Welcome



WELCOME TO THE











A.C. Shanmugam B.A., LLB A.C.S.Arunkumar B.Tech(Hons), MBA
Chairman
Vice Chairman

MISSION AND VISION OF OUR FOUNDER CHAIRMAN

"All our dreams can come true

If we have the courage to pursue them!"

So young citizens,

Embrace your profession with sincerity, try to search the heart of others!

Plant a seed of hope in the barren lives of the downtrodden!

Let's join hands and be partners in progress!

Let there be progress with vision!

Let there be progress with innovation!

JAI HIND!



WELCOME DEPARTMENT OF PATHOLOGY



TO-WARDS ACHIEVING EXCELLENCE



HISTORY OF OUR DEPARTMENT

Our college started in 2005 and Department started in the year 2006.

Postgraduate course started in 2011

Our Blood Bank started in the year 2004 with a valid license up to 2014. The license for component therapy received in year 2011



Vision

- To provide students with a comprehensive knowledge of the mechanisms and effects of disease process.
- To facilitate patient care by optimizing accurate diagnostic tests for management and prevention of diseases



Mission

- To facilitate prompt and effective prevention, cure and treatment by providing quality investigative facilities in shortest time
- To enhance the knowledge acquisition process for UG's and PG's and provide a scientific platform to progress with advancing technology.
- To promote continuous learning amongst faculty.



OVERVIEW

- The Department of Pathology imparts theoretical and practical training to the II MBBS and post graduate students. It teaches the students in the performing of basic investigation procedures and the tests.
- Pathology is the backbone of clinical medicine.
- The department has two wings, one in college and the other for hospital services.
- The undergraduate theory classes and practicals are held in the college building.



OBJECTIVES

- To train the undergraduate and postgraduates medical students, dental students as per the RGUHS university guidelines.
- To train DMLT and nursing students as per their curriculum
- To encourage the staff to update the recent concepts and engage in research activities.
- To conduct tutorials & seminars for graduate students.
- To conduct seminars, guest lectures and CME to impart the interdisciplinary nature of pathology.
- The department of pathology has adequate facilities and accommodation in all the lecture halls and is actively involved in teaching, diagnostic, transfusion medicine and research activities.
- We are committed to being a leader in education, training, patient care and research



PROGRAMMES OFFERED

- MBBS
- M.D (Pathology)
- B.D.S.
- NURSING
- D.M.L.T

Program-wise Student Teacher Ratio

- UG program-1:30,(Teachers-07,Students-213)
- PG Program -1:2, (Teachers 07, Students-13)



HEAD OF DEPARTMENT





FACULTY

- It has qualified ,highly efficient, experienced and dedicated staff as per norm of MCI
- Professors-6
- Associate professor-1
- Assistant professors -3-
- Blood bank officer-1
- Tutors-13
- Technicians-23(including blood bank)



Faculty profile - adequacy and competency of faculty

Name	Sex	Designation	Qualification	Approved Guide Y/N	STATE	PT/ FT	PhD/
Dr.T. Rajaram	Male	Professor & HOD	M.D Pathology	Yes	Karnataka	FT	Nil
Dr. H. Rangappa	Male	Professor & Dean	M.D Pathology	Yes	Karnataka	FT	Nil
Dr. Usha Ramchandra	Female	Professor & Principal	M.D Pathology	Yes	Karnataka	FT	Nil
Dr. Sharmila.S.P	Female	Professor	M.D Pathology	Yes	Karnataka	FT	Nil
Dr. Mahanthachar.V	Male	Professor	M.D Pathology	Yes	Karnataka	FT	Nil
Dr. Jyothi A Raj	Female	Professor	M.D Pathology	No	Karnataka	FT	Nil
Dr. Sushma.T.A	Female	Assoc. Prof	M.D Pathology	No	Karnataka	FT	Nil
Dr. K.Shashikala	Female	Asst. Prof	M.D Pathology	No	Karnataka	FT	Nil
Dr. S.Shwetha Jayker	Female	Asst. Prof	M.D Pathology	No	Karnataka	FT	Nil
Dr. Latha.V	Female	Blood Bank Officer	DCP Pathology	No	Karnataka	FT	Nil



