
1	Pharmacogenomics in bronchial asthma with salbutamol responsiveness	Dr. R C Sahoo

Our completed UG research projects are:**Year 2012**

Sl#	Title	Name of the student	Guide
1	Study of the attitude, belief and perceptions of the patients in inhaler use in bronchial asthma (ICMR-STs)	Ms.Deepthi Ravindran	Dr. Anand R
2	Association of Sinusitis in asthmatics by OMC Scan (ICMR-STs)	Mr. Santhosh Ullal	Dr. R.C. Sahoo

3	Study of pulmonary function parameters in patients with diabetes mellitus in a tertiary care center (ICMR-STs)	Ms. Monalisa D Souza	Dr. Preetham Acharya
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Year 2013

Sl#	Title	Name of the student	Guide
1.	OMC Scan in Chronic Asthma patients (ICMR-STs)	Mr. Santhosh	Dr. R.C. Sahoo
2.	Correlation of pleural fluid c&A to cytology (ICMR-STs)	Ms. Astha Garg	Dr. R.C. Sahoo
3.	Respiratory morbidity and impairment among oil refinery workers in South India: a case control study (ICMR-STs)	Ms. Tanvi Das	Dr. Anand R
4.	Comorbidities and their association with severity of COPD among hospitalized patients in tertiary care centre. (ICMR-STs)	Mr. Venkat Sai Sridhar	Dr. Vishak Acharya K
5.	Comparative study assessing the knowledge and attitude regarding tuberculosis amongst final year medical and nursing students in a medical college teaching hospital. (ICMR-STs)	Ms. Monalisa D Souza	Dr. Acharya Preetam R

Year 2014

Sl#	Title	Name of the student	Guide
1.	The Prevalence of Quadriceps Muscle Weakness among patients with Chronic Obstructive Pulmonary Disease (COPD) visiting a tertiary care hospital in South India.	Mr. Sidharth Kharbanda	Dr. Anand R
2.	Correlation of pleural fluid CEA to cytology	Ms. Astha Garg	Dr. R.C. Sahoo
3.	Risk profile & profile of patients with sleep apnea in a tertiary care centre in coastal Karnataka	Ms. Sristi	Dr. Vishak Acharya

The details of our publications are:

Year 2012

International:

1. Prem V, Sahoo RC, Adhikari P

Effect of diaphragmatic breathing exercise on quality of life in subjects with asthma: A systematic review.

Physiother Theory Pract. 2013 May;29(4):271-7

2. Purnima B, Gopala K A, Vaishali, Shyam K, Zulfeequer, Vishak A K

Functional Balance in Chronic Obstructive Pulmonary Disease: A case control study
International Journal of Health Sciences and Research. 2012; 2; (3): 61-66.

3. Sahoo R C, VenkatesanP, PrabhaA.

Comparison of the effects of Buteyko and prana-yama breathing techniques on quality of life in patients with asthma-a randomized controlled trial.

Clinical Rehabilitation Journal. 2012; 1: 9:

National:

1. Dr. Vishak Acharya K.

Hematological changes in Tuberculosis; Current Medical Journal of India,
Review article Non indexed Vol. XVIII No.5 August 2012

2. Dr. Preetam Acharya

Blunt Trauma to the Chest – A case of delayed cardiac rupture ; Journal of Forensic and Legal Medicine; July 19 2012 46-47 ; Indexed in •EMBASE •MEDLINE®
Scopus

Year 2013

International:

1. Gopala Krishna Alaparathi, Alfred Joseph Augustine, Anand R, Ajith Mahale
Comparison of flow and volume oriented Incentive spirometry on lung function and Diaphragm movement after laparoscopic Abdominal surgery: a randomized clinical Pilot trial Int J Physiother Res 2013, Vol1(5):274-78 Original article Indexed
2. Abdul Vahab Saadi, Himanshu Gupta, Arshia Angural, Sreeja Kumari, Sridevi Mony, Deves Oberoi, Sydney D Souza, Ramesh Chandra Sahoo, Manjunath Hande, Puthiya Mandyat Gopinath, Kapaettu Sathyamoorthy
Single nucleotide polymorphisms of ADRB2 and their association with susceptibility for Plasmodium falciparum malaria and asthma in an Indian Population
Journal of Molecular Epidemiology and Evolutionary genetics in Infection Diseases Elsevier 20(2013) 140-147; Infection, Genetics, and Evolution Review article indexed

National:

1. U B Nayak, V K Acharya, H Jain, S Lenka
Clinical Assessment of the autonomic nervous system in diabetes mellitus and its correlation with glycaemic control. Indian J Med Sci 2013; 67:13-22 Original article Indexed
2. UB Nayak; NV Marakhia; VK Acharya, L Srinivas
A study of fraction of exhaled nitric oxide levels as a diagnostic marker in patients with bronchial asthma. JIACM. 2013; 14(2): 123-7. Original article indexed
3. Alam K. Navaz, Madhusudan P. Raikar, Vishak A, Sanmath K. Shetty
Pleural effusion: An unusual cause and association Lung India 2013; Vol 30, 2:156-8
Case report
4. Tanuj Kanchan, Deepak Madi, Unnikrishnan, Nithin Kumar, Ramesh Holla, Preetam R Acharya
Dettol Poisoning International Journal of AJ Institute of Medical Sciences 2 (2013) 77-81
Review Article
5. Vishak Acharya K. What is your diagnosis? Chest Clinics
Current Medical Journal of India Vol XIX No.7, October 2013, 27. Pictorial CME
Non indexed
6. Vishak Acharya K. Diet and asthma
Current medical Journal of India vol. XIX No.2, May 2013, 47-52.
Review article Non indexed
7. Vishak Acharya K. What is your diagnosis? Chest Clinics
Current Medical Journal of India Vol XIX No.1 April 2013, 38Pictorial CME Non indexed

8. Vishak Acharya K. What is your diagnosis? Chest Clinics
Current Medical Journal of India .Vol XIX No 3. June 2013, 18 Pictorial CME Non indexed

Year 2014

International

1. Abraham M. Joshua, B. Unnikrishnan, Vivian D' Souza, Prasanna Mithra, Asha Kamath, Vishak Acharya
Fall Related Self-efficacy among Elderly: A Comparison of Resistance Training with Balance Exercise International Neuropsychiatric Disease Journal 01/2014; 2(5):234-243. Original Article Indexed
2. Santosh P V Rai, Preetham Acharya, Rameshchandra Sahoo, Hema Kini, Sharada Rai, Maryann Boke
Giant posterior mediastinal liposarcoma presenting as dysphagia: A clinico-radiopathologic correlation Oncology; Gastroenterology and Hepatology Reports. Vol 3, Issue 2, Jul-Dec Original Article Indexed
3. Santosh PV Rai, Vishak Acharya, Chakrapani
Feasibility of Computed Tomography Angiography as an Essential Prerequisite Tool in Cases of Massive Hemoptysis Requiring Embolization in a Tuberculosis Prevalent South Indian Population:
Case Series West African Journal of Radiology. Vol. 21, Issue 2, July-December 2014 Original Article Indexed

National:

1. Abraham M. J, Vivian D , B. Unnikrishnan B, Prasanna M, Asha K, Vishak A, Anand V.
Effectiveness of Progressive Resistance Strength Training Versus Traditional Balance Exercise in Improving Balance Among the Elderly - A Randomised Controlled Trial. Journal of Clinical and Diagnostic Research. 2014 Mar, Vol-8(3): 98-102. Original Article Indexed

2. Raksha Thakrar, Gopala Krishna Alaparathi, Shyam Krishnan Krishna Kumar, K. Vaishali, C. P. Zulfeequer, R. Anand Awareness in patients with COPD about the disease and pulmonary rehabilitation:
A survey Lung India • Vol 31 • Issue 2 • Apr - Jun 2014 Pg 134-138
3. Sandeep Satsangi, Vishak Acharya, Hema Kini, Anupama KV
An unusual cause of lung mass in a young female- Case report
Lung India • Vol 31 • Issue 2 • Apr - Jun 2014 Pg 188-190
4. K. A. Vishak, A. P. Yogitha, A. P. Preetam, R. Anand, U. B. Naik.
A rare case of calcified pulmonary aspergilloma-Case report
Lung India. 2014; 31 (1): 79-81
5. Vishak Acharya K ; What is the Diagnosis? Chest clinics
Current Medical Journal of India, Vol XIX No.11 February 2014;28-28
6. Vishak K Acharya, Mahesha Padyana, Unnikrishnan B, Anand R, Preethm R Acharya, Divya Jyoti Juneja Profile and Drug Sensitivity Pattern among Community Acquired Pneumonia Patients in Tertiary Care Centre in Mangalore, Coastal Karnataka, India
Journal of Clinical and Diagnostic Research. 2014 Jun, Vol-8(6): 4-6.
7. Vishak Acharya What is the Diagnosis - Chest Clinics
Current Medical Journal of India, Vol XXNo.04, July 2014 CHEST CLINICS p:30-30
8. Vishak Acharya K ; Lung Abscess
Current Medical Journal of India; Vol XX No.6. September 2014
9. Preetam R Acharya, R Anand, Vishak K Acharya, Ramesh Chandra Sahoo
PUO - A Rare (And Forgotten) Cause!
Journal of the association of physicians of India • Vol. 62 • 66-8. October 2014
10. Preetam Acharya, Anand Ramakrishna, Tanuj Kanchan, and Rahul Magazine
Dual Primary Malignancy: A Rare Organ Combination

Hindawi Publishing Corporation Case Reports in Pulmonology Volume 2014, Article ID 760631, 3 pages <http://dx.doi.org/10.1155/2014/760631> Case Report

11. Prof. R.C. Sahoo ; Dyspnea ;

Current Medical Journal of India; Vol XX No.8, November 2014 Review Article Non indexed

The details of chapters in books published by our faculty are given below:

Year 2014

Sl #	Name of the chapter	Title of the book	Name of the faculty	Publisher
Nil				

12. Placement record of the past students and the contribution of the department to aid student placements

Most of our students are pursuing a career of their choice. They have either joined a post-graduate course in our country or have gone abroad for further studies. Some of them start their practice immediately after graduation. Fe of them have gone into research and health administration.

13. Plan of action of the department for the next five years

A. Curriculum:

- i. Building on the current foundation, develop a comprehensive Curriculum Implementation Plan with new emphasis on modern methods of teaching like problem based learning.
- ii. Optimize the availability and utilization of resources to support student learning (e.g. technology, space), individualized achievement of learning goals and effective teaching to actively improve the success rates in the examination.
- iii. Take feedback from the stakeholders and alumni to try and identify areas that need to be strengthened.
- iv. Constantly monitor and if necessary design new assessments to evaluate the effectiveness of the teaching programme.
- v. Enhance objective evaluation systems for graduate student outcomes assessment.
- vi. Explore the possibility of using “Simulated Patients” for clinical teaching.

B. New initiatives in education:

- i. Start a post-graduate (MD) programme.
- ii. Conduct a greater number of continuing medical education programmes including at least one national and regional conference by 2017.
- iii. Develop CME course offerings online that would be available to all faculty, alumni and the local healthcare community.
- iv. Explore the possibilities of starting inter-disciplinary programmes.
- v. Develop interdisciplinary seminar series.

C. Research:

- i. Augment the research activities leading to the publications, thus enhancing the number of publications by at least 50% over the next 5 years.
- ii. Develop at least one project over the next two years which will receive an external grant and thereafter one every year (total of 4 over the next 5 years).
- iii. Participate in at least 1 inter-departmental research project every year.
- iv. Increase our participation in clinical trials by at least 40% over the next 5 years.

D. Faculty development:

- i. Faculty will be encouraged to develop teaching portfolios which will serve as effective means of recognizing good teaching with the emphasis on demonstrating excellence.
- ii. The faculty will also be trained in newer teaching-learning and evaluation methodologies so that they can easily adapt to changes in the curriculum.
- iii. Every faculty to participate in at least 5 national conferences and 1 international conference over the next 5 years.

E. Patient care

- i. Start a 'sleep lab'
- ii. Enhance facilities for interventional pulmonology
- iii. Continue to keep improving on the infrastructure in our PFT lab to ensure that it remains "state of the art".

DERMATOLOGY, VENEREOLOGY & LEPROSY

1. Faculty profile - adequacy and competency of faculty

There are five teaching faculty members who meet the requirements for MBBS, and also for postgraduate training as per the requirements of the regulatory body. All faculty members are competent.

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr.Pramod Kumar	MD	Professor & Head	21
2.	Dr.Maria Kuruvila	MD, DVD	Professor	23
3.	Dr.Gatha M.Upadya	MD	Addl.Prof.	21
4.	Dr.Kashinath Nayak	MD	Asst.Prof.	07
5.	Dr. Surekha M.S	DDVL	Senior Resident	< 02
6.	Dr.Sudarshan R	MBBS	Junior Resident	02
7.	Dr. Pratik Thacker	MBBS	Junior Resident	01
8.	Dr. Pavithra G	MBBS	Junior Resident	< 01

Category	Category	Category	Sanctioned (as per MCI)
	Teaching staff	3	4
	Senior resident	3	1
	Junior residents	4	3

2.Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

Department complies with MCI laid down course and syllabus.

4. Trends in the success and drop out rates of students during the past two years

Course	Pass Percentage		Dropout Rate	
	2013	2014	2013	2014
MD	100	100	0	0
DDVL			0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped library with over 139 books and two computers are available in the department.

We have a functioning lab within the OPD.

Department also has state of art equipment, like Alma Laser, Daavlin phototherapy chamber, ConmedHyfrecator, Radiofrequency cautery machine, Cryotherapy equipment, patch testing facility. In addition department also has audio visual facility for academics.

9. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving. The department firmly believes that lectures alone are generally not adequate as a method of training and are a poor means of transferring/acquiring information and even less effective at skill development and in generating the appropriate attitudes. However, as these cannot be done away with lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasised upon. Every effort is made to encourage the use of active methods related to demonstration and on first-hand experience. Students are encouraged to learn in small groups, through peer interactions so as to gain maximal experience through contacts with patients and the communities in which they live. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a medical graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience in diagnosing and managing patients with respiratory illnesses as well as different settings including primary, secondary and tertiary levels. Specific stress is laid on Community Health. The graduate medical education in our department is based primarily on out-patient teaching, emergency departments and in-patients. During the postings the students are encouraged to look at the totality and not just a sum of parts. The students are taught to integrate various system findings and arrive at the diagnosis. While planning the management, aspects of health socioeconomics and ethics are stressed upon.

Clinics are organised in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught

in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills.

Efforts are being made to encourage integrated teaching between traditional subject areas using a problem based learning approach starting with clinical or community cases and exploring the relevance of various preclinical disciplines in both understanding and resolution of the problem. Attempts are being made to de-emphasize compartmentalisation of disciplines so as to achieve both horizontal and vertical integration in different phases.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Bed-side clinics/OPD short case discussions
- Seminars
- Demonstrations

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

There are 3 phases of learning during these activities: pre, during the event and post. The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

Modern Audio visual Aids used for teaching.LCD projector available in the department.For Postgraduates, Journal club discussions, evidence based diagnosis through E-learning, broadband internet and Wi-Ficonnection available for all faculty and Postgraduate students for real time references. Department is equipped with facility for storing clinical pictures in digital form.Hands on training in use of modern dermatological equipment.

Postgraduate students attend an orientation programme and workshop on dissertation writing, ethics committee and statistics at the beginning of the course.

10. Participation of teachers in academic and personal counseling of students

No direct formal participation of department level. Only feedback in attendance and performance provided to college office.

11. Details of faculty development programmes and teachers who have been benefited during the past two years

Dr.Kashinath Nayak and Dr.Surekha in 2013-14 have undergone training in faculty development workshop conducted by medical education department of the institute. The workshop is for three days and includes training in teaching and learning and student evaluation using modern methodology. All the senior staff had attended the said programmes earlier. All the staff attend at least one conference/CME/seminar etc. every year.

12. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All faculty members take an active part in teaching undergraduate and postgraduates and also in research.

13. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.

Year 2014

Sl#	Title	Principal Investigator	Funding agency	Total amount received
1.	Ref:Protocol ID: TRET-CLIN/DRL/2013, “A Phase 3, Multicentre, Three Arm Randomised, double blind, active controlled, parallel study to evaluate the efficacy and safety of Tretinoin (Microsphere) 0.04% and Clindamycin 1% combination Gel in Comparison to Tretinoin 0.25% Gel and Clindamycin 1% gel in the treatment of Acne Vulgaris”	Dr.Maria Kuruvila	Dr.Reddy’s	

14. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Priority areas for Research

1. Metabolic syndrome and association with dermatological conditions.
2. Vitiligo- Pigmentary regeneration.
3. MRSA in cutaneous infections.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
PG research projects	2
Funded research projects	1

Last 2 years (2013-2014):

		2013	2014
Completed funded research projects		0	0
Completed PG research projects		1	1
Completed UG research projects		1	2
Publications	International	0	4
	National	1	6
Conference presentations	International	0	0
	National	2	0

Our ongoing PG research projects are:

Sl#	Title	Name of the student	Guide
1.	Near infra-red pulses light for permanent hair reduction.	Dr.Pratik Thacker	Dr.Pramod Kumar
2.	Comparitive study between lowglycemic load diet with topical Bpo 2.5% and topical bpo 2.5% with normal diet in grade 1.2 and 3 acne vulgaris.	Dr.Pavithra G	Dr.Gatha M Upadya

Our ongoing research projects are:

Year 2014

Sl#	Title	Principal Investigator	Funding agency	Total amount received
2.	Ref:Protocol ID: TRET-CLIN/DRL/2013, "A Phase 3, Multicentre, Three Arm Randomised, double blind, active controlled, parallel study	Dr.Maria Kuruvila	Dr.Reddy's	

	to evaluate the efficacy and safety of Tretinoin (Microsphere) 0.04% and Clindamycin 1% combination Gel in Comparison to Tretinoin 0.25% Gel and Clindamycin 1% gel in the treatment of Acne Vulgaris”			
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Our completed PG research projects are:

Year 2013

SI#	Title	Name of the student	Guide
1	Metabolic syndrome in Androgenic alopecia	Dr.Hima Gopinath	Dr.Gatha M Upadya

Year 2014

SI#	Title	Name of the student	Guide
1.	The Mucocutaneous manifestations following chemotherapy in Paediatric malignancies	Dr.Sudarshan R	Dr. Maria Kuruvila

Our completed UG research projects are:

Year 2013

SI#	Title	Name of the student	Guide
1.	Spectrum of deformity in leprosy patients visiting Tertiary hospital in Mangalore	Miss Radhika Sathish	Dr.Kashinath Nayak

Year 2014

SI#	Title	Name of the student	Guide
1.	Epidemiology of leprosy in Mangalore : A retrospective data analysis of leprosy cases from January 2000 to March 2013	Mr. Abhinav	Dr. Pramod Kumar
2.	“Proportion of dermatoses in hospitalised neonates	Miss Pooja K.H	Dr.Maria Kuruvila

The details of our publications have been listed below.

Year 2013

PAPERS PUBLISHED IN NATIONAL JOURNALS

Sl. No	Name of the Author(s)	Title of the Article	Type of the article (Original paper/Short communication, letter to the editor, review article etc.)	Name of the Journal, year of publication, volume number and page number	Indexed/ Non-indexed (Indexing Details if indexed)	Whether SCI indexed Yes/No AND Impact factor of the journal
1.	Pratap DV, Philip M, Rao NT, Jerajani HR, Kumar SA, Kuruvila M	et al Evaluation of efficacy, safety and tolerability of fixed dose combination(FDC) of halometasone 0.05% and fusidic acid 2% w/w topical cream versus FDC of betamethasone valerate 0.12% and neomycin sulphate 0.5% w/w topical cream in the treatment of infected eczematous dermatosis in Indian subjects: A randomized open label comparative phase III multi centric trial. Indian J.Dermatol 2013; 58(2):117-23.	Original paper	Indian J.Dermato 1 2013; 58(2):117-23.	Indexed	0.573

Year 2014

PAPERS PUBLISHED IN NATIONAL JOURNALS

Sl. No	Name of the Author(s)	Title of the Article	Type of the article (Original paper/Short communication, letter to	Name of the Journal, year of publication, volume number and page number	Indexed/ Non-indexed (Indexing Details if indexed)	Whether SCI indexed Yes/No AND Impact
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			the editor, review article etc.)			factor of the journal
1.	Kondreddy B, Kuruvila M, Ullal KR, Bhat K,	Cutaneous manifestations in HIV positive paediatric patients	Original article	NJDVKL 2014: 12(1):14- 19.	indexed	
2.	Dr.Gatha M.Upadya	Clinical pattern and common contact sensitizers in contact dermatitis	Research paper	Indian Journal of applied research, April, 2014:4:9- 10.	Indexed in Internati onal ISSN director y, Paris	
3.	Neema Mohammed Ali. Maria Kuruvila, Bhaskaran Unnikrishnan.	Psoriasis and metabolic syndrome:A case control study.	letter to the editor	Indian journal of Dermatolog y Venereolog y & leprology May-June, 2014.	indexed	1.325
4.	Dinesha, Mahesha Padyana, Kashinath Nayak, M Nirupama, D Shivanand Pai	Castleman's disease with paraneoplastic pemphigus.	Case report	Indian journal of dermatolog y, July, 2014: 59(4) 421.	indexed	
5.	P. Kumar and R. Paulose	Patch Testing in Suspected Allergic Contact Dermatitis to Cosmetics.	Clinical study	Dermatolog y Research and practice Sept 2014:1-5.	indexed	

6.	J. K. Veni Emilda, Shalini M.Shenoy,M. Chakrapani, Pramod Kumar,K. Gopalkrishna Bhat	Clinical spectrum and antimicrobial resistance pattern of skin and soft tissue infections caused by community acquired-methicillin resistant Staphylococcus aureus	Letter to the editor	Indian Journal of Dermatolog y, Venereolog y, and Leprology November- December 2014 :80:6	indexed	1.325
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PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:

Sl. No	Name of the Author(s)	Title of the Article	Type of the article (Original paper/Short communication, letter to the editor, review article etc.)	Name of the Journal, year of publication, volume number and page number	Indexed/ Non-indexed (Indexing Details if indexed)	Whether SCI indexed Yes/No AND Impact factor of the journal
1.	Jyoti Ramnath Kini, Ancy Susan John, Hema Kini, Flora Dorothy Lobo, Pramod Kumar, Krishna Prasad.	Subcutaneous Panniculitis- like T-cell lymphoma: report of two cases,	Case report	Our Dermatol Online. May, 2014; 5(3): 267- 270.	indexed	
2.	Kumar Nishant, Pramod Kumar	Patch testing to detect Dermatitis and Allergies to plants; International Journal	Research article	International Journal of Advanced Research June, 2014; 2(6): 904- 906.	Indexed ISSN 2320- 5407	1.659
3.	Sudarshan R, Maria Kuruvila, Kamalakshi Bhat,	Chemotherapy induced alopecia (CIA) among children treated for acute Lymphoblastic	letter to the editor	International journal of Trichology, July-Sept, 2014:6(3):30	indexed	

		Leukemia.A clinico- epidemiological study.				
4.	TV Anoop, Kashinath Nayak, S.Sacchidanand, H.V Nataraja, H.Chandrasheka r	A study of psychological aspects of patients undergoing hair transplantation for androgenetic alopecia	Research article	International Journal of Recent Trends in science and technology, Nov2014:13(1):148-150.	Indexed ISSN 2277- 2812	

The details of our Conference presentations have been listed below.

Year 2013

National

Sl#	Title of the Presentation	Name of the Faculty	Details of Conference
1	“Clinicopathological study of Pityriasis rosea”, Dr.Gatha M.Upadya presented the poster	Dr.Gatha.M.Upadya	Dermacon-2013 From 24 th to 27 th January, 2013 at Ahmedabad
2	Unusual cutaneous manifestations in HIV-“A case series” Dr.Kashinath Nayak presented the E. paper presentation	Dr.Kashinath Nayak	Dermacon-2013 From 24 th to 27 th January, 2013 at Ahmedabad

Year 2014- Nil

12. Placement record of the past students and the contribution of the department to aid student placements

Postgraduates who have passed from the department have been suitably employed either in medical colleges as teaching faculty or as consultants in cosmetic dermatology establishment/clinics. Many are pursuing their own private practice successfully.

13. Plan of action of the department for the next five years

1. As per the universities plans and targets the department of dermatology also plans academic programmes, modernization of teaching and learning and encourages research in current and future trends in management of clinical conditions.

2. The department also has plans to procure new technology and upgrade available equipment to meet the ever growing field of dermatology and cosmetic dermatology.
3. Proposal to develop a comprehensive curriculum and its implementation in association with the Universities board of studies.
4. To increase the number of CME/workshops/training programmes. Develop the department to provide fixed duration short courses for dermatologists in fields like contact dermatitis, phototherapy by 2017.
5. Every faculty is encouraged to attend atleast one conference, workshop, seminar per year and one international conference every three years

RADIODIAGNOSIS & IMAGING

1. Faculty profile - adequacy and competency of faculty

There are fourteen teaching faculty members who meet the requirements for MBBS and the postgraduate training as per the requirements of the regulatory body.

All faculty members are competent.

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Dr. Ashvini Kumar	MD	Professor & HOD	19
2	Dr. Ajit Mahale	MD	Professor	22
3	Dr. Prashanth Kumar	DMRD, DNB	Professor	24
4.	Dr. Anand Venugopal	MD	Professor	19
5.	Dr. VinayaPoornima	MD	Assoc. Prof.	16
6.	Dr. Sonali Ullal	MD	Assoc. Prof.	16
7.	Dr. Santosh Rai	MD, DNB, FRCR(UK)	Assoc. Prof.	16
8.	Dr. Keerthiraj B	MD, DNB, DM(Neuro Radiology)	Asst. Prof.	10
9.	Dr. Chanabasappa V. Chavadi	DMRD, DNB	Asst. Prof.	10
10.	Dr. Merwyn Fernandes	DMRD, DNB	Asst. Prof.	10
11.	Dr. Suprasanna	DO, MD	Asst. Prof.	9
12.	Dr. Pallavi Rao	DNB	Asst. Prof.	7
13.	Dr. Sonali D Prabhu	MD	Asst. Prof.	7
14.	Dr. Mithun Sekhar	MD	Sr. Resident	<01
15.	Dr. Denis Thomas	DNB	Sr. Resident	<01
16.	Dr. Ravi Kumar	MD	Sr. Resident	<01

Category	Sanctioned	Filled
Teaching staff	7	13
Senior resident	9	3

2. Student profile – entry level competencies, socioeconomic status, language Proficiency etc,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The department adheres to the curriculum as laid down by the regulatory bodies (MCI and National Board of Examination).

4. Trends in the success and dropout rates of students during the past two years:---

Course	Pass Percentage					Dropout Rate			2013	2014
	2009 - 2010	2010 -2011	2011 -2012	2013	2014	2009 - 2010	2010 -2011	2011 -2012		
MD	-	-	-	100	100	-	-	-	-	-
DNB	100	0	50%	100	-	-	-	-	-	-

5. Learning resources of the departments - library, computers, laboratories and other resources

Adequate learning resources available for post graduates training as can be made out from the numbers below:

- ✓ Total no of books available in central Library–681-Radiology books
- ✓ Total no of books available in the Department – 180-Radiology department
- ✓ Total Number of DVD’s available- 18 - Radiology
- ✓ Total computers available -07-Radiology

We have state of the art equipment for patient care and teaching purposes.

	MAMMOGRAPHY	X-RAY	FLUOROSCOPY	USG	CATHLAB	CT	MRI
K.M.C.H. Hospital, Attavar		03	02	03		01	01
K.M.C.H. Hospital, Ambedkar Circle	01	02	01	05	01	01	01
Govt Wenlock Hospital,		05		02		01	
Lady Goschen Hospital,		03		01			
RAPCC				01			

6. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching-learning methods used are:

1. Interactive lectures

2. Small group teaching
 - a) Practicals with demonstration of Radiological procedures
 - b) Seminars
 - c) Group discussions
3. Projects
4. E-learning modules

The institution has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- i. Assignments (either individual or group)
- ii. Case presentations
- iii. Clinical society meetings
- iv. Conference presentations
- v. Journal clubs
- vi. Poster presentations
- vii. Projects including research
- viii. Seminars

The student collects the matter, designs the execution, prepares the presentation and submits/ presents to the departments which are then evaluated by teachers.

The students are given feedback on these aspects by identifying the lacunae and are guided to improve in the next activity. The students are also encouraged to develop skills in their area of interest.

Power point presentation with LCD is used for teaching programme.

7. Participation of teachers in academic and personal counseling of students

The faculty take an active part in various academic activities which have been listed below.

The PG teaching programme is as follows:

Monday	-	8-9am	-	Interdepartmental meet
Tuesday	-	8.30 to 9.30am-		Film reading session
Wednesday	-	8.30am	-	Mortality meeting last Wednesday of the month
Thursday	-	8-30-9am	-	Seminar
Friday	-	8.30-9am	-	Seminar, Clinical meeting society 1st Fri of the month
Saturday	-	8.30-9am	-	Journal Club

Dr.Sonali Ullal Assoc. Prof.is involved in student orientation programme and Medical Education Unit activities.

Dr. Anand Venugopal Professor is Sports Advisor

Dr. Santosh Rai is Associate Alumni Director.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Dr. Sonali Ullal, Assoc.Prof., Member of Medical Education Unit is actively involved in

1. Basic M.E.T (teaching-learning) workshops since
2. ACME- Hands on workshop on competency, based curriculum
3. “Problem Based Learning”

Dr. Suprasanna

1. Basic MET course-Mangalore
2. Basic Course Workshop-Kozhikode-Kerala
3. “Integrated teaching: what. Why, & How”

Dr. Vinaya Poornima has done the basic MET course

Dr. Ajit Mahale has done the workshop “Effective use of power point”

Dr. Santosh Rai

1. Internal Auditor Course on Environmental Management System (ISO 14001:2004)
2. “Effective use of power point”
3. “Persuasive Communication” Workshop
4. “Integrated teaching: what. Why, & How”

Sl#	Name of the faculty	Title of the workshop	Date (s)	Venue
1	Dr. Sonali Ullal,	Basic MET	9 th to 13 th October 2012(5days)	KMC, Medical Education hall, Mangalore
2	Dr. Suprasanna	Basic MET	1 st to 3 rd September 2011	Calicut Medical college
3.	Dr. Suprasanna	Basic MET	9 th to 13 th October 2012	KMC, Medical Education hall, Mangalore
4	Dr. Vinaya Poornima	Basic MET	19 th to 24 th September 2013	KMC, Medical Education hall, Mangalore
5	Dr. Ajit Mahale	workshop “Effective Use of	20 th December 2013	KMC, Medical Education hall, Mangalore

		Power Point”		
6	Dr. Santosh Rai	Internal Auditor Course on Environmental Management System (ISO 14001:2004)	8 th & 9 th August 2013	Mangalore – India (TUV Rheinland (India) Pvt.Ltd.
7	Dr. Santosh Rai	workshop “Effective Use of Power Point”	3 rd January 2014	KMC, Medical Education hall, Mangalore
8	Dr. Santosh Rai	Workshop “Persuasive Communication”	28 th & 29 th November 2014	Manipa Centre for Professional and Personal Development(MCPD)
9	Dr. Santosh Rai	Workshop on “Integrated teaching: what. Why, & How”	4 th December 2014	KMC, Medical Education hall, Mangalore
10	Dr. Suprasanna	Workshop on “Integrated teaching: what. Why, & How”	4 th December 2014	KMC, Medical Education hall, Mangalore
11	Dr. Sonali Ullal	“Problem Based Learning”	8 th May 2014	KMC, Medical Education hall, Mangalore
12				

5. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

Dr.Santhosh Rai Assoc.Prof.is involved in FRCR (UK) Consultancy & teaching programme.

6. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

Dr. MerwynFernandes& Dr. Anand Venugopal have collaborated with NITK Surathkal for research in MRI evaluation of Hippo Campal volume.

Our Interdepartmental PG research projects are:

Sl#	Title	Name of student	Guide
1	Radiological Changes Of Cervical Vertebrae In Cervical Spondylosis –	Dr. Anup Rao K, MDinDepartment of Anatomy KMC, Mangalore-2009-2012	Dr. Ajit Mahale
2	Ultrasonographic Assessment of lower Limb Enthesopathy In Psoriatic Patients	Dr. SakshiMidha, MD in Skin &V.D. 2009- 2012	Dr. Ajit Mahale

3	Comparison Of Diaphragmatic Breathing Exercise, Volume And Flow Incentive Spirometry On Diaphragm Excursion And Pulmonary Function In Patients Undergoing Laparoscopic Surgery– A Randomized Controlled Trial	GopalakrishnaAlaparathi, Asst. Professor department of Physiotherapy, K.M.C. Mangalore -	Dr. Ajit Mahale
4.	Reliability and Validity of Movement Control Tests for Lumbar Spine: Comparison of Low Back Pain and Healthy Individuals A Case of Control Study”	Gauri A Gondhalekar PG in Department of Physiotherapy, Kasturba Medical college, Mangalore.	Dr. Ajit Mahale

7. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years-

The priority areas for research are Radiology related topics involving utilization of CT MRI & USG in various systems to evaluate disease processes. The department is involved in inter-departmental research. The details are listed below.

Ongoing:

Category	Number
PG research projects	09
UG research projects	01

Last 3 years (2010-2012):

		2010	2011	2012
Completed funded research projects		Nil	Nil	Nil
Completed PG research projects		02	02	02
Completed UG research projects		01	Nil	Nil
Publications	International	Nil	05	09
	National	03	03	02
Books		Nil	Nil	Nil
Chapters in books		01	Nil	Nil
Conference presentations	International	05	05	Nil
	National	07	10	06

Our ongoing PG research projects are:

Sl#	Title	Name of student	Guide
1	Role of ultrasonography and pulse doppler of small joints of hands & feet in inflammatory polyarthritis	Dr. Priyanka	Dr. Ashvini Kumar
2	Role of 3DCISS MRI imaging sequence in evaluation of cranial nerve lesions in comparison with other MRI imaging sequence	Dr. Anees	Dr. Vinaya Poornima

3	Thesis Topic; CT Urography In The Evaluation Of Hematuria	Dr. Devika	Dr. Sonali Ullal
4	Role Of Diffusion Weighted Imaging And Susceptibility Weighted Imaging In Acute Stroke	Dr. Pulastya	Dr. Santosh Rai
5	Accuracy of post contrast fluid attenuated inversion recovery (FLAIR) MR in imaging of intracranial pathology	Dr. Shaloo	Dr. Ajit Mahale
6	HRCT of temporal bone in patients with hearing loss	Dr. Gudi Harish	Dr. Ashvini Kumar
7	Role of diffusion weighted magnetic resonance imaging in evaluation of pelvic masses	Dr. Hitakshi Sharma	Dr. Sonali Ullal
8	Utility of magnetic resonance spectroscopy, perfusion studies in characterisation of intracranial space occupying lesions	Dr. Niharikaprasad	Dr. Vinaya Poornima
9	Morphology of intracranial aneurysms on CT angiography and characterisation in association with intraoperative and endovascular findings	Dr. Parvathi	Dr. Santosh Rai

Our ongoing UG research projects are:

Sl#	Title	Name of student	Guide
1.	CT scan as a prognostic indicator of spontaneous intracranial hemorrhage(ICMR-STs)	Mr.RohithSachdev	Dr. Santosh Rai.

The faculty have served as co-investigators for various clinical trials. The details of the same are provided below.

Dr. Ajit Mahale.

Clinical Phase of the Trial (I-IV)	Indication of the Trial	Role in trial (e.g Principal Investigator, Co-Investigator)	Year in which trial was conducted
Phase III	Protocol #: 1160.64: A Phase 3 Randomized, parallel group, double – blind Active controlled study to investigate the efficacy and safety of oral 220mg dabigatrametexilate (110 mg on the day of surgery followed by 200 mg once daily) compared to subcutaneous 40mg enoxaparin once daily for 28 – 35 days	Radiologist	2010

	in prevention of venous thromboembolism in patients following primary elective total hip arthroplasty (RE – NOVATE II)		
Phase III	Protocol No. : 150-CL-040 A randomized, Double-Blind, Double Dummy, Parallel Group study to compare YM150 bid and qd doses and Enoxaparin for prevention of Venous Thromboembolism in subjects undergoing Elective Hip Replacement Surgery. Icon Clinical Research Pvt. Ltd, Chennai	Radiologist	2010
Phase III	Protocol No. CV185035, A Phase 3, Randomized, Double Blind, Active-Controlled, Parallel Group, Multicenter study to evaluate the safety and efficacy of Apixaban in subjects undergoing Elective Total Hip replacement Surgery PPD Pvt. Ltd., Mumbai	Radiologist	2008
Phase III	Protocol No. CV185 047:, A Phase 3, Randomized, Double Blind, Active-Controlled,(Enoxiparin 40 mg QD), Parallel Group, Multicenter study to evaluate the safety and efficacy of Apixaban in subjects undergoing Elective Total Knee replacement Surgery. Bristol Myers Squibb India Private Limited, Mumbai	Radiologist	2010
Phase II	A Non Randomized, open Label, Multicentric, Dose Ranging, Phase II study Assessing the efficacy and safety of intramuscular administration of /stempeucel – CLItm(ExVIVO cultured adult bone marrow derived allogeneic mesenchymalstemcells) in patients with critical limb ischemia due to Buerger’s disease - STEMPECUTICS	Radiologist	2011-2013 on going trial

Dr Ashvini Kumar

Clinical Phase of the Trial (I-IV)	Indication of the Trial	Role in trial (e.g Principal Investigator,Co- Investigator)	Year in which trial was conducted
Phase III	Renal Cell Cancer	Radiologist	2012
Phase III	Non-Small Cell Lung Cancer (Stage IV)	Radiologist	2012

Phase III	Non Hodgkin Lymphoma	Radiologist	2012
Phase III	Non-Small Cell Lung Cancer	Radiologist	2009 to till date
Phase III	Multiple Myeloma	Radiologist	2009 to till date
Phase III	Gastro-Oesophageal Cancer	Radiologist	2008 to 2012
Phase II	HER2 Positive Metastatic Breast Cancer	Radiologist	2007-2011
Phase III	CA Breast	Radiologist	2007-2011
Phase II	CA Breast	Radiologist	2007-2010
Phase III	CA Breast	Radiologist	2007-till date

Dr Santosh Rai

Clinical Phase of the Trial (I-IV)	Indication of the Trial	Role in trial (e.g Principal Investigator, Co-Investigator)	Year in which trial was conducted
Phase II	A parallel group randomized open blinded end point evaluation, multicentric, dose escalation, phase –II study assessing the safety and efficacy of intraarterial (hepatic) ex-vivo cultured adult allogenicmesenchymal stem cells in patients with alcoholic liver cirrhosis	Radiologist	May 2012

The details of our publications are described below.

Year 2010

National:

1. Rai SPV, Kamath M, Shetty A, Shenoy S, Kumar A.
Symptomatic Morgagni's hernia in an elderly patient.
J Emerg Trauma Shock 2010; 3:89-91.
2. Rai S.
Intestinal ascariasis - Image.
Ann Trop Med Public Health 2010;33:4
3. Jayakumar, J., M. Chakrapani, Ajay Vidyasagar, Santhosh Rai, M. R. Pavan, Meenakshi Shetty.
Diabetic Muscle Infarction-A Case Report."
Internet Journal of Medical Update 2010 July;5(2):63-64.

Year 2011:

International:

1. Sreedharan, S., Ullal, S., Kamath, M. P., Hegde, M. C., Bhojwani, K. M., Alva, A., & Vishwas, K. V. (2011).
Solitary nasal mass: an unusual diagnosis.
American journal of otolaryngology, 32(4), 358.
2. Keerthiraj Bele, HimaShriniwasPendharkar, EaswerVenkat, Arun Kumar Gupta.
Anterior duralectasia mimicking a lytic lesion in the posterior vertebral body in ankylosing spondylitis.
Journal of Neurosurgery: Spine 15, no. 6 (2011): 636-640.
3. Dhananjaya KVN, VinayaPoornima, Ajit Mahale
Median Frontal Sutures – Incidence, Morphology and Their Surgical, Radiological Importance.
Turkish Neurosurgery 2011, Vol: 21, No: 4, 489-493.
4. KU Prashanth, BV Muralimanju, Latha V Prabhu, Chettiar Ganesh Kumar, Mangala M. Pai, KVN Dhananjaya.
Morphological and topological anatomy of nutrient foramina in the lower limb long bones and its clinical importance.
Australian Medical Journal 2011; 4, 10: 530-537.
5. B. V. Muralimanju, Latha V. Prabhu, Mangala M. Pai, AravindYadav, K. V. N. Dhananjaya, K. U. Prashanth
Neurovascular foramina of the human clavicle and their clinical significance.
SurgRadiolAnat (2011) 33: 679-682.

National:

1. RamachandranV, Tantry. B. V.,Ullal S. (2011).
The quest for a needle in a haystack: report of an unusual case.
Tropical gastroenterology: official journal of the Digestive Diseases Foundation, 32(2), 143.
2. Prasad SC, Prasad KC, Bhandary R, Abhijith K,
Pallavi-Osteomyelitis of the temporal bone in identical twin infants
Ear Nose Throat J. 2011 Jun;90(6):E16-21.
3. Prasad SC, Thada N, Pallavi, PrasadKC.
Paragangliomas of the Head & Neck: the KMC experience –

Ind J Otolaryngol Head Neck Surg. 2011; 63(1):62-73. Published by the Hony.Editor of the AOI, India.

Year 2012

International:

1. Pradyumn S, Mahale A, Chakrapani M and Ganaraja B –
Effect of HMG co- a reductase inhibitors on arterial wall thickness in hypertensive subjects undergoing long term treatment.
International journal of applied Biology and Pharmaceutical Technology Volume-3, Issue-4, Oct-Dec-2012
2. Anand Venugopal, Basavaprabhu Achappa , Unnikrishnan B , Deepak Madi, Vishak Surendra, John T Ramapuram.:
Toxoplasma encephalitis among AIDS patients in a tertiary care hospital in Mangalore, India.
Retrovirology 2012: 9(Suppl 1):P150.
3. Kumar, Nithin; Kanchan, Tanuj; Unnikrishnan, B.; T., Rekha; Mithra, Prasanna; Venugopal Anand; Sundar, Sachin; Raha, Shreya.
Clinico-Epidemiological Profile of Burn Patients Admitted in a Tertiary Care Hospital in Coastal South India
Journal of Burn Care & Research: POST COPYEDIT, 25 January 2012 doi: 10.1097/BCR.0b013e31824795b7.
4. Basavaprabhu Achappa, Deepak Madi, Unnikrishnan B, Anand Venugopal.:
Immune reconstitution inflammatory syndrome (IRIS) in HIV positive patients initiated on antiretroviral therapy (ART).
Retrovirology2012: 9(Suppl 1):P21.
5. Anand Venugopal, Basava Prabhu, B Unnikrishnan: Knowledge, risk perceptions and attitudes of nurses towards HIV in a tertiary care hospital in Mangalore, India.
Retrovirology 2012 9(Suppl 1):P68.
6. UllalS.,JoshiK. S., Pant P. (2012).
Computed tomographic evaluation of pancreatitis and its complications-Pictoral review. Nepal Journal of Medical Sciences, 1(2), 123-131.
. ClinTer 2012; 163(2):105-108.
7. B. V. Muralimanju, Latha V. Prabhu, Mangala M. Pai, BurajeMadhuri Kumar, K. V. N. Dhananjaya. K. U. Prashanth
Osteometric study of the upper end of femur and its clinical applications.
Eur J OrthopSurgTraumatol (2012) 22:227-230.

National:

1. Mahale A, Choudhary N.

Neurenteric cyst with herniation of spinal cord into the posterior Mediastinum:

N. Indian Journal of Research and reports in Medical Sciences, April 2012: 2(2):36-37

2. Rai, S., Subas, K., Kini, J., Bhat, N., & Rao, S. (2012). Multiple Retroperitoneal Paragangliomas. Indian Journal of Surgery, 1-3

Year 2013

International

1. Case Report: Kalyan Poudel, Anand Venugopal Dyke-Davidoff-Masson Syndrome JNMA, VOL 52/NO.5/ISSUE 189/JAN-MAR, 2013 – Indexed-Impact factor 0.2
2. Case Report: Santosh Rai P.VShrijeetChakrabortiMacrodystrophiaLipomatosa of the Hand International Journal of Medical And Applied Sciences Volume- 2,Issue 4, Nov-Dec 2013, Page-43-46 Indexed5.19
3. Pictorial review: Ullal, S., Joshi, K.S., & Pant, P. Computed Tomographic evaluation of pancreatitis and its complications – Pictorial review Nepal Journal of Medical Sciences, 1(2), 123-131
4. Case Report :Rai S, Pai M, Adurthy P, Mohammed I The small wrapping around the large Saudi surg J 2013;Volume- 1, Issue -2, Sept – December 2-13,ISSN 2320-3846

National:

1. Research Article: GopalakrishnaAlaparathi, Alfred Augustine, Anand R, Ajit Mahale
Research Article: - Chest Physiotherapy during immediate postoperative period among patients undergoing laparoscopic surgery – A Randomized controlled Pilot Trail-. IJBAR(2013)04(02) (indexed)
2. Research Article:Variaton of nuchal translucency with increasing crown rump length and gestational age in normal singleton pregnancies, Nina Mahale, Ashvini Kumar, V.Ch.MouliRayapureddi, Ajit Mahale, Krishnapriya. (IOSR Journal of Dental and Medical Sciences IOSR-JDMS) e-ISSN:2279-0853, p-ISSN:2279-0861, Volume 6, Issue 3 (May-Jun, 2013), PP 16-19 (indexed)
3. Case Report: Dr. Ajit Mahale, Dr. dhananjaya KVN, Dr. Vinaya Poornima-MRI sequences and characteristic features in “Giant cell Tumor” of clivus- published in Journal of clinical & diagnostic research 2013 June, Vol 7(62), Page 1197 to 1200- Indexed in COPERNICUS – National
4. Randomized clinical Pilot Trial: Gopala Krishna Alaparathi, Alfred Augustine, Anand R, Ajith Mahale- Comparison of Flow and Volume oriented incentive Spirometry on lung

- function and diaphragm Movement after Laparoscopic abdominal surgery: A Randomized clinical Pilot Trial-Int J Physiother Res 2013, vol 1(5):274-78.ISSN 2321-1822.
5. Case Report: Transworld Medical Journal ISSN: 23472790: A rare case of Vogt–Koyanagi–Harada (VKH) disease Mahale A, Ullal S, Fernandes, M, Shekar M. A rare case of Vogt– Koyanagi–Harada (VKH) disease. Transworld Medical Journal. 2013; 1(4):144-146.
 6. Case Report: Grievous Temporal and Occipital Injury Caused by a Bear AttackSampath Chandra Prasad,1 Nikhil DinakerThada,1 Pallavi Rao,2,Smitha Rani Thada,3 and Kishore Chandra Prasad, Year 2013: Case Reports in Otolaryngology, Volume 2013, Article ID 957251, 5 pages,
<http://dx.doi.org/10.1155/2013/957251>
 7. Case Report : Dr. Santosh Rai - Multiple Retroperitoneal Paragangliomas has now been published in the following paginated issue of Indian Journal of Surgery: volume 75, Issue 1 (2013), page 125-127- National
 8. Original Article: Optimisation of Surgical Results in de-Quervain’s Disease
Authors B Jagannath Kamath, Prof & Head, Dept. of Orthopaedics,Harsh Vardhan, Assistant
Professor, Dept. of Orthopaedics, Nikil Jayasheelan, Senior Resident, Dept. of Orthopaedics,
Ajith Mahale, Prof & Head, Dept. of Radiodiagnosis, Ashvini Kumar, Professor, Dept. of Radiodiagnosis,Online Journal of Health and Allied Sciences Peer Reviewed, Open Access, Free Online JournalPublished Quarterly
 9. Research Article: Rai SPV, Gobbur AR Nagesh KR, Kharoshah MA, Madadin M, Luis NA, Baral P, ArathisenthilSV, Choudhary N. Morphometric evaluation of the foramen magnum A study on computerized tomographic images of South Indian adults. Int J AJ Inst Med Sci (2); 2013: 65-72.
 10. Review - Neuroimage :Rai Santosh Suresh B.VI.G.BhatMithunSekharShrijeetChakraborti Childhood Adrenoleukodystrophy- Classic and Variant – review of clinical manifestations and magnetic resonance imaging Journal of pediatric Neurosciences Sept-Dec 2013,Page-192-197, volume - 8 Indexed 03-04
 11. Case Report: Rai Santosh,Binit kumar khandelia,ShrijeetChakraborti,Hema Kini Metastatic lesions to Thyroid Associated with dual primaries: A report of two Thyroid research and Practice Vol- 10,Sept-Dec 2013Page 111-113 Indexed
 12. Review article: Santosh Rai. Advances in Medical imaging– expanding frontiers. Current Medical Journal of India; Vol XIX No 5, August 2013. (2013;5:7-10)

Year 2014

International:

1. A Case Report. MRI evaluation of arrhythmogenic right ventricular dysplasia : Mahale A, Chavadi C, Fernandes M, Krishna G -IJRRMS VOL-4 No.2 APR - JUNE 2014.
2. Case Report: Asian Journal of Medical Research Unusual Presentation of Endometriosis Ajit Mahale1*, Nina Mahale2, Santosh Kondapalli1 Received : 8 Nov 2013 Accepted : 11 Dec 2013 Published: 30 Mar 2014 (International)
3. Case Report. Herlyn-Werner-Wunderlich syndrome - Common presentation of an unusual variation: A Case Report 1Dr. Ajit Mahale, 2Dr. Nina Mahale. 3Dr. K Santosh (Resident) IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) e-ISSN: 2279-0853, p-ISSN: 2279-0861. Volume 13, Issue 6 Ver. III (Jun. 2014), PP 00-00 (National)
4. Case Report. Silent Sinus Syndrome- A Blowout Fracture Mimic. Chanabasappa Chavadi1, Swetha Kory2, Ajit Mahale1, Merwyn Fernandes1 From the Department of Radiodiagnosis, Kasturba Medical College1, Mangalore; Yenepoya Medical College2, Mangalore, India. JOURNAL OF CASE REPORTS 2014; 4(1):64-67 (National).
5. Original article: Dhananjaya, K., B. V. Murlimanju, Vinaya Poornima, Sonali Ullal, Prasanna Mitra, K. Dinesh, Vasudha V. Saralaya, Latha V. Prabhu, and K. U. Prashanth. "In vivo morphometry of menisci of the knee in South Indians: A preliminary study." Biomedical journal 37, no. 1 (2014): 14. (National)
6. Case Report. Rai SP, Acharya P, Sahoo R, Kini H, Rai S, Bokelo M. Giant posterior mediastinal liposarcoma presenting as dysphagia: A clinico-radio-pathologic correlation. Onc Gas Hep Rep 2014; 3:43-5. (National)
7. Original article: Rai SP, Acharya V, Chakrapani M. Feasibility of computed tomography angiography as an essential prerequisite tool in cases of massive hemoptysis requiring embolization in a tuberculosis prevalent South Indian population: Case series. West Afr J Radiol 2014; 21:53-8. (International)
8. Original Article : DOI: 10.7860/JCDR/2014/8217.4119
of Effectiveness Progressive Resistance Strength Training Versus Traditional Balance Exercise in Improving Balance Among the Elderly - A Randomised Controlled Trial
Physiotherapy Section Abraham M. Joshua1, Vivian D'souza2, B. Unnikrishnan3, Prasanna Mithra4, Asha Kamath5, Vishak Acharya6, Anand Venugopal7 (National)
9. Original article: Rai SP, Pai MK, Sekhar M, Chakraborti S, Kumar A. Evolution from invasive arterial puncture to a venous access for cerebral angiography: "Cath Lab to CT suite". Indian J Neurosurg 2014; 3:97-102. Vol. 3- Issue 2- May – August 2014
Indian Journal of Neurosurgery (National) Indexed.

10. Case Report: Chanabasappa V Chavadi, Gowtham Jasti, Madhav Hedge, Anand Venugopal: "Hirayama disease". Indian J Neurosurg 2014; 3:125-7.(National)Indexed
11. Case Report: Adiga DA, Rai S, Pai RR, Tantry VB. Hepatic epithelioidhemangioendothelioma in a young female mimicking metastasis on radiology: Report of a case with brief review of literature. Onc Gas Hep Rep 2015;4:34-6.(National)
12. Letter to editor- Diffusion MRI in transient global amnesia- Harikiran Reddy, Keerthiraj Bele¹, Z.K. Misri²,SantoshP.V. Rai- -Neurology India | Jul-Aug 2014 | Vol 62 | Issue 4 457- Impact factor- for 2012: 1.044 (National) Indexed
13. Case Report: Seminal vesicle schwannoma presenting with left hydroureteronephrosisGopalakrishnanArun¹, ShrijeetChakraborti, Santosh Rai², GurupurGuni Laxman Prabhu³ Department of Surgery¹, Pathology, Radiodiagnosis² and Urology³, Kasturba Medical College,Mangalore, Manipal University, Karnataka, India
Urology Annals | Oct - Dec 2014 | Vol 6 | Issue 4 363 (International) Indexed
14. Case Report: Rachana K, Sampathmadhyastha, Vasudha Saralaya, Teresa Joy, Divyapremchandran, Santhosh Rai. Rare variation in arterial branching of celiac trunk with three aberrant hepatic arteries. J. Morphol. Sci., 2014, vol. 31, no. 2, p. 114-117.(National) indexed
15. Original Article: Journal Of Clinical Ultrasound- Doppler Evaluation of Ocular Vessels inPatients with Primary Open Angle Glaucoma K. Suprasanna, MD, DO,¹Chandrakant M. Shetty, MD,² S. Charudutt, MD,² Rajagopal Kadavigere, MD, Department of Radio-diagnosis, Kasturba Medical College Mangalore, Manipal University, Received 18 December 2012; accepted 6 May2014.-VOL. 42, NO. 8, OCTOBER 2014 (national) indexed
16. Original Article: Nandita Shenoy, Junaid Ahmed, Sumanth K N, Srikant N S, Santosh Rai, Muralidhar Yadiyal. Prevalence of Laryngeal Cartilage Calcifications in Mangalore population; a Radiographic Study. Otolaryngology online journal. Volume 4, issue 4, 2014. (National)
17. Original Article: Predicting Lumbar Central Canal Stenosis – A Magnetic Resonance Imaging Study- DivyaPremachandran, Vasudha VSaralaya, Ajith Mahale- Journal of Clinical and Diagnostic Research. 2014 Nov, Vol-8(11):RC01-RC04(National)
18. Original Article: Concha bullosa- A retrospective computed tomographic study Priyadarshini D, Latha V Prabhu, Ashvini Kumar¹, Mangala M Pai, RajanigandhaVadgaonkar,Dhananjaya KVN ¹Department of Anatomy, ¹Department of Radio diagnosis, Kasturba Medical College, Manipal University, CBS, Bejai, Mangalore (national) MedicaInnovatica , June 2014, Volume 3 - Issue 1
19. Case report:Prasad V, Shenoy VS, Kamath PM, Rai SP, Mathew NM. An unsuspected foreign body. How we managed it. Muller J Med Sci Res 2015;6:81-3. EBSCO

- Publishing's Electronic Databases, GenamicsJournalSeek, Global Health, Health & Wellness Research Center, Health Reference Center Academic, Hinari, Index Copernicus, Indian Science Abstracts, MANTIS, National Science Library, OpenJGate, SafetyLit, SCOLOAR, SIIC databases and Ulrich's International Periodical Directory
20. Case Report: AneesDudekula and Sonali D. Prabhu. A Rare Case of Right Retrocaval Ureter with Duplication of InfrarenalIVC Case Reports Case Reports in Radiology Volume 2014 (2014) Article ID 34571(Indexed in Pubmed, International Journal-peer-reviewed, open access journal published by Hindawi corporation (International)
 21. Clinical Study: Branchial Anomalies: Diagnosis and Management, Sampath Chandra Prasad,¹ Arun Azeez,² Nikhil DinakerThada,¹Pallavi Rao,³Andrea Bacciu,⁴ and Kishore Chandra Prasad¹Hindawi Publishing Corporation International Journal of Otolaryngology Volume 2014, Article ID 237015, 9 pages Published 4 March. International
 22. Original article: Osteomyelitis of the Temporal Bone:Terminology, Diagnosis, and ManagementSampath Chandra Prasad¹ Kishore Chandra Prasad¹ Abhijit Kumar¹ Nikhil DinakerThada¹Pallavi Rao²SatyanarayanaChalasanani¹,JNeurolSurg B 2014;00:1–8.(national)
 23. Rai, Santosh and *, Ashvini Kumar and Sekhar, Mithun and Chakraborti, Shrijeet (2014) Cysticercosis cysts everywhere! Annals of Tropical Medicine and Public Health, 7 (2). pp. 142-144. ISSN 1755-6783 (International)
 24. Research Article: Santosh Rai P V, Pallavi Rao,Harikiran Reddy, Hysterosalpingography (HSG) – the ‘Last man standing’ among the erstwhile plethora of conventional radiological investigations. ‘how we do it’ and review of literature-International journal of medical and applied sciences E-ISSN:2320-137, www.earthjournals.org Volume 3, Issue 4, 2014,223
 25. Original article: S antosh Rai PV, Santosh K, Chakraborti S, Pai S, Keerthi I, Pai MK. A blast from the past!: The value of adding single slice magnetic resonance myelography sequence to magnetic resonance imaging of the spine; a flashback to the conventional myelography of the past. SurgNeurolInt2014;5:S523-8 (International)
 26. Case Report: Rai S, Madi D, Pai S, Baliga S. Unusual Larva in the CSF and Unique MRI Findings in a Case of Eosinophilic Meningitis. J Clin Imaging Sci 2014;4:76 (International)

The Chapter in books published by our faculty are given below:

Year 2010

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher
1.	Forensic Radiology	Textbook of Forensic medicine and toxicology, 2nd ed	Dr. Santosh Rai	Jaypee brothers medical publishers

The details of our conference presentations have been listed below.