FACULTY



FACULTY





Name	Sex	Designation	Qualification	Teaching experience
Dr. Nikitha	Female	Tutor	M.B.B.S	2yrs 5 months
Dr. H. Mitika	Female	Tutor	M.B.B.S	2yrs 5 months
Dr. Ankur Gupta	Male	Tutor	M.B.B.S	1yrs
Dr. Paul Francis MF	Male	Tutor	M.B.B.S	1yrs
Dr. Dawal Prajapati	Male	Tutor	M.B.B.S	1yrs
Dr. Amith Baru	Male	Tutor	M.B.B.S	1yrs
Dr. Jeena Jones	Female	Tutor	M.B.B.S	1yrs
Dr. Reshma	Female	Tutor	M.B.B.S	2yrs
Dr. Padmavathi	Female	Tutor	M.B.B.S	6 months
Dr.Radhika	Female	Tutor	M.B.B.S	6 months
Dr. Kanu Priya	Female	Tutor	M.B.B.S	6 months
Dr .Nithun Reddy	Male	Tutor	M.B.B.S	6 months
Dr.Ramya	Female	Tutor	M.B.B.S	6 months

TUTORS





Faculty serving in National committees/ International committees / Editorial Boards / any other

- Member of IAPM (Indian Association of Pathologists & Microbiologists)
- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore
- Member of IMSA (International Medical Sciences Academy)
- Member of KCIAPM, Bangalore
- Member of Academic Council of Rajiv Gandhi University of Health Sciences



Faculty serving in National committees/ International committees /Editorial Boards / any other

Dr.T. Rajaram

- Member of IAPM (Indian Association of Pathologists & Microbiologists)
- Member of Academy of Pathology, Bangalore

Dr. H. Rangappa

- Member of IAPM (Indian Association of Pathologists & Microbiologists)
- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore

Dr. Usha Ramchandra

- Member of Academic Council of Rajiv Gandhi University of Health Sciences
- Member of IAPM (Indian Association of Pathologists & Microbiologists)
- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore
- Member of IMSA (International Medical Sciences Academy)



Dr. Sharmila.P.S

- Member of IAPM (Indian Association of Pathologists Microbiologists)
- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore
- Member of IMSA (International Medical Sciences Academy)
- Member of KCIAPM, Bangalore

Dr. Mahanthachar

- Member of IAPM (Indian Association of Pathologists & Microbiologists)
- Member of Academy of Pathology, Bangalore
- Member of KCIAPM, Bangalore

Dr. Jyothi A Raj

- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore
- Member of KCIAPM, Bangalore
- •Member of IMSA (International Medical Sciences Academy)



Dr. Sushma.T.A

- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore
- Member of KCIAPM, Bangalore

Dr. K.Shashikala

- Member of IAPM (Indian Association of Pathologists & Microbiologists)
- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore

Dr. S.Shwetha Jayker

- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore
- -Member of KCIAPM, Bangalore

Dr. Latha.V

- Member of IMA (Indian Medical Association)
- Member of Academy of Pathology, Bangalore
- Member of KCIAPM, Bangalore



NON TEACHING STAFF

- Sathish.N.T
- Paramesh.T
- Sathish.S.H
- Sandana Mary
- Vijayalakshmi.J
- Jyothilakshmi.N
- G.V.Paramesh
- Bhakyaraj

Vani Bai

- Kamala.L.
- Jomy John
- Manasa
- Sunitha
- Shivram
- Santosh
- Vikas
- Husna Banu
- Mahadevamma

Store keepers

Vijay kumar B N

Steno Typist

Kamala

Raju

Record Clerk

Vijay

Attenders

Mohseen Taj

Jayamma

AnjanKumar



NON TEACHING STAFF





DEPARTMENT INFRASTRUCTURE





OFFICE ACCOMMODATION

Room	Sq.mtr.	NO.
Departmental office	12	I
HOD	18	I
Professor	18	4
Associate Professor/Reader	15	l
Assistant Professor/Lecturer	15	2
Tutors	15	I

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Facility	No.	Size (Sqft)	Seating Capacity	
Seminar Room cum library	01	706	45	
Lecture halls	01	980	150	
Class rooms with ICT facility and 'smart' class rooms (Demo Rooms)	03	740	70	
Students' laboratories	02	4560	60	
Research laboratories	01	700		
Audiovisual Aids	OHP, LCD projector, Trinoccular and Pentahead microscopes for demonstration			



Department Office room

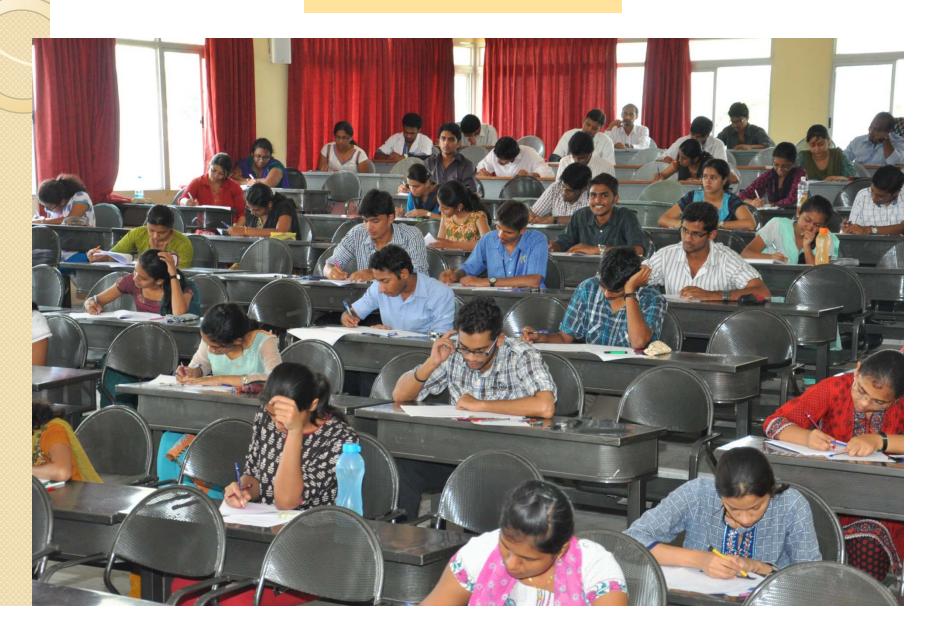




Space details

- Practical hall college -375+375sqms
- Demonstration Rooms- 2X90 sqms
- Dept. Library -50sqms
- Research Lab-65sqms
- Museum-150 sqms
- Preparation Room-13 sqms
- Hospital Clinical Laboratory -300 sqms
- Faculty Rooms -200sqmeter.
- Office-25 sqms
- Store-12 sqms

LECTURE HALL





Seminar Hall





Practical hall



PRACTICAL HALL













DEMOSTRATION ROOM





Slide Discussion with Penta Head microscope







Trinoccular Microscope







DEPARTMENTAL MUSEUM

Total al number of Specimens	780
Number of -catalogues of	15
specimens-systemwise	

DEPARTMENTAL MUSEUM





Museum Specimens

Space	
Total number of Specimens	780
Number of Catalogues of Specimens- System wise	15
Mounted	404
Wet	296
Donated to other departments	70
Number of Microscopes in Museum	06