Year 2010

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Genitourinary anomalies detected in sonographic studies in the second and third trimester obstetric scans	Dr. Santosh Rai	64 th annual congress of the Indian Radiological and Imaging Association at Ahmedabad. January 22 to 25, 2010.
2.	Colour Doppler imaging – a surveillance tool in primary open angle glaucoma (Obtained Third place in “Kakarla Subbarao award for Best post graduate paper presentation)	Dr. Suprasanna	2010 Nov at Hyderabad; Nizam Institute of Medical sciences
3.	CT evaluation of obstructive sleep apnea syndrome -	Dr. Pallavi Rao	63 rd Annual congress of Indian Radiology and Imaging Association, Ahmedabad – 23 rd Jan & 26 th Jan 2010

Year 2011

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Embolization of pelvic AVM and bleeders.	Dr. Nishant, Dr. Ajit Mahale, Dr. Santosh Rai, Dr. Keerthiraj.	IRIA midterm CME October 2011.
2.	Fetal MRI of iniencephaly.	Dr. Nishant, Dr. Ajit Mahale, Dr. Santosh Rai.	IRIA midterm CME October 2011
3.	Morphometric Evaluation of the Foramen Magnum: Estimation of sex by 3D CT measurements of the Foramen Magnum of Adults- Clinical and Forensic Implications	Dr. Santosh Rai	65 th annual congress of the Indian Radiological and Imaging Association at Delhi, from January 27 to 31, 2011.
4.	Plain Radiograph Based Screening Tool For Assessment Of Bone Density-Authors:	Dr. Anand Venugopal, Dr. Kiran Kumar Dr. Vedavyasa	IRIA Conference At Delhi 2011

		Dr. Acharya, Dr. Keerthana Prasad	
5.	Susceptibility weighted imaging in neurodegenerative disorders. ISNR 2011 Pre surgical endovascular embolisation of hypervascular head and neck tumours-	Dr. Keerthiraj B	Poster in ISNR 2011
6.	3DCISS MRI – A problem solving tool in the orbital imaging”	Dr. Merwyn Fernandes	IRIA Mid Term Dr Rajendra Rao CME October 2011 held at Mangalore.
7.	Colour Doppler imaging – a surveillance tool in silent killer of vision”	Dr. Suprasanna	IRIA (Indian radiological and imaging association), New Delhi-2011

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	CT evaluation of obstructive sleep apnea syndrome-	Dr. Pallavi Rao	7 th SAARC ENT congress, Kathmandu, Nepal – 25 th to 27 th May 2011
2.	In Vivo Proton Magnetic Resonance Spectroscopic Imaging Of Intracranial Tumors: Differentiating Tumor Invasion From Perilesional Edema.	Dr. Dhananjaya, Co-author-Dr. Ajit Mahale.	29 th APRIL 29 th – May 4 th 2012 at the Vancouver convention & Exhibition centre in Vancouver, Canada.
3.	Significance of sonological evaluation of nuchal translucency and correlation with pregnancy outcome normometry, variation and abnormal	Dr. KVN Dhananjaya, Co-authors Dr. Ajit Mahale. Dr. A Kumar. Dr. Rayapureddi.	11 th world congress in Fetal Medicine 24-28 JUNE 2012, NT,
4.	In vivo proton magnetic resonance spectroscopic imaging of intracranial tumors: differentiating tumor invasion from perilesional edema,	Dr. Dhananjaya KVN Co-author Dr. Ajit Mahale	30 th August - 2 nd September 2012, Sydney convention and exhibition centre Sydney Australia
5.	Presented a poster Titled: Primary Squamous cell carcinoma of thyroid- A rare occurrence “on 28 th September	Dr. Sonali Ullal	14 th National conference of Foundation for Head and Neck Oncology, held at Chandigarh 24 th

			Sept to 30th Sept Chandigarh
6.	Paper Titled 'Role of Susceptibility weighted Imaging in various Neurological conditions in the Neurosymposium	Dr. Ajit Mahale	1st Global Manipal Alumni Health Science and Technology convention-2014 Kuala Lumpur, Malaysia

Year 2012

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Prospective and retrospective study of CT guided bone biopsy	Dr. Ajit Mahale.	State level IRIA conference held in Manipal in March 2012
2.	Scurvy revisited	Dr. Sonali Ullal, Dr. Ajit Mahale.	IRIA Karnataka State CME April 2012.

Year 2013

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Delivering lecture on vomiting in New Born/infant – clinical concerns and imaging strategies	Dr. Ajit Mahale	Indian Radiological & Imaging Association & Sri Siddhartha University IRIA Resident education program – 8th and 9th June 2013 Tumkur
2.	Presented invited lecture on 'MR urography – role in paediatrics'.	Dr. Santosh Rai	Guest lecture at 29th annual conference of IRIA Karnataka state chapter Bangalore Medical college and Research Institute, Bangalore-16 th

			and 17 th March 2013
3	Presented a lecture on “Approach to Jaundice in children’ and conducted a quiz titled ‘Quizzing the expert’.	Dr. Santosh Rai	Resource person at the conference ‘Paediatric Radiology Dec 7-8, 2013- Manipal Hospital Bangalore
4	Presented a lecture on “Imaging in cerebral palsy – clarity, confusion and grey zones”.	Dr. Santosh Rai	Resource person at the Pre-conference workshop of the International conference in developmental Paediatrics organized by the Dept of Physiotherapy KMC Mangalore at KMC Hospital Attavar December 17, 2013

Year 2013

International

Sl#	Title of the presentation	Name of the faculty	Details of Conference
	Modified Intracerebral Hemorrhage- Grading Scale as Indicator of Prognosis in Spontaneous Intracerebral Hemorrhage Presenting Author- Dr. Nishant Choudhary Co- author- Dr. Ajit Mahale, Dr. Santosh Rai	Dr. Santosh Rai	Natioanl Neuroradiology Conference ISNR 2013 NIMHANS convention center Bangalore 2013

Year 2014

National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Presented a poster Titled: Primary Squamous cell carcinoma of thyroid- A rare occurrence “on 28 th September	Dr. Sonali Ullal	Participated as a delegate in 14 th Nationalconference of Foundation for Head and Neck Oncology, held at Chandigarh 24th

			Sept to 30th Sept Chandigarh
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Year 2014

International

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Paper Titled 'Role of Susceptibility weighted Imaging in various Neurological conditions in the Neurosymposium	DR. AJIT MAHALE	1st Global Manipal Alumni Health Science and Technology convention - Kuala Lumpur, Malaysia-2014

12. Placement record of the past students and the contribution of the department to aid student placements.

Most of our students are pursuing a career of their choice. They have either joined a post-graduate course in our country or have gone abroad for further studies. Most of them start their practice (either independent or hospital based) immediately after graduation.

We have not conducted any MCI recognized University examination since we got recognition in 2010 and will be conducting out 1st University examination in the year 2014.

13. Plan of action of the department for the next five years

Student intake and Faculty:

- i. We plan to increase our student intake during the next MCI inspection for which we have adequate number of professors.
- ii. We plan to appoint Asst. professors and Sr. Residents as per requirement for next MCI inspection.
- iii. Sub specialization for staff for Neuro intervention and newer modalities as and when required and based on the equipment available.

Research projects & research Initiatives:

- i. We plan to conduct interdepartmental research projects in recent advances based on the research initiatives provided by the university

Academic initiatives:

- i. Intensive student training in both conventional and recent advances of imaging through Seminars and discussions which are conducted on a daily basis in the department.

Quality and Infrastructures initiatives:

- i. To improve quality of imaging services by procuring state of art equipments in Radiodiagnosis and providing health care at affordable cost.
- ii. Streamling work flow in the department with the aim of improving patient care as per 12 commandments.

Recognitions& Publication:

- i. We plan to encourage both faculty and post graduates to present the thesis and other research conducted at conferences and in journal publications.

Planning of Conferences, Symposiums of National / International level & Organizing FDPs, CMEs etc:

We are regularly conducting CME's every year in various Topics as per post graduate teaching requirements and plan to conduct conferences and Symposiums as per the available finances to conduct the same on a yearly basis.

Accreditations Planned:

We have already started the process of NABH accreditation and plan to achieve the same after completing all the requirements at the earliest for the hospital.

RADIOTHERAPY

1. Faculty profile - adequacy and competency of faculty

Sl. #	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Dr. Dinesh Pai Kasturi	DMRT,MD	Professor	33
2	Dr. PU Saxena	MBBS, MD	Assoc. Prof.	8
2	Dr. Sourjya Banerjee	MD	Asst. Prof.	1
3	Dr. Challapalli Srinivas	M. Sc, Dip RP, Ph. D	Assoc. Prof.	23
4	Mr. Putha Suman Kumar	M. Sc., DRP	Lecturer in Medical Physics	1

As per MCI we are an optional department for under-graduate teaching. There are no norms laid down w.r.t. staff for UG teaching (laid down only for PG). All the posts that we have are sanctioned by the University.

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

Not applicable.

We are an optional department as per MCI. We have no postgraduate programme.

4. Trends in the success and dropout rates of students during the past two years

Not applicable.

We are an optional department as per MCI. We have no postgraduate programme.

5. Learning resources of the departments - library, computers, laboratories and other resources

Departmental Library has 83 books.

Nine computers are available in the department. There is a desktop with broadband internet connection. The entire faculty has been provided with laptops and they can access the net using Wi-Fi.

6. Modern teaching methods practiced and use of ICT in teaching - learning

The department's teaching activities are very limited. AV aids are used for teaching students who are posted from other departments.

7. Participation of teachers in academic and personal counseling of students

We are an optional department as per MCI. It has no postgraduate programme.

8. Details of faculty development programmes and teachers who have been benefited during the past two years-

Although none of the faculty have attended faculty development programmes pertaining to teaching-learning and evaluation in the past two years all of them have undergone training regarding the same in the past. All the faculty attend at least one conference/CME/seminar etc every year.

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

Actively involved in teaching MD General Medicine students.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

No collaborations in the past two years.

11. Priority areas for Research and Details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Our priority areas for research are head & neck cancers & cervical cancers.

A snap shot of our research activities and publication activities in given in the tables below.

Ongoing:

Category	Number
Funded research projects	0

Last 3 years (2010-2012):

	2012	2013	2014
Completed funded research projects	1	0	0
Completed UG research projects	0	1	1
Publications	International	0	1
	National	1	0
Conference presentations	International	0	1
	National	1	1

Our ongoing funded projects (trials) are:**Year 2014**

Sl. No.	Title	Faculty Involved	Funding agency	Amount received
1	Nil			

Our completed funded projects (trials) are:**Year 2012**

Sl. No.	Title	Faculty Involved	Funding agency	Amount received
1	Breast Cancer (Anemic patients)	Dr.Dinesh Pai Kasturi	Parexel	Rs. 23,00,035

Year 2013

Sl. No.	Title	Faculty Involved	Funding agency	Amount received
1	Nil			

Year 2014

Sl. No.	Title	Faculty Involved	Funding agency	Amount received
1	Nil			

Our completed UG research projects are:**Year 2013**

Sl. No.	Title	Name of the student	Guide
1	Quality of life(QOL) in patients of head and neck cancers undergoing 3 dimensional conformal radiotherapy with or without surgery and chemotherapy”	Ms. Sneha V	Dr.Sourjya Banerjee

Year 2014

Sl. No.	Title	Name of the student	Guide
1	Correlation between the ER/PR expression in breast cancer and the dietary pattern in South Indian Females	Mr. Rahul Pal	Dr. Sourjya Banerjee

Publications of the faculty**Year 2012****National:**

1. P.U. Prakash Saxena, Donald Jerald Fernandes, Ajay Gautam, Arun Maiya, Krishna Sharan;
Effects of low-level laser therapy in the prevention and treatment of concurrent chemoradiotherapy induced oral mucositis: A triple-blind randomized controlled trial
Journal of clinical Oncology; Vol.30, 2012

Year 2013**International:**

1. Challapalli Srinivas¹, Suman Kumar P, Ramamoorthy Ravichandran, Banerjee S, Saxena PU, Arun Kumar ES, Dinesh Pai K
Semen Abnormalities, Sperm DNA Damage and Global Hypermethylation in Health Workers Occupationally Exposed to Ionizing Radiation
PLOS ONE; Volume 8; Issue 7; e69927; July 2013

Year 2014**International:**

1. Rahul Pal, Pratik Kumar Chatterjee, Poulomi Chatterjee, Vinodini NA, Prasanna Mithra, Sourjya Banerjee, Suman VB2, Sheila R. Pai
Polycystic ovary syndrome Blood group & diet: A Correlative study in south Indian females
International Journal of Medical Research & Health Sciences, Vol 3- Issue 3- June 2014; Original article; Indexed
2. Deepak JV Pinto; Dinesh K.V.N., Ravindra M Shenoy, Surendra U Kamath1, Vijay Reddy, Chalapalli Srinivas
Optimal position and posture of operating surgeon to reduce radiation during intra-operative use of image intensifier in extremity surgeries
International Journal of Biomedical and Advance Research, IJBAR (2014 05(12)
Research Article, Pg.623-626

Year 2014**National:**

1. Krishan Sharan, Donal Jerard Fernandes, PU Saxena, Sourjya Banerjee, Brijesth Sathian
Treatment outcomes after Intra-luminal brachytherapy following definitive Chemo-radiotherapy in patients with oesophageal cancer
Journal of Cancer Research and Therapeutics, Volume-10, Issue 2 April-June 2014
2. Dayanidhi Kumar, Sujith Raj Salian, Guruprasad Kalthur, Shubhashree Uppangala, Sandhya Kumari, Srinivas Challapalli
Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation
Environmental Research 132:297–304;May 2014, Original article; Indexed
3. Challapalli Srinivas, Suman Kumar P, Ramamoorthy Ravichandran, Banerjee S, Saxena PU, Arun Kumar ES, Dinesh Pai K
Dose verification in carcinoma of uterine cervix patients undergoing 3D conformal radiotherapy with farmer type ion chamber
Journal of Medical Physics, vol.39, No.4, 1-4, 2014; Original article; Indexed

The details of our Conference presentations have been listed below.

Year 2012**National**

Sl. No.	Title of the Presentation	Name of the Faculty	Details of Conference
1	Image guided Radiotherapy	Dr.Challapalli Srinivas	XVII Annual Conference of Association at Madurai from 18 th - 19 th August,2012

Year 2013**National**

Sl. No.	Title of the Presentation	Name of the Faculty	Details of Conference
1.	“Transit dosimetry for treatment in patients undergoing External Beam Radiotherapy”	Mr.Putha Suman Kumar	AMPICON-2013 13 th to 16 th November, 2013, Kolkatta

Year 2013**International**

Sl. No.	Title of the Presentation	Name of the Faculty	Details of Conference
1.	Quality assurance of simultaneous treatment of two targets in pelvic region planned with single ISO center under 3D CRT Technique	Dr.Challapalli Srinivas	13 th Asia-Oceania Congress of Medical Physics & 11 th South-East Asian congress of Medical Physics 12 th to 14 th December 2013, Singapore

Year 2014**National**

Sl. No.	Title of the Presentation	Name of the Faculty	Details of Conference
1	“Study of role of HPV in Esophageal Carcinomas”	Dr. PU Saxena	36 th National Annual Conference of Association of Radiation Oncologists of India- AROI2014 6-9 Nov. 2014; Imphal, Manipur
2	“Evaluation of 3D CRT Planning of Bilateral Breast Cancer with mono isocentric technique”.	Mr. Putha Suman Kumar	36 th National Annual Conference of Association of Radiation Oncologists of India- AROI2014; Imphal, Manipur
3	“Dose Verification in carcinoma of uterine cervix patients undergoing 3D Conformal radiotherapy with farmer type ion chamber” .	Dr. Challapalli Srinivas	35 th National Annual Conference AMPICON 2014 ; 20-22 Nov ;2014 Loni, Maharastra

Year 2014**International**

Sl. No.	Title of the Presentation	Name of the Faculty	Details of Conference
1	E Poster – Pilot study of HPV Virus in Esophageal Carcinomas	Dr. PU Saxena	ASCO, Annual Conference 2014; June 2014; Chicago, USA

12. Placement record of the past students and the contribution of the department to aid student placements

We are an optional department as per MCI. It has no postgraduate programme.

13. Plan of action of the department for the next five years

The plan is to develop the department so as to have ability to start MD Radiation Oncology Course by improving the patient load management, getting teaching learning materials, improving infrastructure development of the department. The department is also involved in active research through ICMR student research programs, clinical trials, and also by conducting regular CMEs and Conferences.

CARDIOLOGY

1. Faculty profile - adequacy and competency of faculty

Sl. #	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. R. L. Kamath	DM	Professor & HOD	35
2.	Dr. Padmanabh Kamath	DM	Addtl. Prof.	15
3.	Dr. M. N. Bhat	DM	Assoc. Prof.	11
4.	Dr. Narasimha Pai	DM	Assoc. Prof.	10
5.	Dr. Rajesh Bhat. U	DNB (Cardio)	Asst Prof.	6
6.	Dr Maneesh Rai	MD, DM	Asst. Prof	2

All the faculty have competency as laid down by National Board of Examinations.

	Sanctioned	Filled
Teaching faculty	5	5

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes-

No change in structure and function since last 4 years. The department adheres to the norms laid down by the National Board of Examinations.

4. Trends in the success and dropout rates of students during the past two years.

1st batch student Dr. Tajas Shah has pass his final exam in June 2015 .There have been no drop outs so far. 6 more students have joined after the 1st batch

5. Learning resources of the departments - library, computers, laboratories and other resources-

The department utilizes the state of art equipment available in our hospitals.

6. Modern teaching methods practiced and use of ICT in teaching – learning-

The teaching is predominantly “patient based”. In view of the nature of the course (super-specialization) the stress is on developing technical skills of the student. In addition, seminars, journal clubs and grand rounds are conducted so that the student develops into a competent professional. The DNB candidate handling non invasive and invasive cardiac investigations independently after 2nd year.

7. Participation of teachers in academic and personal counseling of students

Teaching seminars, bed side clinics on daily basis, case discussion on weekly basis, cardiac cath discussions once in 15days.

8. Details of faculty development programs and teachers who have been benefited during the past two years

None of the faculty have attended faculty development programmes in the past two years. However, the HOD & Assoc Professor have undergone this training in the past.

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

Teaching in both non-invasive and invasive techniques and in the field of cardiology for the students posted.

10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

There are no collaborations at present. However, all the staff attends PTCA register Annual meet in batches once in 2 years. In addition staff attend Regional& National Cardiac Conference.

- 1) Dr Narasimha Pai has attended Mount Sinai hospital in New York(USA) for advanced training in invasive cardiology.
- 2) International publication;Early prognosis of unstable angina patients with positive Helicobacter pylori IgE values - Ram S Kaulgad and R L Kamath
- 3) ECG Book has been released under authorship of Dr Padmanabha Kamath
- 4) Expansion of electrophysiology lab with 3D mapping , RFA
- 5) Cathlab facility added with Rota ablator

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years –

Priority areas for research are

- a) Syntax scoring modification
- b) Duration of DM in relation to the CAD patients.

There are ongoing or completed projects in the department.

- a) Risk factor profile of young patients with acute coronary syndrome
- b) Echocardiographic evaluation of Rt ventricle in Acute inferior wall MI and its coronary angiogram correlation

- c) A comparative Study of intracoronary sodium nitroprusside and nicorandil for treatment of slow/no –flow phenomenon during primary coronary intervention in patients presenting with acute coronary syndrome .
- d) Use of strain rate imaging in the predicting recovery of myocardial segments after revascularization in acute myocardial infarction
- e) Short term outcome (1 yr followup study) in a severe CAD (Syntax score >22) with difference therapeutic strategies (percutaneous coronary intervention V/S coronary artery bypass grade V/S medical management)
- f) Short term outcome in chronic heart failure with the addition of Hydralazine – Isosorbide Dinitrate to standard antifilure therapy – a prospective comparison

There are no publications of the department.

12. Placement record of the past students and the contribution of the department to aid student placements

1st batch student Dr. Tajas Shah has pass his final exam in June 2015

13. Plan of action of the department for the next five years

1. Clinical
 - a. Installation of EP study lab
 - b. Increase the number of students
 - c. Cardiac re-habilitation of heart failure patients
 - d. Telemedicine and advice to the neighboring districts and north Malabar.
 - e. Installation and expansion of Manipal Ambulance Response services – 24hr services
2. PG training programme
 - a. Structured training programme will include
 - Thesis, protocol presentation review once in 3 months
 - Bedside clinics – weekly
 - Journal review – once in 15days
 - Seminars – once in 15days
3. Conducting CME once in a year

UROLOGY

1. Faculty profile - adequacy and competency of faculty

There are four teaching faculty members who meet the requirements of UG and PG training. All faculty members are competent.

SI#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Prof. P. Venugopal	MS, M. Ch. (Urology)	Professor Emeritus	42
2.	Dr. G.G. Laxman Prabhu	MS, M. Ch., DNB	Professor&Head	21
3.	Dr.Ranjit Shetty	MS, M. Ch, DNB	Assoc.Prof.	18
4.	Dr. Ashok Pandit	MS, M. Ch.	Asso.Prof.	05

	Sanctioned	Filled
Teaching faculty	4	4

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes-

The department started in March 2012 and adheres to the laid down curriculum.

4. Trends in the success and dropout rates of students during the past two years.

No dropouts; first batch is due for summative assessment by the board in December 2015.

Learning resources of the departments - library, computers, laboratories and other resources-

The department utilizes the state of art equipment available in our hospitals. There is a departmental library which has a collection of latest editions of textbooks and hard copies of indexed journals.

Modern teaching methods practiced and use of ICT in teaching – learning-

The teaching is predominantly “patient based”. In view of the nature of the course (super-specialization) the stress is on developing technical skills of the student. In addition, seminars, journal clubs and grand rounds are conducted so that the student develops into a competent professional.

6. Participation of teachers in academic and personal counseling of students

All teachers in groups as well as in individual capacities engage the two trainees for at least 12 hours of teaching through teaching sessions planned in advance. In addition, there is a continuous online teaching.

7. Details of faculty development programs and teachers who have been benefited during the past two years

Dr G G Laxman Prabhu attended a workshop

Event-Hands on workshop, Title/Topic - Basic Laproscopic Urology course date 08/01/2014 to 10/01/2014. Centre of Excellence for minimal access Surgery training Mumbai.

8. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

The faculty members regularly take clinics and are a part of the various teaching activities of the department. Our faculty are regular attendees at seminars and workshops- both urological and allied in the capacity of teachers/trainers as well as participants. They are also guiding PG dissertation and ICMR sponsor projects.

9. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

The department has just initiated inter departmental teaching activities with its counterpart in KMC Manipal and intends to extend this to other teaching departments in the state.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years –

Priority areas for research are Prostate Cancer and Urinary Tuberculosis.

There are no ongoing or completed projects in the department.

The details of our publications have been listed below.

Year 2011

1. Shah A., Prabhu Laxman

An interesting case of Atrial septal defect, Patent Urachus and valvular anus presenting in childhood,

Webmed Central Urology 2011; 2(1): WMC001502.

Year 2012

1. A Renal Bezoar of *Epicoccum nigrum*: An unusual clinical curiosity, Shenoy S M, Prabhu Laxman G G, Baliga S, Bhat A M, Journal of clinical and Diagnostic research, 2012, June, Vol -6(5): 905-907
2. Benign Prostatic Hyperplasia, Editors M Ramalingam and David Albala, 2012 Author: Venugopal P, Publisher : MacMillan, Chapter 32, Open simple prostatectomy Pages 352-384

Year 2013

1. Kayilegalu manemathu, Vaidyara Kivimathu, Shukla granthiya samasyegalu, Author Dr Laxman Prabhu, Publisher IMA, DK Chapter, Pages 32-33
2. Urology started in India, Author Dr P Venugopal & Dr Laxman Prabhu, Publisher Dept of surgery, Chapter Golden Jubilee Souvenir.

Year 2014

1. Seminal Vesicle Schwannoma presenting with left Hydroureteronephrosis, Gopalkrishnan A, Chakraborti S, Rai S, Prabhu L G G, Urology Annals, Oct-Dec 2014, Vol 6, issue 4, Pages 363-365.

12. Placement record of the past students and the contribution of the department to aid student placements

Junior resident

- Dr. Prajna Pinto: (Anesthesia in Father Muller Hospital Mangaluru) (PG)
- Dr. Divya Vara Prasad (New Zealand)
- Dr. Mithun Pai (Orthopedic KMC Mangaluru) (PG)
- Dr. Ashwini (Paediatric Baptist Hospital Bangalore) (PG)
- Dr. Prajna Shetty (OBG AJ Shetty Hospital Kuntikana Mangaluru) (PG)
- Dr. Naga Aparna Peri (General Surgery KMC Mangaluru) (PG)

13. Plan of action of the department for the next five years

The department has just prepared a rudimentary action plan to ensure that the objectives are met. A detailed action plan is being worked out as we now have students from this year onwards. Presently the plan focuses on:

Structured training program for students which will include

- Stabilise the established teaching session (PG) on Monday/Tuesday/ Thursday
- Recruit sub speciality staff (Paed Uro/ Uro Gynecology)
- Start Mch (Uro) Program

NEUROLOGY

1. Faculty profile - adequacy and competency of faculty

Sl #	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Dr.Rakshith KC	DM	Assoc. Prof. & I/c HOD	5
2	Dr. ZK Misri	DM, DNB	Asst. Prof.	10
3	Dr. ShivanandPai	DM	Asst. Prof.	3

All the faculty have competency as laid down by National Board of Examinations.

	Sanctioned	Filled
Teaching faculty	4	3

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes-

The department started in March 2012 and adheres to the laid down curriculum. The 1st batch of DNB candidates have not joined yet.

4. Trends in the success and dropout rates of students during the past two years.

One student left the course due to personal problem.

5. Learning resources of the departments - library, computers, laboratories and other resources-

The department has well-equipped library with over 80 books and one computer is available in department.

We have a state of art Neuro Physiology Laboratory. It houses some of the latest equipment i.e. EEG, EMG, Portable EEG & Transcranial Doppler.

There is a desktop with broadband internet connection. The entire faculty has been provided with laptops and they can access the net using Wi-Fi.

6. Modern teaching methods practiced and use of ICT in teaching – learning-

The teaching is predominantly “patient based”. In view of the nature of the course (super-specialization) the stress is on developing technical skills of the student. In addition, seminars, journal clubs and grand rounds are conducted so that the student develops into a competent professional.

7. Participation of teachers in academic and personal counseling of students

The faculties are keen interest in the overall development of the student and provide necessary support for the same.

8. Details of faculty development programs and teachers who have been benefited during the past two years

None of the faculty have attended faculty development programmes in the past two years.

However, the faculty have attended subject related programmes like workshop in movement disorder, TCMD course, ECG workshop in ECON by Junior Consultants Dr.Rakshith KC and Dr.ShivanandaPai.

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

Weekly journal club/Ground rounds/Seminar- case discussion,

10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

The department has just started functioning and presently does not have any collaboration.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years –

Priority areas for research are :

- ✓ Stroke
- ✓ Multiple sclerosis

A snapshot of our research activities and publication activities in given in the tables below.

Ongoing: Nil

Last 3 years (2012-2014):

		2012	2013	2014
Publications	International	2	2	2
	National	0	0	0

The details of our publications are described below.

Year 2012

International

1. Pandit L, Shetty R, Misri Z, Bhat S, Amin H, Pai V, Rao R.
Optic neuritis: Experiences from a south Indian demyelinating disease registry.
Neurol India 2012; 60: 470-475
2. Karthikbabu S, ChakrapaniM, GaneshanS, Rakshith KC, NafeezS, PremV
A review on assessment and treatment of trunk in stroke: a need or luxury.
Neural Regeneration Research 09/2012; 7(25):1974-1977.

Year 2013

International

1. **Optimizing the management of neuromyelitis optica and spectrum disorders in resource poor settings: Experience from the Mangalore demyelinating disease registry**
Year : 2013 | Volume : 16 | Issue : 4 | Page : 572-576. Author: Lekha Pandit¹, Sharik Mustafa¹, Ramya Kunder¹, Rajesh Shetty², Zulkifly Misri³, Shivanand Pai³, Rakshith³
2. **An Interesting Case of Eosinophilic Meningitis**-Year : 2013 | Month : 04 | Volume : 7 | Issue : 4 | Page : 734 – 735. Author: Shivanand Pai¹, Deepak Madi², Basavaprabhu Achappa³, Soundarya Mahalingam⁴, Rakshith Kendambadi⁵

Year 2014

International

1. ***The relationship between pelvic alignment and trunk control in stroke subjects: a cross-sectional study.*** International Journal of Research in Medical Sciences, 2 (4). pp. 1483-1487. ISSN 2320-6012. Author: Pathak, Shivani and *, Vijaya Kumar.K and Nayak, Akshatha and Kedambadi, Rakshith C. (2014)
2. Unusual Larva in the CSF and Unique MRI Findings in a Case of Eosinophilic Meningitis - J Clin Imaging Sci 2014, 4:76 (31 December 2014) Author- Santosh Rai, Deepak Madi, Shivanand Pai, Shrikala Baliga-

12. Placement record of the past students and the contribution of the department to aid student placements

Students are just joined and hence this is not applicable.

13. Plan of action of the department for the next five years

Structured training programme will include

- Thesis, protocol presentation review
- Bedside clinics
- Weekly Journal review
- Seminars

PG training programme

- Conducting CME for every months
- Training PG in EMG/EEG reporting
- Trans-cranial Doppler
- Administration of Botox injection
- Nerve muscle biopsy

GASTROENTEROLOGY

1. Faculty profile - adequacy and competency of faculty

Sl #	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Dr. B. V. Tantry	DM	Professor & HOD	28
2	Dr. Sandeep Gopal	DNB(Med), DNB(Gastro)	Assoc. Prof.	12
3	Dr. Suresh Shenoy	DM	Assoc. Prof.	06

All the faculty have competency as laid down by National Board of Examinations.

	Sanctioned	Filled
Teaching faculty	4	3

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure no. HS 1 for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The department started recently in May 2011 and adheres to the norms laid down by the National Board of Examinations.

4. Trends in the success and dropout rates of students during the past two years

Two students have joined for DNB in gastroenterology in Feb 2013 and none has dropped out so far.

Two students have joined for DNB in gastroenterology in July 2014 and none has dropped out so far.

5. Learning resources of the departments - library, computers, laboratories and other resources-

The department utilizes the state of art equipment available in our hospitals. We have a state of the art endoscopy set up.

Library: College Library & Departmental Library

The department library has 28 books

Computers: Desktop 4. 2 with internet connection

6. Modern teaching methods practiced and use of ICT in teaching – learning

The teaching is “patient based”. In view of the nature of the course (super-specialization) the stress is on developing skills of the student. In addition seminars, journal clubs and case discussions are done so that the student develops into a competent professional. Audiovisual aids like PowerPoint and multimedia are used in seminars and discussions.

7. Participation of teachers in academic and personal counseling of students

Faculty takes keen interest in the overall development of the student and provides necessary support for the same. Any student found wanting in terms of academic performance is personally counseled by HOD.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

None of the faculty have attended faculty development programmes in the past two years. Faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. Faculty have attended 10 conferences in last 2 years.

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

Faculty are involved in the teaching of the under graduates, post graduates as well as the DNB students in gastroenterology. Faculty are also involved in the research activities which include international and national clinical trials, DNB thesis and conference presentations.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Faculty was involved in the development of national guidelines for peptic ulcer bleed. Faculty is involved in international trial on duodenal ulcer. Faculty has completed international trial on ulcerative colitis. Faculty member is part of the multicentric trial on stem cell liver cirrhosis.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Priority areas for research are

- ✓ Stem cell in liver cirrhosis
- ✓ Decompensated liver disease

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	2
PG research projects	4

Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		0	0	0
Publications	International	0	1	0
	National	0	2	1
Conference presentations	International	1	0	0
	National	0	0	0

The detailed outline of projects is given below:

Our on- going funded research projects (clinical trials) are:

Sl. No.	Title	Principal Investigator	Funding agency	Total amount received
1.	A parallel group randomized open blinded end point evaluation, multicentric, dose escalation, phase – II study assessing the safety and efficacy of intra-arterial (hepatic) ex-vivo cultured adult allogenic mesenchymal stem cells in patients with alcoholic liver cirrhosis	Dr. B. V. Tantry Dr. Suresh Shenoy	Semler Research, Centre Pvt. Ltd., Bangalore	Rs. 6,82,575
2.	A Multi-Center, Double Blind, Placebo-Controlled, Randomized, Parallel-Group Study To Evaluate The Safety and Clinical Equivalence of a Generic Sucralfate Oral suspension, 1g/10 ml (Hi-Tech Pharmacal Co., Inc., USA) To Carafate® Suspension, 1g/ 10ml (AptalisPharma, Inc.,) in the Treatment of Active Duodenal Ulcer Disease	Dr. B V Tantry	Hi-Tech Pharmacal Co., Inc., USA	Nil

Our ongoing PG research projects are:

Sl. No.	Title	Name of the student	Guide
1.	Upper GI endoscopy findings in patient with chronic liver disease	Dr. Deepika Parmar	Dr. Sandeep Gopal
2.	Cardiovascular dysfunction in cirrhosis and sepsis	Dr. Sandeep R Sharma	Dr. B V Tantry
3.	Prospective study of aetiology and types of anemia in cirrhosis of liver	Dr. Apoorva S	Dr. B. V. Tantry
4.	Prospective study in prevalence of helicobacter pylori in functional dyspepsia and response to therapy	Dr. Bhargav Reddy	Dr. Sandeep Gopal

Sl. No.	Title	Principal Investigator	Funding agency	Total amount received
1.				

The details of our publications are described below.

Year 2013

National:

1. Mamta Gupta, Radha R Pai, Devi Dileep, Sandeep Gopal, Suresh Shenoy
Role of biliary tract cytology in the evaluation of extrahepatic cholestatic jaundice
Journal of cytology, July-September 2013. Volume 30 | Issue 3 /Page Nos. 162-168
2. M. Panduranga Kamath, Vijendra Shenoy, Suresh Shenoy, Vishnu Prasad K.P, Aswin Mukundan
Recurrent post cricoid web in plummer Vinson syndrome – is it malignancy next?”
Journal of Evolution of Medical and Dental Sciences 2013; Vol2, Issue 35, September 2; Page: 6748-6753.

Year 2014

National

1. Shenoy SM, **Shenoy S**, Gopal S, Tantry BV, Baliga S, Jain A.
Clinicomicrobiological analysis of patients with cholangitis.
Indian J Med Microbiol. 2014 Apr-Jun;32(2):157-60.

Year 2012

International

Sl.No.	Title of the Presentation	Name of the Faculty	Details of Conference
1	Mortality in cirrhosis – The Changing Pattern	Dr. B. V. Tantry	22 st Conference of the Asian Pacific Association for the Study of Liver, Taipei, Taiwan From 16 th to 19 th February 2012
Year 2013			
1	Assessment of safety and efficacy of mesalazine in Indian patients with ulcerative colitis	Dr. B.V.Tantry	

12. Placement record of the past students and the contribution of the department to aid student placements

Students have joined the department 2013. None has passed out so far.

13. Plan of action of the department for the next five years

Department has established the DNB programme in Gastroenterology since February 2013. Two students have joined the department in February 2014.

Structured training programme includes

- ✓ Thesis, protocol presentation review
- ✓ Bedside clinics
- ✓ Weekly Journal review
- ✓ Seminars
- ✓ Conducting CME for every 3 months
- ✓ On hand training for the students in various endoscopic procedures, diagnostic and therapeutic endoscopic procedures
- ✓ Deputation to two other centres of excellence in Gastroenterology for training.

Department has been marked for being developed as centre of excellence. It has already acquired the state of art capsule endoscopy and double balloon enteroscopy. Department has three simultaneous endoscopy tables and a separate ERCP room with fluoroscopy. In the near future it has planned to acquire endoscopic ultrasonography.

Next five years will see focus on clinical research in the field of hepatology and luminal gastroenterology.

1. **Name of the Department:** Department of Radiotherapy
2. **Year of establishment:** 2013
3. **Is the Institution part of the university?** Yes
4. **Names of programs offered**
UNDERGRADUATE: BSc.MRT
5. **Interdisciplinary programs and departments/institutions involved**
Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
Nil
7. **Details of programs discontinued, if any, with reasons**
Nil
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**
Annual Examination system
9. **Participation of the institution in the courses offered by other institutions:** Nil
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01	
Associate Professor/Reader	02	02	
Assistant Professor	01	01	
Lecturer	01	01	

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. Dinesh Pai Kasturi	MD, DMRT	Professor & I/c Head	Radiotherapy	35
Dr. Challapalli Srinivas	MSC, DRP, PhD,	Associate Professor	Medical Physics	22
Dr. PU Saxena	MD	Associate Professor	Radiotherapy	8
Dr. SourjyaBanerjee	MD	Assistant Professor	Radiotherapy	4
Mr.PuthaSuman Kumar	MSc, DRP	Lecturer in Medical Physics	Medical Physics	1

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors – Nil

13. Percentage of classes taken by temporary faculty – program-wise information – Nil

14. Program-wise Student Teacher Ratio : 1:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

	Sanctioned	Filled
Technical	8	8
Administrative	2	2

16. Research thrust areas as recognized by major funding agencies : Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration : Nil b) International collaboration: Nil

19. Institutional projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Details of ICMR-STS 2014 projects (student projects which have been approved)

Department	Name of the student	Name of the guide	Title of the project	ICMR-STS registration number
Radiotherapy	Rahul Pal	Dr. Sourjya Banerjee	Correlation between the ER/PR expression in breast cancer and the dietary pattern in South Indian Females	2014-3450

20. Research facility /centre with

- **state recognition** : Nil
- **national recognition** : Nil
- **international recognition** : Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil

22. Publications last three years

- * **Number of papers published in peer reviewed journals (national / international)**

Year 2012

National:

1. P.U. Prakash Saxena, Donald Jerald Fernandes, Ajay Gautam, ArunMaiya, Krishna Sharan;
Effects of low-level laser therapy in the prevention and treatment of concurrent chemo radiotherapy induced oral mucositis: A triple-blind randomized controlled trial
Journal of clinical Oncology; Vol.30, 2012

Year 2013

International:

- Srinivas Challapalli**, Dayanidhi Kumar, Sujith Raj Salian, GuruprasadKalthur, ShubhashreeUppangala, Sandhya Kumari1, , SrinidhiGururajaraoChandraguthi, Hanumanthappa Krishnamurthy4, Navya Jain, Pratap Kumar, Satish Kumar Adiga.

Semen Abnormalities, Sperm DNA Damage and Global Hypermethylation in Health Workers Occupationally Exposed to Ionizing Radiation
 PLOS ONE; Volume 8; Issue 7; e69927; July 2013

Year 2014

International:

1. Rahul Pal, Pratik Kumar Chatterjee, Poulomi Chatterjee, Vinodini NA, Prasanna Mithra, Sourjya Banerjee, Suman VB2, Sheila R. Pai
 Polycystic ovary syndrome Blood group & diet: A Correlative study in south Indian females
 International Journal of Medical Research & Health Sciences, Vol 3- Issue 3- June 2014; Original article; Indexed
2. Deepak JV Pinto; Dinesh K.V.N., Ravindra M Shenoy, Surendra U Kamath1, Vijay Reddy, Challapalli Srinivas
 Optimal position and posture of operating surgeon to reduce radiation during intra-operative use of image intensifier in extremity surgeries
 International Journal of Biomedical and Advance Research, IJBAR (2014 05(12)
 Research Article, Pg.623-626

Year 2014

National:

1. KrishanSharan, DonalJerardFernandes, PU Saxena, Sourjya Banerjee, BrijesthSathian
 Treatment outcomes after Intra-luminal brachytherapy following definitive Chemo-radiotherapy in patients with esophageal cancer
 Journal of Cancer Research and Therapeutics, Volume-10, Issue 2 April-June 2014
2. Dayanidhi Kumar, Sujith Raj Salian, GuruprasadKalthur, ShubhashreeUppangala, Sandhya Kumari, Srinivas Challapalli
 Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation
 Environmental Research 132:297–304; May 2014, Original article; Indexed
3. Challapalli Srinivas, Suman Kumar P, RamamoorthyRavichandran, Banerjee S, Saxena PU, Arun Kumar ES, Dinesh Pai K

Dose verification in carcinoma of uterine cervix patients undergoing 3D conformal radiotherapy with farmer type ion chamber

Journal of Medical Physics, vol.39, No.4, 1-4, 2014; Original article; Indexed

- * **Monographs** : Nil
- * **Chapters in Books** : Nil
- * **Books edited:** Nil
- * **Books with ISBN with details of publishers:** Nil
- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)** :
- * **Citation Index – range / average** : Nil
- * **SNIP** : Nil
- * **SJR** : Nil
- * **Impact Factor – range / average** : Nil
- * **h-index** : Nil

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (specify)- Nil

27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

Faculties are attending conferences, workshops, CMEs and Symposiums regularly, also presenting scientific papers.

28. Student projects

- **percentage of students who have taken up in-house projects including inter-departmental projects** : Nil
- **percentage of students doing projects in collaboration with other universities / industry / institute** : Nil

29. Awards / recognitions received at the national and international level by

- **Faculty:** Dr.Challapalli Srinivas; Meritorious Radiological Safety Officer Award. given by Indian Association of Radiation Protection (IARP) in the year 2012 at Mangalore University, Mangalore.
- **Doctoral /post-doctoral fellows :** Nil
- **Students :** Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. Nil

31. **Code of ethics for research followed by the departments:** Taking permission from institutional ethics committee of any research undertaken.

32. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
BSc MRT		2	3	100%	

33. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
BSc MRT	NA	NA	NA	NA

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise. - Nil

35. Student progression

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil,DM / M Ch / DNB	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	NA
Entrepreneurs	NA

The first batch of students is yet to pass out.

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	NA
from other universities within the State	NA
from universities from other States	NA
from universities outside the country	NA

37. Number of faculty who were awarded M.Phil.,DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period NA

38. Present details of institutionalinfrastructural facilities with regard to

a) Library

KMC Central Library is a modern, fully air-conditioned library with a seating capacity of more than 500, with internet facility. The library has over 40,594 books and close to 22,000 journals. Moreover, the library subscribes to about 290 journals annually. The faculty and students can access various important medical journals both through intranet as well as Internet facility. “Easy lib” - an automated Library management system. E-PAC & O-PAC packages are available to the students for library catalogues. The institution subscribes to most of the peer reviewed national and international journals having a high impact factor. The library also has facilities for e-learning also. Each Department also has a department library which acts as a ready source for reference and many a times avoids the need to go to the library. It also provides an opportunity for the staff to point out the relevant sections in the books which helps in clarifying matters to students.

b) Internet facilities for staff and students

The students are guided and encouraged to hone their computer skills during the various presentations that they make. All the hostels and departments are Wi fi enabled. Further the institution ensures that computer applications are used in courses in the medical school. Some of these are:

- Computerized bibliographic search.
- Computerized instructional programmes like PowerPoint used as study aids.
- Usage of internet or other on-line content-based programmes originating from outside the institution.
- On-line content-based programs originating within the institution and distributed through local area network or net-browser technology (E-learning).
- “Easy lib” - an automated Library management system. E PAC & O-PAC packages are available to the students for library catalogues.
- Hands on training in using statistical softwares like SPSS

- The library facilities are also available through internet facility.
- c) **Total number of class rooms - One**
- d) **Class rooms with ICT facility and ‘smart’ class rooms - One**
- e) **Students’ laboratories One**
- f) **Research laboratories One**
- 39. List of doctoral, post-doctoral students and Research Associates**
- a) **from the host institution/university - Nil**
- b) **from other institutions/universities – Nil**
- 40. Number of post graduate students getting financial assistance from the university.**
- NA
- 41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology.**
- NIL
- 42. Does the institution obtain feedback from**
- a. **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the institution utilize the feedback? Nil**
- b. **students on staff, curriculum and teaching-learning-evaluation and how does the institution utilize the feedback? Nil**
- c. **alumni and employers on the programs offered and how does the institution utilize the feedback? Nil**
- 43. List the distinguished alumni of the institution (maximum 10) : NA**
- 44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.- Nil**
- 45. List the teaching methods adopted by the faculty for different programs including clinical teaching.**
- Didactic lectures, clinical discussions, seminars, bedside clinics, Journal Club and case based learning in clinical units.
- 46. How does the institution ensure that program objectives are constantly met and learning outcomes are monitored?**
- NA

47. Highlight the participation of students and faculty in extension activities.

NA

48. Give details of “beyond syllabus scholarly activities” of the institution.

NA

49. State whether the program/ institution is accredited/ graded by other agencies? If yes, give details.

Yes. Our institute-Medical college and hospitals have obtained the ISO certificate for quality management system in the form of ISO 9001:2008 and ISO 14001:2004. Our diagnostic laboratories are accredited under ISO 15189:2012 and NABL 112 by National Accreditation Board for Laboratories (NABL) since 2008. Our blood bank is the first in our state to be accredited by National Accreditation Board for Hospitals and Healthcare Providers.

50. Briefly highlight the contributions of the institution in generating new knowledge, basic or applied.

The generation of new knowledge from the institution is through research activities. In 2014 the faculty of the institution have published more than 500 papers. The faculty of the institution are invited as experts to deliver talks/share their experiences during various national and international conferences. Faculty also publish books which has helped in dissemination of knowledge.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the institution.

NA

52. Future plans of the institution.

NA

1. **Name of the Department:** Department of Physiotherapy
2. **Year of establishment:** 1995
3. **Is the Institution part of the university?**
Yes
4. **Names of programs offered (UG, PG, PharmD, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M./M.Ch., Super specialty fellowship, etc.)**
UNDERGRADUATE: Bachelor of Physiotherapy (BPT)
POSTGRADUATE DEGREE: Master of Physiotherapy (MPT) in specialties of – Orthopaedics, Neuroscience, Cardiopulmonary science, Community Physiotherapy, Paediatrics
Ph.D
5. **Interdisciplinary programs and departments/institutions involved:** Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
7. **Details of programs discontinued, if any, with reasons :** Nil
8. **Examination System:** Annual/Semester/Trimester/~~Choice Based Credit System~~
9. **Participation of the institution in the courses offered by other institutions:** Nil
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor/Reader	3	3	3
Assistant Professor	7	7	7
Lecturer	0	0	0
Tutor / Clinical Instructor	1	1	1

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr.Amitesh Narayan	MPT, PhD	Professor	M.P.T Community Health	15
Dr. Charu Eapen	MPT, PhD	Assoc. Prof. Senior Scale	M.P.T. Orthopaedic-Hand Rehabilitation	14
Dr. Abraham.M.Joshua	MPT, PhD	Assoc. Prof.-Senior Scale	M.P.T. –Adult Neurology	14
Mr. Vijay Kumar K	MPT	Assoc. Prof.	M.P.T.-Adult Neurology	8
Mr. Gopala Krishna A.	MPT	Asst. Prof. selection grade	M.P.T. Cardiopulmonary-ICU	7
Mr. Zulfeequer C.P	MPT	Asst. Prof. -Senior Scale	M.P.T. Orthopaedic-Sports	10
Mr. Shyam Krishnan K	MPT	Asst. Prof. - Senior Scale	M.P.T. Community Physiotherapy-Geriatrics	7
Mrs. Akshatha Nayak	MPT	Asst. Prof. - Senior Scale	M.P.T.-Adult Neurology	4
Mrs. K.P.Seema	MPT	Asst. Prof. - Senior Scale	M.P.T Orthopaedic-sports	3
Mrs. Princia Caren Pereira	MSc, PT	Asst. Prof.	M.Sc in Applied Physiotherapy	1
Mr. Shreekanth D Karnad	MPT	Asst. Prof.	M.P.T.-Adult Neurology	< 01
Mrs. Molly Cynthia D'Souza	BPT	Asst. Lecturer	-	7

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :Nil

13. Percentage of classes taken by temporary faculty -program-wise information :Nil

14. Program-wise Student Teacher Ratio:8:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Support staff	Sanctioned	Filled
Clerk	1	1
General Duty Worker	1	1
House Keeping Staff	1	1
Total	3	3

16. Research thrust areas as recognized by major funding agencies:Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration

Nil

19. Institutional projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- state recognition :Nil
- national recognition :Nil
- international recognition:Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies :Nil

22. Publications last three years

- * Number of papers published in peer reviewed journals (national / international)

Year	Publications		Total
	National	International	
2012	10	22	32
2013	8	8	16
2014	5	6	11

- * Monographs: Nil
- * Chapters in Books: Nil
- * Books edited: Nil
- * Books with ISBN with details of publishers : Nil
- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)
Citation Index – range / average
- * SNIP
- * SJR
- * Impact Factor – range / average
- * h-index

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated :

Income generated through clinical Inpatient and out patient services in year 2014 is following –

Physiotherapy unit , KMC Hospital , Ambedkar circle Rs. 37,87,159

Physiotherapy unit , KMC Hospital , Attavar Rs. 23,70,916

Physiotherapy unit , KMC Bejai Rs. 7,49,245 TOTAL - Rs. 69,07,320

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (specify) -

Dr. Amitesh Narayan- National initiative for Allied Health Sciences – Task force group- Physiotherapy; Ministry of Health & Family welfare, New Delhi.

Dr. Amitesh Narayan – Critical reviews in Physical and Rehabilitation Medicine.
(Editorial Board Member)

27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

Faculties mandatorily attend Pedagogy and personal effectiveness workshop conducted by Medical Education, Manipal University. Faculties are invited for presentation of research papers at national, International conferences.

28. Student projects

- Percentage of students who have taken up in-house projects including inter-departmental projects \approx 100%
- Percentage of students doing projects in collaboration with other universities / industry / institute : Nil

29. Awards / recognitions received at the national and international level by

- Faculty

Year	Name of the Faculty	Award detail
2014	Vijaya Kumar K	Third place for “Dementia : Can we Reduce the risk” held at Kasturba Medical College Hospital, Attavar

- **Doctoral / post doctoralfellows :** Vijaya Kumar K and Mr. Gopala Krishna A.
- **Students**

Name of the Student	Award detail
P Satya Sai SivaTejaa - II Year PG	2 nd Prize for poster presentation at National Physiotherapy Conference-Physio Colloquium 2014 held at Hyderabad.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. Nil

31. Code of ethics for research followed by the departments

Research in the institution is carried out by adhering to the guidelines laid down by the University and in accordance with ICMR guidelines. All the research projects/studies carried out after clearance from Institutional Ethics Committee which is formed on the recommendations and guidelines of ICMR. Workshops are conducted regularly. Every batch of Post graduate student has an orientation programme on research methodology. Further, the research protocols are scrutinized at the Department level and by the scientific committee for scientific aspects and by the Institutional Ethics Committee for ethical aspects. The University had instituted the UNESCO chair in Bioethics and regular discussions and lectures on ethical issues are conducted.

32. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
BPT	947	12	32	50%	62%
MPT	161	2	9	100%	89%

33. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MPT	-	18	82	-
BPT	-	20	80	-

34. How many students have cleared Civil Services and Defense Services examinations, and other competitive examinations? Give details category-wise.

FCCPT(Foreign Credentialing Commission on Physical Therapy) - 7No's

CAPR (Canadian Alliance of Physiotherapy Regulators) - 3No's

WES (World Education Services)- 8 No's

ECEI (Educational Credential Evaluators , Inc) USA- 1 No.

HCPC (Health & Care Professions Council)UK- 1 No.

35. Student progression

Student progression	Percentage against enrolled
UG to PG	50%
PG to M.Phil,DM / M Ch / DNB	
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	Campus selection nearly 90%
Entrepreneurs	10%

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	75%
from other universities within the State	8.3%
from universities from other States	16.7%
from universities outside the country	Nil

37. Number of faculty who were awarded M.Phil.,DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period :

- faculty was awarded PhD during 2014-1

38. Present details of institutionalinfrastructural facilities with regard to

a) Library

KMC Central Library is a modern, fully air-conditioned library with a seating capacity of more than 500, with internet facility. The library has over 40,594 books and close to 22,000 journals. Moreover, the library subscribes to about 290 journals annually. The faculty and students can access various important medical journals both through intranet as well as Internet facility. “Easy lib” - an automated Library management system. E-PAC & O-PAC packages are available to the students for library catalogues. The institution subscribes to most of the peer reviewed national and international journals having a high impact factor. The library also has facilities for e-learning also. Each Department also has a department library which acts as a ready source for reference and many a times avoids the need to go to the library. It also provides an opportunity for the staff to point out the relevant sections in the books which helps in clarifying matters to students.

b) Internet facilities for staff and students:

The students are guided and encouraged to hone their computer skills during the various presentations that they make. All the hostels and departments are Wi fi enabled. Further the institution ensures that computer applications are used in courses in the medical school. Some of these are:

- Computerized bibliographic search.
- Computerized instructional programmes like PowerPoint used as study aids.
- Usage of internet or other on-line content-based programmes originating from outside the institution.
- On-line content-based programs originating within the institution and distributed

through local area network or net-browser technology (E-learning).

- “Easy lib” - an automated Library management system. E PAC & O-PAC packages are available to the students for library catalogues.
- Hands on training in using statistical softwares like SPSS
- The library facilities are also available through internet facility.

c) **Total number of class rooms-2**

d) **Class rooms with ICT facility and ‘smart’ class rooms :1**

e) **Students’ laboratories 2**

f) **Research laboratories :Nil**

39. List of doctoral, post-doctoral students and Research Associates

a) **from the host institution/university :2** Doctoral student

b) **from other institutions/universities :Nil**

40. Number of post graduate students getting financial assistance from the university :11
post graduate (MPT) students

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology :Nil

42. Does the institution obtain feedback from

a. **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the institution utilize the feedback?**

No

b. **students on staff, curriculum and teaching-learning-evaluation and how does the institution utilize the feedback?**

No

c. **alumni and employers on the programs offered and how does the institution utilize the feedback?**

No

43. List the distinguished alumni of the institution(maximum 10)

1. Pramod D shenoy,- HOD- Physiotherapy, Faculty of Medicine and Health Sciences (FMHS), UniversitiTunku Abdul Rahman (UTAR), Malaysia.
2. Manisha Parai.- Physiotherapist, Faculty of Medicine and Health Sciences (FMHS), UniversitiTunku Abdul Rahman (UTAR), Malaysia.
3. Pratyush Reddy Chamala – Physiotherapist, Michigan - USA
4. Shiva Chaitanya Reddy –Physiotherapist, London - United Kingdom
5. Mr. Subhransu Mohan Samanta- Physiotherapist, Michigan, USA.

6. Dr. Ravishankar Reddy, Assistant Professor, College of Applied Medical Sciences, King Khalid University, Saudi Arabia.
7. Dinesh G, Lecturer, College of Applied Medical Sciences, King Khalid University, Saudi Arabia.

44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

Prosthetic and orthotic classes are organized as special lectures for 3rd BPT students annually from Endolite India Pvt.Ltd. staff.

For Postgraduates topic based workshops are organized periodically.

45. List the teaching methods adopted by the faculty for different programs including clinical teaching.

Didactic lectures, clinical discussions, slide seminars, bedside clinics, Journal Club, and case based learning in each clinical units.

46. How does the institution ensure that program objectives are constantly met and learning outcomes are monitored?

Detailed Lesson plan is prepared by faculty members for their scheduled classes and monthly staff meeting is organized to monitor the academic schedule, lesson plan and progresses. Periodically all batches of undergraduates and postgraduates are invited for meeting with HOD in the presence of respective class co-ordinators and feedback for corrected measures are discussed in staff meeting for any decision.

Minutes of meeting sent to Dean's office.

47. Highlight the participation of students and faculty in extension activities.

Treatment of patients through community camps. Active participation of students encouraged for social activities like Students cultural program, fresher's meet, World Physiotherapy day, RastriyaEktha Divas, World Health day, SwatchhaBharathAbhiyaan, Independence day and Republic day.

48. Give details of "beyond syllabus scholarly activities" of the institution.

- Encouragement of Short term research projects by Interns and final years.
- Assistance in publication of original research projects in national and international publications to undergraduates and postgraduates.
- Encourages to participate and academic papers in national and international conferences to undergraduates and postgraduates.

49. State whether the program/ institution is accredited/ graded by other agencies? If yes, give details.

Nil

50. Briefly highlight the contributions of the institution in generating new knowledge, basic or applied.

Conducting research

Publishing research articles in high impact journals

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the institution.

Strengths:

- Autonomy
- Faculty
- Infrastructure
- Leadership
- Manipal values

Weakness:

- Lack of unitary campus
- Space Constraint
- Traditional curriculum delivery & assessment
- Quality of students

Opportunities:

- New specialties
- Collaborative Research
- Public Private partnership for community camps
- Scope for developing center of excellence

Challenges:

- Identifying quality research sponsorships.
- Lack of jobs
- Lack of funding for clinical trials in rehabilitation.
- Rising cost of education

52. Future plans of the institution.

Based on SWOC, the department has developed a strategic plan and is going about implementing it in a systematic manner. The strategic plan focuses on:

- a. Ensuring that we are self-sufficient
- b. Strengthening our capability to attract outstanding students and faculty
- c. Strengthening our clinical teaching capabilities
- d. Strengthening our Physical rehabilitation theoretical concepts into practice
- e. Strengthening research in Physiotherapy rehabilitation based on the needs of advancement in clinical outcomes.

1. Name of the Department:

Dept of Audiology and Speech Language Pathology, Mangalore

2. Year of establishment: 06/07/2006

3. Is the Institution part of the university? Yes

4. Names of programs offered

Undergraduate course: BASLP

Postgraduate course: MASLP

Doctoral Course: Ph.D.

5. Interdisciplinary programs and departments/institutions involved:

Regular Clinical conference and Journal Club meetings allows interdepartmental management of clinical challenges and it is held on a regular basis. This forum allows the graduates/post-graduates and interns to actively interact with experts of other departments enabling them to have a holistic approach on assessment and treatment aspects. The under-graduates, interns, and post-graduates are posted in the Department of Neurology and Department of ENT to get exposed to the inter-disciplinary approaches towards the assessment and management of the patients. Interdepartmental collaborations are in practice for the PG dissertations also.

6. Courses in collaboration with other universities, industries, foreign institutions, etc. Nil

7. Details of programs discontinued, if any, with reasons: Nil

8. Examination System:

Annual for PGs and Semester for UGs

9. Participation of the institution in the courses offered by other institutions
Nil

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor/Reader	1	1	1

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Assistant Professor	12	12	12
Lecturer	-	-	-
Tutor / Clinical Instructor	-	-	-
Senior Resident	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. Jayashree S. Bhat	PhD, MSc, MA	Professor & Head	Audiology & Speech Language Pathology	30
Dr. Radish Kumar	PhD, MSc SLP	Assoc. Prof.	Speech Language Pathology	7
Mr. Kaushlendra Kumar	MSc Audiology	Asst. Prof. – Selection Grade	Audiology	8
Mr. Arivudai Nambi	MSc Audiology	Asst. Prof. – Selection Grade	Audiology	7
Mr. Somashekara H.S	MASLP	Asst. Prof. – Selection Grade	Audiology & Speech Language Pathology	6
Mr. Rajesh Ranjan	MASLP	Asst. Prof. – Senior Scale	Audiology & Speech Language Pathology	10
Mrs. Deepa N Devadiga	MASLP	Asst. Prof. – Senior Scale	Audiology & Speech Language Pathology	5
Ms. Rashmi Ananth Pai	MASLP	Asst. Prof., Senior Scale	Audiology & Speech Language Pathology	6
Mr. Sudhin Karuppali	MSc SLP	Asst. Prof. – Senior Scale	Speech Language Pathology	5
Ms. Aiswarya Liz Varghese	MASLP	Asst. Prof. – Senior Scale	Audiology & Speech Language	10

Name	Qualification	Designation	Specialization	No. of Years of Experience
			Pathology	
Mr. Gagan Bajaj	MASLP	Asst. Prof. – Senior Scale	Audiology & Speech Language Pathology	3
Mr. Mohan Kumar K	MSc Audiology	Asst. Prof. – Senior Scale	Audiology	3
Mr. Muthuraj	MASLP	Asst. Prof.	Audiology & Speech Language Pathology	3
Ms. Anuradha Shastri	MASLP	Asst. Prof.	Audiology & Speech Language Pathology	<01

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

Name	Qualification	Designation	Specialization	No. of Years of Experience
Mr. Ganesh Prabhu	MSc. Physics	Professor	Acoustics	37
Dr. Basanthi Devi	M. Litt in Linguistics & Phonetics	Professor	Linguistics	34
Mrs. Sona Sahadev	B.Tech in Electronics & Communication	Lecturer	Electronics	2

13. Percentage of classes taken by temporary faculty – program-wise information:

Nil

14. Program-wise Student Teacher Ratio

10:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

Support staff	Sanctioned	Filled
Clerk	1	1
Lab assistant	2	2
General duty worker	1	1
Total	4	4

16. Research thrust areas as recognized by major funding agencies

Technology Intervention for Elderly (DST)

Technology Intervention for Disabled and Elderly (DST)

Cognitive Science Research Initiative (DST)

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Name of the Faculty	Project Title	Funding Agency	Grants Received (Rs)
Dr Jayashree S Bhat & Mrs. Deepa N	Profiling selected speech characteristics in geriatrics	DST, Govt of India	16,34,506/
Dr. Jayashree S. Bhat, Mr. Kaushlendra Kumar	Neurocognitive – linguistic processing skills in children with Learning Disabilities : An insight into identification and management	DST, Govt of India	16,43,600/
Dr. Jayashree S. Bhat, Mr. Gagan Bajaj	A cognitive communicative self-learning tool	DST, Govt of India	49,00,000/

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

Name of the Faculty	Project Title	Collaborative institution	Grants Received (Rs)
Mr. Arivudai Nambi	Critical band based frequency compression and speech perception in noise in individuals with cochlear hearing loss	All India Institute of Speech and Hearing, Mysore	3,00,000/-
Mr. Arivudai Nambi	Effect of Age on Spectral and Temporal Processing	Manipal institute of Technology	Nil

19. Institutional projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

DST funding Rs79,78,106/- Details are provided as response to question number 16.

20. Research facility / centre with

- **State recognition:** Nil
- **National recognition :** Nil
- **International recognition :** Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies:

Nil

22. Publications between January and December 2014

- * Number of papers published in peer: 19 reviewed journals (national / international)
- * Monographs: Nil
- * Chapters in Books: Nil
- * Books edited: 1
- * Books with ISBN with details of publishers: 978-1-292-06797-1 by Pearson Education Limited

- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)

Year	Data base	Number
2014	Pubmed	1
	EBSCO host	4
	Google Scholar	14
	Scopemed	4
	CrossRef	4
	Proquest	3

- * Citation Index – range / average : Nil
- * SNIP : 0.142
- * SJR : 0.129
- * Impact Factor – range / average : 0-0.128
- * h-index : 1 - 4

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions/industries in India and abroad : Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (specify)

National Committees : Dr. Jayashree Bhat, Member for National Curricula Taskforce on Curricula standardization process for the allied health professions
Mr. Arivudai Nambi, Executive council member for Indian Speech andHearing Association

International Committees: Nil

Faculty in Editorial Boards:

- Dr. Jayashree S. Bhat (Editor for International Journal of Advanced Speech and Hearing Research)

- Dr. Radish (Associate editor for Journal of Indian Speech and Hearing Association)
- Mr. Kaushalendra Kumar (Editorial member of International Journal of Speech Language Pathology and Audiology)

27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

Faculty continuously update their knowledge or skills by taking part in workshops and seminars conducted in house as well as in other institutions. Their learning extends to Continued Medical Education programs conducted by the Medical Education Department of KMC, Mangalore.

28. Student projects

- Percentage of students who have taken up in-house projects including inter-departmental projects: 30%
- Percentage of students doing projects in collaboration with other universities / industry/institute: Nil

29. Awards / recognitions received at the national and international level by

- Faculty

Name of the faculty	National/ International	Award detail
Dr. Jayashree S. Bhat Ms. Anuradha Shastry	National	Consolation prize for the innovation 'Eye Tracking AAC for Individuals with Communication Challenges' during Innovation day conducted on 20 th December, 2014 at Manipal.
Mr. Gagan Bajaj	International	"Best Paper Award" for the paper titled "Skipping Breakfast!! Does it Possess deleterious effect on the Verbal Fluency?" presented at International conference on recent advances in Cognition and Health (ICRACH- 2014) held at Department of Psychology, Banaras Hindu University (BHU), Varanasi between 23 rd & 25 th January, 2014.
Mr. Arivudai Nambi	National	'Manohar Memorial Award for best paper in Audiology for the paper titled 'Contribution of amplitude modulations for concurrent stream segregation: A probe through object related negativity' at the National Conference of India Speech and Hearing Association 46 th ISHACON held at Cochin, Kerala between 7 th & 9 th February 2014.

- **Doctoral / post-doctoral fellows** : Nil
- **Research Associate**

Name of the research fellow	National/ International	Award detail
Mr. Anshul Arora	National	‘Shaila Vora Award’ for best paper in Language for the paper titled ‘A test of cognitive linguistic abilities’ presented at the National Conference of India Speech and Hearing Association 46 th ISHACON held at Cochin, Kerala between 7 th & 9 th February 2014.

- **Students**

Name of the student	National/ International	Award detail
Ms. Delora Serrao Ms. Dashika G.M Ms. Nikitha Theruvan	National	‘Manohar Memorial Award for best paper in Audiology for the paper titled ‘Contribution of amplitude modulations for concurrent stream segregation: A probe through object related negativity’ at the National Conference of India Speech and Hearing Association 46 th ISHACON held at Cochin, Kerala between 7 th & 9 th February 2014.

30. Seminars/Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. : Nil

31. Code of ethics for research followed by the departments

Research is encouraged at both under-graduate and post-graduate levels, by adhering to the guidelines laid down by the University. Every batch of Post graduate student has an orientation programme on research methodology. The research protocols of the post-graduates are scrutinized at the Department level as well as the scientific committee for scientific aspects and by the Institutional Ethics Committee for ethical aspects.

32. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
BASLP		0	24	-	75
MASLP		4	7	50	71.42

33. Diversity of students:

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
BASLP	--	26.66	73.33	--
MASLP	22.22	72.22	5.55	--

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise

IELTS: 5

35. Student progression

Student progression	Percentage against enrolled
UG to PG	91.66
PG to M.Phil, DM / M Ch / DNB	--
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	--
Employed	
• Campus selection	25%
• Other than campus recruitment	60%
Entrepreneurs	15%

36. Diversity of staff

Percentage of faculty who are graduates	
Of the same university	67%
From other universities within the State	26%
From universities from other States	7%
From universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period : Nil

38. Present details of institutional infrastructural facilities with regard to:

a) Library:

The Central Library of KMC is air-conditioned, having a seating capacity of more than 500, with internet facility. The library houses over 40,594 books and 22,000 journals. The Department of Audiology and Speech Language Pathology includes over 500 speech and hearing books, 3 journals (print) and 21 online journals. Both the faculty and students can access their desired journals through both the intranet and internet facilities. “Easy lib” - an automated Library management system, E-PAC & O-PAC packages are available to the students for library catalogues. The Department of Audiology and Speech Language Pathology also has a department library which acts as a readily accessible source at all times.

b) Internet facilities for staff and students:

Internet facilities are accessible to all the faculty and students. Each faculty has been provided with a laptop which has been configured to access the Wi fi enabled for official purposes. The students can access the internet from the library using their laptops as well as use the available desktops. Moreover, the hostels have also been enabled with Wi fi.

c) Total number of class rooms

The UG and PG classes are conducted in 3 large classrooms which has a seating capacity of 100 students. Classrooms are air-conditioned and fitted with PA system, cordless microphone and LCD projectors. In addition we have a demonstration room which can seat about 15-20 students which is mainly utilized for small group teaching.

d) Class rooms with ICT facility and ‘smart’ class rooms

All the class rooms are with ICT facility

e) Students’ laboratories : Nil

f) Research laboratories : Nil

39. List of doctoral, post-doctoral students and Research Associates

a) From the host institution/university : 7 Doctoral students

b) From other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university : 10

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology : Nil

42. Does the institution obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the institution utilize the feedback?

The curriculum is approved by the Rehabilitation Council of India, governing body and adopted by Manipal University. Annual feedbacks are taken from the faculties about the curriculum transaction, evaluation protocols for both UG and PG batches. The input is utilized for the modification and implementation.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the institution utilize the feedback?

Faculty evaluations by the students are conducted annually and feedback is shared for application. Faculty evaluation is factored in for the performance appraisal of staff members. However, feedbacks regarding the curriculum are not taken as it is governed and specified by the Rehabilitation Council of India.

c. Alumni and employers on the programs offered and how does the institution utilize the feedback? :

No

43. List the distinguished alumni of the institution (maximum 10)

Sl. No.	Name of the Alumni	Batch	Current Position/Achievement
1.	Christina Jean	2009-2011	Clinical Audiologist, NHS, Exeter, United Kingdom
2.	Kuriakose	2009-2011	Clinical Audiologist, Ministry of Health, Salalah, Sultanate of Oman
3.	Jinu Jacob	2009-2011	Clinical Audiologist, icommunicate speech language and hearing clinic, Muscat, Sultanate of Oman
4.	J. M. Asela	2009-2011	Lecturer in Audiology, University of Kelaniya, Srilanka
5.	Pearl D'Costa	2009-2011	Clinical Audiologist, Lifeline Hospital, Jebel Ali, Dubai, UAE

6.	Ashwini Guttedar	2009-2011	Entrepreneur, Speech & Hearing rehabilitation center, Bangalore, India
7.	Payal Mukhi	2010-2012	Entrepreneur, Speech & Hearing care center 1st floor, Good Bakery NISHATGANJ ,LUCKNOW
8.	Ketaki Padke	2011-2013	PhD scholar, University of Netherlands
9.	Teja Dessai	2011-2013	Lecturer in Audiology, Nitte Institute of Speech and Hearing, Mangalore, Karnataka India
10.	Sharon	2013-2015	Lecturer in Speech Language Pathology, AWH institute of Speech and Hearing, Calicut, Kerala, India

44. Give details of student enrichment programs (special lectures/workshops/seminar) involving external experts.

Sl. No.	Topic	Guest Speaker	Date of Conduct
1	Basic Audiological Assessment	Dr Ajith Kumar U	8 th , 9 th & 10 th October 2014
2	Universal new born hearing screening in Indian Scenario	Dr Sujith Kumar Sinha	12 th October 2014

45. List the teaching methods adopted by the faculty for different programs including clinical teaching.

The teaching practiced in the department uses a combination of different strategies which include:

- Educational lectures
- Clinical discussions (clinical conference)
- Interactive sessions
- Case presentations
- Journal clubs
- Technological and research updates
- Peer exchanges
- Viva-voce

These strategies are based upon developing the theoretical and practical know-hows on methods to deal with patients. The students also achieve independency in handling diverse clinical populations, and also ensuring their overall achievement in domains pertaining to problem solving, attitudinal adjustments, and ethics.

46. How does the institution ensure that program objectives are constantly met and learning outcomes are monitored?

Class-coordinators have been assigned for each batch, each of whom is responsible for the smooth transmission of the academic program of their respective batch. Individual faculties also undertake the clinical practicum for their respective batch. Unit plans are prepared, with annual reviews for the smooth functioning of the services by the department. Monthly faculty meetings are organized to monitor the academic and clinical services. Feedbacks are given for corrective measures if required. The minutes of the meeting are sent to the Dean's office.

47. Highlight the participation of students and faculty in extension activities.

Outreach activities:

The department offers services at Canara school for the needs of children with learning disabilities, and St. Agnes school, for children with special needs. Professional activities are extended towards the camps, which are conducted regularly.

48. Give details of “beyond syllabus scholarly activities” of the institution.

• **Workshops attended by faculty:**

Sl.No	Workshop	Faculty attended
1.	Symposium on ‘Cognition: Cell to System’ on 21 st & 22 nd February, 2014, held at Manipal.	Dr. Jayashree. Bhat Mrs. Deepa Devadiga Mr. Sudhin Karuppali Mr. Gagan Bajaj
2.	CME on “Head and Neck Cancer: A Multidisciplinary Update” on 30 th October, 2014, held at Mangalore College of Dental Sciences, Mangalore.	Mrs. Deepa N Devadiga
3.	Workshop on “A Three part treatment plan for Oral Placement Therapy on 9 th & 10 th Nov 2014, Gurgaon.	Mrs. Deepa N Devadiga
4.	Workshop on “Mentoring of medical students” organized by KMC Mangalore on 11th January 2014.	Mr.Kaushlendra Kumar
5.	Pre-conference workshop title ‘Dysphagia: No more an unknown entity’ at the 47th Annual Convention of the Indian Speech and Hearing Association held at Manipal from 30th – 31st December, 2014.	Mr. Sudhin Karuppali Mrs. Aiswarya Liz Varghese

6.	Pre-conference workshop title 'Laryngectomy: An Overview' at the 47th Annual Convection of the Indian Speech and Hearing Association held at Manipal from 30th – 31st December, 2014.	Mrs. Aiswarya Liz Varghese
7.	Pre-conference workshop title 'Assessment of acquired reading and writing impairments' at the 47th Annual Convection of the Indian Speech and Hearing Association held at Manipal from 30th – 31st December, 2014.	Mr. Sudhin Karuppali

• **Conferences attended by faculty:**

Sl.no	Conference	Faculty attended
1.	7 th KSB ISHACON held at Felicity Square, Thriuvananthapuram on 9 th & 10 th August 2014.	Dr. Jayashree S. Bhat
2.	4 th European Society for Swallowing Disorders Congress: Dysphagia Across Ages held at Brussels 44 Center (B44C), Brussels on 23-25 th October, 2014	Dr. Jayashree S. Bhat Dr. Radish Kumar B
3.	Second Meeting of Task Force on Cognitive Science held by DST-CSRI on 7 th and 8 th November 2014 at Institute for Communicative and Cognitive Neurosciences (ICCONS), Shoranur, Kerala	Dr. Jayashree S. Bhat
4.	46 th National Conference of Indian Speech and Hearing Association on 7 th , 8 th & 9 th February, 2014, held at Kochi.	Mrs. Deepa N Devadiga Mr. Rajesh Ranjan Mr. Gagan Bajaj Mr. Muthuraj
5.	“International Conference on Aging Well- Managerial and Social Challenges (ICAW-2014) held at SCMS COHIN SCHOOL OF BUSINESS, on 17th, 18th& 19th January, 2014 held at Kochin.	Mrs. Deepa N Devadiga
6.	1 st TRI-ELE International Conference – “Toward Global English Horizons” at Bangkok, Thailand between 20 th -21 st June 2014.	Mr. Sudhin Karuppali
7.	International conference on Recent advances on cognitive and health at Banaras Hindu University, Varanasi on 23rd – 25th January, 2014.	Mr. Gagan Bajaj
8.	International Psychology Conference Dubai 2014 hosted by Heriot Watt University, School of Life Sciences at their Dubai Campus on October 17-18th 2014 at the Heriot Watt University, Dubai.	Mr. Gagan Bajaj

9.	National Symposium on Acoustics 2014 held at All India Institute of Speech and Hearing, Mysore, Karnataka on 12 th -14 th November 2014.	Mr. Mohan
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• **Conferences attended by students:**

Sl.no	Conference	Students attended
1.	46 th National Conference of Indian Speech and Hearing Association on 7 th , 8 th & 9 th February, 2014, held at Kochi.	Ms. Nayana P Kumar Ms. Shrunga M.S Ms. Delora Serrao Ms. Harsha Haridas Mr. Thejaswi D Ms. Ketaki Vasant Phadke Ms. Aimy Eldose Ms. Anuradha Shastry Ms. Nimalka Maria Sequeira Mr. Abin K.V

• **Conference presentations by faculty:**

Sl.no	Faculty	Conference presentation
1.	Dr. Jayashree S. Bhat	<ul style="list-style-type: none"> Presented on “Dysphagia in children-Bird’s eye-view” in the pre-conference of 46th National Conference held at Amrita Institute of Medical Sciences, Kochi, Kerala on 6th February 2014 Presented on “Efficacy of Manipal Manual of Swallowing Assessment (MMSA) in the identification of aspiration” in the 4th Congress of European Society for Swallowing Disorders on Dsyphagia across ages at Brussels, Belgium on 23-25th October 2014 Presented her project report (SR/CSI/29/2011) at the Second Meeting of Task Force on Cognitive Science held by DST-CSRI on 7th and 8th November 2014 at Institute for Communicative and Cognitive Neurosciences (ICCONS), Shoranur, Kerala. Presented paper titled “A video based tool for assessment of socio cognitive communication abilities” on Innovation day 2014 held at Manipal Institute of Technology, Manipal University, Manipal on December 20, 2014.

		<ul style="list-style-type: none"> • Presented paper titled “Tap/Text to speak assistive Communication device” on Innovation day 2014 held at Manipal Institute of Technology, Manipal University, Manipal on December 20, 2014. • Presented paper titled “A computer based measure of everyday working memory in adults” on Innovation day 2014 held at Manipal Institute of Technology, Manipal University, Manipal on December 20, 2014.
2.	Dr. Radish Kumar B	Presented a scientific paper titled “Cerebral laterality for swallowing: Evidences from the modified dual task paradigm” at European society for swallowing disorders (ESSD 2014) held on 23 rd -25 th October, 2014 at Brussels, Belgium
3.	Mrs. Deepa N Devadiga	<ul style="list-style-type: none"> • Presented a scientific paper titled “Videokymography: a new approach to portray the vocal fold function was presented in the Annual Conference of Indian Speech and Hearing Association on 7th, 8th & 9th February, 2014, held at Kochin. • Presented a scientific paper titled “Role of relative perturbation measures in evaluation of voice was presented in the Annual Conference of Indian Speech and Hearing Association on 7th, 8th & 9th February, 2014, held at Kochin. • Presented a scientific paper titled “Peak flow measure- an index of respiratory function? presented in the Annual Conference of Indian Speech and Hearing Association on 7th, 8th & 9th February, 2014, held at Kochin. • Presented a scientific paper titled “Self Efficacy and Verbal Fluency- Does Age Play a Role” was presented in the forum of “Aging Well” on 17th, 18th & 19th January, 2014 held at Kochin.
4.	Mr. Sudhin Karuppali	• Presented a scientific paper titled “Understanding proverbial expressions in adolescents between 10-15 years of age” at the 1 st TRI-ELE International Conference – “Toward Global English Horizons” at Bangkok, Thailand between 20 th -21 st June 2014.
5.	Mr. Gagan Bajaj	• Presented a scientific paper titled ‘Is stuttering affecting the rhythm of gesture along with the rhythm of speech – A comparative experiment’ at the 46th Indian Speech and Hearing Association conference (ISHACON) which was held in Kochi between 7th to 9th February, 2014.

		<ul style="list-style-type: none"> • Presented a scientific paper titled ‘Effect of gestures restriction on speech fluency among individual with and without stuttering’ at the 46th Indian Speech and Hearing Association conference (ISHACON) which was held in Kochi between 7th to 9th February, 2014. • Presented a scientific paper titled ‘Can individuals of all ages read mind through eyes? A crossectional study’ at the 46th Indian Speech and Hearing Association conference (ISHACON) which was held in Kochi between 7th to 9th February, 2014. • Presented a scientific paper titled ‘Do puzzles puzzle you when grow old?’ under the guidance of Mr. Gagan Bajaj at the 46th Indian Speech and Hearing Association conference (ISHACON) which was held in Kochi between 7th to 9th February, 2014. • Presented a scientific paper titled ‘Effect of aging on letter and category fluency – flexibility’ at the 46th Indian Speech and Hearing Association conference (ISHACON) which was held in Kochi between 7th to 9th Feb, 2014. • Presented a scientific paper titled ‘Communication related working memory deficits – Does the decline begin as early as fourth decade of life’ at the 46th Indian Speech and Hearing Association conference (ISHACON) which was held in Kochi between 7th to 9th February, 2014. • Presented a scientific paper titled ‘Semantic processing speed and semantic knowledge – Do age differences exist?’ at the 46th Indian Speech and Hearing Association conference (ISHACON) which was held in Kochi between 7th to 9th February, 2014. • Presented a scientific paper titled ‘Skipping Breakfast !!- Does it possess deleterious on verbal fluency abilities?’ at International conference on Recent advances on cognitive and health at Banaras Hindu University, Varanasi on 23rd – 25th January, 2014. • Presented a scientific paper titled ‘Communication related Working memory deficits’ as a short talk at the professional event International Psychology Conference Dubai 2014 hosted by Heriot Watt University, School of Life Sciences at their Dubai Campus on October 17--18th 2014 at the Heriot Watt University, Dubai
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		<ul style="list-style-type: none"> Presented paper titled “A video based tool for assessment of socio cognitive communication abilities” on Innovation day 2014 held at Manipal Institute of Technology, Manipal University, Manipal on December 20, 2014. Presented paper titled “A computer based measure of everyday working memory in adults” on Innovation day 2014 held at Manipal Institute of Technology, Manipal University, Manipal on December 20, 2014.
6.	Mr. Mohan Kumar	<ul style="list-style-type: none"> Presented a scientific paper titled ‘Perception of native and non-native phonemes by Malayalam listeners’ was presented at National Symposium on Acoustics 2014 held at All India Institute of Speech and Hearing, Mysore, Karnataka on 12th-14th November 2014.
7.	Mr. Muthuraj	<ul style="list-style-type: none"> Presented scientific paper entitled “Role of fine structure and envelope in the perception of interaural time difference” at the 46th National Conference of Indian Speech and Hearing Association on 7th, 8th & 9th February, 2014, held at Kochi.
8.	Mrs. Aiswarya Varghese	<ul style="list-style-type: none"> Presented paper titled “Tap/Text to speak assistive Communication device” on Innovation day 2014 held at Manipal Institute of Technology, Manipal University, Manipal on December 20, 2014.

- Conference presentations by students:**

Sl.no	Students	Conference presentation
1.	Ms.Harsha Haridas	<ul style="list-style-type: none"> Presented paper titled “Association of consonant identification with frequency following responses for harmonic complex and tonal sweeps’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th February ,2014.
2.	Mr.Thejaswi D	presented paper titled ‘Does temporal coordination between onset of swallow & onset of apnea varying in healthy aged population’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7 th and 9 th February ,2014.
3.	Ms.Ketaki Vasant Phadke	<ul style="list-style-type: none"> Presented two papers titled ‘Nonlinear dynamic analysis of voice in teachers with dysphonia’ and ‘Video kymography : A new approach to portray the vocal fold function’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th Feb 2014.

4.	Ms. Nayana P Kumar	<ul style="list-style-type: none"> Presented paper titled ‘Communication related working memory deficits – Does the decline begin as early as fourth decade of life’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th February ,2014. Presented paper titled ‘A computer based measure of everyday working memory in adults’ during the Innovation day held at KMC Mangalore on 20th December,2014.
5.	Ms. Shrunga M.S,	<ul style="list-style-type: none"> presented paper titled ‘Semantic processing speed and semantic knowledge – Do age differences exist?’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th February ,2014.
6.	Ms.Delora Serrao	<ul style="list-style-type: none"> presented paper titled ‘Contribution of amplitude modulations for concurrent stream segregation: A probe through object related negativity’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th February ,2014. presented paper titled ‘Software to assess temporal fine structure sensitivity and working memory for the prescription of electroacoustic features of hearing aid’ during the Innovation day held at KMC Mangalore on 20th December,2014.
7.	Mr. Abin K.V	<ul style="list-style-type: none"> presented paper titled ‘Associations of blood group and fine spectral changes in acoustic emissions’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th February ,2014.
8.	Ms. Aimy Eldose	<ul style="list-style-type: none"> presented paper titled ‘Role of fine structure & envelope in the perception of interaural time difference’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th February ,2014.
9.	Ms. Anuradha Shastry	<ul style="list-style-type: none"> presented two papers titled ‘Acoustic & Perceptual analysis of voice in individuals with COPD and ‘Acoustic & Perceptual correlates of voice in Indian Hindu Purohits’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th Feb 2014.
10.	Ms. Nimalka Maria Sequeira	<ul style="list-style-type: none"> Presented paper titled ‘Measuring VEMP using 2 different procedures’ at the Indian Speech and Hearing Association conference (ISHACON 46) held in Kochi, between 7th and 9th February ,2014.

- **Talks delivered:**

Sl.no	Faculty	Talk delivered
1.	Dr. Jayashree S. Bhat	<ul style="list-style-type: none"> • Delivered a lecture at the Symposium on ‘Cognition: Cell to System’ on 21st & 22nd February, 2014, held at Manipal. • Delivered a lecture on “Clinical Correlates of language manifestations following Right Hemisphere Damage” in the ICMR co-sponsored & RCI recognized CRE Programme-3 days of National Seminar on “Assessment of Neurogenic Communication Disorders: Illustrative Case Studies” held from 21st 23rd August 2014 at ISH Bangalore. • Delivered a lecture on “Clinical Correlates of language manifestations in Schizophrenia/Psychiatric Disorders” in the ICMR co-sponsored & RCI recognized CRE Programme-3 days of National Seminar on “Assessment of Neurogenic Communication Disorders: Illustrative Case Studies” held from 21st 23rd August 2014 at ISH Bangalore. • Delivered a lecture on “Troubleshooting everyday clinical errors- A reflection to basics” in the 7th Annual Convention held at Felicity Square, Thiruvananthapuram on 9th and 10th August 2014. • Delivered a lecture on “Dysphagia-where is the Monster” as part of Pre-Conference Seminar/Workshop titled “Dysphagia; No more an unknown entity” held at Manipal from 30th to 31st December, 2014.
2.	Dr. Radish Kumar B	<ul style="list-style-type: none"> • Dysphagia assessment and management” at HAC center for speech therapy, Chennai on July 2014. • Dysphagia: What do we look for and how? at the 47th National conference of Indian Speech and Hearing Association held at Manipal from 30-31st Dec 2014.
3.	Mrs. Deepa N Devadiga	“Swallow Brain and Body” as part of pre-conference workshop titled on Dysphagia- No more on unknown entity, in the forum of Indian Speech and Hearing Association, on 30 th & 31 st December, 2014 held at Manipal
4.	Mr.Kaushlendra Kumar	“Calibration of equipments related to Audiology & speech language pathology” organized by department of Speech and Hearing, Mangalore academy of professional studies at Mangalore, from 27/02/2014 to 01/03/2014.

- Students are eligible for financial support for research, publication of research findings & to present research papers at National and International conferences.
- Students are encouraged to participate in Innovation Day conducted by the Manipal University Technology Business Incubation (MUTBI)
- Intercollegiate extracurricular activities

49. State whether the program/ institution is accredited/ graded by other agencies? If yes, give details : Nil

50. Briefly highlight the contributions of the institution in generating new knowledge, basic or applied.

- Conducting research
- Publishing research articles in indexed journals
- Text book writing in the field of specialty

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the institution.

Strengths	Weaknesses	Opportunities	Challenges
University back up	Lack of campus	Infrastructure	Competition
Student teacher ratio	Lack of identity	Research collaboration	Student failure rate in allied subjects
Faculty	Space constraint	Career progression	NRI students
Faculty/student research	Curriculum plan	Regular knowledge updates	Commuting between clinical and academic setup
Research grants	Disable friendly approach to classroom	Course expansion	Library resource

52. Future plans of the institution.

- Comply with regulatory and statutory requirements
- Enhancing research
- Improving clinical variety and load

1. Name of the Institution: Manipal College of Dental Sciences, Mangalore

2. Year of establishment: 1987

3. Is the Department part of a school/faculty of the university?

A constituent college of Manipal University

4. Names of programs offered (UG, PG, PharmD, Integrated Masters; M.Phil., Ph.D., Integrated Ph.D., Certificate, Diploma, PG Diploma, D.M. /M.Ch. Super specialty fellowship, etc.)

UG: B.D.S.

PG (M.D.S.): In specialties of Oral Pathology and Microbiology, Oral Medicine & Radiology, Oral and Maxillofacial Surgery, Prosthodontics, Conservative & Endodontics, Periodontology, Paedodontics, Orthodontics, Public Health Dentistry

PG Diploma in Dental Materials

Certificate Course in Restorative Dentistry

Certificate Course in CBCT

Ph.D.

5. Interdisciplinary programs and departments/institutions involved

We do not have any interdisciplinary programmes. We however ensure inter-departmental programmes and some of the key initiatives are:

Clinical Society Meeting allows the highlighting of interdepartmental management of clinical cases and it is held on a regular basis. The meeting allows the Postgraduates to actively interact with experts of other departments enabling them to have a holistic approach on treatment of cases. Clinical case discussion is held between Oral pathology, Oral Medicine and Oral Surgery

Oral Implantology program involves collaboration of Prosthodontics, Oral Medicine, Periodontology and Oral Surgery

Programs in Restorative Dentistry conducted by three departments together, that is Conservative dentistry, Periodontology and Prosthodontics.

CBCT training program conducted by Oral Medicine involves all the Clinical departments.

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

Nil

7. Details of programs discontinued, if any, with reasons

Nil

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

Annual

9. Participation of the institution in the courses offered by other institutions

Nil

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Designation	Sanctioned	Filled	Actual (including CAS & MPS)
Professor/Addl. Prof.	21	21	21
Associate Professor/Reader	26	26	26
Assistant Professor/Sr. Grade Lecturer	10	10	10
Lecturer	19	19	19
Tutor / Clinical Instructor	-	-	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. P. Sudha	MDS	Professor	Paedodontics and Preventive Dentistry	32
Dr. Dilip G. Nayak	MDS	Professor & Dean	Periodontology	28
Dr. Mohan Baliga	MDS	Professor & Assoc. Dean	Oral & Maxillofacial Surgery	28
Dr. Ravindra Kotian	M.Tech., PhD	Reader & Head	Dental Materials	26
Dr. M. Kundabala	MDS	Professor	Conservative Dentistry and Endodontics	23
Dr. Ashita S. Uppoor	MDS	Professor & Assoc. Dean	Periodontology	20
Dr. Premalatha. K.	MDS	Professor & Head	Oral & Maxillofacial	18

Name	Qualification	Designation	Specialization	No. of Years of Experience
			Surgery	
Dr. Junaid Ahmed	MDS	Professor & Head	Oral Medicine & Radiology	17
Dr. Arathi Rao	MDS	Professor & Head	Paedodontics and Preventive Dentistry	16
Dr. Ashwini Rao	MDS	Professor & Head	Public Health Dentistry	16
Dr. Thilak Shetty B.	MDS	Professor	Prosthodontics & Crown and Bridge	15
Dr. Suprabha B. S.	MDS	Addl. Prof.	Paedodontics and Preventive Dentistry	15
Dr. Karen Boaz	MDS	Professor & Head	Oral Pathology and Microbiology	14
Dr. Neeta Shetty	MDS	Professor & Head	Conservative Dentistry and Endodontics	14
Dr. Shobha J. Rodrigues	MDS	Professor & Head	Prosthodontics & Crown and Bridge	14
Dr. Deepa G. Kamath	MDS	Professor & Head	Periodontology	13
Dr. Siddarth Shetty	MDS	Professor & Head	Orthodontics	12
Dr. Ravikiran Ongole	MDS	Professor	Oral Medicine & Radiology	12
Dr. Anand Amrithraj	MDS	Addl. Prof.	Oral & Maxillofacial Surgery	10
Dr. Karthik Shetty	MDS	Addl. Prof.	Conservative Dentistry and Endodontics	09
Dr. Rajesh G.	MDS	Addl. Prof.	Public Health Dentistry	09

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. Ashwin P. Rao	MDS	Assoc.Prof.	Paedodontics and Preventive Dentistry	09
Dr. Varghese Chacko	MDS	Assoc. Prof.	Paedodontics and Preventive Dentistry	09
Dr. Umesh Y. Pai	MDS	Assoc. Prof.	Prosthodontics & Crown and Bridge	09
Mrs. Prashanthi S. Madhyastha	MSc	Senior Grade Lecturer	Dental Materials	09
Dr. Ramya Shenoy K.	MDS	Assoc. Prof.	Public Health Dentistry	08
Dr. Arvind R.	MDS	Assoc. Prof.	Oral & Maxillofacial Surgery	08
Dr. Manuel S. Thomas	MDS	Assoc. Prof.	Conservative Dentistry and Endodontics	08
Dr. Ceena Denny E.	MDS	Assoc. Prof.	Oral Medicine & Radiology	08
Dr. Sharon Saldanha	MDS	Assoc. Prof.	Prosthodontics & Crown and Bridge	08
Dr. Srikant N	MDS	Assoc. Prof.	Oral Pathology and Microbiology	08
Dr. Nandita Shenoy	MDS	Assoc. Prof.	Oral Medicine & Radiology	07
Dr. Dharnappa Poojary	MDS	Assoc. Prof.	Oral & Maxillofacial Surgery	07
Dr. Nandita K. P.	MDS	Assoc. Prof.	Oral Pathology and Microbiology	06
Dr. Puttur Laxmish Mallya	MDS	Assoc. Prof.	Conservative Dentistry and Endodontics	06

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. Mahesh M.	MDS	Assoc. Prof.	Prosthodontics & Crown and Bridge	06
Dr. Amitha J. Lewis	MDS	Reader	Oral Pathology and Microbiology	05
Dr. Supriya Nambiar	MDS	Reader	Orthodontics	05
Dr. Swati	MDS	Reader	Periodontology	05
Dr. Vinod Rakesh Jathanna	MDS	Reader	Conservative Dentistry and Endodontics	05
Dr. Mithun Pai B. H.	MDS	Reader	Public Health Dentistry	05
Dr. Joanna Baptist	MDS	Reader	Oral & Maxillofacial Surgery	04
Dr. Shivani Singh	MDS	Reader	Orthodontics	04
Dr. Almas Binnal	MDS	Reader	Oral Medicine & Radiology	04
Dr. Nidhi Manaktala	MDS	Asst. Prof.	Oral Pathology and Microbiology	04
Dr. Sangeetha U. Nayak	MDS	Asst. Prof.	Periodontology	03
Dr. Amit Yadav	MDS	Asst. Prof.	Conservative Dentistry and Endodontics	03
Dr. Nidhin Philip Jose	MDS	Asst. Prof.	Orthodontics	03
Dr. Shreya Hegde	MDS	Asst. Prof.	Conservative Dentistry and Endodontics	03
Dr. Ashith M. V.	MDS	Asst. Prof.	Orthodontics	03
Dr. Puneeth Hegde K.	MDS	Asst. Prof.	Prosthodontics & Crown and Bridge	02

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. Mranali K. Shetty	MDS	Asst. Prof.	Public Health Dentistry	02
Dr. Asavari Laxman Desai	MDS	Asst. Prof.	Orthodontics	01
Dr. Clany D'Souza	BDS	Lecturer	Conservative Dentistry and Endodontics	08
Dr. Deepika C.	BDS	Lecturer	Oral Pathology and Microbiology	04
Dr. Nauya K.	BDS	Lecturer	Prosthodontics & Crown and Bridge	04
Dr. Savitha K. Shenoy	BDS	Lecturer	Paedodontics and Preventive Dentistry	03
Dr. Chithra P. Pai	BDS	Lecturer	Conservative Dentistry and Endodontics	02
Dr. Savil R. Uchil	BDS	Lecturer	Oral & Maxillofacial Surgery	02
Dr. Reena Tripathi	BDS	Lecturer	Oral Medicine & Radiology	02
Dr. Kavitha Ashok	BDS	Lecturer	Public Health Dentistry	01
Dr. Naseera Abdurahiman P.P.	BDS	Lecturer	Public Health Dentistry	01
Dr. Charisma Thimmaiah	BDS	Lecturer	Prosthodontics & Crown and Bridge	01
Dr. Shubhashree	BDS	Lecturer	Prosthodontics & Crown and Bridge	01
Dr. Sujata Deshmukh	BDS	Lecturer	Prosthodontics & Crown and Bridge	01

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. Ruchi Sharma	BDS	Lecturer	Conservative Dentistry and Endodontics	01
Dr. Pallavi Singh	BDS	Lecturer	Paedodontics and Preventive Dentistry	01
Dr. Shailaja B.	BDS	Lecturer	Conservative Dentistry and Endodontics	01
Dr. Joyce Pinky Mendonsa	BDS	Lecturer	Conservative Dentistry and Endodontics	< 01
Dr. Shreya Nayak B.	BDS	Lecturer	Prosthodontics & Crown and Bridge	< 01
Dr. Rukhsar S. Khan	BDS	Lecturer	Prosthodontics & Crown and Bridge	< 01
Dr. Shushma Rao B.	BDS	Lecturer	Public Health Dentistry	< 01

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

Dr. Saphal Mulki Shetty, Adjunct Visiting Professor

Dr. Latha S. Davda, Adjunct Visiting Professor

Dr. Mathai Joseph. K., Adjunct Visiting Professor

13. Percentage of classes taken by temporary faculty – program-wise information

Nil

14. Program-wise Student Teacher Ratio

Program	Student Teacher Ratio
UG: BDS	5:1
MDS – Oral Pathology	7:5
MDS – Oral Medicine	2:1
MDS – Oral Surgery	1:1
MDS – Orthodontics	3:1
MDS – Conservative & Endodontics	11:8
MDS – Prosthodontics	3:1

Program	Student Teacher Ratio
MDS – Paedodontics	2:1
MDS – Public Health Dentistry	3:1
MDS - Periodontology	1:1
Certificate Course in Restorative Dentistry	3:8

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Support staff	Sanctioned	Filled
MANAGEMENT EXECUTIVE	01	01
FINANCE EXECUTIVE	01	01
ACCOUNTANTS	02	02
JUNIOR ENGINEER (SYSTEMS)	01	01
CLERKS	20	20
ENGINEER	01	01
SR. DENTAL HYGIENIST	01	01
LAB. TECHNICIAN	01	01
DENTAL TECHNICIAN	12	12
RADIOGRAPHER	01	01
DENTAL SURGERY ASSISTANTS	30	30
ELECTRICIAN	06	06
HOUSE KEEPING SUPERVISOR	01	01
PHOTOGRAPHER	01	01
DRIVER	03	03
LABORATORY ASST.	08	08
GENERAL DUTY WORKER	14	14
HOUSE KEEPING STAFF	36	36
TOTAL	140	140

16. Research thrust areas as recognized by major funding agencies

Public Health Dentistry
 Conservative & Endodontics
 Oral Medicine & Radiology
 Oral Pathology & Microbiology
 Periodontology
 Dental Materials

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Name of the Faculty	Project Title	Funding Agency	Grants Received (Rs)
Dr. Kundabala M.	Effectiveness of Dental Health Education Program Using Digital Aids in Dental Clinics	Vision Group On Science and Technology, Govt. Of Karnataka	10,00,000/-
Dr. Ramya Shenoy	Effectiveness of Basic Package of Oral Care in Pregnant Women in Primary Health Centres on the Incidence of Early Childhood Caries in their Children- A Cluster Randomized Controlled Trial	Vision Group on Science and Technology, Department of Information Technology, Biotechnology and Science & Technology, Govt. of Karnataka	6,00,000/-
Dr. Neeta Shetty	“Effectiveness Of Dental Health Education On Access and Utilization Of Restorative dental Care Among Rural women associated with Self Help Groups Of Mangalore Taluk- A Cluster Randomized Study”	Sri Kshetra Dharmasthala Rural Development Projects	3,50,000/-
Dr. Ravikiran Ongole	Oncogrid: A mobile health approach to prevention and early diagnosis of Oral cancer	Mc Kesson Foundation, San Francisco, USA, In Collaboration with Boston University, USA and Mazumdar Shaw Cancer Center, Bangalore	1,25,000/-
Ms Ayushi Bajoria	Comparative evaluation of various methods of bacterial counts in dental unit water line in Mangalore Taluk	ICMR, New Delhi	10,000/-

Name of the Faculty	Project Title	Funding Agency	Grants Received (Rs)
Dr. Shreya Hegde Ms Srividhya Aiyer	Effect of finishing /polishing techniques and time on surface roughness of esthetic restorative material	ICMR, New Delhi	10,000/-
Mrs. Prashanthi SM Ms Khyaati Gidwani,	In vitro Evaluation of Sealing ability and Antimicrobial activity of Hydraulic Temporary Sealing Materials	ICMR, New Delhi	10,000/-
Dr. J Udayalaxmi Ms. Neeta G. Shenoy	Biofilm production, Phospholipase and hemolytic activity in different species of Candida isolated from the caries lesion of children	ICMR, New Delhi	10,000/-
Dr. Supriya Nambiar Ms. Shreyasi Tiwari	Predilection of chewing side preference for handedness and an assessment of its impact on facial symmetry, temporomandibular joint and dentition.	ICMR, New Delhi	10,000/-
Dr. Ravindra Kotian Ms. Sanchita Chandar KS	“Invitro evaluation of cytotoxicity & corrosion behavior of commercially pure Ti & Ti-6Al-4V alloy for dental implants	ICMR, New Delhi	10,000/-
Mrs Prashanthi SM Ms Madhura Sen	Effect of temperature, time interval and storage condition on fluoride release and recharge from esthetic restorative materials	ICMR, New Delhi	10,000/-
Ms. Shilpi Sanghvi	Image Distortion of the roots of maxillary deciduous molars on IOPA’s recorded with bisecting angle or a modified paralleling technique "	ICMR, New Delhi	10,000/-

18. Inter-institutional collaborative projects and associated grants received**a) National collaboration b) International collaboration**

Nil

19. Institutional projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Rs 21, 55, 000/- Details are provided as response to question number 16.

20. Research facility / centre with

- state recognition: nil
- national recognition: nil
- international recognition: nil

21. Special research laboratories sponsored by / created by industry or corporate bodies

Nil

22. Publications last three years

- * Number of papers published in peer reviewed journals (national / international)

Year	Publications		Total
	National	International	
2012	23	28	51
2013	51	42	93
2014	57	75	132

- * Monographs

Year	Number
2012	2
2013	10
2014	1

- * Chapters in Books

Year	Number
2012	5
2013	6
2014	-

- * Books edited

Year	Name of the Editor	Title of the Book	Publisher detail
2013	Dr. Ashwini Rao	Text book “Essentials of Public Health Dentistry – 5 th Edition	Arya Medi Publishers, 2013, ISBN: 81-86809-56-2

* Books with ISBN with details of publishers

Year	Name of the Author	Title of the Book	Publisher detail
2012	Dr. Ravikiran Ongole	Text Book of “Oral Medicine, Oral Diagnosis and Oral Radiology”, 2 nd Edition	Elsevier Science Publications; November, 2012, ISBN -978-81-312-3091-6
	Dr. Arathi Rao	Text Book “Principles and Practices of Pedodontics”, 3 rd edition	Jaypee Brothers Medical Publishers (P) Ltd. in 2012, ISBN: 978-93-5025-891-0
2013	Dr. Srikant N.	Text Book - Sculptodontia – A Guide to Tooth Carving	Paras Medical Publisher, Hyderabad, 2013, ISBN: 978-81-8191-389-0

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)

Year	Data base	Number
2012	Pubmed	30
	Scopus	5
	EBSCO host	1
	Medicus	1
	Medline	1
	GSPM	3
	Google Scholar	4
	Open J Gate	3
2013	Scopus	28
	EBSCO host	1
	Copernicus	1
	Medicus	1

Year	Data base	Number
	Medline	1
	GSPM	6
	Google Scholar	12
	Open J Gate	5
2014	Pubmed	5
	Scopus	11
	EBSCO host	5
	Copernicus	1
	Medicus	1
	Medline	2
	GSPM	5
	Google Scholar	13
	Open J Gate	4

* Citation Index – range / average

Year	Citations (Number)
2012	101
2013	80
2014	79

* SNIP

Range: 0.33 – 1.458

* SJR

Range: 0.22 – 0.79

* Impact Factor – range / average

Range: 0.6 – 2.14

* h-index

Range: 1 -14

23. Details of patents and income generated

Nil

24. Areas of consultancy and income generated

Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

Faculty Name	Visit Detail	Year/Month
Dr. Dilip G. Naik	Nakanishi Inc (NSK), Japan and Tokyo Medical & Dental University	July 2013
Dr. Kundabala M.	3 M ESPE Dental Key Opinion leader symposium” at St. Paul and Wonewok, Minnesota, USA from	Sep 22 nd 27 th , 2014
Dr. Junaid Ahmed	Plameca, Helsinki, Finland	Feb 4 th to 7 th , 2014
Dr. Rajesh G.	Department of Epidemiology & Public Health, University College, London, UK. Under Staff Exchange programme awarded by UK – India Education Research	4 th – 30 th April 2013

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (specify)

National Committees:

Nil

International Committees:

Nil

Faculty in Editorial Boards:

Sl. No.	Name of the Faculty	Journal
1	Dr. Dilip G. Naik	<ul style="list-style-type: none"> E -learning teaching modules in "Periodontics" titled "Clinical learning"
2	Dr. Mohan Baliga	<ul style="list-style-type: none"> Journal of Maxillofacial & Oral Surgery Journal of Nepal Dental Association
3	Dr. Ashita Uppoor	<ul style="list-style-type: none"> Journal of Interdisciplinary Dentistry- An International publication of ISPRP
4	Dr. Kundabala M.	<ul style="list-style-type: none"> Journal of Interdisciplinary Dentistry- An International publication of ISPRP Journal of Conservative Dentistry Indian Journal of dental Sciences

Sl. No.	Name of the Faculty	Journal
		<ul style="list-style-type: none"> • Endodontology
5	Dr. Arathi Rao	<ul style="list-style-type: none"> • Journal of Interdisciplinary Dentistry- An International publication of ISPRP
7	Dr. Junaid Ahmed	<ul style="list-style-type: none"> • International journal of Oral surgery, Oral Medicine & Oral Pathology • Journal of Pacific Academy of higher education & Research
8	Dr. Shobha Rodrigues	<ul style="list-style-type: none"> • Journal of Interdisciplinary Dentistry- An International publication of ISPRP
9	Dr. Neeta Shetty	<ul style="list-style-type: none"> • Journal of Interdisciplinary Dentistry- An International publication of ISPRP
10	Dr. Deepa G. Kamath	<ul style="list-style-type: none"> • Journal of Interdisciplinary Dentistry- An International publication of ISPRP
11	Dr. Ravikiran Ongole	<ul style="list-style-type: none"> • World journal of Dentistry
12	Dr. Ramya Shenoy	<ul style="list-style-type: none"> • Journal of Interdisciplinary Dentistry- An International publication of ISPRP
13	Dr. Manuel Thomas	<ul style="list-style-type: none"> • Journal of Interdisciplinary Dentistry- An International publication of ISPRP

27. Faculty recharging strategies (Refresher / orientation programs, workshops, training programs and similar programs).

Pedagogy and Personal Effectiveness workshops conducted by Dept. of Medical Education, Manipal University & other National & International Universities/Colleges
 At least 1 CDE/Workshops programs conducted by all the 10 departments of the Institute

28. Student projects

- percentage of students who have taken up-in-house projects including inter-departmental projects
 ≈ 20%
- percentage of students doing projects in collaboration with other universities / industry / institute
 Nil

29. Awards / recognitions received at the national and international level by

• Faculty:

Year	Name of the Faculty	Award detail
2014	Dr. Sharan Saldanha	First place for Scientific Poster presentation titled at the 67 th Indian Dental Conference held at Hyderabad
	Dr. Nandita K.P	SECOND PRIZE for her E-POSTER PRESENTATION o at 12 th Indian Association of Forensic Odontology (IAFO) National Conference held at Dehradun
	Dr. Amitha J. Lewis	FIRST PRIZE for her POSTER PRESENTATION at the 42 nd IDA Karnataka State Dental Conference held at Mangalore
	Dr. Mithun Pai BH	Best Abstract Award at the 19 th National Conference of Indian Association of Public Health Dentistry (IAPHD) held at Amrita School of Dentistry, AIMS, Kochi
	Mrs. Prashanthi Madhyastha	<ul style="list-style-type: none"> ➤ II Prize for Poster Presentation at “Dentistry 2014” held at Bangalore ➤ FIRST PRIZE for her E-POSTER PRESENTATION o at 12th Indian Association of Forensic Odontology (IAFO) National Conference held at Dehradun
	Dr. Karthik Shetty	Best Indian Dental Association Local Branch Secretary Award for the year 2014 at the 42 nd IDA Karnataka State Dental Conference held at Mangalore

• Doctoral / post doctoral fellows:

Nil

• Students

Year 2014:

Name of the Student	Award detail
Dr Arjun Kumar, II yr PG Dr Ritika Jindal, II yr PG Dr PrakritiDayal , II yr PG Dr Aishwarya Nair, I yr PG Dr Aditya Gupta, I yr PG Dr Aureus D’souza I yr. PG	Best Paper Award in Triple O Symposium at Udaipur , March 7 – 9
Dr Ankita Sharma, Intern	Session Winner for the Poster at the 21 st International Student Congress of (bio)Medical Sciences, held at Groningen, Netherlands , June 3 – 6, 2014 with a travel grant of € 200.

Name of the Student	Award detail
Dr. Utkarsh , I yr. PG Dr. Akanksha, I yr. PG	Bagged II Prize in Poster Competition held as a part of Oral Hygiene Day on 1 st Aug. 2014
Dr Ritika Jindal, III yr PG	Best E-Poster Award for his poster in the poster Competition conducted by IADR & AJIDS, Mangalore. He has been provided free registration and accommodation for 27 th ISDR Conference to be held at Chennai from 31 st October 2014 as a part of this award.
Dr. ZeenaD'Costa I Yr. PG	First place in the elocution competition titled at XXVI National Conference of the Indian Academy of Oral Medicine and Radiology held at TMA Pai Convention Centre, Mangalore on 21-23 rd
Dr. AmruthaChougule, II yr PG	Won the "Best Paper Award" at 15 th IACDE - IES PG convention held at SRM Kattankulathur Dental College and Hospital, Chennai, June 5 -8.
Dr. Ashwin Jayaraman, I yr. PG	2 nd Prize at the Poster Competition at the 42 nd IDA Karnataka State Dental Conference held at Mangalore, November 28 – 30.
Dr. Aditya Sanapal, I yr. PG	3 rd Prize at the Poster Competition at the 42 nd IDA Karnataka State Dental Conference held at Mangalore, November 28 – 30.
Dr. R. Phani Mohan, II yr PG	Best Paper award at the 29 th IACDE & 22 nd IES National Conference held at B. M. Birla Auditorium, Jaipur, Rajasthan, Dec 5 – 7.
Dr.Sony G. Pullan & Dr.SudhirJagannathan, PG	1 st place in the inter college Oral & Maxillofacial Surgery quiz "Academic Intelligensia" conducted in A.B Shetty Memorial Institute of Dental Sciences, Mangalore, March 8-9.
Dr. TejaswaniKaur, II yr. PG	Consolation Prize in case report category for her case series at the 13 th ISP National Post Graduate Convention held at A.B. Shetty Memorial Institute of Dental Sciences, Nitte University, Mangalore, on 8 th and 9 th March, 2014.
Dr. KamakshiAlekhya, I yr. PG	Bagged III Prize in Poster Competition held as a part of Oral Hygiene Day on 1 st Aug. 2014
Dr. Neelesh Singh, III Yr PG	Best Paper Award in a Paper Competition held by Indian Academy of Aesthetic and Cosmetic Dentistry As a part of this Award, 50% Reduction in Registration and Accommodation Fee for 22nd Annual Conference, Indian Academy of Aesthetic and Cosmetic Dentistry to

Name of the Student	Award detail
	be held from 31st Oct-2nd Nov at VokkaligaraSangha Dental College & Hospital, Bangalore, Karnataka, has been provided.
Dr. VigneshPalanisamy, I Yr PG	1 st Prize at the Poster Competition at 42 nd IDA Karnataka State Dental Conference held at Mangalore, April 11-12.
Dr Pinky Kalra, III yr PG	Won the 3 rd III Prize at the Manipal Research Colloquium Poster Competition (Health Science Category), Nov 28-13.
Dr Nimit Jain, PG	Best Scientific Paper in the paper presentation at the 16 th IPS PG Students Convention held at Visakhapatnam.
Dr. Pallavi Chavan, I Yr PG	2 nd Prize at the Poster Competetion at 42 nd IDA Karnataka State Dental Conference held at Mangalore.
Dr Arun Simon PG	Won a prize at Manipal Photo contest – PG Life in Manipal University.
Dr. Seebu Dhingra, II yr. PG	Bagged I Prize in Poster Competition held as a part of Oral Hygiene Day on 1 st Aug. 2014
Dr Viral Mehta, III yr. PG	First Prize for his Poster in the poster Competition conducted by IADR & AJIDS, Mangalore. He has been provided free registration and accommodation for 27 th ISDR Conference to be held from 31 st October, 2014 as a part of this award.
Dr. Arun K Simon, III yr. PG	Third place in the national level essay competition conducted by Indian Society of Periodontology for the year 2014. The award that includes a certificate and cash prize of Rs.1000 will be presented during the inaugural ceremony of the 39th annual conference of Indian Society of Periodontology at Jaipur on 10th October 2014.
Dr Viral Mehta, III yr. PG	Best scientific sessional paper award for his paper titled at the 27 th Annual Conference of Indian Society for Dental Research (ISDR) Conducted from at Saveetha Dental College, Chennai, Oct 31 – Nov 02
Dr. Seebu Dhingra, II yr. PG	First prize in Poster Competition on World Diabetes Day organized by Manipal College of Nursing, Manipal, November 14
	Best Abstract Award and the best paper award for her paper at the 19 th National Conference of Indian Association of Public Health Dentistry (IAPHD) held at

Name of the Student	Award detail
	Amrita School of Dentistry, AIMS, Kochi, November 20 – 22
Dr. S. Mallikarjun, III yr. PG	Best Abstract Award for his paper at the 19 th National Conference of Indian Association of Public Health Dentistry (IAPHD) held at Amrita School of Dentistry, AIMS, Kochi, November 20 – 22
Dr. Viral Mehta, III yr. PG	Best Paper Award for his paper at the 19 th National Conference of Indian Association of Public Health Dentistry (IAPHD) held at Amrita School of Dentistry, AIMS, Kochi, November 20 – 22
Dr. Supriya Nikita Kapila, PG	BEST PAPER AWARD for her paper at the XXIII National Conference of the IAOMP held at Bangalore, November 28 – 30.
Ms. Ifrah Damda, 3 rd year student	Awarded a consolation prize worth Rs 6000/- and a certificate of membership of the International Association of Student Clinicians- American Dental Association for her table clinic presentation in the 18 th Dentsply –IDA Student Clinician Research Program in Hyderabad.
Ms. Srividhya Sriraman Iyer and Ms. Sanchitha Chandar K.S, 2 nd year students	Best pre-clinical poster for their poster at IGNITE 2014 - An Intercollegiate UG students and Interns scientific meet, held at Manipal.
Mr. Anirudh C.V. and Ms. Devyani Bahl, II yr stu.	Secured I Place in the E-Poster and E- Collage competition jointly organized by Directorate Student Affairs and Volunteer Services Organization, Manipal University, Manipal.
Ms. Surbhi Srivastava and Ms. Malvika Naithani, Final BDS Part-II students	Secured II Place in “World No Tobacco Day 2014 – Slogan Competition” held at KMC, Manipal .
Ms. Madhura Sen, III BDS	Second Prize for Poster Competition at I International Dental Student Conclave Connexion 2014 held at Indore.
Dr. Khyati Narula, Intern	<ul style="list-style-type: none"> • Dr. TMA Pai Gold Medal” for the best the best outgoing student for the year 2013 during the Annual College Day and Awards Ceremony of the college. • Silver Jubilee Alumni Gold Medal” for securing Highest Marks in Final BDS Examination for the year 2013 during the Annual College Day and Awards Ceremony of the college

Name of the Student	Award detail
Mr. Subhashish Das, Intern	1 st Prize at the Poster Competetion (KSDC, held at Mangalore Nov 28-30, 2014)
Miss. Sulagna Chakrabarti, Intern	1 st Prize at the Poster Competetion (KSDC, held at Mangalore Nov 28-30, 2014)
Miss Devika Mahendra, III BDS	1 st Prize at the Paper Competetion (KSDC, held at Mangalore Nov 28-30, 2014)
Miss Devyani Bahl, III BDS	1 st Prize at the Paper Competetion(KSDC, held at Mangalore Nov 28-30, 2014)
Miss Sanchita Chandar, III BDS	1 st Prize at the Paper Competetion (KSDC, held at Mangalore Nov 28-30, 2014)
Mr Anirudh Chakravarthy, III BDS	2 nd Prize at the Poster Competetion (KSDC, held at Mangalore Nov 28-30, 2014)
Author: Miss Rashmi Singh, Final BDS Co authors: Miss Sreeprada Dash, Miss Poorva Kurtarkar, Miss Rujuta Gaitonde, Miss Mitiksha Shahani, Miss Abhilasha Patidar	1 st Prize at the Poster Competetion (KSDC, held at Mangalore Nov 28-30, 2014)
Author: Miss Mihika Bala - Final BDS Co Authors: Miss ShilpiSanghvi , Miss IfrahDamda, Miss AnushkaLal, Miss Shristy Shaw Miss HeeralMahlawat	2 nd Prize at the Poster Competetion (KSDC, held at Mangalore Nov 28-30, 2014)
Ms Amoli Singh, III BDS	Won the First Runner Up in Open Category for her paper titled ‘Mobile phone use and psychosocial characteristics among students perusing dentistry in Mangalore, India’ at the ‘5th UITM Dental Student's Symposium 2015’ held at Sungai BulohCampus, University Technology Mara, Malaysia on the 15th of April 2015.
Dr.Avani Jain & Dr.SoniaSivadas, PGs	Best poster award for their poster titled “Path of Innovation of TB” at the World TB day 2015 celebrations organized by the Department of Medical Surgical Nursing, Manipal College of Nursing, Manipal on 24 th March 2015.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Regular Continuing Professional Development programs are conducted with resource persons drawn from various departments/institutions/universities. For details refer question number 43.

31. Code of ethics for research followed by the departments

All the research projects/studies carried out after clearance from Institutional Ethics Committee which is formed on the recommendations and guidelines of ICMR.

32. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
BDS	18390	27	72	41.56	58.43
MDS	1605	12	15	32.91	67.08

33. Diversity of students

Name of the Program (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG: MDS	43%	7%	50%	NIL

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations? Give details category-wise.

AIPGDET: 6

KCET: 1

35. Student progression

Student progression	Percentage against enrolled
UG to PG	42%
PG to M.Phil,DM / M Ch / DNB	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	-
• Other than campus recruitment	-
Entrepreneurs	-

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	18
from other universities within the State	68
from universities from other States	14
from universities outside the country	-

37. Number of faculty who were awarded M.Phil.,DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period

Nil

38. Present details of institutional infrastructural facilities with regard to**a) Library**

Centrally air conditionally library with individual study stations, Wi Fi enabled, including departmental library

b) Internet facilities for staff and students

Wi Fi Facility to Staff & students at campus, Hospital, Library & Hostels

c) Total number of class rooms

18

d) Class rooms with ICT facility and 'smart' class rooms

All the class rooms are with ICT facility

e) Students' laboratories

11

f) Research laboratories

1

39. List of doctoral, post-doctoral students and Research Associates**a) from the host institution/university**

Nil

b) from other institutions/universities

Nil

40. Number of post graduate students getting financial assistance from the university.

Nil

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology.

Due to the increase in number of UG and PG seats there is a glut in the number of dental graduates. However, there is a lack of confidence and

competence to practise dentistry especially among UGs. Keeping this in mind, a certificate course in Restorative Dentistry which encompasses 3 subjects was conceived, that is prosthodontics, conservative dentistry and periodontology, which is essential for day to day practice. A committee was setup and due permission from the University along with curriculum etc. was put in place.

The College acquired a 3D Computerized Tomography Machine. Handful of dental colleges among the 300 plus colleges in the country has this machine. So a certificate course of CBCT was designed to give advantage of this facility to the Postgraduates of other colleges of India.

42. Does the institution obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the institution utilize the feedback?

Annually online feedback taken from the faculty by employers on facilities, infrastructure & programs.

b. students on staff, curriculum and teaching-learning-evaluation and how does the institution utilize the feedback?

Student evaluation of staff and curriculum conducted annually and feedback is shared for improvement. Staff evaluation is factored in for the performance appraisal of staff members.

c. alumni and employers on the programs offered and how does the institution utilize the feedback?