NUMBER OF SPECIMENS – SYSTEM WISE

Sl.No	SYSTEM	No. of Specimens
1.	Female Genital System	78
2.	Gastro Intestinal System	61
3.	Feto-placental Anomalies	30
4.	Lympho Reticular System	24
5.	Endocrines	23
6.	Breast Pathology	20
7.	Dermatopathology and soft	24
	tissue	
8.	Urinary System	19



9.	Hepato Biliary System	17
10.	Head and Neck Pathology	14
11.	Male Genital System	15
12.	Cardio Vascular System	07
13.	Musculo Skeletal System	09
14.	Nervous System and Ocular	03
	Pathology	
15.	Respiratory System	02









LIBRARY- THE Hub of Knowledge





DEPARTMENTAL LIBRARY

Size of the Library - 706 sqft Pathology & allied books – 168

Department library has books for the use of staff & post graduate students.



CENTRAL LIBRARY

Total number of books - 12849

Total number of Pathology books - 622

Total number of Titles - 176

Total number of Indian Journals - 67

Total number of Indian Journals of Pathology - 04

Total number of Foreign Journals - 63

Total number of Foreign Journals of Pathology - 02

Total number of E-journals related to Pathology- 08

Access through HELINET facility is available.



NATIONAL & INTERNATIONAL JOURNALS

Sl.No	National / International	Name of the Journal	Issues per year
1	International	Acta Cytologica	6
2	International	Archives of Pathology and	12
		Laboratory Medicine	
3	National	Indian Journal of Cancer	4
4	National	Asian Journal of Transfusion	2
		Science	
5	National	Indian Journal of Cytology	4
6	National	Indian Journal of Hematology	4
		and Blood Transfusion	

Departmental Library







Departmental Research Laboratory

- Trinocular Microscope
- Electrophoresis Equipment
- Immunohistochemistry Equipment



SERUM/HB ELECTROPHORESIS EQUIPMENT





IMMUNOHISTOCHEMISTRY EQUIPMENT





DEPARTMENTAL RESEARCH LABORATORY

Sl. No.	Name of the Equipment	Number Present
1.	Trinocular Microscope	01 Nos
2.	Electrophoresis Equipment	01 Nos
3.	Immunohistochemistry Equipment	01 Nos



LIST SERVICES OFFERED BY THE DEPARTMENT OF PATHOLOGY

1. Histopathology:

a. Biopsy: Incisional

Excisional

a. Frozen Section

2. Cytology:

i. FNAC: Palpable masses

Non-palpable masses, under image guidance

- ii. Pap Smear
- iii.Body Fluid Cytology
- iv. Imprint cytology

3. Clinical Pathology & Haematology:

a. Haematology

CBC, Hb, TC, DC, ESR, Reticulocyte count, Platelet count.

Peripheral smear,

Bone marrow and biopsy

PT, APTT

- b. Urine analysis: Routine, Bile Salts, Bile Pigments, Ketone bodies
- c. Semen analysis
- d. Stool for Occult blood
- 4. **Blood bank:** whole blood and components- PRBC, platelets, FFP, Cryoprecipitate



Hospital laboratory





HAEMATOLOGY SECTION

- Sysmex automated Hematology analyser
- Agappe 3,000plus auto hematology analyser
- Nihon- kohden auto hematology analyser and other accessories
- Accustar (accu esr 30 ts) automated ESR analyser
- Act 4 Accustar coagulometer