No

43. List the distinguished alumni of the institution (maximum 10)

Sl. No.	Name of the Alumni	Batch	Current Position/Achievement
1	Dr. Bhalajhi Iyer	1987	Practicing Orthodontist at Auckland, New Zealand
2	Dr. Abhishek Singh	1994	Practicing dentist at Scotland. No. 1 in the Dentistry Scotland's Leading 20
3	Dr. Darshanjit Pannu	1990	Asst. Prof., Department of Oral Rehabilitation, College of Dental Medicine, Georgia Regents University, Augusta, GA.
4	Dr. Saurab Jain	1997	In the year 2005 he scored 1st rank at the All India Post Graduate Medical Entrance Examination, Karnataka State

Sl. No.	Name of the Alumni	Batch	Current Position/Achievement
			Postgraduate Entrance Examination, and also at the COMEDK post graduation Entrance Examination to be the first to obtain 1st ranks in 3 Entrance examinations. He was the distinguished alumni awardee at the Silver Jubilee Celebrations of the institution
5	Dr. Srinivasa R. Chandra	1990	Asst. Prof., Oral Maxillofacial – Head & Neck Oncologic, Micro vascular Reconstructive Surgery, Harbor view Medical Centre, University of Washington.
6	Dr. Nirmala N.Rao	1989	Presently at the post of Dean, Manipal College of Dental Sciences, ManipalShe was the distinguished alumni awardee at the Silver Jubilee Celebrations of the institution.
7	Dr Jamil David	1988	Associate Professor at University of Bergen, Norway. He is associated with the International Association for Dental Research Team
8	Dr. GurukeeratSingh	1989	Member Dental Council of India, Delhi State. Consulting Orthodontist. Has authored “Text book of Orthodontics”
9	Dr. Samuel K.Ninan	1987	He is associated with Indian Medical Association for implementation of Hospital Protection Bill in Kerala and also Initiated Ashakiran, a long term project in association with the Pain & palliative care society of Kerala. He has also been dedicated to community service and charitable activities. He has established Initiated “Santhwanam” the free complete Denture Project for 100 Patients under poverty line to help improve their quality of life. He was the distinguished alumni awardee at the Silver Jubilee Celebrations of the institution.

Sl. No.	Name of the Alumni	Batch	Current Position/Achievement
10	Dr. Sherene Alexander	1987	Working at the Pediatric Dentistry Department as the Faculty of dentistry, West Centre for Oral Health, NSW, Australia

44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

Year 2014:

Sl. No.	Topic	Guest Speaker	Date of Conduct
1	CDE: Tobacco Use Cessation- Perspectives and Practice	Dr. Mihir N. Shah, Dean and Head, Periodontics & Oral Implantology, Ahmedabad Dental College & Hospital, Ahmedabad & Hon. Consultant to WHO (HQ) for Tobacco Control	07-06-2014
2	Head and Neck Cancer: An epidemiology	Dr. Unniksirhnan, Prof. & HOD of Comm. Dent. KMC, M'lore	30-10-2014
3	Targeted Therapy: Where we are today	Dr. Krishna Prasad, Assoc.Prof. of Medical Oncology, KMC Mangalore,	30-10-2014
4	Recent advances in Surgical Management of Head & Neck Cancers	Dr. Ashok M. Shenoy, Prof. & Chairman, Dept of Head & Neck Surgery, KIDWAI Memorial Institute of Oncology, Bangalore	30-10-2014
5	Optimizing Radiation Therapy in the Indian Scenario	Dr. Tanvir Pasha, Assoc. Prof. of Radiation Oncology, KIDWAI Memorial Institute of Oncology, Bangalore	30-10-2014
6	Potentially malignant disorders of the Oral Cavity	Dr Keerthilatha M.Pai, Prof. & HOD of OMR, MCOODS, Manipal	30-10-2014
7	Pre Conference Workshop on "MASTER YOUR CBCT (Lecture & Hands-on)	Dr Sanjay Mallya, Asst. Prof., Residency Program Director (OMR), UCLA, School of dentistry, USA	30-10-2014
8	Live Webinar: Final Protocol in Modern Endodontics	Dr AnishNaware, Specialist Consultant, Mumbai	10-06-2014

Sl. No.	Topic	Guest Speaker	Date of Conduct
9	Live Webinar Program: “Practice Management”	Dr Sandesh Mayekar, Specialist & Consultant in Restorative/Esthetic Dentistry & Endodontics, Mumbai	02-07-2014
10	CPD – Posterior Composite Restorations made simple	Dr Uday Shetty, Comestic Dentist, Mumbai	01-09-2014
11	CPD on “Intra Oral Photography – A Fine Art	Dr Akhter Husain, Prof. & Head of Ortho. YDC, Mangalore.	19-06-2014
12	Hands on Workshop on Basic Life Support	<ul style="list-style-type: none"> • Dr. Madhusudan Upadhyya, MS, KMC Hospital, Mangalore. • Dr. Shaila Kamath, Assoc. Prof. of Anesthesiology, KMC, Mangalore. • Dr. Shaila Kamath, Assoc. Prof. of Anesthesiology, KMC, Mangalore. • Dr. Jesni Joseph, Assoc. Prof. of Anesthesiology, KMC, Mangalore. • Dr. Meghana, Assoc. Prof. of Anesthesiology, KMC, Mangalore. 	13 to 15 th March-14
13	CPD: Max Facts 2014: Current Concepts and Challenges in Maxillofacial Infections	<ul style="list-style-type: none"> • Dr. Chakrapani M. Prof. of Med KMC, Mangalore. • Dr. Ravi N. Vaswani, Prof. & HOD of Medicine, YDC, Mangalore • Dr. Krishnamurthy Bonanthaya, Prof. of Max. Surgery, Bangalore Inst. Of Dental Sciences. Bangalore 	31-10-2014
14	Pre-convention workshop on “Interpreting Cone Beam CT Images in Oral Implantology” at Indian Society of Periodontology 13 th National PG Convention	<ul style="list-style-type: none"> • Dr. Praveen Birur, Prof. & HOD of OMR, KLE Society’s Institute of Dental Sciences Bangalore. • Dr. Ravikiran Ongole, Prof of OMR, MCODS Mangalore. 	07-03-2014

Sl. No.	Topic	Guest Speaker	Date of Conduct
15	Pedo App 2014 <ul style="list-style-type: none"> Exclusive Paediatric Dentistry Practice When & where to Intervene Pediatric maxillofacial pathology and Treatment: A clinical perspective 	<ul style="list-style-type: none"> Dr. Sankalp Taparia, Pediatric Consultant, Happy 2TH, Kolkatta, W.B. Dr. Rajmohan Shetty, Prof. of Pedo & Prev. Dent. ABSMIDS, Mangalore Dr. Abhishek Kumar, Asst. Prof., B. P. Koiral Inst. Of Health Sciences, Dharan, Nepal 	30-07-2014
16	CDE - 'Tongue Tie' and 'Oral Pathologica conditions seen in children'	Dr. Sherene Alexander	16-09-2014
17	CDE: Application of Mini Implants in Orthodontics Management of Skeletal Malocclusion	Dr. S. Venkateswaran, Prof. & HOD of Orthodontics, Chettinad Dental College, Chennai	11-01-2014
18	Eye for Implantology – Beginner's workshop	In house speakers (Prosthodontics)	24-07-2014
19	eviDENS-2014 – Workshop on Research Methodology and Biostatistics	In house speakers (Public Health Dentistry)	4 th & 5 th Aug. 2014
20	Drawing Competition for school children on account of Children's' Day celebrations on "Oral and Dental Health"	-	13-11-14
21	<ul style="list-style-type: none"> Poster competition for interns & postgraduates on the topic "Brush and Floss or Prepare for loss" Free dental checkup and Drawing competition for children at Bhagini Samaj on the topic "My dentist" Free dental check up, talk on Oral Health care in women, street pay and quiz at St. Agnes College 	-	1 & 2 Aug. 2014

45. List the teaching methods adopted by the faculty for different programs including clinical teaching.

Didactic lectures, discussions, slide seminars, quiz contests, Objective Structured Practical Examination (OSPE) Objective Structured Clinical Examinations (OSCE), and Viva-voce.

Case Based Learning conducted in Oral Medicine and Radiology

46. How does the institution ensure that program objectives are constantly met and learning outcomes are monitored?

Detailed Lesson plan is prepared by the respective departments on monthly basis
 Monthly staff meetings organized by the departments to monitor the academic schedule, lesson plan and progress

Minutes of meeting sent to Dean's office and discussed in Staff Council meeting & feedbacks are given for corrective measures if any

47. Highlight the participation of students and faculty in extension activities.

Treatment of patients through satellite clinics, Treating patients in rural area through Mobile clinic, Free Denture distribution to poor & needy, Active participation in social activities such as Disha, Rastriya Ektha Divas, World Health day, Swatchha Bharath Abhiyaan.

48. Give details of "beyond syllabus scholarly activities" of the institution.

Students are encouraged to take up STS ICMR short term projects

Clinical Society meeting on regular basis

Clinical case discussion

Financial support for research, publication of research findings & to present research papers at National and International conferences.

Innovation by Manipal University Technology Business Incubation (MUTBI)

Intercollegiate extracurricular activities

49. State whether the program/ institution is accredited/ graded by other agencies? If yes, give details.

Nil

50. Briefly highlight the contributions of the institution in generating new knowledge, basic or applied.

- Conducting research
- Publishing research articles in high impact journals
- Text book writing in the field of specialty

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the institution.

Strengths:

- Autonomy
- Faculty
- Infrastructure
- Leadership
- Manipal values

Weakness:

- Lack of unitary campus
- Constraint of space
- Traditional curriculum delivery & assessment
- Hostels
- Quality of students

Opportunities:

- New specialties
- Collaborative Research
- Sponsored clinical trails
- Public Private partnership for satellite dental clinics
- Scope for developing center of excellence

Challenges:

- Waning demand for Dentistry
- Spurt of increase in Postgraduate seats all over India
- Lack of jobs
- Rising cost of education
- Foreign students especially Malaysian students stop coming

52. Future plans of the institution.

- Introduction of communication skills, entrepreneurship skills, ethics & morality and Leadership.
- Certificate courses in endodontics and Restorative dentistry
- Conducting CPD with resource persons of international repute (adjunct faculty)
- Placements, career guidance
- Public private partnership for satellite dental clinics
- Electronic patient recording system
- Development of center of excellence

MANIPAL COLLEGE OF DENTAL SCIENCES, MANGALORE
ORAL PATHOLOGY AND MICROBIOLOGY

1. Faculty profile - adequacy and competency of faculty:

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. The entire faculty therefore have competency as laid down by DCI. The faculty maintains and upholds the standards and competency by keeping abreast of latest developments in the field and regularly attends workshops and conferences to meet higher standards.

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1	Dr. Karen Boaz	M.D.S	Professor and Head	14
2	Dr. Srikant N.	M.D.S.	Assoc. Prof.	08
3	Dr. Nandita K. P.	M.D.S.	Assoc. Prof	06
4	Dr. Amitha.J.Lewis	M.D.S.	Reader	05
5	Dr. Nidhi Manaktala	M.D.S.	Asst.Prof.	04
6	Dr. Deepika C.	B.D.S.	Lecturer	02

Category	Sanctioned (as per DCI)	Filled
Teaching staff	5	5
Lecturer	1	1

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The course is regulated by DCI and the department strictly complies with the syllabus and the guidelines of the DCI and the same is endorsed by the Board of Studies, Manipal University. The examinations conducted reflect the synergy between the clinic-pathologic field and are designed in as Objective a manner.

4. Trends in the success and drop-out rates of students during the past two years:

Course	Pass Percentage		Dropout Rate	
	2012-2013	2013-2014	2012-2013	2013-2014
B.D.S.(I year)	98%	98%	0	0
B.D.S.(III year)	95%	98%	0	0
M.D.S.	100	100	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources:

The department has well-equipped library with over 125 books, 2 departmental computers, 5 Laptops, and 2 Laboratories.

Air-conditioned Lecture halls are shared between departments and they accommodate 150 students and are equipped with LCD, OHP, Black Board and acoustic system.

Laboratories for practical demonstration: 2

- i. At Centre for Basic Sciences, Bejai for students of I B.D.S.,
- ii. At MCOBS, LHH Road for students of II and III B.D.S. and routine histopathology, cytology and basic hematological procedures.

6. Modern teaching methods practiced and use of ICT in teaching – learning:

The department extensively uses audio-visual aids like PowerPoint and multi-media for teaching. In addition the facilities of the laboratories are made use of as and when needed.

While the predominant mode of undergraduate teaching is through didactic lectures, students are also required to submit assignments, participate in clinically-oriented procedures and present posters.

Post-graduate training is accomplished through a blend of presentation of seminars, clinical case discussions, journal reviews, clinical society meetings, library dissertation, thesis dissertation and short studies. Presentations (oral and poster-based) are made at National conferences and PG conventions.

7. Participation of teachers in academic and personal counselling of students

MCODS provides mentoring to all students, with keen focus on the new students. The unique Teacher-Guardian scheme essentially allots one member of the teaching staff (Assistant /Associate Professor) to oversee the welfare and progress of a group of 10 students. The attendance and performance in examinations is also monitored and students are counselled.

Records of these activities are maintained with the concerned teacher-guardian, and the Office of the Dean is kept informed of the same. Issues which cannot be addressed at the departmental level are directed to the Deputy Director, Student Affairs for appropriate guidance.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Faculty have in the past attended development programmes (such as Pedagogic & Personal Effectiveness programmes) pertaining to teaching-learning and evaluation. This training has covered various aspects of teaching-learning and evaluation.

In addition, all members of the faculty regularly attend various scientific programmes like conferences, workshops, symposia and CDE programmes. On an average, each member of the faculty attends at least 7 such programmes in a given year.

Dr. Amitha Lewis and Dr. Nidhi Manaktala attended a training programme on “Problem-based learning” organised by Faculty of Dentistry, University of Hong Kong in association with Coorg Institute of Dental Sciences, on 25 and 26 September, 2013.

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

Teaching:

The entire faculty is actively involved in teaching UG and PG students.

Research by faculty:

The members of the faculty are engaged in guiding research by post-graduate students besides research being conducted by them for their academic progression.

2013:

#	Title	Faculty Involved
1.	Correlation of Mitotic and Nucleolar Organiser Region Indices as prognosticators of Oral Squamous Cell carcinoma	Dr. Karen Boaz Dr. Srikant N.
2.	Receiver Operator Characteristics – A Novel Technique of Assessment of Tooth Eruption	Dr. Srikant N.
3.	Accuracy of Bite Mark Analysis in Forensic Dentistry	Dr. Nandita KP
4.	Pulp/tooth ratio in the estimation of age: A study on Mandibular premolars	Dr. Amitha Lewis

2014:

Sl#	Title	Faculty Involved
1.	Immunohistochemical Assessment of Epithelial Mesenchymal Transition with Tumour Satellite Distance as a Prognosticator in Oral Squamous Cell Carcinomas	Dr. Karen Boaz Dr. Srikant N.
2.	MOKO M1K1 as a prognosticator in Grading of OSCC	Dr. Srikant N.
3.	Odontometric Analysis in differentiation of Gender and Race	Dr. Nandita KP
4.	Palatal Rugoscopy in establishment of identity	Dr. Nandita KP
5.	Wisdom teeth on the way to extinction	Dr. Amitha Lewis
6.	Histopathological assessment of Radicular cyst in Indian population	Dr. Nidhi Manaktala

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Nil.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

Priority areas for research:

1. Oral cancer trends and immunohistochemical expression of prognostic markers for the same.
2. Immunohistochemical expression of various markers in determination of nature of odontogenic cysts.
3. Oral epithelial dysplasia.
4. Image analysis in quantitative assessment and prognostication in oral cancer.
5. Estimation of age using teeth and radiographs.

Ongoing:

Category	Number
Funded research projects	-
Non-funded research projects	6
PhD research projects	-
PG research projects	8
UG research projects	4

Last 3 years (2012-2014):

		2012	2013	2014
Completed funded research projects		-	-	-
Completed non-funded research projects		-	-	-
Completed PhD research projects		-	-	-
Completed PG research projects		2	2	3
Completed UG research projects		-		
Publications	International	-	5	7
	National	5	3	3
Books		-	3	-
Chapters in books		1	3	-
Conference presentations	International	1	5	2
	National	1	-	3

The detailed outline of projects is given below:

Ongoing PG research projects:

#	Title	Name of the student	Guide
1.	A correlation of immunohistochemical expression of p53 and p21 in oral squamous cell carcinoma	Dr. Pandya Jay Ashokkumar,	Dr. Karen Boaz
2.	A correlation of immunohistochemical expression of ErbB2 and Bcl-2 in oral squamous cell carcinoma	Dr. Shanmukha R Y	Dr. Karen Boaz
3.	A correlation of immunohistochemical expression of Carbonic Anhydrase IX and Matrix Metalloproteinase-9 in oral squamous cell carcinoma	Dr. Supriya Nikita Kapila	Dr. Srikant N.
4.	Immunohistochemical expression of Laminin in Keratocystic odontogenic tumour, Dentigerous cyst, Radicular cyst and Ameloblastoma	Dr. Mukul Prasad	Dr. Karen Boaz
5.	Expression of alpha Smooth Muscle Actin in benign and malignant salivary gland tumours: An IHC study	Dr. Mahalakshmi R	Dr. Karen Boaz

6.	Immunohistochemical expression of Laminin in Oral Squamous Cell Carcinoma and Verrucous carcinoma	Dr. Shweta Yellapurkar	Dr. Srikant N.
7.	Micrometastasis in OSCC: Prevalence and prediction by immunohistochemical assessment of lymphatic vessel density and tumour characteristics	Dr. Ankita Sharma	Dr. Karen Boaz
8.	Correlating expression of Ki-67 and stromal collagen characteristics in Odontogenic cysts and tumours	Dr. ShakthiDorai B.	Dr. Srikant N.

Ongoing UG research projects:

#	Title	Name of the student	Guide
1.	Versatility and accuracy of age estimation using Kvaal, Tooth coronal index and Gustafson technique	Bhuma Monika Reddy	Dr. Srikant N.
2.	A time-based objective evaluation of the erosive effects of various beverages on enamel and cementum of deciduous and permanent teeth	Gayatri Rajeev	Dr. Amitha Lewis
3.	Assessment and comparison of nuclear changes seen in gingivitis and periodontitis using fluorescent microscopy	Tanya Sawhney	Dr. Nidhi M
4.	Micronuclei assay in various forms of tobacco	Ansu Ann Abraham	Dr. Nidhi M

Completed PG research projects:

Year 2012

#	Title	Name of the student	Guide
1.	Evaluation of Techniques for the Assessment of Mitotic Activity Index and Visualization of Mitotic Figures in OSCC – A Histochemical Study	Dr. JyotiRanjan	Dr. Karen Boaz
2.	Prognostic efficacy of nuclear morphometry at invasive tumour front in oral squamous cell carcinoma: An image analysis study	Dr. VaishnaviVedam	Dr. Karen Boaz

Year 2013

#	Title	Name of the student	Guide
1	Osteopontin as a marker of neoplasia in Keratocystic Odontogenic Tumour: A comparative study with Ameloblastoma, Dentigerous Cyst and Radicular Cyst	Dr. Ramya M.	Dr. Karen Boaz
2	Osteopontin as a prognosticator in Oral Squamous Cell Carcinoma: An immunohistochemical study	Dr. Krupa Mehta	Dr. Karen Boaz

Year 2014

#	Title	Name of the student	Guide
1.	Expression of Lysyl Oxidase as a prognosticator in Oral Squamous Cell Carcinoma: An IHC study	Dr. UdhayBhanu	Dr. Karen Boaz
2.	Immunohistochemical assessment of Epithelial Mesenchymal Transition with Tumour Satellite Variables as a prognosticator in OSCC: A retrospective study	Dr. Rasika Kulkarni	Dr. Karen Boaz
3.	Correlation of CyclinD1 expression with prognosis of OSCC: An IHC study	Dr. Sriranjani D. Saravade	Dr. Srikant N.

Ongoing projects: 2013

#	Title	Name of the student	Guide
1.	Verrucous carcinoma vsverrucous hyperplasia- <i>Wide and Deep in trouble!</i>	Dr. Udhay Bhanu Dr. Rasika.K Dr. Sriranjani D.S.	Dr. Karen Boaz Dr. Srikant N
2.	The third molar as a reliable indicator in various methods of human age estimation	Dr. Shanmukha Dr. Jay Pandya Dr. Supriya	Dr. Karen Boaz Dr. Srikant N
3.	Accuracy of bite mark analysis- an affirmation to the guilt	-	Dr. Nandita K.P Dr. Srikant N.
4.	Pulp tooth ratio in the estimation of age- a study in mandibular premolars	-	Dr. Amitha Dr. Srikant. N Dr. Nidhi
5.	Syntactic structure analysis;;a quantitative measure of epithelial architecture in oral epithelial dysplasia	-	Dr. Srikant N.
6.	Radicular cyst reassessed: Histopathological study in Indian population	-	Dr. Nidhi Dr. Amitha Lewis Dr. Srikant N

7.	Tooth dimension analysis in Malaysian & Indians	-	Dr. Nandita KP Dr. Srikant N.
8.	Palatal rugae analysis in Malaysian & Indian population	-	Dr. Nandita KP Dr. Srikant N.

Ongoing projects: 2014

#	Title	Name of the student	Guide
1.	P53: Potential screening and diagnostic adjunct for verrucous carcinoma and verrucous hyperplasia	Dr. Jay Pandya	Dr. Karen Dr. Srikant. N
2.	Oral lichen planus and oral lichenoid reaction. A novel assessment with Picrosirius red stain	Dr. Jay Pandya	Dr. Karen Dr. Srikant. N
3.	Assessment and comparison of epithelium thickness, keratin thickness and inflammatory thickness in oral lichen planus and oral lichenoid reaction using Picrosirius red stain	Dr. Jay Pandya	Dr. Karen Dr. Srikant. N
4.	Nuclear fractal geometry in OSCC. A computer aided study	Dr. Shanmukha RY	Dr. Karen Dr. Srikant. N
5.	Modifications in hard tissue decalcification techniques	Dr. Supriya	Dr. Srikant. N Dr. Karen
6.	Immunohistochemical expression of laminin in OSCC and verrucous carcinoma.	Dr. Mukul	Dr. Karen Boaz Dr. Srikant N
7.	Assessment of chromatin changes in Oral Epithelial dysplasia and OSCC.	Dr. Mukul	Dr. Karen Dr. Srikant. N
8.	Evaluating the measures of circularity in prognosticating Oral Epithelial Dysplasia and Oral Squamous Cell Carcinoma.	Dr. Mukul	Dr. Karen Dr. Srikant. N
9.	Tumour Associated Neutrophils: Scavengers of keratin??	Dr. Mahalakshmi Dr. Shwetha	Dr. Karen Dr. Srikant Dr. Amitha
10.	Neutrophil to lymphocyte ratio (NLR): A surrogate marker in OSCC prognosis.	Dr. Mahalakshmi	Dr. Karen Dr. Srikant Dr. Amitha
11.	Expression of alpha - SMA in Benign and Malignant salivary gland tumours – An Immunohistochemical study.	Dr. Mahalakshmi	Dr. Karen Boaz Dr. Srikant N
12.	Profiling common oral pathogens using special histochemical stains	Dr. Mahalakshmi	Dr. Karen Dr. Srikant. N
13.	Size of the lymphnodes in neck as an indicator of metastasis in OSCC	Dr. Mahalakshmi	Dr. Karen Dr. Srikant. N

14.	Tumour associated tissue eosinophilia - a boon or a bane?	Dr. Shwetha	Dr. Karen Boaz Dr. Srikant N
15.	Eosin – A marker for assessing collagen distribution in oral lesions	Dr. Shwetha	Dr. Srikant. N Dr. Amitha Lewis Dr. Nidhi
16.	Immunohistochemical expression of laminin in keratocystic odontogenic tumour, dentigerous cyst, radicular cyst and ameloblastoma.	Dr. Shwetha	Dr. Karen Boaz Dr. Srikant N
17.	Micrometastasis In Oral Squamous Cell Carcinoma: Prevalence And Prediction By Immunohistochemical Assessment Of Lymphatic Vessel	Dr. Ankita Sharma	Dr. Karen Dr. Srikant. N
18.	Prognostic Significance of Keratinization and Apoptotic Index in Oral Squamous Cell Carcinoma	Dr. Ankita Sharma	Dr. Karen Dr. Srikant. N
19.	HPV: its prevalence and association with clinical and histological presentations in oral verrucal lesions and OSCC	Dr. Ankita Sharma	Dr. Karen Dr. Srikant. N
20.	Correlating Expression Of Ki67 And Stromal Collagen Characteristics In Odontogenic Cysts And Tumours.	Dr. ShakthiDorai	Dr. Srikant. N Dr. Karen
21.	Polarizing microscopic and histomorphometric correlation of vasculature and collagen in varying grades of oral submucous fibrosis	Dr. ShakthiDorai	Dr. Srikant. N Dr. Karen

The details of publications are described below.

2012:

International: Nil

National:

1. Ujjwal Joshi, Denny Ceena, Ravikiran Ongole, KN Sumanth, **Karen Boaz**, K Jeena Priya, **Srikant N**. AIDS-related Kaposi's sarcoma presenting with palatal and eyelid nodule. J Assoc Physicians India 2012; Vol 60: 50-53.
2. **Srikant N**, JyotiRanjan, **Karen Boaz**. Museum mounting techniques: Revisited economode. Indian Journal of Pathology & Microbiology, April-June-2012; Vol.55, (2)
3. Prashanthi SM, **Srikant N**. Analysing association and repeated measures data. Journal of Conservative Dentistry, Oct-Dec, 2012; 15: 400-1.
4. **Srikant Natarajan**, Manish Juneja, **Nandita K P**, **Karen Boaz**, Aashima Mohindra, **Amitha Lewis**. A Novel Technique to Assess Chromatin Texture

Using Pixel Optical Densitometry in Oral Squamous Cell Carcinoma. Microscopy research and technique, 2012; 75:1119-1123.

5. Mehendiratta M, Bishen KA, **Boaz Karen**, Mathias Y. Ghost cells: A journey in the dark. Dental Research Journal, Dec 2012. Vol.9. Issue 7 (Supplement issue 1) Pages S1-S8.

2013:

International:

1. **Nandita K.P, Karen Boaz**, Ethel Suman, Ashwini Hegde, Mahesh C.P. “Comparison of Polymorph nuclear Leukocyte Functions in Oral Carcinoma Patients and Healthy Controls. Research Journal of Pharmaceutical, Biological and Chemical Sciences”,. January – March 2013; Volume 4 issue 1;Page 857-864.
2. Dahal S, **Boaz K, Srikant N**, Reshma K, Agrawal N. Micronuclei and sialic acid as markers of genotoxic damage in tobacco-related oral lesions. Journal of Pathology of Nepal (2013) Vol3; p.379-384.
3. Kanchi Shah, Junaid Ahmed, NanditaShenoy, **N Srikant**, “How different are students and their learning styles?” International Journal of Research Medical Sciences 2013:1; 101-104.
4. Junaid Ahmed, A Amrthraj, **Karen Boaz**, NanditaShenoy, D Poojary, S Alva. “Energy Medicine in the Management of chronic Orofacial Pain-A Review”. International Journal of Medical and Health Sciences, Vol.2; Issue-3, 2013.

National:

1. Makesh Raj, **Boaz Karen, Srikant N**. Are teeth evidence in acid environment? Journal Forensic Dental Sciences, Vol.5.7-10; 2013.
2. **Karen Boaz**, Krupa K Mehta, **Srikant Natarajan**, Mohan Baliga, **Nandita K P**. Palatal Swelling in a Patient Suffering from Filariasis. Journal of Clinical and Diagnostic Research, 2013.Vol 7 (11); p. no. 2651-4.
3. NanditaShenoy, Junaid Ahmed, RavikiranOngole, **Karen Boaz, Srikant N**. Are Dental Surgeons prepared for Medical Emergencies? International Journal of Biomedical Research, 2013. Vol 4 (9); p. 461-464.

2014:

1. Makesh Raj LS, **Karen Boaz, Srikant N**. Prognostic significance of lymph node patterns in OSCC. Journal of Clinical and Diagnostic Research. 2014. Vol 8 (1). P. 232-235.

2. Prashanthi S Madhyastha, KhyaatiGidwani, **N Srikant**, Ethel Sumen, RavindraKotian. In vitro evaluation of sealing ability and antimicrobial activity of hydraulic temporary sealing materials. Journal of Restorative Dentistry, 2014.Vol 2 (1).P.13-19.
3. **Karen Boaz, Srikant N**, UdhayBhanu, Rasika K, Sriranjani D S. Grid Counting: A Novel and Objective Assesment Technique. The Experiment Journal. 2014. Vol. 20 (5); p. 1436-38.
4. Vaibhav Mahesh Jaggad, NanditaShenoy, John Ramapuram, **Amitha Lewis,N.Srikant**, Aditi Sarin. Oral Cytology for HIV: A New Diagnostic Tool? Journal of International Association of Providers of AIDS Care. 2014. P. 1-4
5. **Nandita K.P, Karen Boaz, Srikant N, Amitha Lewis, Nidhi Manaktala**. Oral Epithelium in Diabetics: A Cytomorphometric Correlation. Dental Hypotheses, 2014.Vol. 5. Page 59-65.
6. DayalPrakriti, Junaid Ahmed, RavikiranOngole, **Karen Boaz**. Solitary neurofibroma of Gingiva. Saudi medical Journal, 2014.Vol.35 (6).Page 607-11.
7. Jay Ashokkumar Pandya, **Srikant N, Karen Boaz, NidhiManaktala**, Supriya Nikita Kapila, Shanmukha RavitejaYinti. Post-radiation changes in oral tissues -An analysis of cancer irradiation cases. South Asian Journal of Cancer, 2014.Vol. 3. Page 159-162.
8. Swarup SJ, Rao A, **Karen Boaz, Srikant N.**, Shenoy R. Pulpal Response to Nano Hydroxyapatite, Mineral Trioxide Aggregate and Calcium Hydroxide. The Journal of Clinical Pediatric Dentistry, 2014.Vol. 38. Page 201-206.
9. Monica Mehendiratta, Monica C Solomon, **Karen Boaz**, Vasudeva G, Aashima M. Clinico-pathological correlation of E-cadherin expression at the invasive tumor front of Indian oral squamous cell carcinomas: An immunohistochemical study. Journal of Oral and Maxillofacial Pathology, 2014. Vol. 18 (2) Page 217-222.

The details of books/chapters in books published by faculty:

Year 2012

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher
1	Tooth Eruption	Orban's Oral Histology and Embryology by G S Kumar	Dr. Karen Boaz	Elsevier

Year 2013

Sl#	Title of the book	Name of the faculty	Publisher
1	Sculptodontia-A Guide to Tooth Carving	Dr. Srikant N.	Paras Medical Publisher, Hyderabad, India.
2	Giant Cell Lesions of Oro-facial Region	Dr. Nandita KP Dr. Karen Boaz	Lambert Academic Publisher, India
3	Basement Membrane Biology	Dr. Amitha Lewis Dr. Karen Boaz	Lambert Academic Publisher, India
4	Artefacts in Oral Pathology	Dr. Nidhi Manaktala, Dr. Karen Boaz	Lambert Academic Publisher, India

Year 2013

Sl#	Name of the chapter	Title of the book	Name of the faculty	Publisher
1	Developmental disorders (Chapter 4)	Text Book of Oral Medicine Oral Diagnosis and Oral Radiology by Ravikiran Ongole and Praveen B N, II Edn.	Dr. Karen Boaz	Elsevier, 2013.
2	Laboratory diagnostic procedures' (e-Chapter IV)		Dr. Karen Boaz	Elsevier, 2013.
3	Odontogenic tumours	Text Book of Oral Medicine Oral Diagnosis and Oral Radiology by Ravikiran Ongole and Praveen B N, II Edn.	Dr. Srikant N.	Elsevier, 2013.

The details of Conference presentations:**Year 2012****International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Anticipating Oral Mucositis in Oral Cancer Patients Undergoing Radiotherapy: a Cytological Correlation	Dr. Nidhi Manaktala	International Conference, "Sofia Dental Meeting" held in Bulgaria from 27 th to 30 th September 2012.

National

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Pre-treatment haematological variations among HIV infected individuals: Relevance with regard to dentistry	Dr. Amitha Lewis	XXI National Conference of IAOMP held at Grand Hyatt, Goa from 26th to 28th October, 2012

Year 2013**International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Correlating Mitotic and Nucleolar Organiser Region Indices - a better prognosticator of Oral Squamous Cell carcinoma	Dr. Karen Boaz	7th Conference on Experimental and Translational Oncology held in Portoroz, Slovenia from 20th to 24th April, 2013
	Oral Biopsy Techniques: An Oral Pathologist's Perspective	Dr. Srikant N.	NDA Conference 2013 held on 2 nd February 2013, at Chitwan Medical College, Bharatpur, Chitwan, Nepal
2	Receiver Operator Characteristics – A Novel Technique of Assessment of Tooth Eruption	Dr. Srikant N.	FDI 2013 Istanbul 101 st Annual World Dental Congress at Istanbul on 28-31 August 2013
3	Accuracy of Bite Mark Analysis: An Affirmation to the Guilt	Dr. Nandita KP	FDI 2013 Istanbul 101 st Annual World Dental Congress at Istanbul on 28-31 August 2013
4	Pulp/tooth ratio in the estimation of age: A study on Mandibular premolars	Dr. Amitha Lewis	FDI 2013 Istanbul 101 st Annual World Dental Congress at Istanbul on 28-31 August 2013

Year 2014**International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Immunohistochemical Assessment of Epithelial Mesenchymal Transition with Tumour Satellite Distance as a Prognosticator in Oral Squamous Cell Carcinomas	Dr. Karen Boaz	41 st Annual Scientific Meeting of Clinical Oncology Society of Australia, 02-04 December 2014 at Melbourne, Australia
2	Radicular cyst reassessed – Histopathological study in Indian population	Dr. Nidhi Manaktala	OMICS Dental & Oral Health 2014, Dubai from 21 st - 23 rd April, 2014

National

SI#	Title of the presentation	Name of the faculty	Details of Conference
1	MOKO MIKI: Grading of OSCC: A better prognosticator	Dr. Srikant N.	XXIII National Conference of the IAOMP at Bangalore from 28-30 November, 2014
2	Gender & Race Differentiaon – An Odontometric Analysis	Dr. Nandita KP	XIV National PG Convention at Kolkata from 19-20 July, 2014
3	Palatal Rugoscopy – A clue to establish the identity	Dr. Nandita KP	12 th IAFO National Conference at Dehradun from 20-21 September, 2014

12. Placement record of the past students and the contribution of the department to aid student placements

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years

Undergraduate Training:

- Effective use of teaching aids and methodology in didactic lectures
- Small group discussions to improve the communication skills among undergraduate students

Postgraduate Training:

- Work on the curriculum to improve the PG training by including discussions and skills
- PG training by including discussions and skills
- To involve them in research projects and scientific presentation and publication of research results
- Regular oral presentations of journal articles of interest
- Seminars on recent advances in Oral Pathology

Research:

- Develop research laboratory
- Extend the laboratory space and procure more equipment that can help us diversify areas of research

DENTAL MATERIALS

1. Faculty profile - adequacy and competency of faculty

There are two teaching faculty which meets the requirements for, BDS and also for postgraduate training. All faculty are competent.

SI#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. Ravindra Kotian	M.Tech, PhD	Reader & Head	26
2.	Mrs. Prashanthi. S. Madhyastha	M.Sc.	Sr. Lecturer	09

Category	Sanctioned	Filled
Teaching staff	2	2

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01: Student Profile for detail

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The syllabus of both UG and PG courses, are updated at the board of studies meetings held at the Manipal University. The course is regulated by DCI and the department strictly complies with the laid down requirement.

4. Trends in the success and drop out rates of students during the past three years

Course	Pass Percentage			Dropout Rate		
	2011-12	2012-13	2013-14	2011-12	2012-13	2013-14
II BDS	95	89	92	0	0	0
PG Dip. In Dental Mat.	100	-	-	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources-

Library: Department library, Basic science library and Central library

Computers: Laptop-2, Study models

Laboratories and other resources: UG Laboratory and PG Laboratory

6. Modern teaching methods practiced and use of ICT in teaching – learning

Audio visual aids are being used extensively for teaching purposes. Lecture halls and seminar halls are equipped with computers and LCD projectors to enable the faculty to use PowerPoint presentations while teaching students. Wi-Fi facility. All students are provided with laptops/I pads.

Activity based learning is effectively used in the classroom

Group discussions, seminars, interactive sessions, case studies etc. are conducted regularly.

Computer aided and audio-visual materials are used in coaching the students

Encouraging the students to participate in the State and National Level seminars

Preparing them to pursue Higher Education

7. Participation of teachers in academic and personal counseling of students

All The faculty members of the department actively participate in the Teacher guardian scheme. Their academic performance and attendance are regularly monitored and brought to the notice of their parents. Counseling to students is done as and when necessary

Academic advisory system adopted by the college, ensures that every teacher bears the responsibility of properly counseling and guiding the students

Parents are also counseled during the Parent-Teacher Meet and as and when necessary

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Faculties attend faculty development programmes pertaining to teaching-learning and evaluation and also research methodologies. All of them have undergone training regarding the same in the past. All faculty regularly attend various scientific programmes like conferences, workshops, symposia and CPDs.

The Biostatistics course attended by Mrs. Prashanthi S. Madhyastha, Sr. Lecturer has helped in the Statistical Analysis of her Research work. Dr. Ravindra Kotian attended a training programme “Nurturing an effective work place”

In last two years (2012 and 2013) the faculty have attended and presented Research paper in **4 National and 3 International conferences.**

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

Didactic lectures for both UGs and PGs, Moderating and evaluating undergraduate seminar and group discussion and also post graduate teaching. Participation in clinical society meeting, Guide ICMR STS projects. The faculty involve in research activities like pursuing PhD in the area of their specialization.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Nil

11. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past three years

Priority area of Research:

- Materials Characterization

Ongoing:

Category	Number
Funded research projects	1
Non-funded research projects	-
PhD research projects	1
PG research projects	-
UG research projects	1

Last 3 years (2011-2013):

		2012	2013	2014
Completed funded research projects		-	1	2
Completed non-funded research projects		-	-	-
Completed PhD research projects		-	-	-
Completed PG research projects		-	-	-
Completed UG research projects		-	1	2
Publications	International	1	1	-
	National	1	1	1
Books		-	-	-
Chapters in books		-	-	-
Conference presentations	International	2	1	-
	National	3	1	4

Ongoing PhD research project:

Sl#	Title	Name of the research scholar	Guide
1	“Evaluation of biocompatibility and biomechanics of silorane based restorative material”.	Mrs. Prashanthi S. Madhyastha	Dr. Dilip G. Naik

Funded (completed) UG research projects are:**Year 2013:**

Sl#	Title	Name of the student	Guide
1.	“In vitro evaluation of sealing ability and antimicrobial activity of hydraulic temporary sealing materials” (ICMR-STs)	Khyati Gidwai.	Mrs. Prashanthi S. Madhyastha

Year 2014:

Sl#	Title	Name of the student	Guide
1.	In vitro evaluation of cytotoxicity & corrosion behavior of commercially pure Ti & Ti-6Al-4V alloy for dental implants (ICMR-STs)	Ms. Sanchita Chandar	Dr. Ravindra Kotian
2.	Effect of temperature, time interval and storage condition on fluoride release and recharge from esthetic restorative materials (ICMR-STs)	Ms. Madhura Sen	Mrs. Prashanthi S. Madhyastha

The details of Conference presentations:**Year 2012:****International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Fluoride release of restorative materials	Prashanthi S. Madhyastha	AEEDC Dubai , 31 January- 2 February, 2012
2	CAD/CAM in Dentistry: An Overview”	Prashanthi S. Madhyastha	Marina Bay Sands Hotel, Singapore , 6-7 October, 2012

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Plasma based processes and potential applications in dentistry	Dr. Ravindra Kotian	65 th IDC, Mumbai , 19-21 February, 2012
2	Effect of plasma gas atmosphere on HA coated Ti-6Al-4V	Dr. Ravindra Kotian	27 th IACDE & 20 th IES National Conference, 6-9 th Dec 2012, Dubai
3	CAD CAM New Materials and Technologies	Prashanthi S. Madhyastha	Indian Dentistry Research & Review, Bangalore , July 20 to 22, 2012.

Year 2013:**International:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Cytotoxicity of silorane & methacrylate based dental composites on gingival fibroblast	Prashanthi S. Madhyastha	FDI 2013 Istanbul , 28-31 August 2013

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Biocompatibility test by platelet adhesion of plasma coated HA on Ti and Ti-6Al-4V in different gas atmospheres	Dr. Ravindra Kotian	28 th IACDE & 21 st IES National Conference, 14-17 Nov 2013, Hyderabad

Year 2014**National:**

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Annealing heat treatment of Ti and Ti-6Al-4V used for dental applications	Dr Ravindra Kotian	29 th IACDE & 22 nd IES National Conference, 5-7 th Dec 2014, Jaipur

2	Effect of elevated temperature on various restorative materials: An in vitro study	Mrs. Prashanthi S. Madhyastha	Indian Association of Forensic Odontology, 20-21 st Sept 2014, Deharadun
3	Degradation of resistance of silorane & methacrylate base composites: Evaluation of water sorption & solubility	Mrs. Prashanthi S. Madhyastha	2 nd Interstate & 42 nd KSDC Conference, 20-30 Nov 2014, Mangalore
4.	Effect of staining solution & immersion period on colour stability of silorane and metacrylate restorative materials	Mrs. Prashanthi S. Madhyastha	Dentistry 2014, 16-17 August 2014, Bangalore

International: Nil

Journal Publications:

2012:

National:

- **Prashanthi S. Madhyastha**, Srikant N. “Analyzing association and repeated measures data”. Journal of Conservative Dentistry, Oct-Dec 2012; 15(4): 400-401.

International:

- **Prashanthi S. Madhyastha**, Satinder Kaur, **Ravindra Kotian**. “Coating for dental implants”. Dental Poster Journal, No. 2, 2012 July-August, Issue 1.

2013:

International:

- **Prashanthi S. Madhyastha**, Dilip G. Naik, **Ravindra Kotian**, N. Srikant, Kumar M. R. Bhat. “Effect of staining solutions on colour stability of acrylic denture base resins: A spectrophotometric evaluation” Research Journal of Pharmaceutical, Biology & Chemical sciences, Jan-March 2013; 4(1): 549-559.

National:

- **Prashanthi S. Madhyastha**, **Ravindra Kotian**, Vivekananda Pai, AMA Khader. “Fluoride release from glass ionomer cements: Effect of storage temperature, time interval and storage condition. Journal of Contemporary Dentistry, March-August 2013; 3(2): 68-73.

2014:

National:

- Kyaati Gidwani, **Prashanti Sampath Madhyastha**, N. Srikant, Ethel Suman, **Ravindra Kotian**. “In vitro evaluation of sealing ability and antimicrobial activity of hydraulic temporary sealing”. Journal of Restorative Dentistry; 2(1), Jan-Apr 2014: 13-19.

12. Placement record of the past students and the contribution of the department to aid student placements

After completion of second BDS students would progress to third year

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years

To have 100% PhD qualified teachers

To organize seminars/workshops on topics related to the Dental Materials

To apply for major and minor research projects

PROSTHODONTICS AND CROWN AND BRIDGE

1. Faculty profile -adequacy and competency of faculty

The teaching faculty meets the stipulated requirements of the statutory body (i.e. Dental Council of India) with respect to undergraduate and postgraduate training. They are all competent.

Sl#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	Dr. Shobha J. Rodrigues.	M.D.S.	Professor & Head	13
2.	Dr. Thilak Shetty.	M.D.S.	Professor	15
3.	Dr. Umesh Y. Pai	M.D.S.	Assoc. Prof.	08
4.	Dr. Sharon J R Saldanha	M.D.S.	Assoc. Prof.	07
5.	Dr. Mahesh M	M.D.S.	Asst. Prof.	05
6.	Dr. Puneet Hegde	M.D.S.	Asst. Prof.	02
7.	Dr. Navya K	B.D.S.	Lecturer	03
8.	Dr. Charisma Thimmaiah	B.D.S.	Lecturer	01
9.	Dr. Sujata Deshmikh	B.D.S.	Lecturer	01
10	Dr.Shubhashree	B.D.S.	Lecturer	01
11	Dr. Shreya Nayak B	B.D.S.	Lecturer	<01

Category	Sanctioned (As per DCI)	Filled
Teaching Staff	11 (3 MDS & 8 BDS)	11

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01. Student Profile for details

3. Changes made in the courses or programme during the past two years and the contribution of the faculty to those changes

The course is regulated by DCI and the Department complies with the laid down requirement. In addition to the stipulated DCI guidelines, OSPE and OSCE have been included and attempts have been made to make the programme simple, student friendly and approachable by all strata of students.

4. Trends in the success and drop out rates of students during the past two years.

YEAR	Batch	No. of students appeared	Number of distinction	Number of I class	Number of pass class	%age	Drop Out Rate
2012-13	II BDS (Regular)	88	20	49	19	100%	0
2013-14	II BDS (Regular)	98	7	55	36	100%	0

2013-14	II BDS (IR)	06	--	04	02	100%	0
2012-13	IV BDS PART II	79	1	46	32	100%	0
2013-14	IV BDS PART II	90	5	57	27	99%	1
2012-13	Postgraduate MDS	2	--	--	2	100%	0
2013-14	Postgraduate MDS	3	--	--	2	100%	0
2011-12	PG Diploma in Dental Materials	1	--	--	1	100%	0

5. Learning resources of the departments - library, computers, LCD Projector and other resources

The department's infrastructure is adequate for its current teaching needs. The department has a well-equipped library with over 89 books and two computers are available in the department. The department is equipped with a LCD projector. It has online access to the internet and Wi-Fi facility is available.

6. Modern teaching methods practiced and use of ICT in teaching - learning

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge and problem-solving. Every attempt is made to encourage students to participate in group discussions and seminars to enable them to develop personality, character, expression and other faculties which are necessary for a dental graduate to function either in solo practice or as a team leader when he begins his independent career. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

The clinical education is broad-based and structured in a way to provide an increasing experience in diagnosing and Prosthetic rehabilitation of patients. Clinics are organized in small groups so that a teacher can give personal attention to each student with a view to improve his skill and competence in handling of the patients. While the curriculum objectives often refer to areas of knowledge or science, they are best taught in a setting of clinical relevance and hands on experience for students who assimilate and make this knowledge a part of their own working skills

In a nutshell, the teaching-learning methods used are:

- Interactive lectures with appropriate use of Audiovisual aids

- Small group teaching
- Seminars/Self-directed learning
- Practical Demonstrations
- Journal Club discussions

The department has always believed that all learning should be student-centric. This would enable our students to develop not just knowledge but skills required to compete in today's globalised world. A few of the methods used to make learning student centric are:

- Assignments (either individual or group)
- Case presentations
- Seminars

7. Participation of teachers in academic and personal counseling of students

The faculty members of the department actively participate in the Teacher guardian scheme. Students are encouraged to come to meet their respective Guardians in the Department and express any difficulties with respect to their studies or other matters. Feedback in attendance and performance is provided to the College office.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

The college has a teaching- learning programme to enable teachers to upgrade their skills. This is done through the Medical Education Unit. In addition, information regarding any such programme being conducted outside the college is brought to the attention of the faculty. The college has now made attendance in a staff development programme qualifying criteria for academic advancement (promotion). While all Faculty have attended these Teaching Learning programmes in the past, in the past two years 3 faculties had been deputed to attend the same.

Faculty regularly attends various scientific programmes like conferences, workshops, symposia and CMEs. Two of our teachers have been awarded the Best teacher award.

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching under graduate and postgraduate training. All of them participate in research. The Department has successfully guided four students in short term ICMR sponsored research in the past 5 years.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

The department in collaboration with Indian Prosthodontic Society hosted three Preconference courses at the National Level during the period August 2012.

1. Priority areas for Research and details of the ongoing projects

Priority areas of research:

- Implant related research in maxillofacial region
- Morphometric analysis of Bone using CBCT as a diagnostic tool.

Ongoing:

Category	Number
Funded research projects	-
Non-funded research projects	-
PhD research projects	-
PG research projects	6
UG research projects	2

	2012	2013	2014
Completed funded research projects	Nil	Nil	Nil
Completed non-funded research projects	Nil	Nil	Nil
Completed PhD research projects	Nil	Nil	Nil
Completed PG research projects	2	3	3
Completed UG research projects	1	Nil	1
Publications	International	4	1
	National	2	2
Books	1	Nil	Nil
Chapters in books	Nil	Nil	Nil

Our ongoing Short term research projects are:

Name of Projects	Details	Name of the student	Name of the Guide
Department Project	Patients awareness, attitude and knowledge towards implant treatment in an institutional setup: A cross-sectional study	Ms.Aarti Ganesh Prabhu	Dr. Mahesh M

Department Project	Comparison of pain perception in patients undergoing dental extraction followed by dental implant surgery using modified VAS	PalakRazdan	Dr. Umesh Pai
Department Project	An in vitro study to compare the effect of different storage times and conditions on the dimensional accuracy of alginate impression material	Dr. Nikita Batra Dr.PallaviChavan	Dr. Shobha J Rodrigues
Department Project	Effect of surface finish on colour stability of a provisional restorative material- an in-vivo study	Dr Nikita Khurana	Dr. Shobha Rodrigues

Our ongoing PG research projects are:

SNo	Title	Name of the student	Guide
1.	“ A Comparative study to evaluate the effect of repeated cycles of chemical disinfection and microwave irradiation on the surface hardness and surface roughness of two commercially available hard relining materials and denture base acrylic resin”	Dr. RohitKabra	Dr. Shobha Rodrigues
2.	A comparative evaluation of stress distribution with two different attachment systems of varying heights in a mandibular implant-supported over denture- A three dimensional finite element analysis	Dr. Nikita Khurana	D. Shobha Rodrigues
3.	A comparative evaluation of stress distribution in angulated titanium and Zirconia abutments in anterior maxilla – A three dimensional finite element analysis	Dr. SumedhaKapoor	Dr. Thilak Shetty
4.	“ A non linear three dimensional finite element analysis of stress distribution in short dental implants with three different implant abutment	Dr. Karishma Sunil Talreja	Dr. Shobha Rodrigues
5.	“ An In-Vitro study to compare the colour stability of a readjusted all Ceramic material by reglazing and surface polishing using	Dr. NiktaBatra	Dr. Shobha Rodrigues

	spectrophotometer		
6.	Comparative study to evaluate effect of different finish lines and different luting agents on micro leakage in metal sintered Co-Cr Copings	Dr. PallaviChavan	Dr. Thilak Shetty

Our completed PG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1.	Study of speech characteristics before and after the insertion of removable complete denture prosthesis in geriatric edentulous patients	Dr. PuneetKaur Reg No 100408002	Dr. Vidya K Shenoy
2.	Influence of varying ferrule heights and configurations on the fracture resistance of endodontic ally treated mandibular first premolars – An in vitro study	Dr. ShriyaMarya Reg No: 100408003	Dr. Thilak Shetty

Year 2013

Sl#	Title	Name of the student	Guide
1.	A Comparative evaluation of stress distribution between conventional and platform switched implant supported crown in different densities of bone – A three dimensional finite element analysis	Dr. Sharuti 110408003	Dr. Thilak Shetty
2.	Comparative Evaluation of antifungal action of Tea tree oil, Chlorhexidinegluconate and Fluconazole on heat polymerized acrylic denture base resin. An in-vitro study	Dr. SameenDalwai 110408002	Dr. Shobha Rodrigues
3.	Evaluation of effect of recasting of nickel chromium alloy on its cast ability using different investment materials	Dr. Abhinav 110408001	Dr. Shobha Rodrigues

Year 2014

Sl#	Title	Name of the student	Guide
1.	An objective and subjective evaluation of dental implant impression using vinylsiloxanether and polyether impression materials – An invivo study	Dr. DivyaRaigangar	Dr. Shobha Rodrigues

2.	Effect of exposure time of eugenol containing temporary cements on macrotensile bond strength of self etching dual cure permanent resin cement – An invitro study	Dr. Nimit Jain	Dr. Shobha Rodrigues
3.	To compare the quality of impression after gingival displacement with magic foam cord (MFC) and gingival retraction cord- An in vivo study	Dr. RohanBandi	Dr. Thilak Shetty

Our completed UG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1	“Knowledge, attitude and confidence of dentist in handling medical emergencies – a questionnaire survey among dentist of D.K. district, Karnataka	Dr. Himani	Dr. Mandakini Mohan

Year 2014

Sl#	Title	Name of the student	Guide
1	Study motives and future aspirations of students at Manipal College of Dental Sciences, Mangalore – A quantitative Study	Dr. Neetha D Shenoy	Dr. Sharon Saldanha

Year 2012

National Journals:

1. **Shobha Rodrigues, S. Ramananda Shetty & Prithvi Raj** . “An evaluation of shade differences between natural anterior – teeth in different age groups and gender using commercially available shade gender” .The journal of Indian Prosthodontic Society 2012 DOI 10.1007/s13191-012-0134-9
2. **Shobha Rodrigues, Vidya Shenoy & Thilak Shetty**. “Resilient Liners: A Review” The journal of Indian Prosthodontic Society 2012DOI 10.1007/s13191-012-0143-B

International Journals:

1. **Vidya K Shenoy**. “Gingival displacement in prosthodontics: A critical review of existing methods” Journal of Interdisciplinary Dentistry, Jan-Apr 2012, Vol-2(1), 54-55.

2. **Sharon Saldanha, Vidya K Shenoy and Prashanti Eachampati.** “Dental implications of bisphosphonate-related osteonecrosis”. Gerodontology 2012; 29:177-187.
3. Atul A., **Dr. Sharon Saldanha and Dr. Vidyda K Shenoy.** “Evaluation of satisfaction with masticatory efficiency of new conventional complete dentures in edentulous patients – a survey”. Gerodontology 2012; 29:231-238.
4. **Mahesh Mundathaje.** “Recent advances in Gingival Retraction – Quick Painless, Atraumatic, and cost effective”. International Dental Journal: 2012; 62(suppl1):83.

Year 2013

National Journals:

1. **Dr. Mahesh M, Veena Hegde.** “Effect of Infection control aids on polymerization inhibition of polyvinyl siloxane impression materials – An invitro study”. Indian Journal of Dentistry (4)18-212013.
2. **Dr. Minu Raju, Manoj Shetty, Krishna Prasad D.** “Prosthetic Rehabilitation of Patient with Congenitally Deformed Ears”– Clinical Report” Indian Prosthodontic Society”. 2013.

International Journals:

1. **Dr. Shobha Rodrigues, Dr. Shetty P.** Polishing of cast metal denture frame works: An alternative technique. Journal of Nepal Dental Association (13)112-113-2013.

Year 2014

National Journals:

1. **Dhananjay S Gandage Gangadhar S.A., ArunaJ. Bhandari, Legdive S.B, Umesh Pai.** Management of Single Edentulous Space with Resin Bonded Prosthesis. 2 year follow up. Indian Journal of Dental Education6 (2)85-89 2013.
2. **Dr. Shobha J. Rodrigues, Dr. Umesh Pai, Dr.Divya Raigangar.** Fibre – Reinforced Composite for Chairside Replacement of Missing Anterior Tooth Guident8 (2)37-39, 2014.

3. **Arshiya Gupta, Vidya Kamalaksha Shenoy, Thilak B Shetty, Shobha J Rodrigues.** Evaluation of pattern of occlusal contacts in lateral excursion using articulating paper and shim stock: An in vivo study. Journal of Interdisciplinary Dentistry: 3(2)109-113, 2013.
4. **Vidya Kamalaksha Shenoy, Shobha Rodrigues, Prashanti E, Dr. Sharon Saldanha.** Tooth implant supported Prosthesis: A Literature review Journal of Interdisciplinary Dentistry: 3(3) 143- 150,2013.
5. **Mandava Prasad, Mohd Z. Hussain, Sharath K Shetty, T. Ashok Kumar, Mohit Khaur, Suja A George, Sameen Dalwai.** Median mandibular flexure at different mouth opening and its relation to different facial types: A prospective clinical study. Journal of Natural Sciences, Biology and Medicine4 (2)426-430; 2013.
6. **Sharuti Abhinav, Thilak Shetty, Dr. Shobha R.** Tailored Eye Prosthesis for Anophthalmic Sockets – A case report Journal of Dental Peers; 2(1)2014.

International Journals:

1. **Umesh Y. Pai, Vikram Sinha Reddy, Rushad Nariman Hosi.** A single step Impression technique of flabby ridges using mono phase polyvinyl siloxane material: A case report Case reports in Dentistry 2014.
2. **Dr. Mahesh M Dr. Shobha Rodrigues, Dr. Sharon Saldanha.** Redefining the Treatment Modalities for Denture Stomatitis – A Review International Journal of Research in Dentistry 4 (2)8=27 2014.
3. **Umesh Y. Pai, Nikita Lolayekar, Varsha Umanathan.** Custom Ocular Prosthesis as a Palliative Aid for a Pediatric Patient with a Surgical Enucleation following Retinoblastoma Majmaah Journal of Health Science2(1)58-602014.
4. **Shobha Rodrigues, Mahesh Mundathaje, Minu Raju.** Three Dimensional Imaging in Implant Assessment for the Prosthodontist Utilization of the Cone Beam Computed Tomography. International Journal of Prosthodontics and Restorative Dentistry. 4(1):23-33;2014.
5. **Minu Raju.** Comparison of Exothermic Release during the polymerization of four materials used to fabricate provisional restorations International Journal of Prosthodontics and Restorative Dentistry: 4(1),1-5;2014.

The details of books published by our faculty are given below:

Year 2012

Sl#	Title	Name of the faculty	Publisher
1.	'Salivary proteins on titanium abutments Pg No:	Dr. Sharon Saldanha	Lambert Academic Publication

Chapters in books: Nil

The details of our conference presentations have been listed below.

International (2012)

Sl No	Title of the presentation	Name of the faculty	Details of Conference
1	Recent advances in Gingival Restriction – Quick Painless, Atraumatic, and cost effective	Dr. Mahesh M	FDI Annual World Dental Congress held on 29 th August – 1 Sept. 2012 at Hong Kong
2	Esthetic & Functional Rehabilitation of a Maxillary arch – A Case Report	Dr. Vidya K Shenoy	4 th Melaka Dental Conference & Trade Exhibition Held on 6 th Oct 2012 Held at Melaka, Malaysia.
3	What do our students perceive about their learning experiences in the clinical setting?	Dr. Sharon Saldanha	23 rd SEAADE Annual Meeting held on 1 st & 2 nd Nov. 2012 by the Faculty of Dentistry, The University of Hong Kong at Hong Kong

National (2012)

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Maxillary Arch Rehabilitation- A case report	Dr. Puneet Kaur	14 th IPS PG convention held at A.B. Shetty Memorial Institute of Dental Sciences, on 27 th , 28 th & 29 th July 2012 at Mangalore
2	Prosthetic management of severely resorbed ridges - A case report	Dr. Sameen Dalwai	14 th IPS PG convention held at A.B. Shetty Memorial Institute of Dental Sciences, on 27 th , 28 th & 29 th July 2012 at Mangalore
3	Role of Prosthodontist in Forensic Odontology	Dr. Sharuti	14 th IPS PG convention held at A.B. Shetty Memorial Institute of Dental Sciences, on 27 th , 28 th & 29 th July 2012 at Mangalore
4	Prosthetic Rehabilitation of Atrophic Ridges – A Case Report	Dr. Vaibhav Gupta	ICD convention & Fandent Show held at on 27 th , 28 th & 29 th July 2012 at New Delhi

5	Prosthetic considerations for an esthetic rehabilitation: A confluence of science and art – Comprehensive case report	Dr. Shobha Rodrigues	5 th National ISPRP Conference on 24 th to 26 th August 2012 at Mangalore
6	Intrusion of teeth: complication of implantodontics	Dr. Shobha Rodrigues	19 th National Conference of Indian Society of Oral Implantologists Held from 26 th – 28 th Oct 2012 at Bangalore
7	An in-vitro study evaluate the temperature increase in the pulp chambers during the polymerization of provisional restorative material	Dr. Minu Raju	40 th Indian Prosthodontic Society Conference held from 5 th Dec. to 9 th Dec. 2012 at Chennai.
8	Three Dimensional Analysis of Two, four and All-On-Four implant supported Prosthesis	Dr. Puneeth Hegde	40 th Indian Prosthodontic Society Conference held from 5 th Dec. to 9 th Dec. 2012 at Chennai.
9	Bone Graft materials – Journey of Savior	Dr. Abhinav Sharma	40 th Indian Prosthodontic Society Conference held from 5 th Dec. to 9 th Dec. 2012 at Chennai
10	Ocular Rehabilitation – A case series	Dr. Sameen Dalwai	40 th Indian Prosthodontic Society Conference held from 5 th Dec. to 9 th Dec. 2012 at Chennai
11	Comparison between two techniques to control intrapulpal temperature rise during fabrication of provisional restoration using direct method - An in-vitro study”	Dr. Sharuti Yakhmi	40 th Indian Prosthodontic Society Conference held from 5 th Dec. to 9 th Dec. 2012 at Chennai
Table Clinic Demonstration			
12	“Face Off” - Prosthesis Beyond Prosthetics	Dr. Nimit Jain, Dr. Rohan Bandi, Dr. Divya Raingar	40 th Indian Prosthodontic Society Conference held from 5 th Dec. to 9 th Dec. 2012 at Chennai

International (2013)

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Microbial Assessment of Dental unit water lines in an Institutional set up	Dr. Shobha.Rodrigues	UAE International Dental Conference & ARAB Dental Exhibition
2	Key for Prosperous Aesthetics In Implant Prostodontics	Dr. Puneet Hegde	FDI joint International Conference & 80th Anniversary Annual Scientific Sessions of Dental Association
3	CAD/CAM as a key player in fabrication of implant components	Dr. Mahesh M	CAD/CAM & Digital Dentistry International Conference

National (2013)

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Microbial assessment of dental unit waterline in an institutional set up	Dr. Shobha Rodrigues	1st KPS Convention at Goa. 28th& 29th Sept 2013
2	Party Gums – A boon to boost self confidence	Dr. Puneeth Hegde	1 st KPS Convention, at Goa. 28th& 29th Sept 2013
3	A comprehensive Analysis of Mandibular Implant Supported Overdentures	Dr. Umesh Pai	41st Indian Prosthodontic Society National Conference at Ahmedabad 13th to 17th November 2013
4.	CAD/CAM in Implant Dentistry	Dr. Minu Raju	41st Indian Prosthodontic Society National Conference at Ahmedabad 13th to 17th November 2013
5.	Platform switching – a solution for crestal bone loss in implant treatment	Dr. Minu Raju	The International Congress of Oral Implantologists at Kochi 2nd to 4th August

International (2014)

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Assessment of Needle Stick Injury In An Institutional Setup – A Retrospective Analysis	Dr. Shobha Rodrigues	UAE International Dental Conference at Dubai, 4-6 February 2014
2.	Discoloured Anterior Tooth Using Minimally Invasive Procedures & Optimal Gingival Esthetics Around the Restored Tooth: A Case Report	Dr. Sharon Saldanha	36th Asia Pacific Dental Congress at Dubai, 17th – 19th June 2014

National (2014)

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	Role and Importance of Prosthodontics in Identification	Dr. Puneeth Hegde	2 nd KPS Conference at Mysore 18-20th September 2014

2.	Role and Importance of Prosthodontics in Identification	Dr. Shobha.R.	Indian Society of Oral Implantologists 21st Conference at Chennai 2nd to 4th October, 2014,
2.	Catch up with new innovations in complete denture fabrication by CAD-CAM	Dr. Thilak Shetty B	42nd Indian Prosthodontic Society Conference 2014 at Chandigarh6th – 9thNov. 2014,
3.	Proposal of a New classification system for posterior mandibular region in implant treatment planning using CBCT	Dr. Umesh Pai	42 nd Indian Prosthodontic Society Conference 2014, at Chandigarh6th – 9th Nov. 2014
4.	Implant Planning for Restoration in the edentulous maxilla decision making from prosthodontic perspective	Dr. Mahesh M	42 nd Indian Prosthodontic Society Conference 2014, , at Chandigarh6th – 9th Nov. 2014
5.	Occlusal Splints in Clinical Practices why, when & how	Dr. Sharon Saldanha	IDC, at Hyderabad, 21st – 23 rd February, 2014
Table Clinic Demonstration			
1.	Moving Into Virtual Dentistry With Digital Impressions: A review	Dr. Sharon Saldanha	FDI Annual World Dental Congress at New Delhi 11-14Sept. 2014,

11. Placement record of the past students and the contribution of the department to aid student placements:

Postgraduate students on completion of post-graduation are likely to head to teaching in various Dental colleges. Some candidates branch out and go into private practice. All our Postgraduate students are successfully employed.

Refer Annexure 02: Student Progression for detail

12. Plan of action of the department for the next five years:

- a. Optimum utilization of resources to enhance student learning.
- b. To improve patient satisfaction through dedicated clinical work
- c. Encourage staff members to enhance research activities
- d. Conduct atleast one Continuing Dental education programme every year
- e. To establish Prosthodontics, MCOADS Mangalore as a “centre of excellence”

CONSERVATIVE DENTISTRY AND ENDODONTICS

1. Faculty profile - adequacy and competency of faculty

There are thirteen teaching faculty which meets the requirements for BDS, MDS also for postgraduate training as per the regulatory body requirements. All faculty members are competent.

Name	Qualification	Designation	Total Experience (Yrs)
Dr. Neeta Shetty	MDS	Professor & Head	14
Dr. Kundabala M	MDS	Professor	23
Dr. Karthik Shetty	MDS	Addl. Prof.	09
Dr. Manuel. S. Thomas	MDS	Assoc. Prof.	08
Dr. Laxmish Mallya	MDS	Assoc. Prof.	06
Dr. Vinod Jathanna	MDS	Asst. Prof.	05
Dr. Shreya Hegde	MDS	Asst. Prof.	03
Dr. Amit Yadav	MDS	Asst. Prof.	03
Dr. Clany D'Souza	BDS	Lecturer	08
Dr. Chitra. P. Pai	BDS	Lecturer	2
Dr. Shailaja B	BDS	Lecturer	1
Dr. Ruchi Sharma	BDS	Lecturer	1
Dr. Joyce Pinky	BDS	Lecturer	<1

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Category	Sanctioned (as per DCI)	Filled
Teaching (MDS) staff	8	8
Teaching (BDS) staff	5	5

Refer Annexure 01: Student Profile for detail

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The syllabus of both UG and PG courses, are updated at the board of studies meetings held at the Manipal University conducted annually. The course is regulated by DCI and the department strictly complies with the laid down requirement.

4. Trends in the success and dropout rates of students during the past two years

Course	Pass Percentage		Dropout Rate	
	2012-2013	2013-2014	2012-2013	2013-2014
BDS	100	100	0	0
MDS	100	100	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources-

The department library has with about 140 reference books in the subject & allied specialties for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition department also has 3 desktop computers complete with multi-functional printers. The department has air conditioned seminar rooms with LCD and AV aids for clinical teaching, discussion and learning.

UG and PG preclinical sections are equipped with 104 mannequins, study models and associated set-up and materials for preclinical demonstration and training.

Clinical section has dental chairs & adjunct facilities such as instruments, equipment and materials for clinical demonstration and training.

The department has laboratories well equipped with all the instruments in adequate number for carrying out patient treatment related lab work.

6. Modern teaching methods practiced and use of ICT in teaching – learning

Audio visual aids are being used extensively for teaching purposes. Lecture halls and seminar halls are equipped with computers and LCD projectors to enable the faculty to use PowerPoint presentations while teaching students. Wi Fi facility. All students are provided with laptops/I pads. Clinical case demonstrations are done for undergraduate students. Discussions and demonstration for postgraduates are conducted for various topics.

Activity based learning is effectively used in the classroom

Group discussions, seminars, interactive sessions, case studies etc.

Computer aided and audio-visual materials are used in coaching the students

Encouraging PG & UG students to participate in the State and National Level seminars

By guiding PG & UG students for short term (eg. ICMR) projects, preparing them to take up research projects.

7. Participation of teachers in academic and personal counseling of students

All the students and parents are oriented for the course at the entry level. All the faculty members of the department actively participate in the Teacher guardian scheme. Their academic performance and attendance are regularly monitored and brought to the notice of their parents and higher administrative authorities for planning necessary action. Counseling to students is done as and when necessary.

Academic advisory system adopted by the college, ensures that every teacher bears the responsibility of properly counseling and guiding the students

Parents are also counseled during the Parent-Teacher Meet and as and when necessary.

Students are referred to Psychiatric or clinical psychologists when necessary.

8. Details of faculty development programs and teachers who have been benefited during the past two years

Faculty members are initially oriented to the system as soon as they join the institution. They attend faculty development programs pertaining to teaching-learning, evaluation and also research methodologies. The faculty regularly attends various scientific programs like conferences, workshops, symposia and CPDs. In last two years (2012 to 2014) 11 National and 12 International conferences and 4 workshops have been attended by the faculty. In the past 2 years, faculty have attended workshops on ethical issues in biomedical research, Biostatistics course, endodontic surgical microscopes, esthetic veneers and this has helped the department to conduct the short term research projects and PG dissertations as well as research projects of the institution.

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

The department ensures that equal attention is given to teaching, research and service. Faculty is involved in conducting didactic lectures, seminar and group discussion for both undergraduate students and undergraduate students. They guide students for short term research projects, table top demonstrations and ICMR/MUTBI projects.

Faculty gets involved in clinical guidance, demonstrations of cases, case discussions clinical society meeting presentations for post graduates.

The faculties actively take part in various research activities by getting involved in conducting studies and applying for funds and grants. The undergraduate students and post graduate students are encouraged to take part in research and faculty guide them as and when

required. The students are encouraged to present the papers generated out of this research work in various conferences/conventions and publish the same.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Postgraduate students and faculty carry out many clinical procedures based on Interdisciplinary approach with other departments. Many of the PG thesis have been done in collaboration with Department of pharmacology, microbiology, oral pathology, public health dentistry and oral medicine. This collaboration has helped department in rendering effective and successful clinical procedures, publications and studies in the past two years.

11. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past two years

Priority areas: Dental and Restorative materials, Conservative Dentistry & Endodontics and allied/ other areas related to Health Care and Dental Education.

Summary of our research activities and publication activities in given in the tables below,

Ongoing:

Category	Number
Funded research projects	1
Non-funded research projects	5
PhD research projects	1
PG research projects	18
UG research projects	11

Last 3 years (2012-2014):

	2012	2013	2014
Completed funded research projects	1	0	0
Completed non-funded research projects	2	0	3
Completed PhD research projects	0	0	1
Completed PG research projects	3	3	3
Completed UG research projects	1	0	10
Publications	International	4	6
	National	4	9
Books	0	2	0
Chapters in books	0	0	0
Conference presentations	International	7	4
	National	1	14

The detailed outline of projects is given below:

Our completed funded research projects are:

#	Title	Faculty Involved	Funding agency	Amount received
1	“Effectiveness of dental health education program using digital aids in dental clinics”	Dr. Kundabala Nov. 2014	Vision group on science and technology Govt. of Karnataka, India	10 lakhs

Our ongoing non-funded research projects are:

Sl#	Title	Faculty Involved
1	“Effect of nitrous oxide on the efficacy of local infiltration in patients with symptomatic irreversible pulpitis in the maxillary molars-A randomized clinical trial”	Dr. Karthik Shetty
2	One year clinical evaluation a bulk-fill flowable composite in restoring non-carious cervical lesions. (ongoing project Protocol no. 14053)	Dr. Manuel Thomas

Our completed non-funded research projects

Sl#	Title	Study status	Faculty involved
1.	Right and left discrimination ability among dental students	Completed	Dr. Manuel Thomas
2.	Knowledge and attitude of dental students towards patients with HIV/AIDS (protocol no. ongoing study:14010)	Completed	Dr. Manuel Thomas
3.	“Perception and attitude of undergraduates dental students towards endodontics as a specialty” by Dr. Neeta Shetty.	Completed	Dr. Neeta Shetty

Our ongoing PhD research projects are:

Sl#	Title	Name of student	Name of the guide
1.	Effectiveness of dental health education on utilization of restorative dental care among rural women associated with self-help group of Mangalore taluk.	Dr. Neeta Shetty	Dr. Kundabala M

OUR ONGOING PG RESEARCH PROJECTS ARE:

Sl#	Title	Name of the student	Guide
1.	“Comparative evaluation of setting time and solubility of zinc oxide eugenol sealer following the addition of Amoxicillin, Propolis, Azadirachta indica and Curcuma longa at a concentration exhibiting maximum antibacterial efficacy”- <i>An in vitro study.</i>	Dr.R.PhaniMoha	Dr. Neeta Shetty
2.	Comparison of the diagnostic accuracy of CBCT and periapical radiography in determining endodontic working length - <i>An invitro study.</i>	Dr. Alok Kumar Basaiwala	Dr. Kundabala
3.	“Comparative evaluation of antimicrobial efficacy of triantibiotic, mixture of calcium hydroxide and omeprazole, and carnosic acid as intracanal medicament against Enterococcus faecalis - <i>An In-vitro study.</i> ”	Dr. Chougule Amruta Ramgonda	Dr. Neeta Shetty
7	“Comparative evaluation of effect of RC Prep Maleric Acid, Citric Acid on micro hardness of dentin- An invitro study”	Dr.Alok Kumar Basaiwala, II year P.G. Student	Dr. Kundabala
8	“Role of CBCT in endodontic Diagnosis”	Dr. Phani Mohan, II year P.G. Student	Dr. Manuel
9	“Evaluation of root and canal morphology of mandibular second molar using CBCT- Retrospective study ”	Dr. Amruta Chougule, II year P.G. Student	Dr. Neeta

Our completed PG research projects are:

Year 2012

Sl#	Title	Name of the student	Guide
1.	Comparative evaluation of sealing ability, solubility & rheological properties of Zinc oxide eugenol & resin based sealers on addition of 10% amoxicillin- An In-vitro study.	Dr. Rachit Jain	Dr. A.R.Vivekananda Pai
2.	Evaluation of biofilm adhering to Gutta –percha points in endodontically treated teeth, infected by E.faecalis: An in vitro study.	Dr. Neha Singh	Dr. Kundabala M
3.	To evaluate the calcium ion release from calcium hydroxide in different vehicles and p^H changes over different time periods.	Dr. Charu Grover	Dr. Neeta Shetty

Year 2013

Our completed PG research projects are:

Sl#	Title	Name of the student	Guide
1.	“ Measurement of Comparative evaluation of calcium release from experimental mixtures of mineral trioxide	Dr.Ashwini.S.F ernandes	Dr. A.R.Vivekananda Pai
2.	“ Comparative evaluation of voids in a new MTA, epoxy resin and Bis-GMA based sealers following root canal obturation: An in vitro study”	Dr.Anisha K. Kuamr	Dr. A.R. Vivekananda Pai
3	“Comparative evaluation of the efficacy of chemomechanical preparation using centrimide as intracanalirrigant, in combination with maleric acid and chlorhexidine in eliminating Enterococcus faecails biofilm” – An in vitro study.	Dr.Naman Sharma	Dr. Kundabala M

Year 2014

Sl#	Title	Name of the student	Guide
1	“Antimicrobial substantivity over time of Chlorhexidine alone and in combination with Cetrimide and Chitosan” - <i>An in vitro study</i>	Dr. Sangeetha P	Dr. Kundabala M
2.	“Comparative evaluation of setting time, flow and sealing of sealers with and without the addition of triple antibiotic powder at a concentration exhibiting maximum antibacterial efficacy” - An in vitro study.	Dr. Girish P	Dr. A.R. Vivekananda Pai
3	“Comparative evaluation of calcium release from experimental mixtures of mineral trioxide aggregates and glass ionomer cement with that of mineral trioxide aggregate and glass ionomer cement alone	Dr. Surbhi Sawhney	Dr. A.R. Vivekananda Pai

Our non-funded UG research projects are:

Sl#	Title	Name of the student	Project status	Guide
1	Knowledge, attitude and practices among dentists on the disinfection of dental light curing units: a cross sectional study (Protocol no. 13150: ongoing student project)	Mr. Vinay Mavani	Ongoing study	Dr. Manuel Thomas
2	Effects of various haemostatic agents on the bond strength of self-adhesive resin cement: an in-vitro study(Protocol no. 14021: completed student project)	Ms. Akansha Anil,	Completed	Dr. Manuel Thomas
3	The effect of 810 nm diode laser and 2% chlorhexidine solution when used for cavity disinfection on the bond strength of resin modified glass ionomer restorative material (Protocol no. 14020: completed student project)	Mr. Ananad Sekhar,	Completed	Dr. Manuel Thomas
	Evaluation of vision associated problems among dental students	Ms. Harshita Sharma	Awaiting IEC approval	Dr. Manuel Thomas

Sl#	Title	Name of the student	Project status	Guide
1.	"Evaluation of students' hand washing knowledge, practices and skills in a college setting"	Ms. Keerthana	completed	Dr. Laxmish Mallya
2	Awareness about the management of Avulsed tooth among medical interns in Mangalore, India	Mssreeprada	completed	Dr. Laxmish Mallya
3	Knowledge and attitude of dental students towards patients with HIV/AIDS (protocol no.:14010)-completed		completed	Manuel S Thomas
4	Effects of various haemostatic agents on the bond strength of self-adhesive resin cement: an in-vitro study(Protocol no. 14021: completed student project)	Akansha Anil, Kishore Ginjupalli	completed	Manuel S Thomas
5	The effect of 810 nm diode laser and 2% chlorhexidine solution when used for cavity disinfection	Ananad Shekar, Kishore	completed	Manu el S Thomas

	on the bond strength of resin modified glass ionomer restorative material (Protocol no. 14020: completed student project)	Ginjupalli		
6	“Effect of fishing/polishing techniques and time on surface roughness of esthetic restorative materials”.	Srividhya Sriraman Iyer	completed	Dr. Shreya Hegde
8	Knowledge, attitude and practices among dentists on the disinfection of dental light curing units: a cross sectional study	Vinay Mavani	completed	Dr. Manuel S Thomas
9	Comparative evaluation of between-patient disinfection methods to sterilize dental airtors at a dental college in Mangalore, Karnataka.	Aayushi Bajoria	completed	Dr. Karthik Shetty

The details of our publications are described below.

Year 2012

International:

1. **Abhishek Parolia M.D.S**, Mandakini Mohan M.D.S., **M. Kundabala M.D.S.**, Ramya Shenoy M.D.S, “Indian Dental Students Preferences Regarding Lecture Courses”. American Journal of Dental Education, Vol 76, No March 2012, Page no 366-371.
2. **Nidambur, Bhuvanagiri Nageshwar Rao, Kundabala Mala, Kadengodlu Seetharama Bhat & Bola Sadashiva Satish Rao.** “Assessment of genotoxic effect of maleric acid and EDTA” a comparative in vitro experimental study”. Clinical Oral Investigations, Published online: 15thAugust 2012.Clinic Oral Invest DOI 10.1007/s00784-012-0818.
3. **Manuel S.Thomas MDS, Kundabala M. MDS.** “Pulp Hyperthermia during tooth Preparation: The Effect of Rotary Instruments, Lasers, Ultrasonic Devices, and Airborne Particle Abrasion”. Journal of the California Dental Association, page.no.721-731, Sep 2012
4. **Charu Grover, Neeta Shetty.** “Methods to study root morphology A Review ENDO Practice Today”. Quintessence International (London England) 2012, 6(3): Page no171-182,Sep 2012.

National:

1. **Muralidhar Tummala, Veeramachaneni Chandrashekhar, A. Shashi Rashmi, M. Kundabala, Vasudev Ballal.** “Assessmnet of the wetting behavior of three different root canal sealers on root canal dentin”. Journal of Conservative Dentistry, Apr-Jun 2012, Vol 15, Issue 2, Page no 109-112.
2. **AR Vivekananda Pai, Manak Khosla.** “Root resection under the surgical field Employed for Extraction of impacted tooth and management of external resorption – case report”. Journal of Conservative Dentistry, Vol 15, Issue 3, Jul-Sep-2012, page no: 298-301.
3. **Manak Khosla, Neeraj Malhotra, Kundabala Mala.** “An in vitro evaluation of shear bond strength of silorane and bis- GMA resin based composite using different curing units”. Journal of Conservative Dentistry, Vol 15, Issue 3, Jul-Sep-2012, page no: 278-282.
4. **Neeraj Malhotra MDS, PGDHHM and Kundabala Mala MDS.** “Regenerative endodontics as a tissue engineering approach: Past, current and future Australian Endodontic Journal, Volume 38, pages 137–48, 2012

Year 2013**International**

1. **Vivekananda Pai, Asha Thapa.** “Non-surgical retrieval of guttapercha including an extruded one using a barbed broach – A case report”. Journal of Nepal Dental Association, Vol-13, Jan- June, 2013, Page no 78-81.
2. **Aridam Dutta, Kundabala M.** “Antimicrobial efficacy of endodontic irrigants from Azadirachta indica – An in vitro study”. Actaodontologica scandinavia, June 2013, 1-5.
3. **Neeraj Malhotra, Kundabala M.** “Calcific metamorphosis. Literature review and clinical Strategies”. Dent Update 2013; Page No: 40(1):48-60.
4. **Abhishek Parolia, Manak Khosla, Isabel Cristina Celerino de Moraes Porto & Kundabala Mala.** “Endodontic management of dilacerated and bayonet shaped roots”
5. Journal of Rev Gaucha Odontol, Poryt Alegre GO, V-61, N-2, Page No 269-277, June-2013.
6. **N Malhotra, ST Somashekar, K Mala, V Pai, R. Shenoy.** “Practice –Based, Clinical trail of a silorane-based composite resin system in posterior teeth” South African Dental Journal, Sep 2013, vol 68, No-8, Page no 358-363.

7. **Dr.Karthik Shetty.** “Factors that influence the quality of dental lecture classes - A Student Perspective’ Dental Poster Journal, Vol 2, May-June, 2013.
8. **Ashwin R, Karthik S.** “A Modified two stage technique of administering an inferior alveolar nerve block in children” Journal of Nepal Dental Association Vol-13 139-141 July-Dec 2013.

National

1. **Laxmish Mallya, Shashirashmi Acharya, Vasudev Ballal, Narayana Prabhu.** “A Comparative study of contact angle of calcium hydroxide to root canal dentine using Different vehicles”- An in vitro study. Endodontology, Jan 2013, Page no. 59 – 64.
2. **Asha Thapa, Vivekananda Pai AR, Manuel S Thomas.** “Evaluation and comparison of bond strength to 10% carbamide peroxide bleached enamel following the application of 10% and 25% sodium ascorbate and alpha- tocopherol solutions: An in vitro study”. Journal of Conservative Dentistry, Vol 16, Issue 2, Mar-April 2013.
3. **Arindam Dutta, Kundabala Mala, Shashi Rashmi Acharya.** “Sound levels in Conservative Dentistry and endodontics clinic”. Journal of Conservative Dentistry, Mar-April 2013, Vol16, Issue2, Page no 121-125.
4. **Vimmi Singh, Neeta Shetty, Kundabala M.** “ Comparative study of vertical fracture of roots obturated with new obturating systems- An in vitro study”. Journal of Endodontology May 2013, Page no 85-90.
5. **Neeta Shetty, M. Kundabala.** “Biominerals in restorative dentistry”. Journal of Interdisciplinary dentistry, May –August 2013: vol-3/issue -2 65.
6. **Naman Sharma, Amit Yadav, Neeta Shetty, Sarvesh Agrawal, M. Ashok.** “Esthetic management of a rare combination of dental trauma with a multidisciplinary Approach:- A case report. Journal of Interdisciplinary dentistry, Sept-Dec.2013, Vol.3, Issue-3.
7. **Prashanthi Madhyastha, Ravindra Kotian, Vivekananda Pai, AMA Khader.** “Fluoride Release from Glass Ionomer Cements: Effect of Temperature, Time Interval and Storage Condition, Journal of Contemporary Dentistry, May –August 2013;3(2) Page no 68-73.
8. **Sandhya Shrestha, Kundabala Mala.** “Evaluation of sealing ability of a root canal sealer with various antibiotic additives: An in vitro study”. Journal of Interdisciplinary Dentistry, Jan-Apr 2013, Vol-3, Issue-1.

9. **Abhishek Parolia, Toh Choo Gait, Isabel C.C.M Porto, Kundabala Mala.** “Endo Periolesion: A dilemma from 19th until 21st century”. Journal of Interdisciplinary Dentistry, Jan-Apr 2013, Vol-3, Issue-1.
10. **A. R. Vivekananda Pai, Shugufta Mir, Rachit Jain.** “Retrieval of a metallic obstruction from the root canal of premolar using Masserann technique”. Pub Med, Contemporary Clinical Dentistry, Oct- Dec 2013, Vol 4, Issue 4, Page no 543-546.
11. **Manuel Sebastian Thomas, Sandya Kini¹, Kundabala Mala.** Factors affecting the right and left discrimination ability among dental students. Journal of Education and Ethics in Dentistry; July-December 2013; Vol.(2): 66-70.

National Non Indexed:

1. **Charu Grover, Manuel S. Thomas, AR Vivekananda Pai.** “Foreign object lodgment in the Root Canal and its Management: A case report and an overview”. Journal of Contemporary Dentistry, May –August 2012, (2) Page no 47-52.

Year 2014

International

1. **Abhishek Parolia, Namrata Adhauilya, Isabel Cristina Celerino de Kundabala Mala, Moraes Porto.** “A Comparative Evaluation of Microleakage around Class V Cavities Restored with Different Tooth Colored Restorative Materials”. Journal of OHDM Vol. 13 120-126 2014
2. **Ashwin R, Karthik S.** “A Modified two stage technique of administering an inferior alveolar nerve block in children”. Journal of Nepal Dental Association Vol-13, 139-141 July-Dec 2013.
3. **Manuel Thomas.** “Crown discoloration due to the use of triple antibiotic paste as an endodontic intra-canal medicament”. Journal of Saudi Endodontic Vol-4 32-35 Jan Apr 2014
4. **A.R Vivekananda Pai, Amit Yadav, Kumar A.K.** “Retrieval of An overextending, separated instrument from the canal of a lower molar – A case Report”. Journal of Nepal Dental Association Vol-13 139-141 July-Dec 2013.
5. **Dr. Karthik Shetty, Late Dr.Premanand Kamath, Dr. Kundabala M, Dr. Ashwin Rao.** “Smear layer evaluation after root canal instrumentation with manual and rotary techniques: A scanning electron microscopic study. International Journal of Advanced Research, Vol 2447-453, 2014.

6. **A.R.Vivekananda Pai, Varguese Chacko, Megha Pradhan.** “Extruded gutta-percha retrieval using a bared broach and mta apical barrier in a tooth with open opex- A case report. “International Journal of Case reports Vol 4, 45-50, 2014.
7. **Dr Karthik Shetty, Dr Amit Yadav, Dr V Mohan Babu.** “Endodontic Management of Maxillary first Molar having five root canals with the aid spiral computed tomography - A case report. Endodontic Journal.September-December. 2014.Vol 4. Issue 3.
8. **Dr. Siddharth Shetty, Dr. Mathai Joeseeph, Dr Karthik Shetty.** “Space regained for an Implant suprastructure - A case report”..Int J Dent Case Reports 2014; 4(2): 9-13
9. **Dr. Mranali K Shetty, Dr. Karthik Shetty, Dr. Bijju Thomas, Dr. Ramya Shenoy, Dr. Shilpa Shetty.** Oral Hygiene Status and Gingivitis among Undergraduate Dental Students-A Descriptive Survey. JMSCR Volume 2. Issue 10.Page 2589-2593.October-2014.
10. **Dr. Karthik Shetty.** Management of mental nerve Parasthesia secondary to initiation of Endodontic treatment in a mandibular premolar with the aid of CBCT-a case report. Int J Dent Case Reports 2014; 4(4): 22-26.

National

1. **Dr. Charu Grover, Dr. Neeta Shetty.** “Evaluation of calcium ion release and change in PHon combining calcium hydroxide with Different vehicles.” Contemporary clinical dentistry, October- December 2014, Vol.5,issue 4 page no.434-439.
2. **AnishaKumar,AmitYadav, Neeta Shetty.** “One –step apexification using platelet rich fibrin matrix and minerak trioxide aggregate apical barrier”. Indian Journal of dental research, November-December 2014, Volume 25, issue6 page no. 683-834.
3. **Shreya Hegde Kunabadala M.** “Restoration of incisal half with edge-up technique using ceramic Partial crown in turner’s hypoplasia: A case report”. Journal of Conservative DenistryVol-17 85-87 2014.
4. **Puttur Laxmish Mallya, ShashirashmiAcharya, VasudevBallal, Kishore Ginjupalli, M. Kunabala, Manuel Thomas.** “Profilometric study to compare the effectiveness of various finishing and polishing techniques on different restorative glass ionomer cements”. Journal of Interdisciplinary Dentistry Vol-3 86 2013

5. **Arindam Dutta, Mala Kundabala.** Comparative anti-microbial efficacy of Azadirachtaindicairrigant with standard endodontic irrigants: A preliminary study. Journal of Conservative Dentistry Vol 17 133-137 Mar-Apr 2014.
6. **Sandya Kini, Upasana, Manuel Thomas.** An interdisciplinary approach to manage an endo-perio lesion on a maxillary first molar. Trivandrum Dental Journal. 2013, 4(2): 63- 66.
7. **Amit Yadav, Manuel S Thomas.** Micro Air-water syringe for al dental clinicians. Global Journal for Research Analysis. June 2014; 3(6): 11-12.
8. **Surbhi Sawhney, Mala Kundabala, Neeta Shetty, Manuel Thomas.** Patient record and communication in interdisciplinary dentistry. Journal of Interdisciplinary Dentistry. 2014; 4(2): 62- 65.
9. **A.R.Vivekananda Pai, Mannuvikram, Rachit Jain.** “Referred pulpal pain with atypical features in an endodontically treated tooth due to learned phenomenon”. Journal of Contemporary Dentistry 60-622014
10. **Dr. Karthik Shetty.** The Pathway of Endo Perio Relationship. Global Journal of Research Analysis, Vol 3, Issue- 5, May 2014; 107-09.
11. **Dr. Karthik Shetty.** Herbal oral care: an old concept or a new model. International Journal of Research in Medical Sciences. 2014 Aug;2(3):818-821.
12. **Dr. Karthik Shetty.** Dental management of patients suffering from drooling: Review and update. International Journal of Advanced Research (2014) Aug, Volume 2, Issue 7, 615-618.
13. **Dr. Karthik Shetty.** An Update in the Use of Endodontics in CBCT. British Biomedical Bulletin Aug 2014, Vol- 2 ,Issue- 3, 467-471.

The details of books published by our faculty are given below:

Text Book:

1. Dr. Laxmish Mallya, Dr. Shashirashmi Acharya, Dr. Nandita Shenoy have authored and edited a text book entitled “Endo Perio, The Communication ” published by Lap Lambert academic publishing, Germany.
2. Dr. Asha Thapa, Dr. A.R.Vivekananda Pai have authored and edited a textbook entitled “Role of Anti – Oxidants in Composite Resin Bonding Following Bleaching” published by Lap Lambert academic publishing, Germany.

The details of our conference presentations have been listed below.

Year 2012

International:

SI#	Title of the presentation	Name of the faculty	Details of Conference
1.	“Retrieval of Metallic obstruction from the root canal of a pre-molar using Masserann technique- A case report.	Dr. A.R. Vivekananda Pai	the 27 th IACDE & 20 th IES National Conference held at Dubai, on 6 th -9 th December, 2012
2.	“Should we have amalgam free dentistry in india?”	Dr. Kundabala M.	27 th IACDE & 20 th IES National conference held at Dubai, on 6 th - 9 th December, 2012.
3.	“Perception & attitude undergraduate students towards endodontics”	Dr. Neeta Shetty	27 th IACDE & 20 th IES National Conference held at Dubai, on 6 th - 9 th December, 2012.
4.	“Comparative evaluation of various desensitizing agents used in the management of dentinal hypersensitivity – An in vivo study”	Dr. Amit Yadav	27 th IACDE & 20 th IES National Conference held at Dubai, on 6 th - 9 th December, 2012.
5.	“The efficiency of removal of smear layer from apical middle & coronal part of the root canal system using three chelating An Ex Vivo Evaluation agents”	Dr. Shreya Hegde	27 th IACDE & 20 th IES National Conference held at Dubai, on 6 th - 9 th December, 2012.
6.	“Drug related dental erosion”	Dr. Manuel Thomas	11th Penang Dental Congress, Equatorial Hotel, Bayan Lepas, Penang conducted by the Malaysian Dental Association Northern Zone on 20th october 2012.
7.	“Factors that influence the quality of dental lecture classes - a student Perspective”	Dr. Karthik Shetty	23rd SEAADE Annual Meeting held at the Faculty of Dentistry, The University of Hong Kong on 1 st to 2 nd Nov 2012.

National:

SI#	Title of the presentation	Name of the faculty	Details of Conference
1.	“Gingival Esthetics “	Dr. Manuel S. Thomas	5 th National ISPRP Conference held on 24 th , 25 th & 26 th August 2012, at Mangalore.

Year 2013

International:

SI#	Title of the presentation	Name of the faculty	Details of Conference
1.	“Evaluating and Comparing the contact angles of calcium hydroxide to the radicular dentine using different Aqueous and non-aqueous vehicle”	Dr. Laxmish Mallya	AEEDC Dubai-2013 from 5 th to 7 th February 2013, at Dubai, United Arab Emirates.
2.	“Can Maleic Acid Replace Edta in Endodontics”	Dr. Kundabala	at the 6 th Conseuro congress on prevention, Restoration aesthetics Paris, France from 9 th – 11 th , May 2013
3	“Right and Left Discrimination ability among dental students”	Dr. Manuel S. Thomas	at the 6 th Conseuro congress on prevention, Restoration aesthetics at Paris, France from 9 th – 11 th , May 2013
4	“Platelet Rich Fibrin in Reconstructive Endodontics”	Dr. Laxmish Mallya	at the FDI/CDA/SLDA Joint International Conference & 80 th Anniversary Annual Scientific Session of Srilanka Dental Association at Colombo, Srilanka From 28 th to 30 th June- 2013.

National:

SI#	Title of the presentation	Name of the faculty	Details of Conference
1.	“Surgical management of over filled Gutta-Percha and root end sealing using mineral trioxide aggregate - A case Report	Dr. Vivekananda Pai,	28th IACDE & 21st IES National conference held on 14th to 17th Novemebr, 2013 at Hyderabad International Convention Center, Hyderabad, India
2.	“Relationship of pain Intensity with neural and radiographic findings”	Dr. Neeta Shetty	28th IACDE & 21st IES National Conference held on 14th to 17th Novemebr, 2013 at Hyderabad International convention center, Hyderabad, India.
3	“Restoration of Incisal half with Edge-Up Technique Using Ceramic Partial Crown In Turner’s Hypoplasia-A Case Report	Dr. Shreya Hegde	28th IACDE & 21st IES National Conference held on 14th to 17th Novemebr, 2013 at Hyderabad International convention center, Hyderabad, India.

Year 2014

International:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1	Rehabilitation of surgically failed anterior teeth using bioactive material and Monoblock effect”	Dr. Manuel S. Thomas	Hong Kong International Dental expo And Symposium

National:

Sl#	Title of the presentation	Name of the faculty	Details of Conference
1.	“ Barriers for utilization of restorative care by rural women associated with a rural development organization (self-help group) in Dakshina Kannada District – A Questionnaire pilot study”	Dr. Neeta Shetty	Manipal Colliqium
2	“Rehabilitation of hopeless anterior teeth with the use of contemporary endodontic material	Dr. Manuel S. Thomas	2 nd Inter state & 42 nd IDA Karnataka State Dental Conference
3	“Reattachments of anterior teeth fragments on a pluri traumatized teeth –A case report”	Dr. Shreya Hegde	2 nd Inter state & 42 nd IDA Karnataka State Dental Conference
4	“Barriers to restorative Dental care among rural women associated with self-help groups in Mangalore taluk, Karnataka,India-A cross Sectional Study”	Dr. Neeta Shetty,	29th IACDE & 22nd IES National Conference
5	“Pattern of Radiographic referrals among interns during endodontic treatment- a Survey”	Dr. Laxmish Mallya,	29th IACDE & 22nd IES National Conference
6	“Non endodonticirrigants”	Dr. KundabalaM	Student Research Poster Competition
7	‘Smart Purchases in Dental Practice’	Dr. Karthik Shetty	2 nd Inter state & 42 nd IDA Karnataka State Dental Conference

12. Placement record of the past students and the contribution of the department to aid student placements:

Students after passing out as BDS graduates have got admitted to pursue MDS course in various specialties and some have got admissions in foreign universities for further dental education. They have also got placed as lecturers or tutors in Dental colleges. Students have

also got into government and army services and into hospital or clinical set up as dentists. MDS candidates have joined as academicians in Dental colleges or are going as consultants. Additionally, students have ventured out to pursue and obtain additional qualifications in courses related to MBA and hospital administration.

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years

- Use of simulators to improve preclinical and clinical skills
 - Use videography along with audio system to record and display the preclinical and clinical procedures and demonstrations during student training and teaching
 - Small group discussions to improve the communication between students and faculty
 - Introduce problem based learning
 - Encourage evidence based dentistry
 - Using state of art teaching aid
 - Employing new and constantly evolving tools of teaching and learning evaluation.
 - Organize clinical workshops and symposia
 - Promote more short term and original research based studies
 - Encourage indigenous patents in the clinical field
 - Promote more publications in national and international indexed journals
 - Apply and obtain research grants and funds
 - Procure advanced and state of art equipment, instrument and materials
 - Promote more publications in national and international scientific presentations
 - Develop research laboratory at department level
-

ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

1. Faculty profile - adequacy and competency of faculty

There are eight members in the teaching faculty which meets the requirements for BDS and also for postgraduate training as per the regulatory body requirements. All the faculty members are competent.

Faculty list

#	Name	Qualification	Designation	Teaching Experience (Yrs)
1.	DR. Siddarth Shetty	M.D.S	Professor and Head	12
2.	Dr. V.Surendra Shetty	M.D.S.	Professor	39
3.	Dr. Pramod Philip	M.D.S.	Assoc. Prof.	09
4.	Dr. Supriya Nambiar	M.D.S.	Asst. Prof.	05
5.	Dr. Shivani Singh	M.D.S.	Asst. Prof.	04
6.	Dr. Nidhin Philip Jose	M.D.S.	Asst. Prof.	03
7.	Dr. Asavari Laxman Desai	M.D.S.	Asst. Prof.	02

Category	Sanctioned (as per DCI)	Filled
Teaching staff	7	7
Lecturer	1	Nil

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01: Student Profile for detail

3. Changes made in the courses or programs during the past two years and the contribution of the faculty to those changes.

The course is regulated by DCI and the department strictly complies with the guidelines of the DCI and endorsed by the Board of Studies, Manipal University.

4. Trends in the success and drop- out rates of students during the past two years

Course	Pass Percentage		Dropout Rate	
	2012-2013	2013-2014	2012-2013	2013-2014
BDS	97%	97%	0	0
MDS	100	100	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

The department has well-equipped library with over 189 books, 3 departmental computers, 7 Laptops, and 2 Labs. Lectures are taken in air-conditioned lecture halls which accommodate 150 students and equipped with LCD projectors, OHP, Black Board and acoustic system. The department has an air conditioned seminar room which accommodates 25 students and equipped with LCD projector, white board and acoustic system

There is a lab for practical demonstration for under graduate & post graduate students equipped with model trimmer, anodic polisher, autoclave, ultrasonic cleaner and biostar machine.

Department possesses a record room housing all patient records including models, photographs and radiographs since the year 2000 onwards and a photography room equipped with a digital camera, a stand, flash lights and a screen.

Dolphin imaging software is provided for diagnosis and patient education.

6. Modern teaching methods practiced and use of ICT in teaching – learning:

The teaching process uses a mix of various methodologies for ensuring the achievement of the objectives in the knowledge, problem-solving, psychomotor and attitudinal domains. Lectures are made interactive wherein there is ample scope for students to interact. Appropriate use of AV aids is emphasized upon. Effort is made to encourage the use of active methods related to demonstration. While the predominant mode of undergraduate teaching is through didactic lectures, students are also required to participate in discussions to enable them to develop an overall personality and character which are necessary for a dental graduate to function either in clinical practice or as a team member in an academic institution.

Post-graduate training is accomplished through a blend of presentation of seminars, clinical case discussions, journal reviews, clinical society meetings, library dissertation, thesis dissertation and short studies. Table clinic demonstrations are given by the senior faculty on various topics. Postgraduate, then fabricate the appliances under the guidance of the faculty. Postgraduates are encouraged to attend and make presentations (Oral/ Poster/ Table Clinic) at National conferences and PG conventions. Open book tests are conducted on weekly basis for final year postgraduates and the answer sheets are evaluated by the faculty and then discussed.

7. Participation of teachers in academic and personal counseling of students:

MCOADS provides mentoring to all students, with keen focus on the new students. The unique Teacher-Guardian scheme essentially allots one member of the teaching staff (Assistant/Associate Professor) to oversee the welfare and progress of a group of 10 students. The attendance and performance in examinations is also keenly monitored and students are counseled.

Records of these activities are maintained with the concerned teacher-guardian and the Office of the Dean is kept informed of the same. Issues which cannot be addressed at the department level are directed to the Deputy Director, Student Affairs for appropriate guidance.

Academically weak students and students who fall short in attendance are counseled as & when required. Shortage of attendance if any is intimated to the parents on a monthly basis.

8. Details of faculty development programs and teachers who have been benefited during the past two years

Faculties attend faculty development programmes pertaining to teaching-learning and evaluation and also research methodologies. All of them have undergone training regarding the same in the past. All faculty members regularly attend various scientific programmes like conferences, workshops, symposia and CPDs. Faculty members attend and present paper in conferences, CDE etc. The number of conference presentations is given below.

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research and the department was successful in receiving an ICMR sponsored research grant in the past year. The department assists the faculty and the students of other departments and institutions to carry out research & dissertation projects. The department is also exploring avenues for research collaborations with other constituent institutions of the university.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

In January 2013 department conducted a Hands-on workshop on Lingual Orthodontics with Faculty from Kyungpook National University, Daegu, South Korea.

11. Priority areas for research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

Priority Areas: White Spot Lesions, Orthodontic micro implant, cleft lip & palate, Innovations in Clinical Orthodontics.

Category	Number
Funded research projects	2
Non-funded research projects	2
PhD research projects	--
PG research projects	10
UG research projects	--

Last 3 years (2012-2014):

Details		2012	2013	2014
Completed funded research projects		--		2
Completed non-funded research projects		2	--	--
Completed PhD research projects		-	--	--
Completed PG research projects		5	5	5
Completed UG research projects		--	--	--
Publications	1		6	8
	--			
Books		--	2	--
Chapters in books		1	--	--
Conference presentations	2			
	--			

Ongoing projects: 2013

1. Effects of various skeletal & dental parameters on the lower lip position and mentolabial sulcus-Dr. Pramod Philip, Dr.SubrayaMogra
2. A Randomized Double Blind Clinical Trail Comparing The Efficacy of Two formulations of Amine Flouride& sodium fluoride in patients undergoing orthodontic treatment- Dr. Siddarth Shetty,Dr. Pramod Philip, Dr. Supriya Nambiar
3. Predliction of Unilateral chewing and its impact on facial symmetry dentition, Periodontium, and TMJ – ShreyasiTiwari, Guided by Dr. Supriya Nambiar
4. Morphometric analysis of cervical vertebrae and Correlation of cervical vertebral measurements, cranial base angle,craniocervical inclination to craniofacial morphology and stature in Class-I & Class- II patients- Dr. Supriya Nambiar, Dr.SubrayaMogra

5. Gingival Biotype and Myeloperoxidase level in PISF – its role in the secondary stability of orthodontic miniscrews- A 3 month prospective clinical study- Dr.Supriya Nambiar, Dr. Mahesh Jain
6. Development of new model of ElectrothermalDebonding unit – Dr. Nidhin Philip Jose, Dr.Subraya Mogra, MUTBI

Ongoing projects: 2014

1. Assessment of learning objectives using verk questionnaires among dental students – Dr. Mahesh Jain
2. Effectiveness of problem base learning among intern in a Dental school – Dr. Nidhin Philip Jose

Details of publication are as follows

2012:

International:

1. Singh S, Mogra S, Shetty VS, Shetty S, Philip P,

Three dimensional finite element analysis of strength, stability & stress distribution in orthodontic anchorage: A conical, self - drilling miniscrew implant system

–American Journal of Orthodontics and DentofacialOrthopedics 2012 Mar: 141(3):327-3.

Books, Chapters in Books:

Chapters in Book:

1. Siddarth Shetty, Chapter 55-“Orthodontic Periodontal Interrelationship”, Dilip.G.Nayak, Ashita Uppoor, Mahesh C.P., “Periodontology Oral Implantology”, 1st Edition, Elsevier Publisher ,Page No- 469-475,2010.
2. Siddarth Shetty, Computerized Diagnostic System “Gurkeerat Singh; “Text Book of Orthodontics” 2nd Edition, JaypeeBrothers, Page No-144-158, 2010.
3. Supriya Nambiar – Contribution to MCQ’s in Orthodontics by Dr.JitendraSharan, Paras Publisher.

Books published:

1. Supriya Nambiar, SubrayaMogra, Surendra Shetty,” Evidence Based Orthodontics- A Overview” 1st Edition, Online, Lambert Academic Publishing, 978-3-8484-3933-1, 2012.

2. Dr. Mahesh Jain, NidhiDhakar, “Torquing Mechanisms in Orthodontics” 1st Edition, Online, Lambert Academic Publishing,978-3-659-32640-0,2013.
3. Dr. Nidhin Phlip Jose, Dr. Siddarth Shetty, Dr.SubrayaMogra,” Infection Control in Orthodontics”, 1st Edition, Online, Lambert Academic Publishing,978-3-659-35629-2, 2013

2013

International :

1. Mahesh Jain, Siddarth Shetty, Subrayamogra, V. Surendra Shetty, NidhiDhakar, “Determination of Optimum adhesive thickness using varying degrees of force application with light- cured adhesive and its effect on the shear bond strength of orthodontic brackets” : An in vitro study, Quintessence Publisher, 2013;14e40-e49,doi10.11607
2. Siddarth Shetty, Nanditashenoy, K Ashok shenoy, B Unnikrishnan, SubrayaMogra, “Comparison of effects of preoperative piroxicam and ibuprofen on pain after separator placement: a randomized controlled trial”, Journal of Orthodontic Research, original article, 2013, volume 1 – issue 2, page: 57-61
3. Supriya Nambiar, subrayamogra, surendra Shetty, Siddarth Shetty, “Assessment of anteroposterior and transverse first premolar extraction changes using palatal rague and comparative analysis with lateral cephalogram in angle’s Class I and II patients - An institutional retrospective study”, Journal of Orthodontic Research, original article, 2013, volume 1 – issue 2, page: 45-51.
4. Mahesh Jain, NidhiDhakar “ Timing of Orthodontic Treatment” ,Journal of orthodontic Research, Sept-Dec Volume 1- Issue 3, Page – 99-102

National:

1. Mahesh Jain, Joseph, Varghese, RohanMascarenhas, SubrayaMogra, Siddarth Shetty, NidhiDhakar, “Assessment of clinical outcomes of Roth and MBT Bracket prescription using the American Board of Orthodontics objective grading system”, Pub med, Volume 4 , Issue 3/ July- Sept 2013, Page – 307 – 312.
2. Mahesh jain, Nidhidhakar, “Arch forms: An overview”, Universal Research Journal of Dentistry, Vol 3, Issue 1 January – April 2013, Page -17-21.

Books:

1. Dr. Mahesh Jain, Nidhi Dhakar ,” Torquing Mechanisms in Orthodontics” 1st Edition, Online, Lambert Academic Publishing,978-3-659-32640-0,2013.
2. Dr. Nidhin Philip Jose, Dr. Siddarth Shetty, Dr.Subraya Mogra,” Infection Control in Orthodontics”,1st Edition, Online, Lambert Academic Publishing,978-3-659-35629-2, 2013

2014**National**

1. Supriya Nambiar. PrateekSinghal, AnandMenon, B. Unnikrishnan, Clinico-Epidemiological profile of orofacial clefts among children of coastal district of southern India: A 5 year hospital study. Journal of Cleft lip & palate and craniofacial anomalies.I,34-37.2014.
2. Nidhin Philip, Siddarth Shetty, Subraya Mogra, Surendra Shetty, Sumanth Rangarajan, Lida Mary,“Evaluation of hyoid position and its correlation with pharyngeal airway space in different types of skeletal malocclusion” Contemporary Clinical Dentistry,5,187-189,2014.
3. Siddarth Shetty,Mathai Joseph, Karthik Joseph Orthodontic Rehabilitation of an implant Restoration site- A case Report IJDCR,4 9-13,2014.
4. Pramod Philip, Ashwin Rao, Orthodontic extrusion of an impacted tooth with a removable appliance and a bonded attachment: A case report with relevant biomechanics, Journal of Interdisciplinary Dentistry,4 46-49Jan – Apr 2014.
5. Supriya Nambiar, Subraya Mogra, Surendra Shetty,Transposition of teeth: A forensic Perspective Journal OF Forensic Dental Sciences,6,151-153,Sept-Dec 14.
6. AsavariDesai,M.R.Dinesh,B.C.Amarnath,R.MDharma,KRAkshai,CSPrashanth Association of transforming growth factor alpha and methylenetetrahydrofolatereductase gene variants with nonsyndromic cleft lip & palate in the Indian population Contemporary Clinical Dentistry 5,329-333,July- Sept 14.
7. Supriya Nambiar, Subraya Mogra, Anand Menon, Unnikrishnan, Suresh Babu “Morphometric Analysis of Cervical Vertebrae morphology & Correlation of cervical vertebrae morphometry, cervical spine inclination and cranial base angle to craniofacial morphology and stature in an adult skeletal Class –I & Class ii Population Contemporary Clinical Dentistry,5, 456-460 2014.

8. Asavari Desai, Manjunath Hegde, MR Dinesh, BC Amarnath, Integrartion of the Herbst and begg appliance in the management of severe Class II Malocclusion Contemporary Clinical Dentistry,5,528-531 2014.

MDS Dissertations/research projects guided by the Faculty (Dr. V. Surendra Shetty, Dr. Subraya Mogra, Dr. Siddarth Shetty - PG Guide):

2012:

1. A Cephalometric Evaluation of upper & lower Pharyngeal Airways (A.P.Dimensions) in Class I and Class II & Class III Maocclusions- Dr.SubrayaMogra
2. Comparison of contamination of low-Frictional Elastomeric Rings with that the conventional elastomeric Rings by Streptococcus mutans - An in – Vivo study - Dr. Subraya Mogra
3. Tooth size Discrepancies & Arch parameters in various malocclusions group and genders of Dakshina Kannada District Population in Karnataka State- Dr. V. Surendra Shetty
4. Correlation of Pharyngeal Airway space and position of Hyoid Bone in different types of malocclusion – a Cephalometric Study- Dr. V. Surendra Shetty
5. Correlation between Cervicaal Vertibrae maturation and urinary bone metabolic marker Deoxypyridinoline in preadolescents – Dr. Subraya Mogra

2013:

1. April 2013, Dr. Tanisha Mantri “Randomized Clinical trail comparing the efficacy of preemptiveiburpofin & masticatory bite wafer on pain associated with initial archwire placement – A prospective study”
2. April 2013, Dr. Prabhat Vaishnav “Evaluation of the bond strength of metal brackets bonded to porcelain fused to metal surface using different surface conditioning method”
3. April 2013, Dr.Hukmani Sneha Harish “The effect of various dedebonding methods on metallic braket slot dimension - An in vitro study”
4. April 2013, Dr. Amit Deepak Nayak “ Commonly used bracket base designs & their effect on shear bond strength – An in vitro study.
5. April 2013, Dr. Anshumala Shokeen “Role of Third molars on mesiodistal angulations of mandibular canines, premolars & molars”

2014:

1. Comparison of dento alveolar features between compensated and non-compensated hyper divergent facial patterns in adult subjects-Khushboo Motwani
2. Comparison and evaluation of the reproducibility of cervical vertebrae method and hand wrist radiograph method – In orthodontic treatment -BhavinGaywala
3. Changes in salivary flow rate salivary ph, salivary buffer capacity and periodontal parameters before and during fixed orthodontic treatment – Sarvesh Agrawal
4. Correlation between skeletal changes following face mask therapy and upper airway dimensions – A cephalometric study -Lijo John
5. Effect of recycling on mechanical properties of nickel titanium closed coil spring- Mahita

12. Placement record of the past students and the contribution of the department to aid student placements:

Graduate students after completing the degree undertake higher studies or do clinical practice in India/ abroad. Post Graduates who have passed out have either joined academics or have setup a private practice. Post graduates of the department have formed an alumni association and the department in association with the alumni association has successfully conducted a 'International Lingual Orthodontic Workshop'. Few of the graduates and post graduates have gone and joined foreign universities for further studies and one has registered for PHD in AIIMS.

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years:

1. Encourage innovation among staff members in clinical techniques and teaching methodology
 2. Conducting Hands on workshop and conventions with international faculty. May be in the long run have certificate courses with nationally reputed faculty.
 3. Inviting external faculty on a regular visiting basis
 4. Publishing departmental Research projects and thesis in international Journals
 5. Setting up a center for excellence in selected fields.
-

PAEDODONTICS AND PREVENTIVE DENTISTRY

1. Faculty profile - adequacy and competency of faculty

There are six teaching faculty which meets the requirements for BDS and MDS training as per the regulatory body requirements. All faculties are competent.

Sl. No	Name	Qualification	Designation	Total experience in years (As of 31 st Dec 2014)
1.	Dr. Arathi Rao	MDS	Professor & Head	16Yrs
2.	Dr. Sudha P	MDS	Professor	32Yrs
3.	Dr. Suprabha BS	MDS	Addl. Prof.	15Yrs
4.	Dr. Ashwin Rao	MDS	Assoc. Prof.	09Yrs
5.	Dr. Varghese Chacko	MDS	Assoc. Prof.	09Yrs
6.	Dr. SavithaPai	BDS	Lecturer	2Yrs
7.	Dr. Pallavi Singh	BDS	Lecturer	10 Months

Category	Sanctioned.	Filled
Faculty	05	05
Lecturer	02	02

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01: Student Profile for details

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The syllabus of both UG and PG courses, are updated as per the DCI regulation of 2007 and 2011 respectively at the board of studies meetings held at the Manipal University.

The course is regulated by DCI and the department strictly complies with the laid down requirement.

4. Trends in the success and drop out rates of students during the past two years

Course	Pass Percentage		Dropout Rate	
	2012-2013	2013-2014	2012-2013	2013-2014
BDS	99	97	0	0
MDS	100	100	0	0

5. Learning resources of the departments

The departmental library consists of 96 books, 2 departmental computers, 5 Laptops.

The department has a library with about 96 reference books in the subject & related specialities for the use of the faculty and students.

All the faculty and students have been provided with laptops by the University. The campus is Wi-Fi enabled. In addition department also has 2 desktop computers complete with multi-functional printers.

The department has a spacious seminar rooms that accommodates about 50 students at a time. Students utilize the fully air-conditioned phantom head lab for their preclinical exercise.

The departmental laboratories cater to the requirements of PG and UG students and are well equipped with the latest instruments in adequate number.

The department boasts of good collection of question papers of previous university examinations.

Computer aided and audio-visual materials are used in the teaching learning process.

Students also benefit from the Case discussions and Mock examinations that are conducted regularly in the department and guide them for University examinations. Students are also encouraged to attend Clinical Society meets, conferences, CDE's etc. all that will enrich their knowledge.

6. Modern teaching methods/ practices in teaching learning

The objective of our teaching is to ensure that the student acquired knowledge, problem-solving abilities, psychomotor and attitudinal skills. We encourage activity based learning in the clinical and classroom teaching. Conducting group discussions, interactive sessions, case studies, Computer aided and audio-visual training etc are different forms of teaching used by the faculty.

We encouraging the students to participate in the State and National Level professional development programs and to write the competitive examinations, and also preparing them to pursue Higher Education

Students are encouraged to learn through peer interactions, small group discussion and also through school dental health programs. Students are encouraged in activities that will help them to develop personality, character, expression etc. The teaching-learning process attempts to provide enough experiences to be provided for self-learning.

In a nutshell, the teaching-learning methods used are:

- Interactive lectures
- Small group teaching
- Seminars/Self-directed learning
- Demonstrations

7. Participation of teachers in academic and personal counseling of students

MCOADS provides mentoring to all students, with keen focus on the new students. The unique Teacher-Guardian scheme essentially allots one member of the teaching staff (Assistant /Associate Professor) to oversee the welfare and progress of a group of 10 students. The attendance and performance in examinations is also keenly monitored and students are counseled.

Records of these activities are maintained with the concerned teacher-guardian and the Office of the Dean is kept informed of the same. Issues which cannot be addressed at the department level are directed to the Deputy Director, Student Affairs for appropriate guidance.

Counseling is done for students with attendance shortage and low sessional marks. Academic advisory system adopted by the college, ensures that every teacher bears the responsibility of properly counseling and guiding the students

We Encouraging students to apply for ICMR grants and Teachers are available to guide students in their learning process

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Our entire faculty has attended the faculty development programmes pertaining to teaching-learning, evaluation and also research methodologies in the past two years.