SYSMEX AUTO LOAD HAEMATOLOGY ANALYZER





Nihon- kohden hematology analyzer

Agappe hematology analyzer





Automated ESR machine-Roller 20





HEMATOLOGY

1.	Sysmex automated Hematology analyser with printer	1
2.	Agappe – 3,000plus auto hematalogy analyser	1
3.	Nihon- kohden with h-p laser printer and other accessories	1
4.	Ups - 3kva with external batteries	2
5.	Computer with moniter – Samsung & Acer	2
6.	Laser printer – hp laser jet 1020 & 1007	2
7.	Incubator	1
8.	Centrifuge (remi)	1
9.	Accustar (accu esr 30 ts) automated esr analyser	1
10.	Act – 4 accustar coagulometer	1
11.	Sahli's hemoglobinometer	2
12.	Neubauer's chamber	1
13.	Wintrobe tube (glass)	2
14.	Wintrobe stand (steel)	1
15.	ESR disposable tube stand	1
16.	Micropipette- 5 – 50 microlitre	
17.	100 – 1000 microlitre	



18. Borosil glass 1ml pipette	1	
19. Hemoglobin tube	1	
20. Wbc pipette	1	
21. Rbc pipette	1	
22. Blood cell counter with keys	2	
23. SD urometer 120	1	
24. Multi thermometer with probe for		
refrigerator	1	
25. Microscopes (monocular)		
27 Whirlpool refrigerator – 165 litre capacity	1	
28 Stabilizer for refrigerator	1	



HISTOPATHOLOGY

•	Leica semiautomated microtome	1
•	Leica automated tissue processor	1
•	Yorco rotary microtome – Automated	2
•	Yorco rotary microtome – Manual	2
•	Automated tissue processor (Yorco)	1
•	Cryostat microtome automated(Yorco)	1



Modern new equipments

HISTOPATHOLOGY SECTION

Automated Tissue Processor (Leica)

Automated Microtome (Leica)







Automated microtome (YORCO)





CRYOSTAT (YORCO)



HISTOPATHOLOGY

	NAME OF EQUIPMENT	NO.
1.	Leica semiautomated microtome	1
1.	Leica automated tissue processor	1
1.	Yorco rotary microtome - automated	2
1.	2. Yorco rotary microtome – manual	1
2.	tissue capsules (steel)	50
1. 1.	Aluminium slide carriers – large size small size a) Micro slide cabinet (5,000 capacity) b) Micro Slide cabinet (20,000 capacity)	5 1 1 2
1.	Paraffin block cabinet (20,000)	2
1.	Automated tissue procesor (yorco)	1
1.	Cryostat microtome automated(yorco)	1
1.	Monocular microscope (issued from college)	3



CYTOLOGY

CENTRIFUGE

CYTOSPIN







CYTOLOGY

	EQUIPMENT	NO.	
•	MICRO SLIDE CABINET (20000 CAPACITY)	1	
	• 2. MICROSLIDE CABINET (5000 CAPACITY)	1	
•	• 3. FNAC GUN		1
•	• 4. TEST TUBE RACKS (PLASTIC)	1	
•	COPLIN JARS	17	
•	FORCEPS	1	
•	HEMOCYTOMETER	1	
•	SYRINGE & NEDDLE DESTROYER	1	
•	HOT AIR OVEN	1	
6.	CYTOCENTRIFUGE	1	



GROSSING ROOM

1. SCISSORS	3
2. MEASURING SCALE	1
3. FORCEPS	2
4. SCALPELS	2
5. BRAIN CUTTING KNIFE	1
6. SMALL KNIVES	2
7. HAMMER	1
8. BONE CUTTING SAW	1
9. PROBE	
10. WEIGHING SCALE	1



COLLECTION CENTRE

EQUIPMENTS	NO.
1. SYRINGE NEEDLE DESTROYER	3
2. MEASURING SCALE	1
3. PLASTIC TEST TUBE HOLDER	1

REPORTING ROOM

MICROSCOPES NO.

1. BINOCULAR MICROSCOPES	7
2. TRINOCULAR MICROSCOPE WITH LCD PROJECTOR ATTCHMENT	1
3. TRINOCULAR MICROSCOPE WITH MICROPHOTOGRAPHIC	
ATTACHMENT	1
4. PENTAHEAD MICROSCOPE	1



Reporting Room





PENTAHEAD MICROSCOPE





PENTAHEAD MICROSCOPE



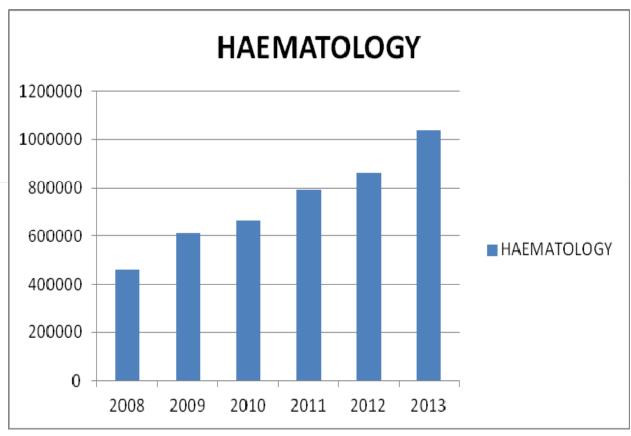
PATHOLOGY LABORATORY STATISTICS 5 YEARS NO. OF INVESTIGATION



Sl.No.		2008	2009	2010	2011	2012	2013	Total
1	HAEMATOLOGY	457838	611558	666550	791335	863124	1039991	4430396
2	HISTOPATHOLOGY	1229	1768	4098	4053	4686	5550	21384
3	CYTOPATHOLOGY	1397	2712	5088	6083	6199	7429	28908
	TOTAL	460464	616038	675736	801471	874009	1052970	4480688

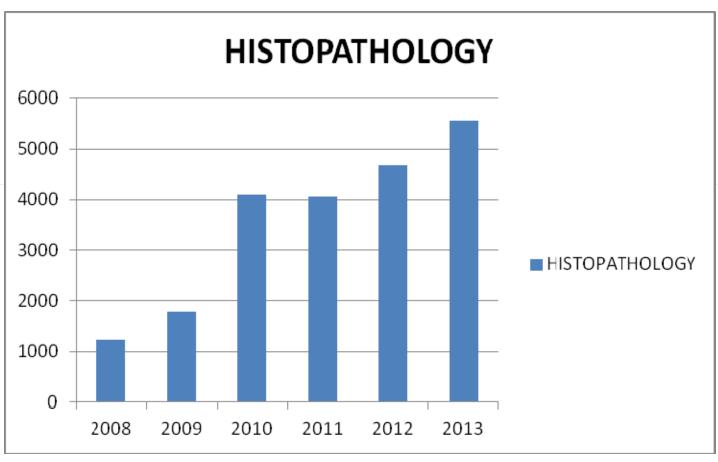
HAEMATOLOGY





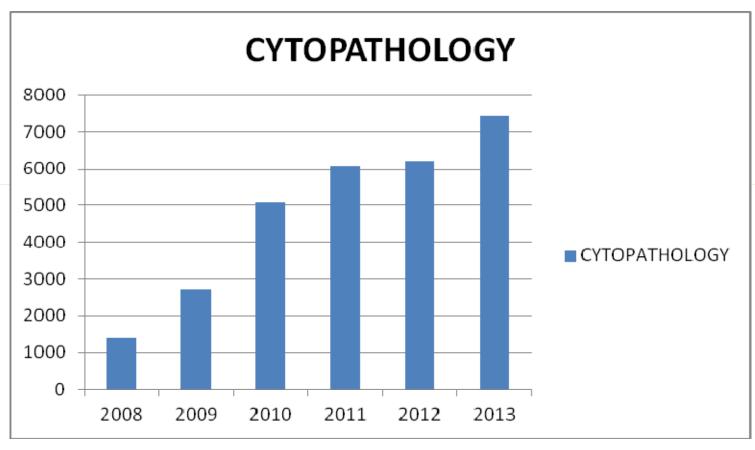
HISTOPATHOLOGY





CYTOPATHOLOGY









The R.R.M.C.H Blood Bank was a pioneering step in the direction of advanced and precise medical care, when it was started in 2004.