No	Name of the faculty	Title of the workshop	Date (s)	Venue
1.	Dr. Arathi Rao	Workshop on "Teacher as a Communicator"	24th Jan.2013	MCPD, Manipal
		CBCT:Visualization of 3 rd Dimension"	22 nd Feb 2013	MCOADS, Mangalore
		Face Bow transfer, Articulators and Material Science Research	15 th Feb 2013	MCOADS, Mangalore
		Workshop on "Counseling Skills for Teachers"	11 th - 12th Mar 2013	Manipal University.
		"Emerging Trends in Dental Education"	17 th Sept 2013	MCPD, Manipal

		“eviDENS-2013	6 th -7 th Aug 2013	MCODS, Mangalore
		“Prefabricated Composite Veneers: Fast, Furious & Fabulous Compoeners”	19 th Sept 2013	Yenepoya University, Mangalore
		Pedoscope,	26 th - 28 th Sept 2013	Jaipur
		41 st Karnataka State Dental Conference	22 nd - 24 th Nov. 2013	Madikeri, Karnataka
		Oral Health Policy Phase – 1	17 th Feb 2014	Yenepoya University, Mangalore
		“Major Seminar Presentations”	31 st May 2014	A.B.S.M.I.D.S, Mangalore
		“Moulding smiles & changing lives”	13 th -14 th Aug 2014	MCODS, Manipal
		9 th Biennial Conference of the Pediatric Dentistry Association of Asia 2014	24 th August 2014	Singapore
		“Posterior Composite Restorations made simple”	1 st Sept 2014	MCODS, Mangalore
		“Nurturing an effective Workplace”	17-18 th Oct 2014	Manipal
		“CBCT Imaging in Dentistry”	16 th Oct 2013	MCODS, Mangalore
		The Asia Pacific Educational Research Association and The Hong Kong Educational Research Association International Conference 2014	19 th -21 st Nov 2014	Hong kong
2.	Dr. P Sudha	“Museum Techniques”	23 rd Feb 2013	MCODS, Mangalore
		“eviDENS-2013	6 th & 7 th Aug 2013	MCODS, Mangalore
		IDA Conference	21 st -23 rd Feb. 2014	Hyderabad
		“Moulding smiles & changing lives”	13 th - 14 th Aug 2014	MCODS, Manipal
3.	Dr. Suprabha BS	CBCT: Visualization of 3 rd Dimension”	22 nd February 2013	MCODS, Mangalore
		Workshop on “Counseling Skills for Teachers”	11 th & 12 th March 2013	Dept. of Students Affairs,
		“Survey Research & Statistical Analysis”	12 th -14 th Aug 2013.	Manipal University.
		“eviDENS-2013	6 th & 7 th Aug 2013	MCODS,
		“Emerging Trends in Dental Education”	17 th Sept 2013	MCPD, Manipal
		“All ceramic veneers-key to impress all”	20 th Sept 2013	MCODS, Mangalore
		Pedoscope,	26 th -28 th Sept 2013	Jaipur
		2 nd International	21 st -23 rd April 2014	Dubai.

		Conference and Exhibition on Dental and Oral Health”		
		“ Systematic Reviews and Meta-analysis”	22 nd - 23 rd Nov 2014.	Manipal University
4.	Dr. Ashwin Rao	Workshop on "Teacher as a Communicator	16th November 2012	MCPD, Manipal
		Nitrous Oxide Oxygen Sedation in Children”in 14 th Annual Dental Conference & Trade Exhibition of the Nepal Dental Association	2 nd February 2013.	Nepal
		“YENDOCON”	21 st March 2013	Yenepoya University, Deralakatte
		“All ceramic veneers-key to impress all”	20 th September 2013	MCOODS, Mangalore
		Hands-on workshop on Straight Wire Orthodontics	31 st Jan, 1 st Feb 2014	Koyambathur, Chennai
		“Moulding smiles & changing lives”	13 th & 14 th August 2014	MCOODS, Manipal
		“Parenteral Drug Administration”	30 th August 2014	MCOODS, Manipal
		2 days hands on course on Interceptive/Myofunctional course	November 22 nd & 23 rd 2014	Kerala
5.	Dr. V. Chacko	"Beyond Clinical Dentistry"	9th and 10th November 2011,	MCOODS, Mangalore
		“All ceramic veneers-key to impress all”	20 th September 2013	MCOODS, Mangalore
		IDA Conference	21 st -23 rd Feb.2014	Hyderabad
		Pedopathshala”	4 th & 5th August 2014.	Mumbai

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research. Faculty is also involved in various projects and also has submitted 5 projects to ICMR for grants. The department is also exploring avenues for research collaborations with other constituent institutions of the university.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Nil.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

Priority areas for research:

Remineralization, Dental Fear, Pediatric Endodontics, Pediatric Preventive Dentistry, Dental Materials

Last 3 years:

Details		2012	2013	2014
Completed funded research projects		0	0	0
Completed non-funded research projects		0	0	0
Completed PhD research projects		0	0	0
Completed PG research projects		3	6	6
Completed UG research projects		0	0	2
Publications	International	1	7	5
	National	1	4	13
Books		1	1	0
Chapters in books		2	1	0
Conference presentations	International	3	1	3
	National	6	14	14

The detailed outline of projects is given below:

Our ongoing PG research projects are:

#	Title	Name of the student	Guide
1.	"Histological changes seen in the Pulpal Tissue as a Reaction to Laser and Ferric Sulfate: An Ex Vivo Study"	Dr. Sonia Sivadas	Dr. Arathi Rao
2.	"Comparative Evaluation of microtensile Bond Strength and Shear Bond Strength of Mineral Trioxide Aggregate with Composite Resin and Resin Modified Glass Ionomer"	Dr. Radhakrishnan	Dr. Arathi Rao
3.	"A 12 month clinical evaluation of Pit & Fissure Sealants placed with four different bonding protocols: A Randomized controlled Trial"	Dr. Manasi Khare	Dr. Suprabha BS
4.	In Vitro Evaluation of probiotic strains for lactic acid production.	Dr. Faraz Ahmed	Dr. Arathi Rao
5.	Comparison of 3 Different Instruments Used for Biomechanical Preparation Using CBCT- an In Vitro Study.	Dr. Vignesh P	Dr. Arathi Rao
6.	"Remineralising Efficacy of Fluoride Varnish Containing Additives and Conventional Fluoride Varnish."	Dr. Avani Jain	Dr. Suprabha BS

Our completed PG research projects are:

Year 2012

#	Title	Name of the student	Guide
1.	“Pulpal Response to Hydroxyapatite Nanopowder Mineral Trioxide Aggregate and Calcium Hydroxide when used as direct pulp capping agent- an In vivo study”	Dr. Shanti Swaroop	Dr. P Sudha
2.	“A comparison assessment of effectiveness of two herbal mouthwash and its effect on plaque accumulation, gingivitis and step to coccus mutans – An invitro study”	Dr. Shivika Mehta	Dr. Arathi Rao
3.	“Clinico Radiological Evaluation of MTA, Pulpotec over Formacresol as pulpotomy agents in primary molar – In vivo study”.	Dr. Vidya	Dr. Arathi Rao

Year 2013

#	Title	Name of the student	Guide
1.	ex vivo evaluation of efficacy of root canal length determination of primary molars by conventional radiographs and apex locator	Dr.Sivadas	Dr. P.Sudha
2.	"effectiveness of Novamin as a remineralizing agent-An in Vitro study"	Dr.Saranya	Dr. Arathi Rao
3.	Effect of Fluoride Varnish, Chlorhexidine Varnish on StreptolocalMutans Level in Human Dental Plaque: A Double Blind Randomized Clinical Controlled Trial"	Dr.Sanchit	Dr. Suprabha B.S.
4.	"The Reactionof Children To a Modified Two Stage Technique of Administering The Inferior Alveolar Nerve".	Dr.Deepti Thakkar	Dr. Ashwin Rao
5.	"Efficacy of Lignocaine in Gel and Spray Form During Buccal Infiltration Anaesthesia in Children-A Randomized Clinical Trail".	Dr.Anshul Sharma	Dr. Suprabha BS
6.	"Radiographic Evaluation of Pulpal Morphology of Deciduou Molars".	Dr.Suhel Dabawala	Dr.V Chacko
7.	“Relation between dermatoglyphics and malocclusion-A Cross Sectional Study among 9-12 year old in Mangalore, India	Dr. Shweta Tiwari	Dr. Arathi Rao
8.	“Evaluation of Tensile Bond Strength of a Resin-Based Pit-and-Fissure Sealant to Incipient Carious Enamel using Three Different Bonding Protocols”	Dr. Pinky Kalra	Dr. Suprabha BS

Year 2014

#	Title	Name of the student	Guide
1.	"To evaluate the anti-microbial activity of various alcoholic preparations of aloe vera against <i>enterococcus faecalis</i> and its biofilm in the root canal of extracted teeth by SEM".	Dr. Nachiket Shah	Dr. Sudha.P
2.	"Evaluation of Nitrous Oxide Conscious Sedation during dental procedures in children aged 7-10 years".	Dr. Deepti Thakkar	Dr. Arathi Rao
3.	"Remineralization potential of two commercially available remineralizing agents on early enamel lesions: An in vitro comparative evaluation"	Dr. Anshul Sharma	Dr. Arathi Rao
4.	"Tooth Brushing in Preschool children: Parental challenges & their awareness to tooth brushing recommendations"	Dr. Sonia Sivasdas	Dr. Ashwin Rao
5.	"Knowledge Attitude and Behaviour of Paedodontists regarding the use of Antibiotic Prophylaxis and the guideline followed in Patients with congenital Heart Disease"	Dr. Radhakrishnan	Dr. Arathi Rao
6.	"Effect Of Ultrasonic Activation And Manual Agitation On The Penetration Of Sodium Hypochlorite And EDTA Into Simulated Lateral Canals And Upto Working Length : An In Vitro Study"	Dr. Manasi Khare	Dr. Suprabha BS

Our Ongoing UG research projects are:

#	Title	Name of the student	Guide
1.	"Association of Maternal and Child Dental Anxiety with Severity of Early Childhood Caries and Dental Attendance Behaviour Pattern.	Ms. Shruti Balasubranian	Dr. Suprabha BS

The details of our publications are described below**Year 2012:****National:**

1. Gupta N., **Sudha P.**, Anegundi R., Indushekar KR. "Importance of Dental Age and Skeletal Age in Forensic Sciences for the Assessment of Pediatric Growth and Development" I J Forensic Medicine & Toxicology, 2012, 6, (2), 20-23.

International:

1. Ramya S, Ashwini R, **Arathi R**, Mamata T. Knowledge, attitude and practice amongst gynecologists and pediatricians about oral health in Mangalore city: A questionnaire survey, Journal of Pierre Fauchard Academy, 26, 39-40, 2012.

Year 2013:**National:**

2. Shwetha Choudhary, Suprabha B.S. "Effectiveness of light emitting diode and halogen light curing units for curing microhybrid and nanocomposites" J Conservative Dentistry, 2013(16)(3), 233-237.
2. Baranya Shrikrishna Suprabha, Bhargavi Simi "Comparative study of shear bond strength of two adhesive liners to nanocomposite" J Interdisciplinary Dentistry, 2012, 2(3), 170-173.
3. Mamta Dali, Arathi Rao "Clinical Evaluation of Chemo-mechanical Method (Carisolv) for Removal of Carious Dentine". Universal Research J of Dentistry, 2012, (2), 43-48.

International:

1. N. Ghimire, A Rao. "Crown declaration" Case Report, Health Renaissance; 11 (1) 86-88, 2013.
2. Neeta Ghimire, Arathi Rao. "Comparative Evaluation of the influence of television advertisements on children and caries prevalence" J Global Health Action, (6), 20066, 2013.
3. Sumitha Upadhyay, Arathi Rao, Ramya Shenoy. "Comparison of the Amount of Fluoride Release from Nanofilled Resin Modified Glass Ionomer, Conventional and Resin Modified Glass Ionomer Cements" J Dentistry, Tehran University of Medical Sciences, Tehran, Iran 2013, (10), (2) 1-7.
4. Baranya Shrikrishna Suprabha, Arathi Rao, Ramya Shenoy and Sanskriti Khannal "Utility knowledge, attitude, and practice survey, and prevalence of dental caries among 11 to 13-year-old children in an urban community in India" J Global Health Action 2013, 6: 20750.
5. Varghese Chacko, Ramya Shenoy, Hridya E. Prasy, Sheetal Agarwal. "Self-reported Awareness of Oral Health and Infant Oral Health among Pregnant Women in Mangalore, India- A Prenatal Survey" Ind Journal of Health and Rehabilitation Sciences, (2), (2) 109-115, April 2013.

6. Shivika Mehta, Sudha Pespahy, Madonna Joseph, Prabhat K. Tiwari, Saurabh Chawla. "Comparative evaluation of a herbal mouthwash (Freshol) with chlorhexidine on Plaque accumulation, gingival inflammation, and salivary Streptococcus mutans Growth" J International Society of Preventive & Community Dentistry, (3), (1), (25-28) 2013.
7. Nitin Kumar Agrawal, Ashwin P. Rao and Samarika Dahal. "Comparison of Microtensile Bond Strengths of a One-Step Self-Etch and a Two-Step Etch-and-Rinse Adhesive System to Primary and Permanent Dentin – An In Vitro Study". The J of University Grants Commission, Vol.2, No.1, 2013.

National:

Year 2014

1. Ramya Shenoy, Varghese Chacko. Utilization of dental services due to dental pain by pregnant women in India: A qualitative analysis". J of Interdisciplinary Dentistry, (3)(1)18-20, 2013.
2. G. Sivadas, P. Sudha, Ramya Shenoy, Arathi Rao, B.S. Suprabha. "Accuracy of apex locator for root canal length determination of deciduous molars Compared to conventional radiograph". Journal of Interdisciplinary Dentistry (3)(3) 2013.
3. Pramod Philip, Ashwin Rao "Orthodontic extrusion of an impacted tooth with a removable appliance and a bonded attachment: A case report with relevant biomechanics. J Interdisciplinary Dentistry (4),(1)46-49 Jan-Apr 2014
4. Shanti Swarup, Arathi Rao, B. S. Suprabha. Pulp regeneration using nanohydroxyapatite as scaffold in an immature central incisor: 10-month follow-up. J of Interdisciplinary Dentistry, (4), (2)89-92 May-Aug 2014.
5. A.R. Vivekananda Pai, Suprabha Baranya Shrikrishna Nachiket Shah. "Surgical management of overfilled gutta-percha and root capping with mineral Trioxide aggregate in a young patient". J Interdisciplinary Dentistry, (4) (3)148-151, 2014

International:

1. Sivadas G. V.K. Vaishnavi Vedam, Varghese Chacko, P Sudha, "Management of Supernumerary Teeth in Mixed Dentition – Case Series, Int J Dent Case Reports, 3, No. 3 45-51, 2013.
2. Nachiket Shah, Ashwin Rao, Suprabha B.S, Arathi Rao. "Correction of a Single Tooth Anterior Dental Crossbite using a Fixed Z-Spring: A Series of Three Cases. "Ind J Advanced Research, 2, (2)608-611, 2014.

3. Ashwin R Karthik S. "A Modified Two Stage Technique of Administering an Inferior Alveolar Nerve Block in Children. J Nepal Dental Association,13,(2)139-141,2013.
4. A.R. Vivekananda Pai, Varghese Chacko, Megha Pradhan. "Extruded Guttapercha Retrieval Using A Barbed Broach And Mta Apical Barrier In A Tooth With Open Apex – A Case Report Int J Dent Case Reports,4, (1),45-5,2014.
5. Arathi Rao Ashwini Rao, Ramya Shenoy, Neeta Ghimire Changing trends in tooth eruption-survey among children of Mangalore, India, Ind J of Advanced Research,2, (5) 449-454,2014.
6. Dr.Varghese Chacko, M.Pradhan, "Management of traumatically intruded young permanent tooth with 40-month follow-up A Dental J, 240-244,2014.
7. Sanchit Paul Suprabha Baranya Shrikrishna, Ethel Suman, Ramya Shenoy & Arathi Rao. "Effect of fluoride varnish and chlorhexidine –thymol varnish on mutans streptococci levels in human dental plaque: a double-blinded randomized controlled trial" I J Pa DDOI:10.1111/ipd.12085,2013.
8. Nitin Kumar Agrawal, Ashwin Rao. "A Rare Case Report of Bilateral Missing Permanent Mandibular Central Incisors". Int J Dent Case Reports, 4, (2)43-46,2014.
9. Shweta Tiwari, Arathi Rao, Prateek Rastogi, Ramya Shenoy, Suprabha BS Dermatoglyphics And Malocclusion – Are they related? Ind Jn Advanced Research, 2,(6)1097-1103,2014.

The details of books published by our faculty are given below:

Year 2012

#	Title	Name of the faculty	Publisher
1.	Principles and Practices of Pedodontics 3 rd Ed	Dr. Arathi Rao	Jaypee Medical Publishers.
2.	Principles and Practices of Pedodontics, 3 rd Ed- Chapter contribution	Dr. Suprabha B.S	Jaypee Brothers (P)Ltd. Medical Publishers
3.	Principles and Practices of Pedodontics, 3 rd Ed- Chapter contribution	Dr. Ashwin Rao	Jaypee Brothers Medical Publishers(P)Ltd

Year 2013

#	Title	Name of the faculty	Publisher
1.	"Pit and fissure sealants and fluorides" "Essentials of Public Health Dentistry", Ashwini Rao, 5 th edition Mangalore,	Dr. Arathi Rao	Arya Medical Publishers, Mangalore
2.	"Bioceramics in Pediatric Endodontics" 1 st edition,	Dr. Arathi Rao, Dr. Shanti Swarup	Lambert Academic Publishers, Germany,

The details of our conference presentations have been listed below.

Year 2012

National:

#	Title of the presentation	Name of the faculty	Details of Conference
1.	"Management of non vital young permanent teeth"	Dr. Varghese Chacko	the 5 th National ISPRP Conference held on 14 th , 25 th & 26 th August 2012 at Mangalore

International:

#	Title of the presentation	Name of the faculty	Details of Conference
1.	Prevention-our roll"	Dr. Arathi Rao	34 th ISPPD Pattaya, Thailand from 13 th -14 th September 2012.
2.	"Parental influence on Dental behaviour of children: The multidimensional angle."	Dr. Suprabha B.S	34 th ISPPD held at Pattaya, Thailand from 13 th -14 th September 2012.

Year 2013

National:

#	Title of the presentation	Name of the faculty	Details of Conference
1.	"Nano hydroxyapatite.....Its multifactorious applicability" at Pedoscope,	Dr. Arathi Rao	35 th Annual Conference of Indian Society of Pedodontics & Preventive Dentistry from 26 th to 28 th September 2013 at Jaipur.
2.	"Taming the child in the dental clinic through the parent: A paradigm shift" at Pedoscope, 35 th Annual Conference of Indian Society of Pedodontics & Preventive Dentistry from 26 th to 28 th September 2013 at Jaipur.	Dr. Suprabha B.S	35 th Annual Conference of Indian Society of Pedodontics & Preventive Dentistry from 26 th to 28 th September 2013 at Jaipur

Year 2014**National:**

Sl. No.	Title of the presentation	Name of the faculty	Details of Conference
1.	“Evaluation of Pulp Chamber Morphology in Primary Molars – A Guide to Successful Access Opening”	Dr. Varghese Chacko	67 th IDA Hyderabad, February 21st-23rd 2014.

International:

#	Title of the presentation	Name of the faculty	Details of Conference
1.	“Control of Pain during Needle penetration using lignocaine gel spray in children: A randomized clinical trial”	Dr. Suprabha B.S.	2 nd International Conference and Exhibition on Dental and Oral Health, April, 2014, 21 st -23rd Dubai
2.	Comparative evaluation of the remineralizing efficacy of calcium sodium phosphosilicate agent and fluoride based on quantitative and qualitative analysis	Dr. Arathi Rao	9 th Biennial Conference of the Pediatric Dentistry Association of Asia 2014, 24th August 2014, Singapore
3.	“Preference and perceptions towards Traditional & Problem based learning methods among teaching faculty in Mangalore, India”	Dr. Arathi Rao	The Asia Pacific Educational Research Association and The Hong Kong Educational Research Association International Conference 2014, Hong Kong . 19 th to 21 st November 2014.

12. Placement record of the past students and the contribution of the department to aid student placements

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years

1. Department aims at building on the current curriculum by implementation of Activity based learning, conducting group discussions, interactive sessions, case studies, use of computer aided and audio-visual materials
2. Conduct regular journal clubs, case presentations and seminars on recent advances in Paedodontics and Preventive dentistry as a part of post graduate curriculum
3. Conduct at least one continuing dental education programme in a year

4. To maintain the research activities and publications in national and international indexed journals. To have at least 15 publications by five years.
 5. To explore the means to attract external grants for research projects. To have at least two grant based research projects
 6. Faculty will be encouraged to get trained in newer teaching-learning and evaluation methodologies so that they can be implemented to improve the curriculum effectively.
 7. To motivate the faculty to attend and present papers atleast once a year in national/ international conferences.
 8. To involve postgraduate students in research projects and scientific presentation as well as publication of research results. To have at least 10 completed research projects by five years.
-

PUBLIC HEALTH DENTISTRY

1. Faculty profile - adequacy and competency of faculty

There are seven teaching faculty which meets the requirements for Dental sciences and also for postgraduate training as per the regulatory body requirements. All faculty are competent.

S.No	Name	Qualification	Designation	Total experience (in years)
1	Dr. Ashwini Rao	MDS	Professor & Head	16
2	Dr. Rajesh G	MDS	Addl. Prof.	09
3	Dr. RamyaShenoy	MDS, MBA	Assoc. Prof.	08
4	Dr. MithunPai BH	MDS	Reader	05
5	Dr. Kavitha Ashok	BDS	Lecturer	02
6	Dr. NaseeraAbdurrahiman	BDS	Lecturer	01
7	Dr. Shushma Rao	BDS	Lecturer	01

Category	Sanctioned (as per DCI)	Filled
Teaching staff	04	04
Lecturers/Tutors	03	03

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Please refer Annexure 01: Student Profile for detail

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The syllabus of both UG and PG courses, are updated at the board of studies meetings held at the Manipal University conducted annually. The course is regulated by DCI and the department strictly complies with the laid down requirement.

4. Trends in the success and drop- out rates of students during the past two years

Course	Pass Percentage			Dropout Rate		
	2011-2012	2012-2013	2013-2014	2011-2012	2012-2013	2013-2014
BDS	100%	98.68%	95.45%	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources

Library, Department library, Basic science library and Central library

Computers: Desktop-1, Laptops-04

Laboratories and other resources: LCD projector, OHP projector, slide projectors.

6. Modern teaching methods practiced and use of ICT in teaching – learning:

The department extensively uses AV aids like PowerPoint and multi-media for teaching. Traditional methods of teaching using models, demonstrations are also followed.

7. Participation of teachers in academic and personal counseling of students:

The faculty members of the department actively participate in the Teacher guardian scheme. In addition in case of need students are referred to psychiatry counseling centre.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Our 4 faculty members have attended faculty development programmes pertaining to teaching-learning and evaluation and also research methodologies in the past two years. All faculty regularly attend various scientific programmes like conferences, workshops, symposia and CMEs. In the past 2 years faculty have attended at least 20 such programmes.

9. Participation / contribution of teachers to the academic activities including teaching , consultancy and research

All the faculties are actively involved in teaching UG and PG students. All of them participate in research activities. Dr. RamyaShenoy, Associate Professor, Department of Public Health Dentistry, provides statistical consultation for UG, PG and faculty research activities being undertaken in the institution.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Dr. Rajesh G, Associate Professor, Department of Public Health Dentistry, visited the Department of Epidemiology and Public Health, University College London, London, UK, as a part of Staff Exchange Program under the grant awarded by UK-India Education Research Initiative (UKIERI) from 4th April 2013 to 30th April 2013.

A total of £3000 was awarded as a part of the grant and the visit was organized in collaboration with Professor Richard G. Watt, Professor and Head of Department, Epidemiology and Public Health, University College London, London, UK.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

Priority areas: Dental caries, Behavioural sciences and oral health, Disaster management, Early childhood caries, Implementation of Basic Package of Oral Care, Candida and dental caries

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	2
Non-funded research projects	4
PhD research projects	2
PG research projects	12
UG research projects	1

Last 3 years (2010-2012):

Details		2012	2013	2014
Completed funded research projects		-	-	-
Completed non-funded research projects		2	2	-
Completed PhD research projects		-	-	-
Completed PG research projects		3	3	3
Completed UG research projects		-	1	1
Publications	International	2	5	12
	National	-	1	1
Books		1	1	-
Chapters in books		2	2	-
Conference presentations	International	3	1	4
	National	0	3	5

Our ongoing funded research projects are:

#	Title	Funds	Faculty Involved
1.	Effectiveness of dental health education program using digital aids in dental clinic	Rs.10,00,000 from VGST, Govt. Karnataka	Dr. Ramya Shenoy
2.	Effectiveness of comprehensive oral care on Bradburn scale of psychological wellbeing among young adult smokers and tobacco chewers	Rs. 10,000 from ICMR-STC	Dr. Ramya Shenoy

Our ongoing non-funded research projects are:

#	Title	Faculty Involved
1.	Dental students' perceptions of learning environment in a dental school in Mangalore, India.	Dr. Ashwini Rao
2.	A Contemplation Ladder assessing dentally avoidant individuals' readiness to go to a dentist.'	Dr. Mithun Pai
3.	Phone use and psychosocial characteristics among students pursuing health care profession in India'	Dr. Mithun Pai
4.	Antimicrobial efficacy of Soursop Leaf Extract (<i>Annona muricata</i>) on oral pathogens: An in-vitro study'	Dr. Mithun Pai

Our ongoing PhD research projects are:

#	Title	Name of student	Name of the guide
1	"Sense of coherence as a determinant of oral health among young adults in Mangalore city – a longitudinal study"	Dr.Rajesh G	Dr. Dilip.G.Naik
2	Effectiveness of Basic Package of Oral Care in Pregnant Women in Primary Health Centres on the Incidence of Early Childhood Caries in their Children- A Cluster Randomized Controlled Trial	Dr. Ramya Shenoy	Dr. Kundabala M

Our ongoing PG research projects are:

#	Title	Name of the student	Guide
1.	Work associated Stress and Nicotine Dependence among law enforcement personnel in Mangalore, India	Dr. Priyanka R	Dr. Ashwini Rao
2.	Evidence based practice among oral health professionals in Mangalore, India: A Questionnaire study	Dr. Shivani Singh	Dr. Ashwini Rao
3.	"Role of Eichner Index and perceived chewing ability in Oral Health Related Quality Of Life among hospital cohorts in Mangalore	Dr. Seebu Dhingra	Dr. Rajesh G
4.	Compliance with statutory tobacco guidelines in and around schools in Mangalore City – An Observational Study	Dr. Priyanka R	Dr. Ashwini Rao
5.	Relationship between parental dental anxiety, early childhood caries and oral health related quality of life of 2 to 5 years old children in Mangalore, Karnataka	Dr. Shivani Singh	Dr. Ashwini Rao
6.	Role of technology in oral health education among high school children in Mangalore City – A Randomized control trial	Dr. Seebu Dhingra	Dr. Rajesh G
7.	Role of mobile phone text messaging (SMS) in providing oral health education to mothers of primary school children in Mangalore city: A randomized controlled trial	Dr. Richa Gupta	Dr. Rajesh G

Our completed PG research projects are:

Year 2012

#	Title	Name of the student	Guide
1.	Knowledge and behavior pertaining to toothpaste use among parents of 12 year old school children in Mangalore city.	G. Lalithambigai	Dr. Ashwini Rao
2.	Association between dermatoglyphics and dental caries – A cross sectional study among 12 year old school children in Mangalore, India	Dr. VaibhavPravin Thakkar	Dr. Ashwini Rao
3.	The relationship between dental anxiety and utilization of oral health services among young adults aged 18-21 years in Mangalore: A cross sectional study	Dr. Sumeet Bhatt	Dr.Rajesh G
4.	Erosive potential of locally and nationally manufactured carbonated beverages in Mangalore – An in vitro study	G. Lalithambigai	Dr. Ashwini Rao
5.	Fluoride Content And Their Labelling In toothpastes Marketed In India – Is The Relationship Harmonious?	Dr. VaibhavPravin Thakkar	Dr. Ashwini Rao
6.	Effects of refined extracts of smokeless tobacco on Cariogenic organisms: An in-vitro study	Dr. Sumeet Bhatt	Dr.Rajesh G
7.	Trends in Self-Medication for dental problems amongst people attending dental outreach programs in Coastal Karnataka	Dr. Arun K. Simon	Dr. Ashwini Rao
8.	Antimicrobial efficacy of Tulsi leaf (Ocimum sanctum) extract on periodontal pathogens: An in-vitro study.	Dr. S. Mallikarjun	Dr. Ashwini Rao
9.	Consequences of untreated dental caries in primary school children in rural and urban areas of Mangalore Taluk using PUFA Index	Dr. Viral Mehta	Dr.Rajesh G

2013

#	Title	Name of the student	Guide
10.	Oral Health Care Availability in Health Centers of Mangalore Taluk, India	Dr. Arun K. Simon	Dr. Ashwini Rao
11.	Influence of tobacco warning labels in informing smokers about the risks of smoking - A questionnaire study among bus drivers in Mangalore, India	Dr. S. Mallikarjun	Dr. Ashwini Rao
12.	Antimicrobial efficacy of Punicagranatummesocarp, Nelumbonucifera leaf, Psidiumguajava leaf and Coffeacaneophora extract: An in-vitro study.	Dr. Viral Mehta	Dr.Rajesh G
13.	Trends in Self-Medication for dental problems amongst people attending dental outreach programs in Coastal Karnataka	Dr. Arun K. Simon	Dr. Ashwini Rao
14.	Antimicrobial efficacy of Tulsi leaf (Ocimum sanctum) extract on periodontal pathogens: An in-vitro study.	Dr. S. Mallikarjun	Dr. Ashwini Rao
15.	Consequences of untreated dental caries in primary school children in rural and urban areas of Mangalore Taluk using PUFA Index	Dr. Viral Mehta	Dr.Rajesh G

2014

#	Title	Name of the student	Guide
16.	Work associated Stress and Nicotine Dependence among law enforcement personnel in Mangalore, India	Dr. Priyanka R	Dr. Ashwini Rao
17.	Evidence based practice among oral health professionals in Mangalore, India: A Questionnaire study	Dr. Shivani Singh	Dr. Ashwini Rao
18.	“Role of Eichner Index and perceived chewing ability in Oral Health Related Quality Of Life among hospital cohorts in Mangalore	Dr. Seebu Dhingra	Dr.Rajesh G

*Our completed UG research projects are:***Year 2013**

#	Title	Name of the student	Guide
1	Oral health related quality of life and oral hygiene practices amongst pregnant women - a cross sectional study	Ms. Ankita Jain	Dr. Ramya Shenoy

Year 2014

#	Title	Name of the student	Guide
1	Antimicrobial efficacy of toothpastes containing neem leaf and pomegranate peel extract on oral microorganisms: An in-vitro study	Ms.Shivani Daga	Dr. Ramya Shenoy

List of important and noteworthy publications of the faculty in the national and international journals:

Year		Title
2012	International	1. Shenoy R, Rao A, Rao A, Tamarkar M. “Knowledge, attitude and practice amongst gynecologists and pediatricians about oral health in Mangalore city: A questionnaire survey”. J Pierre Fauchard Academy, 2012, 26.
2012	International	2. Rajesh G, Pai MBH, Shenoy R and Priya H. “Willingness to participate in disaster management among Indian dental graduates” Prehospital and Disaster Medicine 2012; 27(5):439-444.
2013	International	3. Simon AK, Rao A, Rajesh G, Shenoy R, Pai MBH. Integrated Health Promotion: Unite to Prevail. J Int Oral Health 2013; 2(2):3 4. Mehta VV, Rajesh G, Rao A, Shenoy R, Pai MBH. STEP Up The Oral Health Setup. J Int Oral Health 2013; 2(2):2 5. Mallikarjun SS, Rao A, Rajesh G, Shenoy R, Pai MBH. Common risk factors – Better to shun the bait than to struggle in their snare. J Int Oral Health 2013; 2(2): 5 6. Shenoy R, Rao A, Rajesh G, PaiM , Dentistry on wheels Oral health. J Int Oral Health 2013; 2(2):6. 7. Bhagat TK, Rao A, Shenoy R. Assessment of Oral Health Status of 35-44 and 65-74 Year Old Adults in Bairawa, Saptari, Nepal. Indian Journal of Contemporary Dentistry 2013; vol 1, No. 2: 123-126

2013	National	8. ShenoyR,ChakoV.Utilization of dental services due to dental pain by pregnant women in India:A qualitative analysis.Journal of interdisciplinary Dentistry 2013:3 (1) :18-20.
2014	International	<p>9. Pai M, Shenoy R, Rajesh G, Nayak V and Rao A. Informed Consent In a Dental Outreach Program -What patients want to know before their dental treatment? International Journal of Advanced Research 2014; Volume 2, Issue 1: 537-543</p> <p>10.Vaibhav P. Thakkar V, Rao A, Rastogi P, Shenoy R, Rajesh G, Pai M BH. Dermatoglyphics and Dental Caries: A Cross Sectional Study among 12 Year Old School Children in Mangalore, India. Indian Journal of Forensic Medicine and Pathology January - March 2014; Volume 7 Number 1: 19-25</p> <p>11.Dr. Ashwini Rao. Edited the textbook “Essentials of Public Health Dentistry”, 5th edition, Arya Medi Publications, New Delhi. July 2013</p> <p>12.Simon AK, Rao A, Rajesh G, Shenoy R, Pai MB. Oral health care availability in health centers of Mangalore taluk, India. Indian J Community Med 2014;39:218-22.</p> <p>13.Pai M, Shenoy R, Rajesh G, Ashwini Rao. Symptoms of carpal tunnel syndrome in a dental work force of a developing country. International Journal of Advanced Research 2014; Volume 2, Issue 2: 87-94</p> <p>14.G. Lalithambigai, Ashwini Rao, Rajesh G, RamyaShenoy, MithunPai BH. Carbonated Beverages and their Erosive potential – An In Vitro Study. International Journal of Advanced Research (2014), Volume 2, Issue 4 ,833-838</p> <p>15.Sumeet Bhat, GuruRaghavendran Rajesh, Mithun BH Pai, Ashwini Rao, RamyaShenoy. Effects of refined extracts of smokeless tobacco on Cariogenic organisms: An in-vitro study. International Journal of Advanced Research (2014), Volume 2, Issue 4 ,847-852</p> <p>16.Arathi Rao, Ashwini Rao, Ramya Shenoy, Neeta Ghimire. Changing trends in tooth eruption-survey among children of Mangalore, India. International Journal of Advanced Research (2014), Volume 2, Issue 5, 449-454</p> <p>17.Ashwini Rao, Ramya Shenoy, Arathi Rao. Impact of periodontal health on the Quality of Life among Diabetics. International Journal of Advanced Research (2014), Volume 2, Issue 6, 608-613</p> <p>18.Viral V. Mehta, Gururaghavendran Rajesh, Ashwini Rao, Ramya Shenoy, MithunPai B.H. Antimicrobial Efficacy of PunicaGranatummesocarp, Nelumbonucifera Leaf, PsidiumGuajava Leaf and CoffeaCanephora Extract on Common Oral Pathogens: An In-vitro Study. Journal of Clinical and Diagnostic Research. 2014 Jul, Vol-8(7): ZC65-ZC68</p> <p>19.Sajjanshetty Mallikarjun, Ashwini Rao, Gururaghavendran Rajesh, Ramya Shenoy, Mithun BH Pai. Role of Tobacco Warning Labels in Informing Smokers about Risks of Smoking among Bus Drivers in Mangalore, India. Asian Pac J Cancer Prev, 15 (19), 8265-8270</p> <p>20.Arathi Rao, Ashwini Rao, RamyaShenoy. Are schools and teachers prepared to respond to health emergencies in children? A questionnaire study in Mangalore, India. International Journal of Advanced Research (2014), Volume 2, Issue 11, 1123-1126</p>
2014	National	21.Shenoy R, Jain A, Kundabala M .Atraumatic restorative treatment for dental caries among pregnant women attending primary health centres: A small scale demonstration. Journal of Interdisciplinary Dentistry, 2014:4 (2): 71-75.

The details of books published by our faculty are given below:

#	Year	Title	Name of the faculty	Publisher
1.	2012	Essentials of public health dentistry- 4 th Edition	Dr. Ashwini Rao.	Arya Medi publishing house, Delhi
2.	2013	Essentials of public health dentistry- 5 th Edition	Dr. Ashwini Rao.	Arya Medi publishing house, Delhi

The details of our conference presentations have been listed below.

Year 2012

#	Title of the presentation	Name of the faculty	National / International	Details of Conference
1.	“ART-Pros and Cons”	Dr. Ramya Shenoy	National	47 th Karnataka State Dental Conference held on 5 and 8 November 2012 at Bantwal.
	“Authorship issues in scientific publications	Dr. Rajesh G	National	XVII National Conference of the Indian Association of Public Health Dentistry.Chennai. 23-25 Nov’ 12
2.	‘Informed consent in a dental outreach program what the patients want to know before their treatment	Dr. Mithun Pai	National	XVII National Conference of the Indian Association of Public Health Dentistry.Chennai. 23-25 Nov’ 12.

Year 2013

#	Title of the presentation	Name of the faculty	National / International	Details of Conference
1.	Utilization of dental services due to pain in pregnant women-A questionnaire study’	Dr. Ramya Shenoy	International	Max Atria Singapore Expo, from 3-5 May, 2013 at Singapore
2.	Disaster management scenario among Indian general dental practitioners	Dr. Rajesh G.	National	ISDR, Delhi from 3-6 May, 2013
3.	Social determinants of oral health behavior among young adults in Mangalore city”.	Dr. Rajesh G.	National	18 th National Conference of IAPHD, Lucknow from 22-24 Nov, 2013
4.	Informed consent in a dental outreach programme ‘what the patients what to know in Mangalore city	Dr. Mithun Pai	National	18 th National Conference of IAPHD, Lucknow from 22-24 Nov, 2013

5.	Effects of Smokeless tobacco on the oral health status during pregnancy and the perinatal adverse outcomes	Dr.Ramya Shenoy	National	41st Karnataka State Dental Conference from 22-24 Nov 2013 at Coorg.
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Year 2014

#	Title of the presentation	Name of the faculty	National / International	Details of Conference
1.	Sense of coherence among young adults in Mangalore city-A validation study	Dr. Rajesh G	National	Manipal Research Colloquim -2014 from 11-12 April, 2014 at Manipal
2.	Atraumatic restorative treatment for dental caries in pregnant women in primary health centres-A small scale demonstration	Dr. Ramya Shenoy	National	Manipal Research colloquium-2014 held at Manipal University, Manipal on April 11-12, 2014.
3.	Perceptions of pregnant women with low educational attainment about informed consent while registering into randomized controlled trial in India – A qualitative study	Dr. Ramya Shenoy	International	2nd International conference and exhibition on dental and oral health from April 21-23, 2014 at Dubai.
4.	Antimicrobial efficacy of Annona muricata leaf, on Candida Albicans, Porphyromonasgingivalis and Prevotella intermedia: An in-vitro study	Mithun Pai B H	National	39th ISP National Conference from 10 th -12 th October 2014 at Jaipur
5.	Disaster management scenario among various health care students in India: a multi – institutional, multi-professional survey	Rajesh G	National	ISDR, Chennai from 31 Oct-2 nd Nov. 2014
6.	Antimicrobial efficacy of Soursop leaf extract on oral pathogens: An in-vitro study	Dr. Mithun Pai B	National	XIX Indian Association of IAPHD from 20-22 November 2014 at Cochin
7.	“Dental students’ perceptions of their learning environment: The Indian DREEM”	Dr. Ashwini Rao	International	APERIA International Conference from 19 th to 21 st November 2014 at Hongkong
8.	Perceptions of pregnant women with low educational attainment about informed consent after registering into randomized controlled trial in India – A qualitative study	Dr. Ramya Shenoy	International	Advancing Ethical Conference Baltimore in Dec 2-5, 2014. Also Awarded with partial scholarship and ICMR Travel grant to attend the conference.

12. Placement record of the past students and the contribution of the department to aid student placements:

Students after successful completion of third year would progress to final year.

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years:

1. Optimum utilization of resources to enhance student learning and help them achieve their learning goals and to modify teaching to improve the outcomes in the examinations.
 2. Conduct continuing dental education programmes
 3. To maintain the research activities and publications in national and international indexed journals.
 4. To explore the means to attract external grants for research projects
 5. To improve inter-departmental research projects.
 6. To undertake postgraduate research training workshops related to research methodology, biostatistics and epidemiology
 7. To motivate the faculty to attend and present papers atleast once a year in national/ international conferences.
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Oral and Maxillofacial Surgery

1. Faculty profile - adequacy and competency of faculty

There are nine teaching faculties in the department which meets the requirements for Dental and other allied health sciences and also for postgraduate training as per the regulatory body requirements. All faculty are competent.

Faculty list

#	Name	Qualification	Designation	Experience in years (As on 31.12.2014)
1.	Dr. Premalatha K	MDS	Professor & Head	18
2.	Dr. Mohan Baliga	MDS	Professor/Assoc. Dean	28
3.	Dr. Anand Amirthraj	MDS	Addl. Prof.	10
4.	Dr. Nakul Uppal	MDS	Assoc.Prof.	08
5.	Dr. Arvind R	MDS	Assoc.Prof.	07
6.	Dr. Dharnappa Poojary	MDS	Assoc.Prof.	06
7.	Dr. Joanna Baptist	MDS	Reader	04
8.	Dr.Sameep Shetty	MDS	Asst.Prof.	01
9.	Dr.Savil R Uchil	BDS	Lecturer/Tutor	01

Category	Sanctioned (as per DCI)	Filled
Teaching staff	7	7
Lecturers/Tutors	1	1

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Refer Annexure 01: Student Profile for detail

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The syllabus of both UG and PG courses, are updated at the board of studies meetings held at the Manipal University conducted annually. The course is regulated by DCI and the department strictly complies with the laid down requirement.

4. Trends in the success and drop out rates of students during the past four years

Course	Pass percentage			Dropout Rate		
	2011-2012	2012-2013	2013-2014	2011-2012	2012-2013	2013-2014
BDS	99	99	98	0	0	0
MDS	100	100	100	0	0	0

5. Learning resources of the departments - library, computers, laboratories and other resources-

The department has well-equipped library with 8 Laptops, 2 Desktop, and Study models.

Air-conditioned Lecture halls are shared between departments and they accommodate 150 students and are equipped with LCD, OHP, Black Board and acoustic system.

6. Modern teaching methods practiced and use of ICT in teaching – learning

Audio visual aids are being used extensively for teaching purposes. Lecture halls and seminar halls are equipped with computers and LCD projectors to enable the faculty to use PowerPoint presentations while teaching students. Wi Fi facility. All students are provided with laptops/I pads. Activity based learning is effectively used in the classroom. Conducting group discussions, seminars, interactive sessions, and case studies etc. Computer aided and audio-visual materials are used in coaching the students. Encouraging the students to participate in the State and National Level seminars.

7. Participation of teachers in academic and personal counseling of students

All The faculty members of the department actively participate in the Teacher guardian scheme. Their academic performance and attendance are regularly monitored and brought to the notice of their parents. Counseling to students is done as and when necessary. Academic advisory system adopted by the college, ensures that every teacher bears the responsibility of properly counseling and guiding the students Parents are also counseled during the Parent-Teacher Meet and as and when necessary.

8. Details of faculty development programmes and teachers who have been benefited

During the past two years

Faculties attend faculty development programmes pertaining to teaching-learning and evaluation and also research methodologies. All of them have undergone training regarding the same in the past. All faculty regularly attend various scientific programmes like conferences, workshops, symposia and CPDs. Faculty have attend and presented totally 65 conferences, CDE etc.

Details of faculty development programmes attended by faculty:

1. Dr.Premalatha Shetty, Dr.Mohan Baliga, Dr.Anand Amirthraj, Dr.Nakul Uppal, Dr.Arvind, Dr.Dharnappa Poojary, Dr.JoannaBaptis attended Hands on Workshop

- conducted by our department on 17th & 18th February, 2012 on “Basic Life Support” with resource persons, Dr. Madhusudhan Upadhyaya, Prof. & HOD, Dr. Jesney, Assoc. Professor and Dr. Meghna, Assoc. Prof. from the Dept. of Anaesthesiology, KMC, Mangalore.
2. Dr. Premalatha Shetty, Dr. Mohan Baliga, Dr. Anand Amirthraj, Dr. Nakul Uppal, Dr. Arvind, Dr. Dharnappa Poojary, Dr. Joanna Baptis attended a CPD - “Max-Facts 2012” – Best Practices in Hospital care of Maxillofacial Patients conducted by our department on 1st September 2012. Speakers, Dr. Rajesh C. Ballal, Prof & Head, General Surgery who presented “Wound care : wisdom of the ages”, Dr. Rohan Kumar G, Asst. Professor of General Surgery presented “Overview of Nasogastric Intubation and feeding”, Dr. Jesni Joseph, Assoc. Professor, Anesthesiology presented “Error-free post-surgical Monitoring”, Dr. Madhusudan Upadya, Medical Superintendent of Attavar hospital & Professor of Anesthesiology presented “Peripheral venous catheterization: do’s & don’ts.” and Dr. Premalatha Shetty, Professor & Head, Department of Oral & Maxillofacial Surgery presented “Surgical safety checklist.”
 3. Dr. Mohan Baliga invited by Government of India to design the curriculum for BPKIHS Daran (MDS Oral & Maxillofacial Surgery) 6 to 9th January 2011.
 4. Dr. Premalatha Shetty, Dr. Mohan Baliga, Dr. Anand Amirthraj, Dr. Nakul Uppal, Dr. Arvind, Dr. Dharnappa Poojary, Dr. Joanna Baptis attended Hands on Workshop conducted by our department on 17th & 18th February, 2012 on “Basic Life Support” with resource persons, Dr. Madhusudhan Upadhyaya, Prof. & HOD, Dr. Jesney, Assoc. Professor and Dr. Meghna, Assoc. Prof. from the Dept. of Anaesthesiology, KMC, Mangalore.
 5. Dr. Premalatha Shetty, Dr. Mohan Baliga, Dr. Anand Amirthraj, Dr. Nakul Uppal, Dr. Arvind, Dr. Dharnappa Poojary, Dr. Joanna Baptis attended a CPD - “Max-Facts 2012” – Best Practices in Hospital care of Maxillofacial Patients conducted by our department on 1st September 2012. Speakers, Dr. Rajesh C. Ballal, Prof & Head, General Surgery who presented “Wound care : wisdom of the ages”, Dr. Rohan Kumar G, Asst. Professor of General Surgery presented “Overview of Nasogastric Intubation and feeding”, Dr. Jesni Joseph, Assoc. Professor, Anesthesiology presented “Error-free post-surgical Monitoring”, Dr. Madhusudan Upadya, Medical Superintendent of Attavar hospital & Professor of Anesthesiology presented

- “Peripheral venous catheterization: do’s & don’ts.” and Dr.Premalatha Shetty, Professor & Head, Department of Oral & Maxillofacial Surgery presented “Surgical safety checklist.”]
6. Dr. Arvind R participated in the workshop on “Pedagogic & personal effectiveness” on 21st to 26th February 2013 at Manipal centre for professional and personal development Manipal.
 7. Dr. Joanna Baptist participated in the workshop on “Pedagogic & personal effectiveness” on 21st to 26th February 2013 at Manipal centre for professional and personal development Manipal.
 8. Dr. Arvind R attended workshop on “Curriculum Design” organized by Manipal centre for professional and personal development (MCPD) on 9th July 2013.
 9. Dr. Premalatha Shetty attended workshop “Mentoring of medical students” conducted by Dr. Tejinder Singh held on 11th January 2014 at Kasturba Medical College, Mangalore.
 10. Dr. Premalatha Shetty, Dr.Mohan Baliga, Dr.Anand A Raj, Dr.Nakul Uppal, Dr. Sameep Shetty attended AOCMF Introductory seminar held at Yenepoya dental college, Mangalore on 28th February & 1st March 2014.
 11. Dr. Premalatha Shetty attended Trauma conference held at Singapore, on April 12th & 13th 2014
 12. Dr. Premalatha Shetty attended CME on “Tobacco use Cessation: Perspectives and Practice” by Department of Pharmacology KMC Mangalore & department of Oral Medicine & Radiology MCOADS Mangalore. On 7th June 2014.
 13. Dr. Anand Amirthraj attended CDE programme on “Panfacial Trauma & ICU Protocol” held on 28th June 2014 at Vimshathi Bhavan A.B Shetty Memorial Inatitute of Dental Sciences,Mangalore
 14. Dr. Dharnappa Poojary attended CDE programme on “Panfacial Trauma & ICU Protocol” held on 28th June 2014 at VimshathiBhavan A.B Shetty Memorial Inatitute of Dental Sciences, Mangalore
 15. Dr. Sameep Shetty attended CDE programme on “Panfacial Trauma & ICU Protocol” held on 28th June 2014 at Vimshathi Bhavan A.B Shetty Memorial Inatitute of Dental Sciences, Mangalore
 16. Dr. Anand Amirthraj attended CPD program and workshop on “Intra Oral Photography – A fine art’ organized by MCOADS mangalore on 17th June 2014

17. Dr. Dharnappa Poojary attended CPD program and workshop on “Intra Oral Photography –A fine art’ organized by MCODES mangalore on 17th June 2014
18. Dr. Nakul Uppal attended online CDE programme “Developing Effective Interactions with Today’s Faculty and Dental Students” by Steven Schwartz, DDS on May 12th 2014 by the Procter & Gamble Company, an American Dental Association-recognized CDE Provider. Certificate ID: 3239113
19. Dr. Premalatha Shetty, Dr. Mohan Baliga, Dr. Nakul Uppal, Dr. Joanna Baptist attended CPD programme on “Eye for Implantology : Beginners workshop” held at MCODES, Mangalore. On 24th July 2014
20. Dr. Premalatha Shetty attended CDE programme on “Flaps in Maxillofacial Reconstruction” held at A.J. Institute of Dental Sciences, Kuntikana, Mangalore . On 23rd August 2014
21. Dr. Anand Amirthraj. Attended CDE programme on “Flaps in Maxillofacial Reconstruction” held at A.J. Institute of Dental Sciences Kuntikana, Mangalore . On 23rd August 2014.
22. Dr. Dharnappa Poojary attended CDE programme on “Flaps in Maxillofacial Reconstruction” held at A.J. Institute of Dental Sciences, Kuntikana, Mangalore . On 23rd August 2014
23. Dr. Sameep S Shetty attended CDE programme on “Flaps in Maxillofacial Reconstruction” held at A.J. Institute of Dental Sciences, Kuntikana, Mangalore . On 23rd August 2014
24. Dr. Premalatha K attended training programme on “Nurturing an Effective work place” for the Head of the departments of Institutions of Manipal University conducted by TAPMI during 17-18, 2014 at Manipal.
25. Dr. Nakul Uppal attended 11th Annual state conference of AOMSI held on 11th & 12th October 2014. At Mahe Institute of dental Sciences (MINDS), Chalakkara, Mahe UT of Puducherry
26. Dr. Sameep Shetty has participated in the CPD program organized by the department of conservative dentistry & Endodontics, Manipal College of Dental Sciences, Manipal on 24th October 2014.
27. Dr. Anand Amirthraj A attended 39th National conference of association of Oral & Maxillofacial surgeons of India AOMSICON 2014 14th to 16th November 2014, Goa
28. Dr. Anand Amirthraj A attended “persuasive communication” workshop on 28th & 29th

November 2014 organized by Manipalcentre for professional and personal development (MCPD) Manipal

29. Dr. Arvind Ramanathan attended 39th National conference of association of Oral & Maxillofacial surgeons of India AOMSICON 2014 14th to 16th November 2014, Goa.
30. Dr. Dharnappa Poojary attended 39th National conference of association of Oral & Maxillofacial surgeons of India AOMSICON 2014 14th to 16th November 2014, Goa
31. Dr. Dharnappa Poojary attended 2nd Interstate & 42th Karnataka state dental conference held on 28th, 29th & 30th November 2014 at Sahyadri Institute of Technology, Mangalore
32. Dr. Premalatha Shetty attended workshop on Ethics in research conducted by Institutional ethics committee Manipal College of dental sciences, on 5th December 2014 Mangalore.

9. Participation / contribution of teachers to the academic activities including teaching,

Consultancy and research

Didactic lectures for both UGs and PGs, Moderating and evaluating undergraduate seminars and group discussions and also post graduate teaching. Participation in clinical society meetings, STS projects.

10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years

Post Graduate students of our departments will be posted at following departments

1. Basic science classes – 3months
2. Biochemistry, Microbiology, Pathology Lab – 15 days each (1/2day mornings)
3. Medicine, Surgery, Anaesthesia – 15 days each (1/2day mornings)
4. Ophthalmology, ENT, Orthopaedics – 15 days each (1/2day mornings)
5. Neuro surgery -1 month
6. Radiation oncology, Radiology – 15 days each
7. Shirdi Baba cancer center at Manipal – 1 month
8. RCPS Glasgow
9. Department of Community Medicine KMC Mangalore.

1. Dissertation work submitted by our Post Graduate student Dr. Prabhat Kumar Tiwari on “Effects of Zinc Supplementation on Oral Mucositis in patients Receiving

Radiotherapy for Head and Neck cancers: A Double – blinded Randomized study was Co- guided by Dr. Kamalaksha Shenoy, Professor and Head of Oncology & Radiotherapy, Kasturba Medical College Hospital, Mangalore.

2. Dissertation work submitted by our Post Graduate student Dr. Rohan Suhas Bhambar on “ Incidence of Second Primary in Oral Squamous Cell Carcinoma; Analytical study from June 2006 to June 2011 was Co- guided by Dr. Kamalaksha Shenoy, Professor and Head of Oncology & Radiotherapy, Kasturba Medical College Hospital, Mangalore.

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.

Priority areas: Head & Neck cancer, Orofacial pain, Innovations in teaching, & Patient safety and satisfaction.

Ongoing

Category	Number
Funded research projects	0
Non-funded research projects	5
Phd research projects	0
PG research projects	9
UG research projects	0

Last 3 years (2012-2014):

Details		2012	2013	2014
Completed funded research projects		0	0	0
Completed non-funded research projects		4	5	4
Completed PhD research projects		0	0	0
Completed PG research projects		3	3	3
Completed UG research projects		0	0	0
Publications	International	7	8	8
	National	2	0	4
Books		0	0	0
Chapters in books		0	0	0
Conference presentations	International	1	3	1
	National	0	11	12

Ongoing non funded Projects: Last 3 years (2012-2014):

2012

#	Title	Principal Investigator	Co-investigator
1.	The effectiveness of slow rate of infection in reducing pain and anxiety during administration of intraoral local	Dr. Nakul Uppal	

	anesthesia”.		
2.	Survey on Tobacco education module in dental college”.	Dr. Premalatha Shetty	
3.	Comparison of Ropivacaine and Bupivacaine to provide long-acting local anesthesia in oral surgery”.	Dr. Premalatha Shetty	Dr. Nakul Uppal Dr. Arvind Ramanathan
4.	Be Aware or Beware. Awareness of consumer protection Act”.	Dr. Dharnappa Poojary	Dr. Premalatha Shetty

2013

#	Title	Principal Investigator	Co-investigator
1.	“Comparative efficacy of Intra –lesional steroids, Pentoxifylline and Lycopene in the management of oral submucous Fibrosis – A Randomized clinical trial.	Dr. Almas, Dr. Rajesh, Dr. Junaid Ahmed, Dr. Ceena, Dr. Premalatha Shetty.	
2.	“Etiology & Patterns of Maxillofacial Trauma” Investigator –	Dr. Arvind R	
3.	“Assessing Prescription writing practices influencing drug dispensing and healthcare “ Investigator –	Dr. Joanna Baptist, Sakshi Das.	
4.	“Purpose of mobile phone usage in the operating room by the surgeon and its application:	Dr. Anand Amithraj	Dr. Ashok M
5	“Perceptions toward needle stick injuries and practices of post-exposure prophylaxis among healthcare students in Mangalore: a cross sectional study.”	Dr. Nakul Uppal	Mr Benjie Law Zie Yuan, intern.

2014

#	Title	Principal Investigator	Co-investigator
1.	“Physics Forceps V/S European Pattern Extraction Forceps in Exodontia – A Comparative Study”	Dr. Purshkar Kumar,	Dr. Premalatha Shetty & Dr. Sappidi Sreekanth.
2.	“Perceptions of Oral & Maxillofacial Surgery as a specialty among dental students – A descriptive study”	Dr. Kriti Jain,	Dr. Mohan Baliga & Dr. Anand Amirthraj
3.	“Assessment of toothbrush microbial contamination in dental healthcare providers”	Dr. Ravikiran Ongole, Dr. Joanna Baptist, Dr. Sevitha (Associate professor, Microbiology) & Miss. Sakshi Das	
4.	“Comparison of efficacy of zinc oxide eugenol, alveogyl and laser therapy in dry socket.”	Dr. S. Sreekanth	Dr. Premalatha Shetty Dr. Nakul Uppal Dr. Pushkar Kumar

Our completed PG research projects are:

Year 2012

#	Title	Name of the student	Guide
1.	Effects of Zinc Supplementation on Oral Mucositis in patients Receiving Radiotherapy for Head and Neck cancers: A Double – blinded Randomized study.	Dr. Prabhat Kumar Tiwari	Dr. Premalatha Shetty
2.	Incidence and Recurrence of second Primary in Oral Squamous Cell Carcinoma : Analytical Study from June 2006 to June 2011.	Dr. Rohan Suhas	Dr. Mohan Baliga
3.	A Comparison of Infra Orbital and subciliary Approaches for exposure of Orbital fractures.	Dr. Jefferson Prince	Dr. Premalatha Shetty

Year 2013

#	Title	Name of the student	Guide
1.	Versatility of collagen membrane for Intra-Oral Mucosal defects – A prospective study.	Dr. Harsh Kumar	Dr. Premalatha Shetty
2.	Versatility of Abbe-estlander flap in lip reconstruction.	Dr. Ashish Kumar	Dr. Premalatha Shetty
3.	Efficacy of pterygoiddysjunction in treatment of painful temperomandibular joint dysfunction – A clinical study.	Dr. Rammohan R	Dr. Moahn Baliga

Year 2014

#	Title	Name of the student	Guide
1.	A study of Head Injuries and Cervical Spine Injuries among patients with Maxillofacial Trauma: A hospital based 5 yrs retrospective study Protocol approved and submitted to the university	Dr. Sony G Pullan	Dr. Premalatha Shetty
2.	Prognostic significance of preoperative hemoglobin level in oral squamous cell carcinoma – a retrospective record based study.	Dr. M. Ashok	Dr. Premalatha Shetty
3.	Anatomical grid system for classification of lymph nodes of head and neck for management of carcinoma of the oral cavity – a descriptive study.	Dr. Sudhir Jagannathan	Dr. Mohan Baliga

The details of our publications are described below

Publications: 2012:

International :

1. Deo SP, **Shetty P.** “Effect of submucosal injection of Dexamethasone on post-operative sequelae of third molar surgery”. Journal of Nepal Med Association 2011, 51(182):71-7 April-June 2011.
2. **Anand A**,Yadav SK. “Evaluation of masticatory efficiency in maxillofacial trauma patients following occlusal rehabilitation: A clinical study”. Journal of Nepal Dental Association (2011),Vol. 12,No.1, Jan-Jun 22-25.
3. **Uppal N.** “Impaction simulator for clinical trainees in Oral Surgery”. Journal of Nepal Dental Association (2011), Vol. 12,No.1, Jan-Jun 83-84.
4. Sagtani A, Sybil D, **Shetty P, Baliga M.** “Cryotherapy of intra – oral lesions using dipsticks”. Journal of Nepal dental association (2011), vol.12, No.1 Jan-June 29-32.
5. Deo SP. **Shetty P.** “Accidental chemical Burns of Oral Mucosa by Herbicide”. Journal of Nepal Dental Association 2012; 52(185): 40-42 Jan-March 2012.
6. Sharon Saldanha, Vidya K Shenoy, Prashanti Eachampati and **Nakul Uppal.** Review article “Dental implications of bisphosphonate-related osteonecrosis” Gerodontology 2012; 29(3): 177-187.
7. **J. Baptist**, S.M. Sharma & N. Hegde, “Self-medication practices for managing tooth pain amongst patients attending oral surgery clinics”. Oral surgery page No.163-167, 2012

National:

1. **Arvind Ramanathan, Premalatha Shetty.** “Letter to the editor: 3D CT Reconstruction of mandibular fracture”.2012
2. Senthil P. Kumar, Vijaya Kumar, **Mohan Baliga.** “Work-related musculoskeletal disorders among dental professionals: An evidence-based update”. Indian Journal of Dental Education, Volume 5, Number 1,January -March 2012

2013

International :

1. **Dr. Nakul Uppal.** “Re: Towards a classification system for complex craniofacial fractures: how close are we to developing a satisfactory scale?”. *British Journal of Oral and Maxillofacial Surgery* vol. **51** pages 83-84, year 2013.