The Blood Bank officer is Dr. Latha who has established the Blood Bank as per the FDA rules

Our Blood Bank started in the year 2004 with a valid license upto 2014.

We have been licensed to have a full fledged functional Component Preparation .

Our blood bank provides 24 hour services



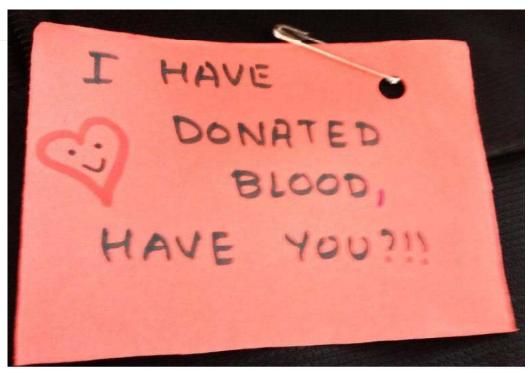






Blood Bank





Kushal Gevaria



Blood Bank-Products available

- •Whole Blood
- •PRBC
- •Platelet concentrate.
- Cryoprecipitate
- •FFPs



Blood Bank- Screening tests

- •HIV I and II, HbsAg, VDRL, Malaria Ag, HCV,
- •Cell and Serum grouping
- Cross Matching,
- Atypical antibody screening
- •Direct and Indirect Antiglobulin test
- Transfusion Reaction workup

Blood Bank Staff



Blood donation camp



Blood and Component storage



Component separator



Blood Storage Cabinet





Platelet incubator & agitator



Plasma cell separator

Plasma freezer (-40 c)



Plasma freezer (-80 c)



Cryo bath

Elisa Reader & Washer







Products available:

- Whole blood,
- PRBC,
- Platelet concentrate,
- cryoprecipitate
- FFPs.

Screening tests

- HIV I and II
- HbsAg.
- VDRL, for
- Malaria Ag
- HCV
- Cell and Serum grouping
- Cross Matching
- Atypical antibody screening
- Direct and Indirect Antiglobulin test
- Transfusion Reaction workups are being done on a regular basis



LIST OF STAFF IN BLOOD BANK

Sl.No	NAME	DESIGNATION
1	Dr. Latha.V	Blood Bank Officer
2	Dr. Jyothi.A.Raj	Blood Bank Officer
3		
4	Mr. Kumar.S	Technical Supervisor
5	Mr. Shivakumar.N	Technologist
6	Ms. Manjula.S	Technologist
7	Mr. Dilip Kumar.L	Technologist
8	Mr. Ashok Kumar.A	Technologist
9	Ms. Renukamma	Reg.Staff Nurse
10	Ms. Shwetha.H	Reg. Staff Nurse