2. **Anand Amritraj**, Poornima Sawri Rajan, Nandita sheony, **Dharnappa Poojary**, Siiddarth Shetty. “Awareness among young dentists about transmission of H.I.V and presentive measures”. International Journal of Bloassays original article, 2013,02(04) 701-704.
3. Vijaya K Kumar, Senthil P Kumar, **Mohan R Baliga**. “Original Research “ Prevalence of work-related musculoskeletal complaints among dentists in India: A national cross-sectional survey”. Indian Journal of dental Research,24(4),2013 page No. 428 to 438
4. **Arvind Ramanathan**, **Mohan Baliga** & Rammohan Kumar. “Dentoalveolar Surgery in Oral Submucous Fibrosis: Need for caution”. Journal of Maxillofacial and Oral Surgery Volume 12(3) July –September 2013 page No.341-342.
5. Amita S Rao, Rashmi Kaup S, Nayanatara AK, Kismat **Anand**, **Dharnappa Poojary**, Sheila R Pai. “Research article “Effect of Antibacterial and Antifungal activities ofSesamumIndicum” World Journal of Pharmaceituical Research Volume 2,Issue5, August 13 page No. 1676-1680.
6. **Dr. Premalatha K.**, **Dr. Dharnappa Poojary**, Dr. M. Ashok and Dr. Radha R Pai “Uncommon cause of non-healing extraction socket with oro-antral fistula-A case report”. International Journal of advanced research (2013) volume1, Issue 8, Page no. 874-879.
7. Karen Boaz, Krupa Kaushik Mehta, Srikant Natarajan, **MohanBaliga**, Nandita KP. “Clinical and diagnostic research “Palatal swelling in a patient suffering from Filariasis”. Journal of clinical and diagnostic research, 2013 November Vol 7(11) 2651-2654.
8. Junaid Ahmed, Anand Amrithraj, Karen Boaz, Nandita Shenoy, **Dharnappa Poojary**, Shubhan Alva. “Enery Medicine in the Management of Chronic Orofacial Pain – A Review”. International Journal of Medical and Health Sciences, Vol-2,Issue -3 July 2013.

2014

International

1. Amith Kumar, Suchetha Kumari, **Dharnappa Poojary**, Hiren Sarji Rashmi K.S. “Estimation of Serum Micronutrient levels and the possible risk of oral cancer and

- pre malignancy". International journal of Innovative research in science Engineering and technology, vol 3(1) 8360-8363
2. Santhosh Kumar Yadav, **Premalatha Shetty** . "Primary small cell Undifferentiated (Neuroendocrine) carcinoma of the Maxillary sinus". Case reports in dentistry, vol.2014 pg no.1 of 5
 3. **Mohan Baliga, Joanna Baptist**. "Myositis Ossificans of Infraorbital Musculature in Uncontrolled Diabetic". The New York dental Journal
 4. S. Mahesh Sharma, Muralee Mohan, **Joanna Baptist**. "Dental Considerations in Hereditary EpidermolysisBullosa". The New York Dental Journal
 5. **Nakul Uppal, Mohan Baliga**. "Necrotizing sialometaplasia: A rare lesion that mimics oral cancer clinically and histopathologically". OtolaryngologiaPolska, vil.68,pg.no.154-156
 6. **Mohan Baliga, Joanna Baptist**. "Fracture of the Coronoid process Associated with Case report Published online
 7. Ashish Kumar, **Premalatha M Shetty**, Rohan Suhas, Bhambar, Shashank Reddy Gattumeedhi, Ram Mohan Kumar and Harsh Kumar. "Versatility of Abbe-Estlander Flap in Lip Reconstruction-A Prospective clinical study". Journal of Clinical & Diagnostic research.
 8. **Nakul Uppal**. "Provided for non-commercial research and education use not for reproduction, distribution or commercial use". British Journal of Oral & Maxillofacial surgery, vol. 52, pg.no.771-773

National

1. **Amritraj Anand, Baliga Mohan**, Shenoy Nandita, Kriti. "Multidisciplinary Management of Extensive Maxillofacial Trauma within the orbit from a rotary industrial machine tool". Unique Journal of Medical and dental Sciences, vol.02(01),pg no. 50-52
2. Prof. (Dr) Muralee Mohan, Dr. Deepthi Shetty, Dr. Tripthi, Dr. Ashay Shah, **Dr. Dharnappa Poojary**. "Osteoma : A case Review",Vol.06
3. **Mohan Baliga**, Nandita Shenoy, **Dharnappa Poojary**, Ram Mohan, Ramdas Naik. "Epidermoid cyst of the floor of the mouth". National Journal of Maxillofacial Surgeryvol.5, pg.no.79-83

4. **Anand Amirth Raj, Premalatha M Shetty**, Santosh Kumar Yadav. “Lipoma of the Floor of the Mouth: Report of an unusually large lesion”. Journal of Maxillofacial oral surgery, vol.13(3), pg.no. 338-331

12. Placement record of the past students and the contribution of the department to aid student placements

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years

1. To improve the publications and the Research activity.
 2. To organize state/National conference.
 3. To conduct more short studies
 4. To conduct more hands on workshops.
 5. To develop surgical skill lab.
-

ORAL MEDICINE AND RADIOLOGY

1. Faculty profile - adequacy and competency of faculty

The Department of Oral Medicine and Radiology has adequate faculty as prescribed by the regulatory body. The faculties are competent. They have been performing various teaching and research activities in their area of specialization, catering to the needs of the undergraduate / postgraduate students.

No.	Name of faculty	Qualification	Designation	Experience in years (As of 31 st Dec 2014)
1	Dr. Junaid Ahmed	MDS	Professor & Head	17
2	Dr. Ravikiran Ongole	MDS	Professor	12
3	Dr. Ceena Denny E	MDS	Assoc. Prof	8
4	Dr. Nandita Shenoy	MDS	Assoc. Prof	7
5	Dr. Almas Binnal	MDS	Reader	4

Faculty Positions sanctioned and filled:

Department	Faculty	
	Sanctioned	Filled
Teaching PG staff	5	5
Tutors	1	1

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.

Refer Annexure 01: Student Profile for detail

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

The last major revision of the practical records was implemented in the year 2007. The practical record books of undergraduate students were revised incorporating many additional exercises is done in the year 2013

The charts meant for group discussions are constantly improved keeping in mind the recent advances so that the older concepts are deleted and newer choices of diagnostics are incorporated.

The department has introduced newer teaching-learning methodologies like Problem Based Learning, OSCE, and Case of the fortnight quiz. In addition, the possibility of using integrated teaching is being explored.

We have procured a CBCT machine and department has introduced a CBCT certification course which is being conducted twice a year(march and September)

4. Trends in the success and of students during the past three years: ----

BDS Under graduate students:

Year	No. of students appeared	No. of students passed (Success rate)	Drop outs
2012	100	100%	Nil
2013	89	100%	Nil
2014	101	94%	Nil

5. Learning resources of the departments - library, computers, laboratories and other resources

The department's infrastructure is adequate for the current teaching needs. The organization has a regular maintenance and prevention plan for its infrastructure and equipment. The department has two seminar rooms with a capacity of 25 students each well equipped with LCD/OHP/black board.

- The departmental library consists of 65 books
- Clinical interest cases and radiographs stored in the dept library
- Computer aided and audio-visual materials are used in the teaching

The departmental library has a rich access to various text books, journals and reference books enable both students and faculty for quick referencing and clarification of doubts. The faculties utilize these books to enrich the audiovisual aids by scanning figures, diagrams and other visuals enabling them to enhance the grasping capability of students making pharmacology easier to comprehend fun to learn. WI fi enabled work area with personal laptops to all faculty members for more effective utilization of online resources

6. Modern teaching methods practiced and use of ICT in teaching – learning

The various teaching and learning methods used with the goal of making the student understand the concept of Oral Medicine and Radiology includes the following:

- Conducting group discussions, seminars, interactive sessions, case studies etc.
- Computer aided and audio-visual materials are used in coaching the students
- Encouraging the students to participate in the State and National Level seminars
- Encouraging students to write the competitive examinations
- Students are encouraged to take up ICMR-STS projects

Teaching learning in the department is conducted in the following manner

1. Didactic lectures

2. Practical classes
3. Small group discussions
4. Self-directed learning
5. Seminars

7. Participation of teachers in academic and personal counseling of students.

All the teachers are encouraged to enroll themselves actively in the academic activities of the college. Each undergraduate course is in charge of individual faculties who take a personal interest in the welfare of the students, their attendance, academic involvement and general wellbeing. Slow learners are encouraged to approach the faculty with their learning difficulties. Every effort is made to provide them additional opportunities for presentation. The department conducts tests on request by the students which helps them to prepare better and face university examinations. The department also encourages them to deliver seminars which improve their presentation and communication skills. In sync with the Unique Student Teacher Guardian Scheme, the teachers of this department take up the responsibility of safeguarding and nurturing the newly admitted students. The teacher acts as a buffer for the first year students and helps them to get acclimatized to college environment. This scheme, which is perhaps the only one of its kind, guarantees additional assurance to the new comers and takes some burden off the parents and lessens their anxiety. In this scheme, a maximum of 10 students are assigned to each teacher guardian (TG) of the institution per year. In addition to this the faculty encourage students to approach them with their difficulties. Issues which cannot be addressed at the department level are directed to the Deputy Director, Student Affairs for appropriate guidance.

8. Details of faculty development programmes and teachers who have been benefited during the past two years.

The college has a programme to enable teachers to upgrade their skills. This is done through the Medical Education Unit. In addition, information regarding any such programme being conducted outside the college is brought to the attention of the faculty. The college has now made attendance in a faculty development programme mandatory and is one of the qualifying criteria for academic advancement (promotion).

During the performance appraisal a structured feedback is obtained from students regarding the faculty's teaching performance. This is shared and discussed with the faculty and where appropriate remedial action is encouraged.

Dr. Junaid Ahmed

1. Participated for successfully completing the training programme on "Nurturing an Effective Work Place" for the Head of the departments of Manipal University

- Institutions Conducted by TAPMI during November 28-29, 2014 at Manipal
2. Participated in the Planmeca Digital Perfection Training Program on 4th and 5th Feb 2014, at the Planmeca Headquarters in Helsinki, Finland.
 3. Guest Lecture on 'ABC of CBCT' at IDA symposium held in Mangalore on 26th March 2014
 4. Guest lecture on 'Sectional Anatomy & Multiplanar Reformatting in CBCT' on 8th March 2014 at the Triple 'O' Conference held at Udaipur, Rajasthan state.
 5. Guest lecture on 'Age estimation in forensic dentistry' on 26th September 2013 at Yenapoya University, Mangalore.
 6. Guest lecture on 'Comparison of Various Digital Imaging Modalities' in the workshop on Digital Imaging on 25th June 2013 at A.B.Shetty memorial Institute of dental sciences, Mangalore.
 7. Delivered a guest lecture on 'Oral Systemic Correlation' on 25th July 2012 at KVG Dental College Sullia, Karnataka.
 8. Invited Panelist at Seminar-Workshop on management of oral and maxillofacial center and working-group meeting held on 23rd June 2012 at Mangalore, India conducted by NITTE University.
 9. Invited Panelist in Continuing Medical Education programme on Forensic Odontology – 'Tooth Do Tell Tales' held on 3rd March 2012 at the Department of Medical Education, KMC, Mangalore
 10. Training in CBCT at Mastermind CBCT center, Goa from 6th-10th September 2013.
 11. Participated in National Workshop on Curriculum reforms for revised BDS regulations 2007 organized by Dental Council of India on 9-10th November 2013 at Maulana Azad Institute of Dental Sciences, New Delhi.
 12. Participated in the hands on Workshop on Digital Imaging held on 25th Jan 2013 at AB Shetty Memorial Institute of Dental Sciences, Mangalore.
 13. Organizing Secretary, for 25th National Conference of Indian Academy of Oral Medicine and Radiology to be held on 22,23,24th Nov 2014 at Mangalore, India.
 14. Chairperson for Scientific Sessions at Triple 'O' Conference held at Udaipur in the Month of March 2014.
 15. Chairperson at Scientific sessions at 25th Indian Academy of Oral Medicine and Radiology National Conference on 18,19, 20th October 2013 at Lucknow.
 16. Chairperson for a scientific session at 24th Indian Academy of Oral Medicine and Radiology National Conference on 23,24,25th November 2012 at Chandigarh.

Dr. Ravikiran

1. Dr. Ravikiran Ongole, Professor Department of Oral Medicine and Radiology, MCODES, Mangalore, attended a 2 day ONCOGRID workshop on 14th and 15th February 2014 at the JSS Dental College and Hospital, Mysore

2. Dr. Ravikiran Ongole participated in the workshop on "Intellectual Property Rights" on 14th August, 2014, Innovation Centre, MIT Manipal.

Dr. Ceena Denny

1. Attended a dental conference hosted by OMICS Group in Dubai in April 2014
2. Participated in national conference IAOMR 2014 held in Mangalore and chaired a session
3. Participated in pre-conference course on practice of radiotherapy

Dr. Nandita Shenoy

1. Attended and Presented a Paper titled "Diabetes and Oral cancer are they connected". World Dental conference hosted by OMICS Group in Dubai in April 2014
2. Actively participated in the organization of the 26th IAOMR conference held at Mangalore from 21-23rd November 2014
3. Course coordinator for a hands-on workshop on CBCT as a Part of Preconference at 26th IAOMR held at MCOADS, Mangalore
4. Participated in national conference IAOMR 2014 held in Mangalore and chaired a session. Participated in a workshop on "Teacher as Communicator" organized by the Manipal Center for Professional & Personal Development, Manipal University, Manipal held on 16 November 2012

Dr. Almas Binnal

1. Participated in the workshop entitled "Pedagogic and personal effectiveness workshop" conducted by the Department of Medical Education, Kasturba Medical College, Manipal, Manipal University during July 15-19, 2013.
2. Actively participated in the organization of the 26th IAOMR conference held at Mangalore from 21-23rd November 2014.

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.

The department ensures that it maintains a healthy balance between teaching, research and service. These activities are reviewed during the department meeting to ensure continued appropriateness. The faculties actively take part in various research activities as required by a laboratory / company / funding agencies. The students are encouraged to take part in research and faculty guide them as and when required. The students are encouraged to present the papers generated out of this research work in various professional meetings and publish the same.

10. Collaboration with other departments/ institutions, at the State, National and International levels and their outcome during the past two years.

The collaboration with other educational institutions is restricted to the constituent colleges of Manipal University for various continuing medical educational programs, workshops and other research-related activities. Outside Manipal University, the department has collaborations with pharmaceutical companies for clinical trials, international universities based in Boston and Sweden.

The department is committed to conduct continuing dental educational programs and workshops wherein post graduate students from other departments/ medical colleges throughout the state participate. The faculties from the department deliver guest lectures in continuing medical education programs/workshops/professional conferences organized by other departments/institutions elsewhere in the country. The faculties regularly present research papers in various national/international conferences held across the world. This has helped them immensely in gaining knowledge about current concepts and in aspects of diagnosis, investigations and treatment. They also get trained themselves in various aspects in the workshops held similarly.

Endodontics

1. Evaluation of root and canal morphology of maxillary 1st and 2nd molar using CBCT
2. Evaluation of root and canal morphology of mandibular 2nd molar using CBCT
3. Comparison of diagnostic accuracy of CBCT and periapical radiography in determination of working length

Periodontics

1. Comparison of clinical,periapical radiograph and CBCT with intrasurgical measurement for assessing maxillary molar furcation involvement.
2. Accuracy of CBCT,IOPA and intrasurgical measurement in detection of intraosseousperiodontal defects.
3. Comparison of periapical radiograph and CBCT in the treatment planning of questionable endoperio lesion-a retrospective study

11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two year.

Priority Area of Research:

Orofacial pain

Cone beam computed tomography

The faculties are constantly trying to improve student performances by conducting research in medical education pertaining to the students learning environment and these include, theory essay and MCQ performances, small group teaching, library utilization etc.

Ongoing:

Category	Number
Funded research projects	1
Non-funded research projects	
PhD research projects (guiding)	4
PG research projects	9
UG research projects	

Last 3 years (2012-2014):

Details	2012	2013	2014
Completed funded research projects		-	-
Completed non-funded research projects	8	11	7
Completed PhD research projects	-	3	-
Completed PG research projects	6	3	3
Completed UG research projects	5	5	1
Publications	2	5	7
	6	13	11
Books	-	1	-
Chapters in books	-	-	-
Conference presentations	1	1	2
	2	4	5

Our completed funded projects (trials) are:

2012-2014

#	Title	Faculty Involved	Funding agency	Amount received
1				

Our completed non funded projects (trials) are

Year 2012

#	Title	Faculty Involved
1	Assessment of taste dysfunction in patients undergoing cancer chemotherapy	Dr. Junaid Ahmed
2	Oral submucous fibrosis- a cause for eustachian tube dysfunction? An investigative study	Dr. Ravikiran Ongole
3	Comparison of 0.5% gentian violet and 1% clotrimazole in the management of oral candidiasis	Dr. Ravikiran Ongole

4	Radiographic assessment of TMJ among Healthy Volunteers, Symptomatic and Asymptomatic patients with TMD	Dr. Ceena Denny
5	Aphthous Ulcer management with topical Lexanox	Dr. Ravikiran Ongole
6	Comparison of skeletal and dental age estimation- a radiographic study	Dr. Junaid Ahmed
7	Quality of life in patients with chronic oral mucosal diseases – A questionnaire based study	Dr. Junaid Ahmed
8	Scope of cheiloscopy for gender identification	Dr. Junaid Ahmed
9	Radiation protection	Dr. Almas Binnal
10	Oral cancer awareness among medical students – a survey	Dr. Nandita Shenoy
11	Continuing professional development, importance	Dr. Nandita Shenoy
12	Morphology of coronoid process and sigmoid notch in OPGs	Dr. Ravikiran Ongole
13	Prevalence of oro mucosal diseases in geriatric patients in Dakshina Kannada district	Dr. Ravikiran Ongole
14	Assessment of the efficacy of horizontal angulation dial for dental x-ray units-a pilot study	Dr. Ravikiran Ongole
15	Genetic Susceptibility: Etiologic Factor in Oral Submucous Fibrosis. (Short Study)	Dr. Ceena Denny
16	Insights into the Tobacco Cessation Scenario among Dental Graduates: An Indian Perspective	Dr. Almas Binnal
17	Assessment of tobacco related abusive habit: A questionnaire based survey	Dr. Almas Binnal

Year 2013

#	Title	Faculty Involved
1	Teaching and learning in dental education	Dr. Junaid Ahmed
2	Oral mucosal lesions in skin disease patients attending dermatology clinics: a cross sectional study	Dr. Junaid Ahmed
3	To assess correlation between xerostomia, hyposalivation and oral microbial load with glycemic control in type 2 diabetic patients	Dr. Junaid Ahmed
4	Assessment of genetic damage in exfoliated cells from buccal mucosa in patients undergoing maxillofacial radiographs	Dr. Ravikiran Ongole
5	Efficacy of levamisole and topical benzocaine in the management of RAS	Dr. Ravikiran Ongole
6	Bacteria in the tongue biofilm and their relationship with oral malodor	Dr. Junaid Ahmed
7	Awareness of dentists in handling medical emergencies	Dr. Junaid Ahmed
8	VARK- a survey	Dr. Junaid Ahmed
9	Teaching and learning in dental education	Dr. Junaid Ahmed
10	Radiation protection	Dr. Almas Binnal
11	Hydrogen sulfide producing bacteria in the tongue biofilm and their relationship with oral malodor	Dr. Junaid .Ahmed

Year 2014

#	Title	Faculty Involved
1	Knowledge of the current guidelines for antibiotic prophylaxis to prevent infective endocarditis among dental practitioners	Dr.RavikiranOngole
2	Radiographic Practices in Dental College among Post Graduate students and Staff- a Survey	Dr. Junaid Ahmed
3	Buccal smear a promising tool in the diagnosis of DM	Dr. NanditaShenoy
4	Oral Manifestations in HIV Patients on HAART Therapy	Dr. Ceena Denny
5	Anatomic variation in lingual foramen –a cone beam computed tomography study	Dr.Ceena Denny
6	Assessment of toothbrush microbial contamination in dental health care providers	Dr. RavikiranOngole
7	Antimicrobial efficacy of herbal mouthrinse-an invitro study	Dr. NanditaShenoy

*Our completed UG research projects are:***Year 2012**

#	Title	Name of the student	Guide
1	Correlation between periapical changes and caries involvement	Dr. Mohit	Dr. Nandita Shenoy
2	Oral cancer awareness among medical students – a survey		Dr. Nandita Shenoy
3	Continuing professional development, importance		Dr. Nandita Shenoy

Year 2013

#	Title	Name of the student	Guide
1	Teaching and learning in dental education	Priya Singh	Dr. Junaid Ahmed
2	Knowledge of the current guidelines for antibiotic prophylaxis to prevent infective endocarditis among dental practitioners	KaveriDadhich	Dr. Ravikiran Ongole
3	Radiographic Practices in Dental College among Post Graduate students and Staff- a Survey	AditiSarin	Dr. Junaid Ahmed
4	VARK –A questionnaire	Khyaati Gidwani	Dr. Junaid Ahmed
5	Efficacy of levamisole and topical benzocaine in the management of RAS	Dr.Ankita Sharma	Dr. Ravikiran Ongole

Year 2014

#	Title	Name of the student	Guide
1	Awareness of dentists in handling medical emergencies	Swastika kumari	Dr.Junaid Ahmed

Year 2012:**International:**

1. Almas Binnal, G Rajesh, Ceena Denny, JunaidAhmed“Insights into the Tobacco Cessation Scenario among Dental Graduates: An Indian Perspective”Asian Pacific Journal of Cancer Prevention, Vol 13, 2012 13, 26111-2617.
2. Ashima Bali Behl, JunaidAhmed,VikramBali,RajivBali,GauravSharma, Nitin Shankar Behl.“Peripheral Ossifying Fibroma -A case report series.International”
Journal of Stomatology & Occlusion medicine.Vol 5,No 1,42-48,2012

National:

1. Saurabh Goel, Junaid Ahmed “Medical Management of Oral Submucous Fibrosis: A Review”. Pacific Academy of Higher Education & Research 2012; Vol.3: Issue-3
2. Dr. Madhusudan Astekar, Dr. Junaid Ahmed, Santhosh Guptha.“Mast Cells: A Review”Journal of Pacific Academy of Higher education & Research 2012;Vol.4:Issue 1
3. Almas Binnal, YashodhaDeviBK Identification of Sex using Lateral Cephalogram: role of Cephalofacial Parameters. J Indian Aca Oral Med Radiol 2012; 24(4): 280-283.
4. Ashok Shenoy K, Suresh K, Nandita Shenoy, Adhikari Prabha M.R.“Clinical Study of Sexual Dysfunction in Men with Type 2 Diabetes Mellitus”Research Journal of Pharmaceutical, Biological and Chemical Sciences. January – March 2012, Volume 3 Issue 1 Page No. 390-95
5. Ajay G Nayak, Ceena Denny, and VeenaKM“Oral Healthcare Considerations for the Pregnant Woman Dent” Update 2012; 39: 051-054
6. Ujjwal Joshi, Denny E Ceena, RavikiranOngole, KN Sumanth, Karen Boaz, K JeenaPriya, N Srikant. “AIDS Related Kaposi’s Sarcoma presenting with Palatal and Eyelid Nodule”J Assoc. Phys of India.2012; 60: 50-53

Year 2013:**International:**

1. Saranya B, Junaid Ahmed, Nandita Shenoy. RavikiranOngole.Comparison of Skeletal Maturity and Dental Maturity – A Radiographic Assessment Scholars Journal of Applied Medical Sciences 1(5):427-431. 2013.
2. Nandita Shenoy,,Ravikiran Ongole, Sumanth K.N. Junaid Ahmed “Radicular Malformation; a Radiographic View Scholars Journal of Applied Medical Sciences.2013:1(5);403-405.

3. Ajeetkumar Patil, Khoobrain S. Choudhari, Vayakkara Kolaprath Unnikrishnan, Nandita Shenoy, Ravikiran Ongole, Keerthilatha M Pai, Vasudevan Bhaskaran Kartha, Santhosh Chidangil. Salivary protein markers: a non invasive protein profile – based method for the early diagnosis of oral pre-malignancy and malignancy Journal of Biomedical Optics.2013:18(10);101317
4. Almas Binnal, Gururaghavendran Rajesh, Junaid Ahmed, Ceena Denny, Sangeetha U Nayak, Insights into Smoking and its Cessation among Current Smokers in India Asian Pacific J Cancer Prev.2013:14 (5):2811-2818
5. Almas Binnal, Gururaghavendran Rajesh, Ceena Denny, Junaid Ahmed, Vijayendra Nayak. Insights into the state of radiation protection among a subpopulation of Indian dental practitioners. Imaging Science in Dentistry.2013:43:253-9

National:

1. Nandita Shenoy, Junaid Ahmed, Ravikiran Ongole, Karen Boaz and Srikant N^o. Are dental surgeons prepared for medical emergencies. International Journal of Biomedical Research.2013:04 (09);461-464.
2. Dr. Ceena Denny E, Dr. Sumanth K.N. Dr. Ravikiran Ongole, Dr. Jeena Priya. Glandular Odontogenic cyst – report of three cases and review of literature. International Journal of Oral Health Sciences and Advances, 2013, volume 1 2, 28-32.
3. Dr. Muralidhara Yadiyal, Dr. Nandita Shenoy, Dr. Ashok Shenoy, and Dr. Junaid Ahmed. Are DIABETICS VICTIMS OF ORAL CANCER” International Journal of Bioassays. 2013:02 (06), 904-907.
4. Dr. Nandita Shenoy, Dr. Siddarth Shetty, Dr. Junaid Ahmed, Dr. Ashok Shetty “The Pain Management in Orthodontics” journal of clinical and Diagnostic Research. 7(6) 1258-1260, 2013.
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3. Dr. Ritika Jindal, Dr. Ravikiran Ongole, Junaid Ahmed, Ceena Denny. Calcifying cystic odontogenic tumor-review with discussion GSTF International Journal Of Advances Inmedical Research.2014: Vol1,No.1:33-39.
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15. Nandita Shenoy, Junaid Ahmed, Sanjay M. Mallya. Add a third dimension to your patient care with cone beam computed tomography. Journal of Interdisciplinary Dentistry / Sep-Dec 2014 / Vol-4 / Issue-3 118-122
16. Almas Binnal, Junaid Ahmed, N. Shenoy, Ceena Denny, L. Mallya. Dental management of patients suffering from drooling International journal of Advanced Research 2(7) 615-618, 2014

12. Placement record of the past students and the contribution of the department to aid student placements

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years:

1. Department aims at building on the current curriculum by implementation of modern methods of teaching like problem based learning and integrated learning techniques.
2. Optimum utilization of resources to enhance student learning and help them achieve their learning goals and to modify teaching to improve the outcomes in the examinations.
3. Design new means of evaluation to better the effectiveness of the teaching programme.

4. Conduct continuing dental education programmes and at least one national or state conference by 2014.
 5. To maintain the research activities and publications in national and international indexed journals.
 6. To explore the means to attract external grants for research projects.
 7. To improve inter-departmental research projects.
 8. Faculty will be encouraged to get trained in newer teaching-learning and evaluation methodologies so that they can be implemented to improve the curriculum effectively.
 9. To motivate the faculty to attend and present papers atleast once a year in national/ international conferences.
 10. To have at least 6 completed Projects per year
 11. To keep abreast with the latest in both diagnostic advancements and in maxillofacial radiology and help us to provide the best in both diagnostic and treatment procedures
 12. Conduct CBCT certification course twice a year (march and September)
-

PERIODONTOLOGY

1. Faculty profile - adequacy and competency of faculty

There are eight teaching faculty which meets the requirements for, BDS and also for postgraduate training as per the regulatory body requirements. All faculty are competent.

Sl. No.	Name	Qualification	Designation	Experience in years (as per 31 st Dec 2014)
1.	Dr. Ashita Uppoor	MDS	Professor & Head	20 yrs
2	Dr. Dilip G Nayak	MDS	Professor & Dean	28yrs
3	Dr. Deepa G Kamath	MDS	Addl. Professor	13yrs
4	Dr. Neetha J Shetty	MDS	Assoc. Prof.	09yrs
5	Dr. David K	MDS	Assoc. Prof.	06yrs
6	Dr. Swati	MDS	Reader	04 yrs
7	Dr. Sangeeta Umesh Nayak	MDS	Asst. Prof.	03 yrs
8	Dr. Mranali K. Shetty	MDS	Asst. Prof.	02yrs

Category	Sanctioned	Filled
Teaching Faculty	4	8

2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.-

Refer Annexure 01: Student Profile for detail

3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes

No changes were made to the course programme in the past two years.

The syllabus of both UG and PG courses, are updated at the board of studies meetings held at the Manipal University conducted annually.

The course is regulated by DCI and the department strictly complies with the laid down requirement.

4. Trends in the success and drop out rates of students during the past two years

Course	Pass Percentage			Dropout Rate
	2011-2012	2012-2013	2013-2014	
BDS (Regular)	100%	100%	89%	0
BDS (IR)	100%	100%	96%	0
MDS	100%	100%	100%	0

5. Learning resources of the departments - library, computers, laboratories and other resources-

Resources of the department of Periodontology: Library books available -184 books (108 books & 76 journals and periodicals

Central library

Computers are provided for the undergraduate students

Computers: Desktop-1, Laptop-8

Clinic is equipped with

Ultrasonic scalers, Soft tissue laser, dental implant kit, electrocautery unit, microsurgical loops.

6. Modern teaching methods practiced and use of ICT in teaching – learning –

LCD, Seminars and group discussion

The lecture halls are equipped with LCD projectors for teaching the students.

Group discussions are conducted topic wise. The students are allotted the topics in advance.

The teaching involves problem solving exercises with clinico-pathologic correlations (paper case).

The preclinical exercises include waxing up of cast and scaling stroke practice on the cast.

The clinical classes for undergraduate student involve mainly recording of gingival status, periodontal status, supra gingival hand scaling, polishing and ultrasonic scaling, oral hygiene instruction procedures.

The clinical teaching for post graduate student include flap surgery, gingivectomy, perioplastic surgery, esthetic surgery, dental implant placement, laser surgery, interdisciplinary case handling.

7. Participation of teachers in academic and personal counseling of students

- 1) Departmental faculty members have been invited for guest lectures and as resource persons and chair persons for various academic activities within and outside universities.
- 2) Teachers are available to guide students in their learning process.
- 3) Students with learning problems are specially counseled.

8. Details of faculty development programmes and teachers who have been benefited during the past two years

Teaching Learning and evaluation Workshop organized by Medical Education Unit, Manipal University.

Staff slide seminars and discussions are periodically held in the department to update and share the knowledge with active participation by all staff members which enhances academic excellence.

The teaching faculty moderate topic seminars and slide seminars with particular group of post graduates, to monitor the student presentation and organize the seminars.

Problem based learning exercises are conducted regularly for undergraduate students.

The teaching faculty is encouraged to attend State, National and International programmes, CDE's and conferences.

#	Year	Details	Faculty name
1	2012	Pedagogy workshop Medical Education Unit, Manipal University.	Dr. Swati Dr. Sangeeta
2	2013	Post graduate Certificate course in Laser dentistry, conducted by IALD (Manipal University)	Dr. Deepa G Kamath
3	2013	Internal auditor course on Integrated Management System (ISO 9001:2008 & ISO 14001:2004) at Mangalore (TUV Rheinland (India) Pvt Ltd.	Dr. Sangeeta
4	2014	Certificate course in Implant dentistry (KLE Academy of higher education and research, Belgaum)	Dr. Swati
5	2014	Certificate course in Implant dentistry (Yenepoya Dental College Mangalore)	Dr. David Dr. Sangeeta

The details of our conference presentations have been listed below.

2012

International:

#	Title of the presentation	Name of the faculty	Details of the conference
1.	Platelet rich plasma	Dr. Neetha J Shetty	CAD-CAM 3 rd to 4 th MAY Dubai

National:

#	Title of the presentation	Name of the faculty	Details of the conference
1.	Optimizing esthetics and function through interdisciplinary dentistry	Dr. David K	ISPRP 24 th -26 th Aug 2012 Mangalore
2.	Periodontal disease and pregnancy hypertension	Dr. Swati	ISP 12 to 14 Oct 2012 Shimla
3.	Attended	Dr. Deepa	ISP 12 to 14 Oct 2012 Shimla
4.	Combined periodontal and orthodontic treatment in young female patient with localized aggressive periodontitis	Dr. Ruchika Goyal	IDA state level conference, 30th Nov to Dec 2nd 2012 at BC road, Puttur, Mangalore
5.	Platelet concentrate in perioplastic procedures	Dr. Sangeeta	IDA state level conference 30th Nov to Dec 2nd 2012 at BC road, Puttur, Mangalore

2013

International:

#	Title of the presentation	Name of the faculty	Details of the conference
1	The efficacy of lemongrass oil mouth wash as preprocedural rinse in ultrasonic scaling ⁷	Dr. Ruchika Goyal	FDI/CDA/SLDA joint International Conference & 80 th Anniversary Annual Scientific Sessions of Sri Lanka Dental Association, held at Colombo Sri Lanka 28 th to 30 th June 2013
2	Perio esthetics: The White and Pink Ratio	Dr. Dilip Naik	1 st International Joint Dental Conference and Trade Exhibition at Kathmandu on 14 th & 15 th Sept. 2013

National:

#	Title of the presentation	Name of the faculty	Details of the conference
1	Semi lunar coronally advanced	Dr. Dilip G	12 th ISP PG Convention at I.T.S

	flap with low level LASER Therapy in treatment of Human gingival recessions	Naik & Dr. Ashita Uppoor	Dental College Hospital & Research Centre, Greater Noida from 1 st to 3 rd March 2013
2	Salivary PH level and microbial counts in patients with periodontal disease and dental Carie	Dr. Dilip G Naik & Dr. Ashita Uppoor	12 th ISP PG Convention at I.T.S Dental College Hospital & Research Centre, Greater Noida from 1 st to 3 rd March 2013
3	Modified coronally advanced flap with pallet rich fibrin membrane v/s modified coronally advanced flap alone for the treatment of gingival recession defects : A case series	Dr. Dilip G Naik & Dr. Ashita Uppoor	12 th ISP PG Convention at I.T.S Dental College Hospital & Research Centre, Greater Noida from 1 st to 3 rd March 2013
4	On Awakening of Sleeping giant” The periosteum	Dr. Dilip G Naik & Dr. Ashita Uppoor	38 th ISP National Conference at SreeGokulam Convention Centre, Kaloor, Kochi on from 24 th – 27 th Oct. 2013
5	Switching Platforms in Dental Implants	Dr. Dilip G Naik & Dr. Ashita Uppoor	38 th ISP National Conference at Sree Gokulam Convention Centre, Kaloor, Kochi on from 24 th – 27 th Oct. 2013
6	Designer Probiotics	Dr. Dilip G Naik & Dr. Ashita Uppoor	38 th ISP National Conference at Sree Gokulam Convention Centre, Kaloor, Kochi on from 24 th – 27 th Oct. 2013

2014

International:

#	Title of the presentation	Name of the faculty	Details of the conference
1	Knowledge and oral health related quality of life in diabetic patients.	Dr. Deepa. G. Kamath	2 nd International Conference & Exhibition at Dubai from 21 st to 23 rd 2014
2	Recent Avenues in Modulation in Periodontics	Dr. David K	Hong Kong International Dental Expo and Symposium at Hong Kong from 22-24 August 2014

National:

#	Title of the presentation	Name of the faculty	Details of the conference
1	“Nosocomial infection and periodontal disease”	Dr. Swati	67 th Indian Dental Conference at Hyderabad from 21 st to 23 rd Feb,2014
2	Modified double papilla flap: A new technique for root coverage	Dr. Dilip G Naik & Dr. Ashita Uppoor	13 th ISP National Post Graduate Convention at A.B. Shetty Dental sciences, Derlakatte on 8 th & 9 th March 2014

3	Switching of platform: Platform switched abutments in dental implants – A Case series(consolation prize)	Dr. Dilip G Naik & Dr. Ashita Uppoor	13 th ISP National Post Graduate Convention at A.B.Shetty Dental sciences, Derlakatte on 8 th & 9 th March 2014
4	2-D vs 3-D imaging for the assessment of maxillary furcation involvement : A case series	Dr. Dilip G Naik & Dr. Ashita Uppoor	13 th ISP National Post Graduate Convention at A.B.Shetty Dental sciences, Derlakatte on 8 th & 9 th March 2014
5	Quantification of bone defects using CBCT	Dr. Dilip G Naik & Dr. Ashita Uppoor	13 th ISP National Post Graduate Convention at A.B.Shetty Dental sciences, Derlakatte on 8 th & 9 th March 2014
6	Bidirectionally positioned flap for treatment of furcation defects	Dr. Dilip G Naik & Dr. Ashita Uppoor	13 th ISP National Post Graduate Convention at A.B.Shetty Dental sciences, Derlakatte on 8 th & 9 th March 2014
7	Analysis of edentulous posterior maxilla in patients for implant therapy using CBCT: A retrospective study	Dr. Dilip G Naik & Dr. Ashita Uppoor	13 th ISP National Post Graduate Convention at A.B.Shetty Dental sciences, Derlakatte on 8 th & 9 th March 2014
8	Periodontally Accelerated Osteogenic Orthodontics - A case series	Dr. Neetha Shetty	39 th ISP National Conference at Jaipur from 10 th to 12 th Oct. 2014
9	Free Gingival Auto graft	Dr. Dilip G Naik & Dr. Ashita Uppoor	22 nd Annual Conference of the Indian Academy of Aesthetic & Cosmetic Dentistry at Bengaluru on 3 rd Oct, 1 st & 2 nd Nov. 2014
10	Exploring the link between chronic Periodontitis and Gestational Diabetes Mellitus	Dr. Dilip Naik	FDI Annual World Dental Congress at Greater -Noida – UP from 11 th to 14 th Sept. 2014
11	Bidirectionally positioned flap – epithelium procrastination for periodontal regeneration	Dr. Dilip G Naik & Dr. Ashita Uppoor	IAP Regional Conference at 24 th – 26 th January 2014
12	Oral Care in Ventilator Associated Pneumonia (Vap) Patients : Can we make a Difference?	Dr. Dilip G Naik & Dr. Ashita Uppoor	FDI Annual World Dental Congress at U.P from 11 th – 14 th Sept. 2014.
13	G6PD deficiency and Periodontitis – A Link ?	Dr. Dilip G Naik & Dr. Ashita Uppoor	39 th ISP National Conference at Jaipur on 10 th , 11 th & 12 th Oct. 2014

14	Modified Trans positional Flap	Dr. Dilip G Naik & Dr. Ashita Uppoor	39 th ISP National Conference at Jaipur on 10 th , 11 th & 12 th Oct. 2014
15	Sinus Augmentation: Rejuvenation by elevation (Best Poster)	Dr. Swati	2 nd Inter State & 42 nd Karnataka State Dental Conference at Mangalore on 28 th , 29 th & 30 th Nov. 2014
16	Photodynamic Therapy – A boon to periodontics – A case Report	Dr. Sangeeta U. Nayak	2 nd Inter State & 42 nd Karnataka State Dental Conference at Mangalore on 28 th , 29 th & 30 th Nov. 2014
17	Probiotics and Periodontal Health	Dr. Mranali K. Shetty	2 nd Inter State & 42 nd Karnataka State Dental Conference at Mangalore on 28 th , 29 th & 30 th Nov. 2014

9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research

Didactic lectures for both UGs and PGs, Moderating and evaluating undergraduate group discussion and also post graduate teaching which includes seminars, Clinical case presentations and Journal club. Participation in clinical society meetings, Inter departmental meetings. Guiding of PG dissertations, short term projects and ICMR projects are some of the other activities. Co investigators in inter departmental projects.

10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years

Interdepartmental research work- Many of the PG thesis have been done in collaboration with Department of psychiatry, gynecology and department of medicine. The faculty have jointly done minor projects and published scientific articles in various international/ national indexed journals. Clinical trials were conducted for Hindustan Unilever Ltd

Year	Title of the event	Details
2012	A CPD Program entitled “Bridging the gap between oral and systemic health Panel discussion	July 14 th 2012, Attavar MCOADS, MANGALORE
2012	Oral Hygiene Day – as a part of ISP Listerine Lecture series – Lecture on “ current concepts in management of bio-films & periodontal diseases by Dr. Ashita Uppoor E-poster Competition – Topic – “ Dental Bio Film : Effect on Oral and systemic Health” for interns and Postgraduate students of our institute,	on 1 st August 2012 at Lecture Hall 1, M.C.O.D.S., Attavar, Mangalore.

2013	Oral hygiene day was celebrated in association with the Department of Public Health Dentistry, Manipal College of Dental Sciences, Mangalore, The programme included oral health awareness street plays by Interns, Health talks by Dr. Sangeeta Nayak and Dr. Ramya Shenoy and free dental check-up in the mobile dental van.	August 1, 2013, at KSRTC Bus stand, Bejai, Mangalore
2013	Perio Gñanam – An intercollegiate quiz conducted by the Department of Periodontics, MCO DS, Mangalore .	on the 28th September 2013 at Attavar.
2014	WORKSHOP ON – “ Interpreting cone beam CT Images for Oral Implantology” at Indian Society of Periodontology, 13 th National P. G. Convention on	7 th March 2014, A at LHH, MCO DS, Mangalore
2014	IDA Colgate Future Dental professionals Programme conducted various guest lectures 1. Practice Management by Dr. Mathai Joseph 2. Oral Systemic Relation by Dr. Neetha J Shetty 3. Acute Pain Management by Dr. Vivekananda Pai 4. Understanding Science Behind Mouth Rinses and its Multifaceted usage in Dental Clinics by Dr. Deepa G Kamath 5. Implements for a Healthy Smile by Dr. David	21 st & 22 nd March 2014 Attavar & Bejai campus MCO DS, Mangalore
2014	Department of Periodontology along with the department of Public Health Dentistry are conducting the Oral Hygiene Day Events: Poster competition for interns and postgraduates on the topic “Brush and Floss or Prepare for loss” - Free dental checkup and Drawing competition for children at on the topic “My Dentist” Free dental check up, talk on Oral Health care in Women by Ashita Uppoor, street play (Interns) and quiz (Dr. Neetha Shetty)	1 st & 2 nd August 2014, at 1. MCO DS, Mangalore 2. Bhagini Samaj, Mangalore 3. St Agnes Degree College

11. Priority areas for Research and details of the ongoing projects, important and note worthy publications of the faculty, during past two years

The priority areas are on perioplastic surgery, dental implants, laser therapy In addition to the faculty, the department post-graduates also pursue research actively. The departmental faculty have also edited a textbook. They are guided by the faculty in this. The details of their research are listed below.

A snapshot of our research activities and publication activities is given in the tables below.

Ongoing:

Category	Number
Funded research projects	0
Non-funded research projects	3
PhD research projects	0
PG research projects	6
UG research projects	1

Last 3 years (2012-2014):

Details	2012	2013	2014
Completed funded research projects			
Completed non-funded research projects	9	8	10
Completed PhD research projects	0	0	0
Completed PG research projects	3	3	3
Completed UG research projects	3	1	1
Publications	International	6	6
	National	4	9
Books	Nil	Nil	Nil
Chapters in books	Nil	Nil	Nil
Conference presentations	International	1	2
	National	5	6
			18

Our completed non-funded projects are:**Year 2012**

#	Title	Faculty Involved
1.	Effect of dental therapy on salivary ph in periodontal disease and dental caries	Dr. Ashita s Uppoor Dr. Dilip G Naik
2.	Comparative study of a stabilized chlorine dioxide 0.1% with chlorhexidine 0.2% mouth rinse in inhibiting the formation of volatile sulphur compounds	Dr. Neetha Dr. David k
3.	Evaluation of the clinical efficacy of pottasiumnitratate desensitizing mouthwash and tooth paste in the treatment of dentinal hypersensitivity	Dr. Neetha Dr. Ashita
4.	Knowledge, Awareness of Oral Health and Impact of oral health on quality of life in diabetic patients	Dr. Deepa Dr. Sangeeta
5.	Oral candidal carriage and morphologic type differentiation indiabetic and non- diabetic patients with periodontitis - A pilot study	Dr. Ashita Uppoor Dr. Dilip G Naik Dr. David K
6.	Gingival depigmentation : Scalpel vs Diode Laser – A case series	Dr. Ashita Uppoor Dr.DilipGNaik
7.	Diode Laser in the management of Dentinal hypersensitivity	Dr. Ashita Uppoor Dr. Dilip G Naik Dr. Deepa G Kamath

2013

#	Title	Faculty Involved
1.	A Study to Evaluate The Effect of Written Instruction in contrast to Individualized instructions of Oral Hygiene, with and without ultrasonic scaling on gingivitis	Dr. Sangeeta & Dr. Swati
2.	Anti plaque and antigingivitis effect of a dentifrice containing 0.5% zinc citrate and 0.2% triclosan	Dr. Ashita Dr. Swati Dr. Ruchika
3.	Semilunar coronally advanced flap with and without low level laser therapy in treatment of human maxillary multiple adjacent gingival recession. A clinical study	Dr. Ashita Dr. Dilip Naik
4.	Efficacy of betal leaf essential oil mouthwash as an anti-plaque and anti-gingivitis agent.	Dr. Ashita Dr. Dilip Naik Dr. Swati
5.	Effect of dental therapy on salivary ph in periodontal disease and dental caries	Dr. Ashita Dr. Dilip Naik

2014

#	Title	Faculty Involved
1.	Low Level diode laser therapy in the management of recurrent minor aphthons ulcers – An observational study	Dr. Deepa Dr. Sangeeta
2.	A comparative evaluation of periodontal health among psychiatric patients in Mangalore city, India – A cross sectional study	Dr. Sangeeta
3.	Comparision of thickness of Gingiva in the progression of periodontitis – A cross sectional study	Dr. Mranali K Shetty Dr. Neetha J Shetty
4.	Efficacies of Transcutaneous and electric nerve stimulation (TENS) & Micro current electrical neuromuscular stimulation (MENS) in the treatment of Chronic periodontitis	Dr. Neetha J Shetty
5.	Comparision of bioactive ceramic composition granules in Bidirectionally positioned flap and open flap debridement for the treatment of class II furcation defects	Dr. Dilip G Naik Dr. Ashita S Uppoor
6.	Accuracy of Cone Been Computed Tomography, intraoral periapical radiographs and intrasurgical measurements in detection of intro-osseous periodontal defects	Dr. Dilip G Naik Dr. Ashita S Uppoor
7.	Analysis Of Edentulous Posterior Maxilla In Patients For Implant Therapy Using Cone Beam Computerized Tomography (CBCT): A Retrospective Study.	Dr. Dilip G Naik Dr. Ashita S Uppoor

Our completed PG research projects are:**2012**

#	Title	Name of the student	Guide
1.	Comparative evaluation of the efficacy of bioactive ceramic composite granules alone and in combination with platelet rich fibrin in the treatment of	Hima S Lohi	Dr. Dilip G Nayak

	mandibular Class II furcation defects: A clinical and radiographic study		
2.	Obesity and periodontal disease –clinico biochemical study	Vidhya Thomas	Dr. Ashita S Uppoor

2013

#	Title	Name of the student	Guide
1.	Treatment of multiple gingival recessions - Coronally advanced flap without vertical releasing incisions versus modified semilunar coronally advanced flap: A clinical study	G. Venkatesan	Dr. Ashita Uppoor
2.	Evaluation of salivary malondialdehyde and superoxide dismutase in smokers and non smokers with chronic periodontitis before and after non-surgical therapy	Ambika Bhardwaj	Dr. Ashita Uppoor
3.	A Clinical and Microbiological evaluation of 810 nm diode laser as an adjunct to SRP in treatment of Chronic Periodontitis	Rohit Jain	Dr. Dilip Nayak

2014

#	Title	Name of the student	Guide
1.	Autologous platelet rich fibrin in conjunction with bioactive glass(Novobone, Perio glass) in treatment of human periodontal intrabony defect. A clinical and radiographic study	Dr. Neelesh	Dr. Ashita S Uppoor
2.	Efficacy of photodynamic therapy and low level laser therapy as an adjunct to nonsurgical treatment in chronic periodontitis. Clinical and microbiological study	Dr. Paridhi	Dr. Ashita S Uppoor
3	To assess the efficacy of platform switching implants and papilla preservation flap design in minimising crestal bone loss around single tooth implant: A clinical and radiographic study	Dr. Tejaswini	Dr. Dilip G Naik

Journal publication 2012**Indian Journals:**

1. **Dr. Deepa G Kamath**, Dr. Verma B R R, Dr. Sai Giridhar Kamath.. “Effect of socioeconomic status on periodontal health of a population in Mangalore” National Journal of Integrated Research in Medicine 2012; Vol. 3 (4). September – October issue. Pg 121 – 123

2. **Dr. David K**, Dr. K.Mahalinga Bhat.. “Prevalence of Tooth Wear Patients Attending the Department of Periodontics, Manipal College of Dental Sciences, Manipal”. National Journal of Integrated Research in Medicine 2012; Vol3 (2), April-June
3. Zingade AN, **Pralhad S**, Kumbhojkar V. “De-epithelialization of Gingival Hyperpigmentation – An informed view”. Indian Journal of Dental Research and Review 2012, Pg 63 – 66.
4. MeenaAnand Kukkamalla, Pratibha Panduranga Kundapur, Gowtham Suresh, GiliyarSubraya Bhat, PulijalaYeshwanth, **Ruchika Goyal**, Sonali Maria Cornelio. “Toothbrush Contamination and Disinfection of Toothbrush – A Review”. Journal Of Indian Academy Of Dental Specialists, Vol 4, Issue 1, Jan – March 2012.
5. **Swati Pralhad**, Betsy Thomas – “ Periodontal awareness in different healthcare professionals: A questionnaire survey “ Journal of Education and Ethics in Dentistry, July-Dec.2011, Vol.1, Issue.2
6. **Dr. Ruchika Goyal** – “ Antiplaque Efficacy of Lemongrass Oil mouth wash – An in vitro study” – Global Journal of Medical Research, Vol 12, Issue 7, Version 1, Year 2012.

International Journals:

1. Dr. Sunita Sharma, **Dr. Neetha J. Shetty, Dr. Ashita Uppoor**. “Evaluation of the Clinical Efficacy of Potassium Nitrate Desensitizing Mouthwash and a Toothpaste in the Treatment of Dentinal Hypersensitivity”. Journal of Clinical and Experimental Dentistry, 2012; 4(1):e28-33.
2. Dr. Sumita Singh, **Dr. Ashita Uppoor, Dr. Dilip Nayak**. “A comparative evaluation of the efficacy of manual, magnetostrictive and piezoelectric ultrasonic instruments: an in vitro profilometric and SEM study”. Journal of Applied Oral Science, Vol.20 No.1 Bauru Jan. /Feb. 2012.
3. Dr. Vijendra P. Singh, **Dr. Dilip G. Nayak, Ashita S. Uppoor**, Dr. Dipen Shah.
“Clinical and radiographic evaluation of Nano-crystalline hydroxyapatite bone graft (Sybogral) in combination with bioresorbable collagen membrane (Periocol) in periodontal intrabony defects”. Dental Research Journal, Jan 2012/Vol.9/Issue1
4. **P. Swati**, Betsy S Thomas, Saadi Abdul Wahab, Satya Moorthy Kapaepu, Pralhad Kushtagi. “Simultaneous detection of periodontal pathogens in sub gingival plaque and placenta of women with hypertension in pregnancy”. Arch GynecolObstet (2012) 285: 613 – 619
5. **Uppoor AS, Nayak DG**. “HIV and Periodontal Disease: Redemption or Resurrection”. J AIDS Clinic Res (2012) 3:168

Journal publication 2013

Indian Journals:

1. **Neetha J Shetty, David K,** Kamala DN, Ramya Shenoy “Comparative study of a stabilized chlorine dioxide 0.1% with chlorhexidine 0.2% mouthrinse in inhibiting the formation of volatile sulphur compounds (VSC) Indian Journal of National Research 2013 Vol. 3(12) 424-427
2. **K. David, Shetty Neetha J. & Pralhad Swati.** Periodontal Dressings: An Informed View Journal of pharmaceutical and biomedical sciences (J Pharm Biomed Sci.) 2013, January; 26(26); 269- 272
3. **Dr. Deepa G Kamath, Dr. Swati, Dr. Sangeeta Umesh Nayak.** Bone Morphogenetic Proteins – Potential Role in Periodontal Regeneration. NJIRM 2013; Vol. 4(1). Jan – Feb 121 – 124
4. **Dr. Sangeeta Umesh Nayak, Dr. Pralhad Swati, Dr. Deepa G Kamath.** Probiotics in Oral Care. NJIRM 2013; Vol. 4(1). Jan – Feb 106 – 111
5. **Dr. Neetha J. Shetty.** Root Coverage of Severe Gingival Recession Using Pedicled Buccal Pad Fat. NJIRM 2013; Vol. 4(1). Jan – Feb 117 – 120.
6. Pai Keshava K & **Nayak Sangeeta U.** Stressing the stress in periodontal disease. Journal of pharmaceutical and biomedical sciences (J Pharm Biomed Sci.) 2013, January; 26(26): 345-348.
7. **Kamath Deepa G & Nayak Sangeeta U.** Dentinal hypersensitivity and its management- An informed view. Journal of pharmaceutical and biomedical sciences (J Pharm Biomed Sci.) 2013, February; 27(27): 474-479.
8. Dr. Gomathinayagam Venkatesan, **Dr. Ashita Uppoor, Dr. Dilip G Nayak** “Redefining the role of dendritic cells in periodontics” Journal of Indian Society of Periodontology Vol-17, Issue 5, No 135-139, Dec.2013
9. **Ruchika,** Meena K Ananad “Antibacterial effect of lemon grass oil on oral micro organism: An in vitro study “Journal of Pharmaceutical and Scientific Innovation 2013 Vol 2(2)

International Journals:

1. **Neetha J Shetty** “Double papilla repositioned flap for the treatment of isolated recession – a case report” Singapore Dental Journal 2013 Vol. 3425-27.
2. **Neetha J Shetty, P Swati, K David.** Nanorobots: Future in Dentistry. The Saudi Dental Journal(2013) 25, 49–52.
3. **Swati Pralhad** “Periodontal disease and pregnancy hypertension” Journal of Periodontology” 2013 Vol. 84 1118-1125.
4. **Dr. Sangeeta Umesh Nayak, Dr. Dilip G. Nayak, Dr. Ashita Uppoor,** Dr. Keshava Pai “Evaluation of cortisol levels in gingival crevicular fluid and saliva in anxious and non-

anxious patients with chronic periodontitis” Dental Research Journal, Vol-10, Issue4, July 2013.

5. **Ashita S. Uppor**, Hima S Lohi, **Dilip Nayak** “Periodontitis and Alzheimer’s disease :oral systemic link still on the rise” Gerodontology 2013 Vol.30 239-242
6. Vijendra P, **Ashita S. Uppoor**, **Dilip G. Nayak**, Dipen Shah “ Black triangle dilemma and its management in esthetic dentistry” Dental Research Journal 2013 Vol. 10 3.

Journal publication 2014

Indian Journals:

1. **Ashita Uppoor**, **Dilip G Nayak**, Ambika “A comparative evaluation of management of melanin pigmented gingiva using a scalpel and laser” Journal of Interdisciplinary Dentistry, Vol-4, Issue 3, No 135-139, Dec.2014.
2. **Dr. Mranali K. Shetty** “Role of Bone morphogenetic proteins in periodontal regeneration: A review” International Journal of Advanced Research Vol 2, No 166-171, 2014.
3. **Dr. Deepa. G. Kamath**, **Dr. Sangeeta Nayak** “Diode laser treatment for aphthous ulcers: A Case Report”. PARIPEX - Indian journal of research Vol 3, Issue 5 No 42-44, 2014.
4. Dr. Manuel S.Thomas, **Dr. David K.** “Importance of anatomic mock-up for predictable esthetic smile design with ceramic veneers” Journal of Interdisciplinary Dentistry Vol 4, Issue 1, No 55-58, 2014.
5. **Dr. Mranali K. Shetty**, Dr. Bijju Thomas, Dr. A.Veena Shetty, “Comparative evaluation of hemoglobin level in anemic patients with chronic periodontitis before and after treatment Journal of Interdisciplinary Dentistry Vol 4, Issue 1 No 24-26, 2014.
6. Dr. Shilpa Shetty, **Dr. Mranali K. Shetty** “Role of statins in Periodontitis – An overview” International Journal of advanced research Vol 2, No 763-765, 2014
7. **Dr. Mranali K. Shetty**, Dr. Shilpa Shetty” Role of Resolvins in Periodontal Inflammation – A Review” **Journal of Medical Science and Clinical Research** Vol 2, Issue 10, No 2695-2698, 2014.
8. **Dr. Mranali K. Shetty**, Dr. Karthik Shetty, Dr. Bijju Thomas, Dr. Ramya Shenoy, DR. Shilpa Shetty “Oral Hygiene Status and gingivitis among undergraduate dental students- A Descriptive Survey” **Journal of Medical Science and Clinical Research** Vol 2, Issue 10, No 2589-2593, 2014.

9. **Dr. Ashita Uppoor, Dr. Dilip G. Naik** “A comparative evaluation of management of melanin pigmented gingiva using a scalpel and laser” **Journal of Interdisciplinary Dentistry** Vol 4, Issue 3, No 135-139, 2014.
10. **Dr. Neetha J. Shetty** “Inverted Periosteal Technique – A Solution to multiple teeth recession” **Dentistry – Open Journal** Vol 1, Issue 1, No 10-13, 2014.
11. **Dr. Swati Pralhad** “Primary Implant stability, a factor for successful Osseointegration” **Journal of Medical Science and clinical research** Vol 2, Issue 10, No 3401-3406/2695-2698, 2014.
12. **Dr. Shilpa Shetty, Dr. Mranali K. Shetty** “Role of statins in Periodontitis – An overview” **International Journal of advanced research** Vol 2, No 763-765, 2014

International Journals:

1. **Deepa G. Kamath , Sangeeta Umesh Nayak** “Detection, removal and prevention of calculus: Literature Review” **The Saudi Dental Journal** Vol 26, No 07-13, 2014
2. **Dr. Charu Shrestha, Dr. Ashita Uppoor, Dr. Dilip Nayak** “Impact of Smoking on Serum Immunoglobulin G Levels in Patients with Periodontitis” **Open Journal of Immunology** Vol 4, No 61-67, 2014

12. Placement record of the past students and the contribution of the department to aid student placements

The students have performed with excellent academic results in the entrance exams and have joined for post graduation in premier institutes of India and abroad.

The post graduates of our department have secured good results with employment in various universities as Residents/Assistant professors.

Some of our students have upgraded their further academic qualifications in foreign universities.

Refer Annexure 02: Student Progression for detail

13. Plan of action of the department for the next five years

- To upgrade the Department with advanced periodontal equipment and
- To encourage exchange programme with other universities
- To incorporate VRBS (virtual reality basic skill) for bridging the gap between theory and clinical practice.

Annexure 01: Student profile

1. Entry level competencies:

The selection of the students is purely on merit determined on the basis of a centralized common entrance test held by Manipal University. 15per cent quota is reserved for NRI students/ foreign students/ wards of people of Indian Origin/ Overseas citizens of Indian origin.

The medium of teaching is English and all the students are required to have proficiency in the same.

MCODS Mangalore	BDS						MDS					
	2012-13		2013-14		2014-15		2012-13		2013-14		2014-15	
	General	Foreign/ NRI	General	Foreign/ NRI	General	Foreign/ NRI	General	Foreign/ NRI	General	Foreign/ NRI	General	Foreign/ NRI
No. Applications	13071	104	16066	142	18289	101	3093	-	2045	14	1599	6
Highest Rank	606	-	966	-	814	-	10	4	7	4	2	-
Lowest Rank	4253	-	6874	-	4950	-	230	9	912	-	943	-
Intake (NRI)	85	15	85	15	85	15	25	4	24	5	25	4
Admitted	86	14	87	13	99	0	25	4	27	1	27	0

2. Socio economic profile

Year	General	SC
2011	100	0
2010	99	1
2009	97	0

Year	No. of NRI/FOREIGN Students admitted for B.D.S	J.P.A	MALAYSIA	SRI LANKA	AUSTRALIA	CANADA	Maldives
2012-13	14	08	09	02	02	01	-
2013-14	13	12	12	--	--	--	1
2014-15	-	-	-	-	-	-	-

3. Trends in the success and dropout rates of students

Examination Results (past five years)

Year	UG					PG					PG Dip Diploma	
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014	2013	2014
Percentage of pass	10	11	12	13	14	10	11	12	13	14	100	100
Number of first classes	90	93.2	97.4%	97%	97%	100	100	100	100	100	--	--
Number of distinctions	46.6%	52.6%	64.6%	64.6%	69.3%	--	--	--	--	--	--	--
Dropouts	13.5%	12.8%	8.9%	8.9%	3.4%	--	--	--	--	--	Nil	Nil

Institutional academic performance

	Pass percentage	Distinctions	Gold medals
2014	97%	Final B.D.S-Part-I-5 Final B.D.S-Part-II-3	Dr. Kamath Apoorva Shrinivasa
2013	97%	Final B.D.S-Part-I-4 Final B.D.S-Part-II-7	Dr. Khyati Narula
2012	97.4%	Final B.D.S-Part-I-13 Final B.D.S-Part-II-16	Dr. Benzie Law Zi Yuan
2011	93.2%	41	Dr. Avni Bhasin
2010	90%	57	Dr. Kosha Jain

Annexure 02: Student Progression

All the under graduates students will eventually progress to complete their B.D.S. degree, and 99% of them undertake higher studies or start general dental practice (In India or abroad). Feedback from the alumni confirms the advantage of their excellent instruction in subjects handled by the Dept. that enabled them to compete in entrance examinations and also in application of their knowledge in clinical scenarios.

Postgraduate students, upon completion of the MDS course and award of the degree are eligible to teach dental undergraduate students in recognized dental colleges in India and abroad. Till date, all the MDS post-graduate alumni of this dept. have been thus successfully placed despite an increasingly competitive job market. They can also conduct and guide research work.

Percent of students to higher studies and employment

The students of our institute get post graduation seats in reputed universities like AIIM- New Delhi, Manipal University, Armed Forces Medical College, MGR University, NITTE University, Yenepoya University, Rajiv Gandhi University of Health Sciences etc., consistently every year.

	To higher studies (MDS)	Employment *
2014	33	1 (currently employed)
2013	30	2
2012	33	6

- * Employed in our institute. Students seeking employment in other institutes, hospitals - data is not available.

Institutional Support:

Reservation of specific number of seats (MU Quota) for MU students is provided for entrance into master's degree courses

	Employed in the same college
2014	1
2013	2
2012	6

1. Name of the Department: School of Regenerative Medicine, Bangalore

2. Year of establishment: 2007

3. Is the Department part of a School/Faculty of the university?

Yes. It is a School of Manipal University

4. Names of Programs/Courses offered (UG, PG, MPhil, PhD, Integrated Masters, Integrated PhD, etc.)

- a) PG, M Phil, Ph. D, PG Diploma
- b) Ph. D
- c) M Phil
- d) M Sc. in Regenerative Medicine
- e) PG Diploma in Regenerative Medicine

5. Interdisciplinary courses and departments involved

Stempeutics Research PVT. LTD Bangalore,

BD Bioscience New Delhi

Clinical Research & Regulatory Affairs Pharmacology Department, Manipal
College of Pharmaceutical Sciences, Manipal

Biostatistics Department of Statistics KMC Manipal

Bioinformatics, SOLS

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

- Stempeutics Research PVT. LTD Bangalore
- BD Bioscience New Delhi
- Colombo University, Human Genetics Unit, Sri-Lanka
- STEMADE

7. Details of programs / courses discontinued, if any, with reasons

Nil

8. Annual/ Semester/Choice Based Credit System

Semester system

9. Participation of the department in the courses offered by other departments

Nil

10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

Faculty positions	Sanctioned	Filled
Professor	1	1
Associate Professors	4	4
Asst. Professor	1	1
Senior Grade Lecturer	4	4

11. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Faculty details as on Dec.2014

Sl #	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for the last 4 years
1.	Dr. Ramesh R Bhonde	Ph. D	Professor & Dean	Zoology	36	10
2.	Dr. Jyothi Prasanna	Ph. D	Assoc. Prof.	Immunology Hepatic-biology, Adult Stem Cells	9	2
3.	Dr. Sudha Warriar	Ph. D	Assoc. Prof.	Cardio vascular &Cancer Stem Cells	10	1
4.	Dr. Anujith Kumar	Ph. D	Assoc. Prof.	Reprogramming	07	2
5.	Dr. Rajarshi Pal	Ph. D	Asst. Prof.	Embryonic Stem Cells	03	1
6.	Dr. Anandh	Ph. D	Asst. Prof.	Neuroscience Adult Stem Cells	07	1
7.	Ms. Shagufta Parveen	M Sc.	Senior Grade Lecturer	Microbiology	11	NA
8.	Mr. Murali Krishna	M Sc.	Senior Grade Lecturer	Biotechnology	05	NA
9	Mrs. Meenal Francis	M Sc.	Senior Grade Lecturer	Biotechnology	07	NA
10	Ms. Suja Ann Mathew	M Sc.	Senior Grade Lecturer	Biotechnology	06	NA

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

- 1) Dr. Pawan Kumar Gupta, Head Clinical Research and Hematologist, Stempeutics Research Pvt. Ltd Bangalore
- 2) Dr Bipin Kumar, Scientist BD Biosciences, New Delhi
- 3) Deepa Bhartiya, NRRH, Bombay
- 4) Dr. Ravi Raja, Stempeutics, Manipal
- 5) Dr. Anjan Kumar Das, Stempeutics, Malaysia

13. Percentage of classes taken by temporary faculty – program-wise information

7%

Specialized classes on Tissue Engineering (BD Biosciences),

Stem cell applications (Dr. Anjan Kumar Das),

Hematological malignancies (Dr. Pawan Kumar Gupta)

14. Program-wise Student Teacher Ratio

M. Sc. Regenerative Medicine 1:4

M. Phil. Regenerative Medicine 1:1

Advanced diploma in Regenerative Medicine 1:2

M.Phil and Third semester courses are majorly run by the Assistant Professors and above

Basic courses and practical are run by senior lecturers and lecturers.

15. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Finance – 1, Admin – 1

16. Research thrust areas recognized by funding agencies

Grants obtained from DBT, DST, CSIR, ICMR and DRDO on the following thrust areas:

- Stem cells and Regenerative medicine,
- Neurobiology,
- Immunology,
- Cellular Reprogramming,
- Diabetes Research,
- Cancer stem cell research,

- Dental pulp stem cells
- Hypoxia and Stem cells,
- Perinatal Stem cells,
- Embryonic stem cells,
- iPSCs, In vitro disease modeling and drug screening.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

Name	Total Grants	Source	Funding Agency	Grant Amount
Dr. Jyothi Prasanna	5	National	DBT - 2, DST - 1, ICMR - 1, BD Biosciences-1, Stempeutics dental grant	126 lakhs
Dr. Sudha Warriar	4	International / National	Western Australia-1, Manipal Foundation-1, DBT-1, ICMR-1	65.51 lakhs
Dr. Anujith Kumar	5	National	DBT - 2, ICMR-1, CSIR-1, DST-2	168 lakhs
Dr. Anandh	1	National	DST-SERB-1	21.3 lakhs
Dr. Ramesh R Bhone	7	National	DBT - 2, Rasayani - 1, Stemade - 1, DRDO - 1, ICMR-2, DST-1	107 lakhs
Dr. Rajarshi Pal	2	National	DSIPL - 1, DBT-1	26.5 lakhs

18. Inter-institutional collaborative projects and grants received 54 lakhs

a) All India collaboration

With National Institution of Nutrition and Sri Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum

With Ramaiyya Institute of Allied Research and Health Sciences

b) International

Indo-Australian project

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received.

As per list in point 17

20. Research facility / Centre with

- state recognition: Not Applicable

21. Special research laboratories sponsored by / created by industry or corporate bodies

Not Applicable

22. On-going Projects

Category	Number
Funded research projects	24
Non-funded research projects	Nil
PhD research projects	12
PG research projects	3

Research Output in last 3 years

		2012	2013	2014
Completed funded research projects		01	NIL	NIL
Completed non-funded research projects		Nil	Nil	Nil
Completed PhD research projects		01	01	01
Completed PG research projects		07	13	14
Completed UG research projects		Nil	Nil	Nil
Publications	National	NIL	01	01
	International	12	16	15
Books		Nil	Nil	Nil
Chapters in books		02	01	01
Conference presentations	National	02	02	02
	International	03	03	02

Publications:

- * **Number of papers published in peer reviewed journals (national/ international):**
43
- * **Monographs:** Not applicable
- * **Chapters in Books:**4
- * **Edited Books:**2
- * **Books with ISBN with details of publishers - Nil**
- * **Number listed in International Database (For e.g.Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**

All are pubmed and scopus listed and indexed life sciences journals

All are Pub Med listed (www.pubmed.com)

Most of these are in International Journals of high repute

- * **Citation Index– range** 3--15/ average 4.0
- * **SNIP:** Not Applicable
- * **SJR:** Not applicable
- * **Impact Factor** – range 1.2 to 12/ average 3.0
- * **h-index** Not applicable

23. Details of patents and income generated

Nil

24. Areas of consultancy and income generated

Nil

25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad

Dr Rajarshi Pal got selected for ICMR international fellowship for young biomedical scientists 2012-13 (Visiting Monash University, Australia)

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

- Editorial board member (C) and constant reviewers for the below Journals
- Dean and other faculty is Editorial committee members of the following Journals
- The Reviews of Diabetes Studies
- Islets
- Indian J Exp Biology
- Stem Cell International
- Stem Cell Studies
- American J Stem Cells
- J Biomarkers
- Journal of Cellular Biochemistry

- Radiation Research
- Cell Biology International
- STEM CELLS
- 50% of faculty members are invited for guest lectures/talks etc.
- Reviewers for Cytotherapy and Cell Transplantation

27. Faculty recharging strategies

- Lecturers encouraged to attend courses on pedagogy
- Grant writing and project discussion workshops conducted by MU attended by
- Faculty to facilitate extra-mural funding

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects – 20%**
- **percentage of students doing projects in collaboration with other universities / industry / institute**

80 %

% of students done in National Institutes- 60%

% of students doing project in companies- 5%

No. of students who did their project abroad-15%

29. Awards / recognitions received at the national and international level by

- **Faculty 3**
- **Doctoral 3/ post -doctoral fellows**
- **Students 3**
 - Dr Anujith Kumar, Assistant Professor, SORM has been awarded Rapid Research Grant for Young Investigator (RGYI) from Department of Biotechnology, Government of India.
 - Dr.D.Anandh, Assistant Professor, SORM has been awarded Young Scientist Start Up grant from Science and Engineering Research Board, Government of India.
 - Dr. SudhaWarrier, Assistant Professor has established collaboration with University of Western Australia and Curtin University, Perth, Australia.

- Dr. Rajarshi Pal, Assistant Professor, SORM has been selected for ICMR International Fellowship for Young Bio-Medical Scientists 2012-13.
- Rajarshi Pal and Smitha Mathew received Ph. D. in 2012
- SORM students were shortlisted amongst BEST 20 in 2012 and presented their concept proposal at ABLE-BEST 2012 Entrepreneurship workshop held at Bangalore in August 10-13, 2012. It's a joint collaborative program between Association of Biotechnology of Led Entrepreneurs[ABLE] and Department of Biotechnology [DBT] Government of India
- NCRM Fujito cup awardees in stem cells and regenerative Medicine , 2014

Award winning posters:

I. Best Paper Presentation award in poster session held during **XXXVI All India Cell Biology Conference** held by Indian Society of Cell Biology at Bhabha Atomic Research Centre, Mumbai, from **17th to 19th October 2012**.

Title – Curcumin sustains self-renewal of mouse Embryonic Stem Cells in absence of LIF and Feeders by decreasing ROS levels.

II. Poster presentation award for abstract entitled

“Modulation of Physical Environment makes Placental Mesenchymal Stem Cells Suitable for Therapy”

Venue: International Stem Cell Summit 2013- held at LIRM, Life Line Multi Speciality Hospital, Chennai.

30. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

Five workshops conducted for providing training in adult stem cell and embryonic stem cell culture and characterization techniques sponsored by BD Biosciences and Life Technologies.

31. Code of ethics for research followed by the departments

All the research projects are scrutinized by Ethical Committee of Manipal Hospital, Bangalore. Only Ethics committee approved projects are funded by Funding agencies. Stem cell research projects are also approved by Institutional Committee for Stem Cell Research & Therapy (IC-SCRT), Manipal.

32. Student profile course-wise:

Name of the Course (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
MSc Reg. Medicine	200 (Including for all MSc Courses)	10	11	46%	54%
MPhil Reg. Medicine	10	2	-	100%	
PhD	14	4	-		

33. Diversity of students

Name of the Course (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
				Nil
MSc Reg. Medicine	3%	73%	24%	Nil
MPhil Reg. Medicine	-	100 %	-	Nil
PhD	-	25%	75%	Nil

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

3 students awarded prestigious international fellowships for doing Ph.D.

Students selected for Marie curie fellowship and DAAD fellowship

35. Student progression

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	20 %
PG to Ph.D.	80%
Ph.D. to Post-Doctoral	
Employed	NA
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment Other than campus selection by request from various stem cell companies and National Research Institutes Facilitated by MIRM	25%
Entrepreneurs	5%

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	10%
from other universities within the State	50%
from universities from other States	50%
from universities outside the country	Nil

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period

Ph. D. was awarded to one faculty member Dr. Rajarshi Pal in 2012.

38. Present details of infrastructural facilities with regard to

a) Library

Library is equipped with relevant books with recent most addition and has an exhaustive e-library subscribing for more than 20 journals in the field of Regenerative Medicine

b) Internet facilities for staff and students

Wi-Fi Facility & Desk top facility for everyone (Faculty and Research student registered for Ph. D.

c) Total number of class rooms- 2

d) Class rooms with ICT facility - 2

e) Students' laboratories- 2

f) Research laboratories-2

39. List of doctoral, post-doctoral students and Research Associates

a) From the host university – 11

SHIKHA SHARMA, Manipal University Structural Ph.D. Fellow

B V ANOOP, Manipal University Structural Ph.D. Fellow

RENJITHA GOPURAPPILLY, Manipal University Structural Ph.D. Fellow

PREETHI SHESHADRI, Manipal University Structural Ph.D. Fellow

BHUVANA LAKSHMI, Manipal University Structural Ph.D. Fellow

POULOMI BANERJEE, Manipal University Structural Ph.D. Fellow

KAVINA GANAPATHY K, Manipal University Structural Ph.D. Fellow

CHAITRA VENUGOPAL, Manipal University Structural Ph.D. Fellow

PAVAN PATTANSHETTY, Manipal University Structural Ph.D. Fellow

BHAWNA CHANDRAVANSHI, Manipal University Structural Ph.D. Fellow

CHATTY VENKATA SOWMYA JAHNA, INSPIRE fellowship

b) From other universities – NIL

40. Number of post graduate students getting financial assistance from the university – Three

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology.

There was need as the program is recently launched and being updated as per demand in the field of Stem cell research and manpower development

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Key Response Indicators evaluated every year

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Department uses the feedback to evolve new learning techniques

c. Alumni and employers on the programs offered and how does the department utilize the feedback?

Not Applicable

43. List the distinguished alumni of the department (maximum 10)

Not Applicable

44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

Workshops– 3

2010	Tools and techniques for stem cell research with BD Biosciences, August, 2010
2011	Hands on workshop on Mesenchymal stem cells with BD Biosciences, July4-9, 2011
2013	Stem cell culture from basic to applications Jan-15to Jan-30, 2013
2014	STEM 2014 Stem cell awareness program with special emphasis on cord blood banking

Seminars - 20

45. List the teaching methods adopted by the faculty for different programs.

MSC; Practical hands on training in stem cell techniques, symposium, Debates, Journal clubs, Faculty lectures, Popular talks

46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?

Feedback forms, internal assessments and scientific interactions and dissertation/thesis evaluation

47. Highlight the participation of students and faculty in extension activities.

Annual day, special invited lectures, inter college competitions, quizzes

48. Give details of “beyond syllabus scholarly activities” of the department.

Participation in National conferences, visit to stem cell companies and workshops by students

49. State whether the program/ department is accredited/ graded by other agencies? If yes, give details.

SORM comes under MU which is UGC approved

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Peer reviewed Publications, patents, Invited lectures

51. Future plans of the department.

- Joint teaching program MSc Regenerative Medicine (SORM-University of Colombo,SriLanka)
- Industry academia collaboration

52. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

1. Highly qualified and experienced staff
2. Highly focused area of teaching and teaching
3. State-of-art infrastructure required for teaching and research purposes
4. Adequate funding for research
5. The unique Centre in Asia developing manpower in Stem cells and Regenerative medicine
6. The Centre is recognized by ICMR for stem cell training

Weaknesses:

1. Lack animal house facility
2. International funding needs to be attracted
3. Some sophisticated equipment needs to be purchased/added

Opportunities and Challenges:

1. Getting adequate number of students due to lack of awareness in India
2. Research papers need to be published in high impact factor journals

Credibility and Visibility:

1. Regenerative medicine is one of the most upcoming areas of translational research
2. High demand of skilled and trained manpower from the industry sector.

ANNEXURE NO. HS 1

Manipal University Admissions 2013 - Courses offered

Institution / Department	Courses	Eligibility
Department of Atomic and Molecular Physics, Manipal	M Sc Physics (Photonics)	Candidates must have passed Bachelors degree with a minimum of 55% marks in any of the following areas •B.Sc. in Physics •B.Tech. in Electronics/Electrical/Material Science/ Applied Physics.
	M Sc Physics (Nanoscience & Technology)	Candidate must have passed Bachelors Degree with a minimum of 55% marks in any of the following areas •B.Sc. in Physics •B.Tech. in Chemical Engineering/Biomedical Engineering, Material Science/Applied Physics.
	MSc Biophysics	The candidate must have passed MSc in Physics/Applied Physics/Masters in any area of physical sciences or BE / BTech / MTech (Applied Physics) with a minimum of 50% marks in aggregate.
	PG Diploma in Photonics	
Department of Sciences, Manipal	M Sc Chemistry	The candidate must have passed B Sc with Chemistry as major subject with a minimum of 50% marks in aggregate.
	M Sc Applied Mathematics & Computing	The candidate must have passed B Sc with Mathematics as major subject with a minimum of 50% marks in aggregate.
	M Sc Physics	The candidate must have passed B Sc with Physics as major subject with a minimum of 50% marks in aggregate.
Department of Advanced Pharmaceutical Sciences, Manipal	M Sc in Advanced Pharmaceutical Sciences	B Pharm from an institution approved by the Pharmacy council of India with minimum of 50% marks in aggregate.
Department of Commerce, Manipal	BBM e-Banking & Finance	Pass in 10+2, A Level, IB, American 12th grade or equivalent with a minimum of 50% marks in aggregate.
	BBM Financial Markets	
	BBM Professional	
	BBM Logistics & Supply Chain	
	M Com Logistics & Supply Chain	The candidate must have a bachelor's degree in Management or Commerce from a recognized university. They should have secured not less than 50% marks in aggregate.

Department of Geopolitics & International Relations, Manipal	MA Geopolitics and International Relations	The candidate must have a Bachelors Degree in any discipline from a recognized University with minimum of 50% marks in aggregate.
	MA in National Security Studies	The candidate must have a Bachelors Degree in any discipline from a recognized University with minimum of 50% marks in aggregate.
	Post Graduate Diploma in Gandhian & Peace Studies	Any graduate with Arts/Science/Commerce with a minimum of 50% marks aggregate. Candidates who are willing to do full-time course as well as part-time (by choosing a particular module of one's own interest) are eligible to apply for the course.
Department of Public Health, Manipal	Masters in Public Health	The candidate must have a Bachelors degree in Medicine, Dentistry, Nursing, Allied Health, Life Science from a recognized University with a minimum of 60% marks in aggregate.
	Masters in Social Work	The candidate must have a Bachelors degree in any discipline from a recognized university with a minimum of 50% marks in aggregate.
	Master in Hospital Administration	The candidate must have a bachelor's degree in MBBS / BDS / BAMS / BHMS / BNYS / BPT/B Sc Nursing (Basic or Post Basic) /B Pharm / B Sc in Allied Health Sciences /Bachelor degree in Arts / Commerce /Science / Law from a recognized university with a minimum of 50% marks in aggregate.
	Certificate Course in Public Health	Candidates must have passed bachelors degree in any Health Sciences subject including Medicine, Dental Sciences, Nursing, Allied Health Sciences, Life Sciences and mainstream Science graduates are also eligible.
Certificate Course in Global Health		
Department of Statistics, Manipal	Certificate Course in Biostatistics, Epidemiology & Research Methodology	The candidates must have passed graduation in health science professional courses (MBBS, BPT, BASLP, B Pharm, B Sc Nursing etc) or post graduation in health science related non professional courses (M Sc Anatomy, Physiology, Biochemistry etc) or students doing their internship after completion of undergraduate course work.
	M Sc Biostatistics	The candidates must have passed B Sc Statistics/B Sc Mathematics or BE/B Tech or BCA/B Sc Computer Science or any other graduation having minimum 2 years learning of Mathematics and Statistics with a minimum of 50% marks in aggregate.

Kasturba Medical College, Mangalore	Bachelor of Audiology & Speech Language Pathology	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry and English with Biology or Mathematics as optional subjects with a minimum of 45% marks taken together in Physics, Chemistry and any one of the optional subjects.
	Bachelor of Medicine & Surgery	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English with a minimum of 55% marks in Physics, Chemistry and Biology taken together. DATE OF BIRTH: Should fall on or before 31.12.96
	Bachelor of Physiotherapy	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, English and Biology with a minimum of 45% marks taken together in Physics, Chemistry and Biology.
	B Sc Medical Radiotherapy Technology	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, English and Mathematics with a minimum of 45% marks in Physics, Chemistry and Mathematics taken together.
	DNB Urology	The candidates must have passed MS General Surgery.
	DNB Gastroenterology	The candidates must have passed MD General Medicine.
	DNB Psychiatry Primary	The candidates must have passed MBBS.
	DNB Psychiatry Secondary	The candidates must have passed MBBS and DPM.
	Master of Audiology & Speech Language Pathology	The candidates must have passed BSLH/BASLP from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013
	MD Anaesthesiology	Pass in MBBS degree recognized by Medical Council of India.
	MD Anatomy	
	MD Biochemistry	
	MD Dermatology	INTERNSHIP: Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible.
	MD General Medicine	
	MD Microbiology	
	MD Paediatrics	
	MD Pathology	Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year.
MD Pharmacology		
MD Physiology		
MD Radio-diagnosis	REGISTRATION: Candidates should have obtained permanent registration with Medical Council or any of the State Medical Council or should obtain the same within one month from the date of admission.	
MS General Surgery		
MS Obstetrics & Gynaecology		
MS Ophthalmology		

	MS Orthopaedic Surgery	
	MS Otorhinolaryngology	
	PG Diploma – Anaesthesiology	
	PG Diploma – Child Health	
	PG Diploma – Clinical Pathology	
	PG Diploma – Dermatology	
	PG Diploma – Obstetrics & Gynaecology	
	PG Diploma – Ophthalmology	
	PG Diploma – Orthopaedics	
	PG Diploma – Otorhinolaryngology	
	MPT Cardio-pulmonary Sciences	The candidates must have passed BPT from a recognized University with a minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013
	MPT Community Based Rehabilitation	
	MPT Neurosciences	
	MPT Orthopaedics	
	MPT Paediatrics Physiotherapy	
	M Sc Medical – Anatomy	The candidate must have passed B Sc with at least one subject of Biological Sciences or BAMS or MBBS or BHMS or BPT or B Pharm or any other professional graduates from a recognized University. B Sc graduates with Physics and Chemistry optionals, could be considered for admission to M Sc Biochemistry course. Candidates must have obtained not less than 50% marks in aggregate at the qualifying examination.
	M Sc Medical – Biochemistry	
	M Sc Medical – Microbiology	
	M Sc Medical – Pharmacology	
	M Sc Medical – Physiology	
Kasturba Medical College, Manipal	Bachelor of Medicine & Surgery	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English with a minimum of 55% marks in Physics, Chemistry and Biology taken together. DATE OF BIRTH: Should fall on or before 31.12.96
	DM Cardiology	MD in General Medicine or Paediatrics from a college recognized by the Medical Council of India.
	DM Neurology	
	DM Gastroenterology	
	DM Nephrology	Permanent registration with Medical Council of India.
M Ch Cardiothoracic	MS in General Surgery from a college	

Surgery	recognized by the Medical Council of India. Permanent registration with Medical Council of India.
M Ch Neuro Surgery	
M Ch Paediatric Surgery	
M Ch Urology	
MD Anaesthesiology	<p>Pass in MBBS degree recognized by Medical Council of India.</p> <p>INTERNSHIP: Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible.</p> <p>Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year.</p> <p>REGISTRATION: Candidates should have obtained permanent registration with Medical Council or any of the State Medical Council or should obtain the same within one month from the date of admission.</p>
MD Anatomy	
MD Biochemistry	
MD Community Medicine	
MD Dermatology	
MD Forensic Medicine	
MD General Medicine	
MD Hospital Administration	
MD Microbiology	
MD Paediatrics	
MD Pathology	
MD Pharmacology	
MD Physiology	
MD Psychiatry	
MD Radio-diagnosis	
MD Radio-therapy	
MD Pulmonary Medicine	
MD (Immunohematology & Blood Transfusion)	
MS General Surgery	
MS Obstetrics & Gynaecology	
MS Ophthalmology	
MS Orthopaedic Surgery	
MS Otorhinolaryngology	
PG Diploma – Anaesthesiology	
PG Diploma – Child Health	
PG Diploma – Clinical Pathology	
PG Diploma – Dermatology	
PG Diploma – Obstetrics & Gyaenocology	
PG Diploma – Ophthalmology	
PG Diploma –	

Orthopaedics	
PG Diploma – Otorhinolaryngology	
PG Diploma – Psychiatry	
PG Diploma – Radio-diagnosis	
M Phil Psychiatric Social Work	The candidates must have passed full time MSW (Social Work) from a recognized University with a minimum of 55% marks in aggregate of the Masters Degree course as a whole.
M Sc Medical – Anatomy	The candidate must have passed B Sc with at least one subject of Biological Sciences or BAMS or MBBS or BHMS or BPT or BP harm or any other professional graduates from a recognized University. B Sc graduates with Physics and Chemistry optionals, could be considered for admission to M Sc Biochemistry course. Candidates must have obtained not less than 50% marks in aggregate at the qualifying examination.
M Sc Medical – Biochemistry	
M Sc Medical – Microbiology	
M Sc Medical – Pharmacology	
M Sc Medical – Physiology	
M Sc Medical – Clinical Embryology	The candidates who have completed their B Sc with Reproduction, Zoology, Microbiology, Biochemistry, Biotechnology, Bioscience or Physiology as one of the subjects are eligible. Candidates must have obtained not less than 60% marks in aggregate at the qualifying examination.
M Sc Yoga Therapy	Graduates in any discipline are eligible. Candidates must have obtained not less than 50% marks in aggregate at the qualifying examination.
Post Graduate Certificate Course in Panchakarma	Candidates must have a bachelor's degree in Ayurveda from a recognized university and completed the compulsory rotatory internship.
Fellowship in Clinical Genetics	Pass in Post Graduate Degree (MD /MS/ DNB) in Paediatrics/Medicine/Obstetrics & Gynaecology.
Fellowship in Neonatology	Pass in Post Graduate Degree (MD/DNB) in Paediatrics.
Fellowship in Diabetes	Pass in Post Graduate Degree (MD General medicine) or equivalent.

School of Information Science, Manipal	M Sc Tech (Embedded Systems)	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (Embedded Systems) Lateral Entry.</p>
	M Sc Tech (Medical Software)	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate. BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (Medical Software) Lateral Entry.</p>
	M Sc Tech (VLSI Design)	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics or any other relevant branches of Engineering degree for those seeking admission to M Sc Tech (VLSI Design) Lateral Entry.</p>
	M Sc Tech (VLSI System Design & Verification) - Whizchip	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics or any other relevant branches of Engineering degree for those seeking admission to M Sc Tech (VLSI System Design & Verification) Lateral Entry.</p>
	M Sc Tech (IT Management)	<p>The candidate must have passed BE/B Tech in any branch of Engineering with a minimum of 50% marks in aggregate.</p>

	M Sc Tech (Computing Technology & Virtualization)	<p>The candidate must have passed BSc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (Computing Technologies & Virtualization) Lateral Entry.</p>
	M Sc Tech (Embedded Systems and Wireless Technology)	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (Embedded Systems and Wireless Technology) Lateral Entry.</p>
	M Sc Tech (High Performance Computing)	<p>The candidate must have passed B Sc Computer Science/Electronics/BCA or Equivalent with a minimum of 50% marks in aggregate.</p> <p>BE / B Tech in Electronics and Communication, Computer Science, Information Science, Electrical and Electronics, Biomedical Engineering, Instrumentation Engineering for those seeking admission to M Sc Tech (High Performance Computing) Lateral Entry.</p>
	Dual Degree – M Sc Tech (Embedded Systems & Instrumentation) ESIGELEC	Candidates must have passed BE/B Tech in Computer Science ,Electronics & Communication, Electrical & Electronics, Information Science, Bio medical Engineering, Instrumentation or any other relevant branches in Engineering with a minimum of 55% marks in aggregate.
	Dual Degree - Lancaster University, UK	Candidates must have passed BE/B Tech in Computer Science, Information Science, Information Technology, Electronics & Communication, Electrical & Electronics,
	Dual Degree - Edinburg Napier University, UK	Telecommunication, Medical Electronics, Biomedical Engineering or equivalent branches in Engineering with a minimum of 60% marks in aggregate.

	Dual Degree - GroepT International University College, Belgium	Candidates must have passed BE/B Tech in Computer Science, Information Science, Information Technology, Electronics & Communication, Electrical & Electronics, Telecommunication, Medical Electronics, Biomedical, Mechatronics or any equivalent branches in Engineering with a minimum of 60% marks in aggregate.
	M Sc in Information Science	<ul style="list-style-type: none"> • B Sc in Computer Science/Information Science/Mathematics/Electronics/Physics/Chemistry/BCA with minimum 50% aggregate marks • Equivalent qualifications from Universities outside India are also considered.
School of Allied Health Sciences, Manipal	Bachelor of Audiology & Speech Language Pathology	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry and English with Biology or Mathematics as optional subjects with a minimum of 45% marks taken together in Physics, Chemistry and any one of the optional subjects.
	BSc Clinical Optometry	
	Bachelor of Occupational Therapy	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, English and Biology with a minimum of 45% marks taken together in Physics, Chemistry and Biology.
	Bachelor of Physiotherapy	
	B Sc Cardiovascular Technology	
	B Sc Medical Imaging Technology	
	B Sc Medical Laboratory Technology	
	B Sc Respiratory Therapy	
	B Sc Nuclear Medicine Technology	
	B Sc Renal Replacement Therapy & Dialysis Technology	
	B Sc Perfusion Technology	
	B Sc Medical Radiotherapy Technology	
B Sc Health Information Administration	Pass in 10+2, A Level, IB, American 12th grade or equivalent with any Science/Arts/Commerce groups with a minimum of 45% marks in aggregate.	

Bachelor of Health Sciences (BHSc)- Twining program	Pass in 10+2, A Level, IB, American 12th grade or equivalent examination with a minimum of 75% marks in Physics, Chemistry, Mathematics, Biology and 60% in English OR an IELTS with score band of 6.
Master of Audiology & Speech Language Pathology	The candidates must have passed BSLH/BASLP from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013
MOT Developmental Disabilities	The candidates must have passed BOT/B Sc OT/ BOTH from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013.
MOT Hand & Musculoskeletal conditions	
MOT Neuro Rehabilitation	
MOT Mental Health & Psychosocial Rehabilitation	
MPT Cardio-pulmonary Sciences	The candidates must have passed BPT from a recognized University with a minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013
MPT Community Based Rehabilitation	
MPT Neurosciences	
MPT Orthopaedics	
MPT Paediatrics Physiotherapy	
MPT (Dual Degree) - Sports & Clinical Biomechanics	The candidates must have passed BPT with a minimum of 50% marks and IELTS with score band of 7 in aggregate from a recognized University. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013
MRT Adult Respiratory Care	The candidates must have passed BSc RT from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013.
MRT Neonatal & Paediatric Respiratory Care	
M Sc Hospital & Health Information Administration	The candidates must have passed any Bachelors degree from a recognized University with minimum of 50% marks.
M Sc Medical Imaging Technology	The candidates must have passed B Sc MIT of 3 years regular course from any University recognized by UGC with a minimum of 50% marks in aggregate+1 year compulsory internship or clinical experience. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013

	M Sc Medical Radiation Physics	Candidates must have passed B Sc with Physics as major or B Sc with Physics as one of the major subjects from any University recognized by UGC in English medium. Candidates must have obtained not less than 60% marks in aggregate.
	M Sc Medical Laboratory Technology - Clinical Biochemistry	The candidates must have passed B Sc MLT/BMLT from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013.
	M Sc Medical Laboratory Technology - Microbiology & Immunology	
	M Sc Nuclear Medicine Technology	The candidates must have passed B Sc in Nuclear Medicine (BNMT) with DNMT or Diploma in Medical Radio Isotopes Techniques (DMRIT) from BARC or PG Diploma in Nuclear Medicine Technology or B Sc in Medical Imaging Technology (B Sc MIT) /equivalent or B Sc with Mathematics/ Physics /Chemistry/ Biology as major subject from a recognized University with minimum of 50% marks in aggregate.
	Master of Optometry	The candidates must have passed B Sc Optometry from a recognized University with minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013.
	M Sc Renal Replacement therapy & Dialysis Technology	Candidates must have passed B Sc RRT & DT from a recognized University with a minimum of 50% marks in aggregate. INTERNSHIP: Candidates should be completed or completing their compulsory internship on or before 15.08.2013
	M Sc Echocardiography	The candidates must have passed B Sc Cardiovascular Technology/Cardiac Care with a minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013.
	M Sc Cardiac Cath & Intervention Technology	The candidates must have passed B Sc Cardiovascular Technology OR diploma in Cardiovascular Technology with a minimum of 3 year experience and 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013.

	Lateral M Sc Nuclear Medicine Technology	Post-graduate Diploma holders in Nuclear Medicine Technology (DNMT/DMRIT) approved by Atomic Energy Regulatory Board, Mumbai subject to the condition that the degree will be awarded only when they attend and pass the following three additional papers along with the second year theory papers: 1) Mathematics in Nuclear Medicine 2) Computers in Nuclear Medicine 3) Biomedical Engineering
	M Phil Clinical Psychology	The candidates must have passed fulltime MA Psychology or M Sc Psychology from a recognized University with a minimum of 55% marks in aggregate in the Master Degree course as a whole.
Manipal Health Systems, Bangalore	B Sc Perfusion Technology	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, English and Biology with a minimum of 45% marks taken together in Physics, Chemistry and Biology.
	B Sc Medical Imaging Technology	
	M Sc Hospital & Health Information Administration	The candidates must have passed any Bachelors degree from a recognized University with minimum of 50% marks.
	MPT Cardio-pulmonary Sciences	The candidates must have passed BPT from a recognized University with a minimum of 50% marks in aggregate. INTERNSHIP: Completed or completing their compulsory internship on or before 15.08.2013
	MPT Community Based Rehabilitation	
	MPT Orthopaedics	
MPT Neurosciences		
Manipal College of Dental Sciences, Mangalore	Bachelor of Dental Surgery	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 55% marks in Physics, Chemistry and Biology taken together.
	MDS Conservative Dentistry & Endodontics	Pass in BDS degree or equivalent degree recognized by Dental Council of India.
	MDS Oral and Maxillofacial Surgery	
	MDS Oral Pathology & Microbiology	INTERNSHIP: Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible. Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year.
	MDS Orthodontics & Dentofacial Orthopaedics	
	MDS Paedodontics & Preventative dentistry	
	MDS Periodontology	
	MDS Prosthodontics & Crown and Bridge	REGISTRATION: Candidates should have obtained permanent registration with Dental Council of India or any of the State Dental Council or should obtain the same within one month from the date of admission.
	MDS Public Health Dentistry	
	MDS Oral Medicine and Radiology	

	Post Graduate Diploma Dental Materials	
Manipal College of Dental Sciences, Manipal	Bachelor of Dental Surgery	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 55% marks in Physics, Chemistry and Biology taken together.
	Post Graduate Certificate Course in Aesthetic Dentistry	Pass in BDS from any institution recognized by the Dental council of India.
	Post Graduate Certificate Course in Oral Implantology	
	Post Graduate Certificate Course in Laser Dentistry	
	MDS Public Health Dentistry	<p>Pass in BDS degree or equivalent degree recognized by Dental Council of India.</p> <p>INTERNSHIP: Candidates completing their compulsory rotating internship on or before 30.04.2013 are eligible. Candidates completing internship after 30.04.2013 are not eligible for admission in this academic year.</p> <p>REGISTRATION: Candidates should have obtained permanent registration with Dental Council of India or any of the State Dental Council or should obtain the same within one month from the date of admission.</p>
	MDS Conservative Dentistry & Endodontics	
	MDS Oral and Maxillofacial Surgery	
	MDS Oral Medicine and Radiology	
	MDS Oral Pathology & Microbiology	
	MDS Orthodontics & Dentofacial Orthopaedics	
	MDS Paedodontics & Preventative dentistry	
	MDS Periodontology	
	MDS Prosthodontics & Crown and Bridge	
	Post Graduate Diploma in Dental Materials	
School of Nursing, Bangalore	B Sc Nursing	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 45% marks taken together in Physics, Chemistry, Biology and English. DATE OF BIRTH: Only those whose date of birth falls on or before 31.12.96 are eligible.
	Post Basic Diploma in - Neonatal Nursing	Pass in B Sc/PB B Sc Nursing/ GNM recognized by Indian Nursing Council and a minimum of 55% marks in aggregate.
	Post Basic Diploma in - Oncology Nursing	
	Post Basic Diploma	

	in - Operation Room Nursing	
School of Nursing, Mangalore	B Sc Nursing	<p>Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 45% marks taken together in Physics, Chemistry, Biology and English.</p> <p>DATE OF BIRTH: Only those whose date of birth falls on or before 31.12.96 are eligible.</p>
Manipal College of Nursing, Manipal	B Sc Nursing	<p>Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry, Biology and English and a minimum of 45% marks taken together in Physics, Chemistry, Biology and English.</p> <p>DATE OF BIRTH: Only those whose date of birth falls on or before 31.12.96 are eligible.</p>
	PB B Sc Nursing	<p>Pass in GNM after 10+2 or equivalent examination preferably with Science subjects. Candidates should be a registered Nurse and registered Midwife or equivalent with any State Nursing Registration Council. Candidates should have completed their GNM course on or before 31.05.2013.</p>
	Post Basic Diploma in - Cardio Thoracic Nursing	<p>Pass in B Sc/PB B Sc Nursing/ GNM recognized by Indian Nursing Council and a minimum of 55% marks in aggregate.</p>
	Post Basic Diploma in - Critical Care Nursing	
	Post Basic Diploma in - Emergency & Disaster Nursing	
	Post Basic Diploma in - Psychiatric /Mental Health Nursing	
	Post Basic Diploma in - Neonatal Nursing	
	Post Basic Diploma in - Neuro Science Nursing	
	Post Basic Diploma in - Nurse Practitioner in Midwifery	
	Post Basic Diploma in - Oncology Nursing	
	Post Basic Diploma in - Operation Room Nursing	
	Post Basic Diploma in - Orthopedic and	

	Rehabilitation Nursing	
	M Phil Nursing	The candidate must have passed M Sc Nursing recognized by Indian Nursing Council with at least 60% marks in aggregate.
	M Sc Community Health Nursing	<p>Pass in B Sc/PC B Sc/PB B Sc Nursing recognized by Indian Nursing Council with minimum of 55% marks in aggregate.</p> <p>EXPERIENCE: The applicants must have 1 year of experience as on 31.07.2013 after B Sc Nursing in a hospital of at least 100 beds or in a community health programme or in a school or college of Nursing. PB B Sc degree holders need to have one year experience either before or after Post Basic B Sc Nursing degree.</p>
	M Sc Medical Surgical Nursing	
	M Sc Obstetrics & Gynaecology Nursing	
	M Sc Child Health (Paediatric) Nursing	
	M Sc Psychiatric (Mental Health) Nursing	
Manipal College of Pharmaceutical Sciences, Manipal	Bachelor of Pharmacy	<p>Pass in 10+2 with Physics, Chemistry and English with Mathematics or Biotechnology or Computer Science or Biology as optional subjects.</p> <p>Candidates who have passed 10+2 from national open school are not eligible for admission under the Pharmacy Act.</p>
	Lateral B pharm	Diploma holders in Pharmacy from an Institution recognized by the Pharmacy Council of India.
	Pharm D	<p>Pass in 10+2 examination with Physics, Chemistry and English with Mathematics or Biology as optional subjects / D Pharm or any other equivalent qualification recognized by the Pharmacy Council of India.</p> <p>Candidates who have passed 10+2 from national open school are not eligible for admission under the Pharmacy Act</p> <p>DATE OF BIRTH: Should be on or before 31.12.96</p>
	Pharm D Post Baccalaureate	BP harm from an institution recognized by the Pharmacy Council of India with minimum of 50% marks in aggregate.
	M Pharm Pharmaceutical Administration	B Pharm from an institution recognized by the Pharmacy Council of India with minimum of 50% marks in aggregate.
	M Pharm Pharmaceutical Biotechnology	
	M Pharm Pharmaceutical Chemistry	
M Pharm Pharmaceutical Marketing		

	M Pharm Pharmaceutical Quality Assurance	
	M Pharm Pharmaceutics	
	M Pharm Pharmacognosy	
	M Pharm Pharmacology	
	M Pharm Drug Regulatory Affairs	
	M Pharm Pharmacy Practice	
	M Pharm Industrial Pharmacy	
School of Communication, Manipal	BA Journalism & Communication	Pass in 10+2, A Level, IB, American 12th grade or equivalent and a minimum of 45% marks in aggregate. Arts group subjects will be the preferred qualification.
	Certificate in Animation Technology	Candidates with a pass in 10+2 or those pursuing B Sc with Mathematics as one of the subjects or students of 3 years Diploma in Engineering. Computer knowledge, proficiency in Mathematics and good communication skills are essential.
	MA Communication	The candidate must have a bachelor's degree in any discipline from a recognized university and a minimum of 50% marks in aggregate.
	Post Graduate Diploma in Corporate Communication	The candidate must have a bachelor's degree in any discipline which is of 3 or more years of duration after 10+2 examination from a recognized university and a minimum of 50% marks in aggregate.
	PG Diploma in Film Art	The candidate must have completed a bachelor degree course in any stream (which is of three or more years' duration after the 10+2 examination) from any recognized university, having secured not less than 50% of marks in the aggregate of the total marks prescribed.
	Masters in Film Art and Film Making	The candidate must have a bachelor's degree in any discipline which is of 3 or more years of duration after 10+2 examination from a recognized university and a minimum of 50% marks in aggregate.
School of Management, Manipal	MBA	The candidate must have a bachelor's degree in any discipline from a recognized university. They should have secured not less than 50% marks in aggregate.
School of Regenerative Medicine,	M Sc Regenerative Medicine	The candidates must have passed B Sc with at least one subject of Biological Sciences or MBBS or B Pharm or BV Sc or BE

Bangalore		Biotechnology or any other professional graduate programme from a recognized university and a minimum of 60% marks in aggregate.
	M Phil Regenerative Medicine	The candidates must have passed M Sc in any branch of Life sciences / MSC in Biotechnology/M Pharm/MBBS /MV Sc / MDS/ MD/M Sc in Regenerative Medicine/ Clinical Embryology and other paramedical course with a minimum of 50% marks in aggregate.
	Post Graduate Diploma in Regenerative Medicine & Stem Cells	The candidates must have passed Bachelors in Life sciences/B Tech/BE in Biotechnology/Biomedical/ MBBS /BDS / BV Sc and Allied Health Science from a recognized university and a minimum of 60% marks in aggregate.
Faculty of Architecture Planning & Design, Manipal	Bachelor of Architecture	<p>Candidates must have a minimum of 40% marks in the All India National Aptitude Test in Architecture (NATA) conducted by Council of Architecture (COA) and must have passed any one of the following courses with a minimum of 50% marks in aggregate:</p> <ul style="list-style-type: none"> · 10+2 with Mathematics and English as compulsory subjects <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> · 3 years Diploma after 10 years of schooling (any stream) recognized by Central/State Government with Mathematics and English as compulsory subjects
	Bachelor of Design (Fashion Design)	Pass in 10+2 or 3 years Diploma by the Central/State Government or equivalent qualification from any Board
	Bachelor of Science (Fashion Design-Couture)	
	Bachelor of Arts (Interior Design)	
	Master of Architecture (Advanced Design)	The candidates must have passed B Arch or its equivalent as approved by Council of Architecture with a minimum of 50% marks in aggregate.
	Executive Master of Architecture (Advanced Design)	The candidates must have passed B Arch or its equivalent as approved by Council of Architecture with a minimum of 50% marks in aggregate.
	Diploma in Fashion Design	Pass in 10+2 or 3 years Diploma by the Central/State Government or equivalent qualification from any Board
	Certificate in Fashion Design and Information Technology	Pass in 10+2 or 3 years Diploma by the Central/State Government or equivalent qualification from any Board

Manipal Institute of Technology, Manipal	B Tech Aeronautical Engineering	<p>Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Mathematics and English as compulsory subjects along with Chemistry or Biotechnology or Biology or any technical vocational subjects (Automobile Technology, Air Conditioning and Refrigeration Technology, Computer Science, Dairying Technology, Electrical Technology, Geospatial Technology, IT Application, Structure and Fabrication Technology) as optional subjects with a minimum of 50% marks taken together in Physics, Mathematics and any one of the optional subjects.</p>
	B Tech Automobile Engineering	
	B Tech Biomedical Engineering	
	B Tech Biotechnology Engineering	
	B Tech Chemical Engineering	
	B Tech Civil Engineering	
	B Tech in Computer & Communication Engineering	
	B Tech Computer Science & Engineering	
	B Tech Electrical & Electronics	
	B Tech Electronics & Communication	
	B Tech Industrial & Production Engineering	
	B Tech Information Technology	
	B Tech Instrumentation and Control Engineering	
	B Tech Mechanical Engineering	
	B Tech Mechatronics	
B Tech Printing Technology		
Lateral B Tech	3 years Diploma in Engineering granted by the Board of Technical Examination of a State Government or B Sc with Mathematics as one of the subjects or equivalent qualification with a minimum of 50% marks in aggregate.	
Master of Computer Applications	The candidate must have a bachelor's degree in any discipline from a recognized university. In addition, candidates must have studied Mathematics/Statistics/Computer Science as one of the subjects in 10+2 (PUC) level or Mathematics/Statistics in bachelor's degree. They should have secured not less than 50% marks in aggregate. Candidates who have obtained their bachelors degree through Distance Learning mode must have at least 3 years work experience in the related field after obtaining bachelors degree.	

Master of Computer Application (MCA)-Lateral Entry	Candidate should have studied BCA or B Sc Computer Science or B Sc Information Technology from a recognized University. They should have secured not less than 50% marks in aggregate. Candidates who have obtained their bachelors degree through Distance Learning mode must have at least 3 years work experience in the related field after obtaining bachelors degree.
M Tech in Advanced Thermal Power & Energy Systems	The candidates must have passed the following courses with a minimum of 50% marks in aggregate.
M Tech in Astronomy & Space Engineering	ADVANCED THERMAL POWER & ENERGY SYSTEMS: BE/B Tech or AMIE or equivalent in Mechanical or Industrial & Production or Manufacturing Science or Automobile Engineering.
M Tech in Biochemical Engineering	ASTRONOMY & SPACE ENGINEERING: BE/B Tech or AMIE in Aeronautical Engineering, Electrical Sciences-Electrical /Electronics/Instrumentation/Mechatronics.
M Tech in Biomedical Engineering	BIO-MEDICAL ENGINEERING: BE/B Tech or AMIE or equivalent in Bio-medical or Medical Electronics or Electrical & Electronics or Electronics & Communication or Electronics & Telecommunication or Instrumentation Engineering.
M Tech in Chemical Engineering	BIOCHEMICAL ENGINEERING: BE / B Tech or AMIE or equivalent in Biotechnology, Chemical Engineering, Pharmaceutical Technology ,Bio-Chemical Engineering, Bio Process Engineering.
M Tech in Computer Aided Mechanical Design & Analysis	CHEMICAL ENGINEERING: BE/B Tech or AMIE in Chemical Engineering/Bio-Chemical Engineering/Petroleum Engineering/Environmental Engineering/Bio Process Engineering/Bio Technology/ Pharmaceutical Technology.
M Tech in Computer Science & Information Security	COMPUTER AIDED MECHANICAL DESIGN & ANALYSIS: BE/B Tech or AMIE or equivalent in Mechanical or Industrial & Production or Mechatronics or Manufacturing Science or Automobile Engineering.
M Tech in Computer Science & Engineering	COMPUTER SCIENCE & ENGINEERING: BE/ B Tech or AMIE or equivalent in
M Tech in Construction Engineering & Management	
M Tech in Control Systems	
M Tech in Digital Electronics & Advanced Communication	
M Tech in Energy Management, Auditing & Lighting	
M Tech in Engineering Management	
M Tech in Environmental Engineering	
M Tech in Industrial Biotechnology	

	M Tech in Industrial Pollution & Control	<p>Computer Science or Electronics & Communication or Electrical & Electronics or Electronics & Telecommunication or Telecommunication Engineering or Instrumentation Engineering or Information Technology.</p> <p>COMPUTER SCIENCE & INFORMATION SECURITY: BE/B Tech or AMIE or equivalent in Computer Science or Electronics & Communication or Electrical & Electronics or Electronics & Telecommunication or Telecommunication Engineering or Instrumentation Engineering or Information Technology.</p>
	M Tech in Manufacturing Engineering & Technology	
	M Tech in Microelectronics	
	MTech in Network Engineering	
	MTech in Power Electronic Systems & Control	
	MTech in Printing & Media Engineering	
	MTech in Software Engineering	
	MTech in Structural Engineering	<p>CONSTRUCTION ENGINEERING & MANAGEMENT: BE/B Tech or AMIE or equivalent in Civil Engineering or Architecture.</p> <p>CONTROL SYSTEM: BE/B Tech or AMIE or equivalent in Electrical Sciences or Electronics or Instrumentation or Mechatronics.</p> <p>DIGITAL ELECTRONICS AND ADVANCED COMMUNICATIONS: BE / B Tech or AMIE or equivalent in Electronics & Communication/Electrical & Electronics/Electronics & Instrumentation/ Telecommunication Engineering.</p> <p>ENERGY MANAGEMENT, AUDITING & LIGHTING: BE/B Tech or AMIE or equivalent in Electrical & Electronics or Electronics & Communication or Instrumentation.</p> <p>ENGINEERING MANAGEMENT: BE/B Tech or AMIE in any branch of Engineering.</p> <p>ENVIRONMENTAL ENGINEERING: BE/B Tech or AMIE in Civil/Chemical Engineering/Ceramic Technology/Mechanical/Metallurgy/Mining/ Environmental/Bio-Chemical Engineering/Bio-Technology.</p> <p>INDUSTRIAL BIOTECHNOLOGY: BE/B Tech or AMIE or equivalent in Biotechnology or Chemical Engineering or Pharmaceutical Technology or Biochemical</p>

		<p>Engineering or Bioprocess Engineering.</p> <p>INDUSTRIAL POLLUTION CONTROL: BE/B Tech or AMIE or equivalent in Chemical Engineering, Mechanical Engineering, Biotechnology or Civil Engineering.</p> <p>MANUFACTURING ENGINEERING & TECHNOLOGY: BE/B Tech or AMIE or equivalent in Mechanical or Manufacturing or Industrial & Production or Mechatronics or Automobile Engineering or Production Engineering or Material & Metallurgy.</p> <p>MICROELECTRONICS: BE/B Tech or AMIE or equivalent in Electrical & Electronics, Electronics & Communication, Electronics & Telecommunication, Instrumentation & Control.</p> <p>NETWORK ENGINEERING: BE/B Tech or AMIE or equivalent in Computer Science or Electronics & Communication or Electrical & Electronics or Information Technology.</p> <p>POWER ELECTRONIC SYSTEMS & CONTROL: BE/B Tech or AMIE or equivalent in Electrical & Electronics or Electronics & Communication or Instrumentation & Control.</p> <p>PRINTING & MEDIA TECHNOLOGY: BE/B Tech or AMIE or equivalent in any branch of Engineering.</p> <p>SOFTWARE ENGINEERING: BE/B Tech or AMIE or equivalent in Computer Science and Engineering or Information Technology or Information Science and Engineering.</p> <p>STRUCTURAL ENGINEERING: BE/B Tech or AMIE or equivalent in Civil Engineering</p>
	M Tech in Network Engineering (Dual Degree)	The candidates must have passed BE/B Tech or AMIE or equivalent in Computer Science or Electronics and Communication or Electrical and Electronics or Information Technology course with a minimum of 50% marks in aggregate.
	M Tech in Printing & Media Technology (Dual Degree)	The candidates must have passed BE/B Tech or AMIE or equivalent in any branch of Engineering course with a minimum of 50%

		marks in aggregate.
	M Tech in Software Engineering (Dual Degree)	The candidates must have passed BE/B Tech or AMIE or equivalent in Computer Science and Engineering or Information Technology or Information Science and Engineering course with a minimum of 50% marks in aggregate.
School of Life Sciences, Manipal	B Sc Biotechnology	Pass in 10+2, A Level, IB, American 12th grade or equivalent with Physics, Chemistry and English with Biology or Biotechnology or Mathematics or any other Life Science subject as optional and a minimum of 55% marks taken together in Physics, Chemistry and any one of the optional subjects.
	M Sc in Bioinformatics	The candidates must have completed graduation in Basic Science / Life Science / Pharmaceutical Science / Medicine / Computer Science / Biomedical Engineering / Electronics / Biotechnology or other related Engineering Sciences and a minimum of 50% marks in aggregate.
	M Sc Medical – Biotechnology	Candidates must have passed Bachelors degree in any Life Science subject from a recognized university with a minimum of 50% marks in aggregate.
	M Sc Medical – Molecular Biology & Human Genetics	The candidate must have passed B Sc with at least one subject of Biological Sciences/ BAMS/MBBS/BHMS/BPT/B Pharm or any other professional graduate programme from a recognized University with a minimum of 50% marks in aggregate.
	PG Diploma in Cellular and Molecular Diagnostics	The candidates must have completed bachelors or masters degree in Biotechnology/ Bioscience/ Agriculture/ Veterinary Science/ B pharm /M Pharm /MBBS/ BE/ B tech in Biomedical/ Biotechnology/Chemical with the minimum 50% marks in aggregate.
	Certificate Course in Bioinformatics	Students pursuing graduation in Basic Sciences / Life Sciences/ Pharmaceutical Sciences/ Medicine/ Computer Science/ Biomedical Engineering/ Electronics/Post Graduates/ PhD Scholars or Faculty.
	Manipal School of Nursing, Manipal	Diploma in Nursing

Welcomgroup Graduate School of Hotel Administration, Manipal	Bachelor of Hotel Management	Pass in 10+2, A Level, IB, American 12th grade or equivalent preferably above 50% marks in aggregate.
	Bachelor of Hotel Management - Lateral Entry	3 years diploma in Hotel Management or equivalent after 10+2 or equivalent, preferably above 50% marks in aggregate. A committee will award the equivalence to approve admissions.
Department of Culinary Arts & Allied Hospitality Studies, Manipal	BA Culinary Arts	Pass in 10+2, A Level, IB, American 12th grade or equivalent preferably above 40% marks in aggregate.
	Bachelor of Hotel Management, Travel and Tourism	Pass in 10+2, A Level, IB, American 12th grade or equivalent.
	M Sc Hospitality & Tourism Management	The candidates must have completed graduation from a recognized University. For candidates who have completed any degree other than Hotel Management are needed to enroll for a 'Bridge Programme' for three months concurrent to the commencement of Masters Programme.
	M Sc in Hospitality and Tourism Management (M Sc HTM [UCB])	The candidates must have a Bachelors degree in any discipline from a recognized University and a minimum of 50% marks in aggregate.
	M Sc in Dietetics & Applied Nutrition	Candidates must have a bachelor's degree from a recognized university in Home Science / Nutrition / Dietetics/ Food science/Biology/Microbiology/Clinical Biochemistry/ Life Sciences or BNYS(Naturopathy) or BAMS (Ayurveda) or PG Diploma in Dietetics with a minimum of 50% marks in aggregate.
Department of European Studies, Manipal	Dual-degree Masters Program in European Studies and Management	The candidate must have passed bachelors degree in any discipline from a recognized university with a minimum of 50% marks in aggregate.
Department of Virus Research, Manipal	M Sc Clinical Virology	The candidates must have passed Bachelors degree in Life Sciences or BV Sc or B Sc Medical Laboratory Technology or MBBS or B Sc Biotechnology or B Sc Microbiology/Biochemistry/Zoology or any other related subjects preferably above 60% marks in aggregate or CGPA 6.5 at UG level. Training in human anatomy and physiology or experience in Virology/Clinical laboratory/Research will be given preference.
Department of Philosophy & Humanities, Manipal	MA in Philosophy	The candidate must have passed bachelors degree in any discipline from a recognized university with a minimum of 55% marks in aggregate.
	MA in English	
	MA in Sociology	
	Integrated MA - PhD	
Department of Library &	Certificate Course in Library and	Pass in 10+2, A Level, IB, American 12th grade or equivalent with any Science / Arts /

Information Science, Manipal	Information Science	Commerce group.
	M Sc Library and Information Science	The candidate must have a bachelors degree in B.A/B.Com/B.Sc/B.C.A/B.B.M etc.
	M Sc Library and Information Science (Lateral Entry)	The candidate who have a Bachelor's degree in Library and Information Science (B.L.I.Sc.; one year).

प्रज्ञानं ब्रह्म



INSPIRED BY LIFE

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