LIST OF BLOOD BANK EQUIPMENTS

Sl.No	Manufactured	Catlogue No		Sl.No		Quantity
	1. Terumo Penpol 2.	1. D601	2.	1. 12061154	2.	•
1	Terumo Penpol	D601	۷.	12061154	۷.	2 No
	Terumo rempor	1.BR 280 SR 1/40		1. BDI-3087	2.	
3	Remi Equipments Pvt Ltd	2.BR-70SR 11/10		BDI-3086	3. BDI-	3 No
		with stabilizer		1669		
4	Remi Equipments Pvt Ltd	PDV 90D, 11/10 TSB02, 5/10		BDI-1684	S) VS 05	1 No
5	Remi Equipments Pvt Ltd	RPFV-130, 11/10		BDI - 1670		1 No
3	Reini Equipments PVt Ltd	S) VS 02		SB 2248		1 NO
7	Remi Equipments Pvt Ltd	P1-105 03, 11/10	VS	RIS-541	SBI1623	1 No
		·		1HC-1609	SB-	
8	Remi Equipments Pvt Ltd	CB-704, 12/10	VS-03	1621		1 No
9	Remi Equipments Pvt Ltd	4R4414		1209177		1 No
10	Remi Equipments Pvt Ltd	KBM 70 plus 12/10		VCCE-2912		1 No
		VS-06		TSB-02		
11	Alpha Linear					1 No
12	AXPERT			10g-5kg		1 No
13	Tulip Group	451114015FSE				1 No
14	Tulip group	591118011E3AZ				1 No
15						1 No
16	Lab Line	PCB No 75/1206		809		1 No
	1. Adelta Optec: Binocular					
17	2. Olympus					2 No
10	(Ch2Oi):Binocular	MIN OD/F				4 N
18	The Oriental	Md-No-OB/5				1No
19	1. Electrolux 2. Videocon	Md.No.VAP 243/2		180liters	235 liters	2 No
20	Remi Equipments	RS 12E 9/03		IXCM 1428		1 No
21	Techno Scientific Product					1 No



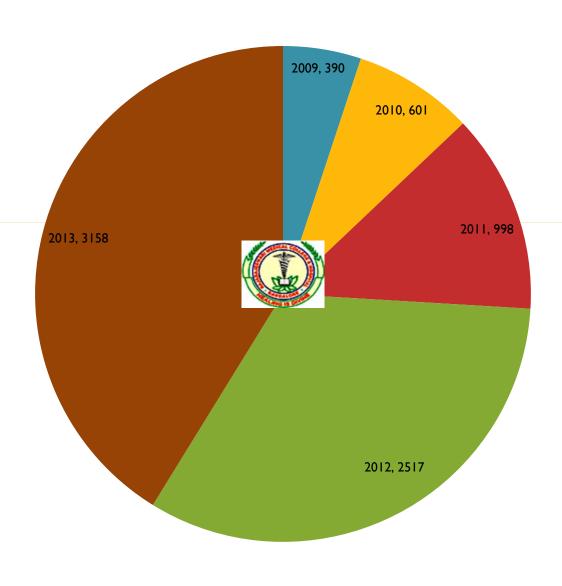
Sl.No	List of Instruments	Manufactured	Catlogue No	Sl.No	Quantity
22	Incubator with digital thermo control	Techno sceintific product			1 No
23	Autoclave	Single drum			1 No
24	Needle destroyer	DESTRO Confident dental Equip Ltd			1 No
25	BP apparatus (mercury type)	1. Diamond-2 2. Life line -1 3. Elkometer-1	160 Oct-10 120 Oct 10 206952	00587 49419	4 No
26	Weighing device for blood bags	Docble Braun			1 No
27	Donor Weighing scale	Tanita	HA622	871222	1 No
28	Oxygen Cylinder	B type			1 No
29	Photocolorimeter digital (Hb)	Labtronic	Mod No-12		1 No
30	Air conditioner	1. Panasonic-3 2. Intello air-1 3. I general-1 4. LG Buss -1 5. Sanyo-1			7 No
31	Sahlis Hb colorimeter	Marienfeld			3 No
32	Stethescope	1.Poiner 2.Life line	Silver CE		2 No
33	Pipettes various size	100-1000µl 5- 50µl 50µl 1000µl	1 2 1 1		5 No
34	Hand lense				1 No
35	Insulated container		transporting blood		1 No
36	Timer (Stop watch)	KADIO	1.KD 2015 2. KD 6128		2 No
37	Thermometer				
1. Clinical-1 2. Digital-1 3. Room temp-1 4. Dial Thermo-3	1. Hvcer-1 2. BIOCRAFT-2		6 No		
38	Rh veiw box				1 No
39	Centrifuge	Remi Equipments Pvt Ltd		Remi R8C-1 (16buckets) Mico(4 Buckets) Remi(8Buckets)	3 No
40	UPS	On line - 1 Wep-2	3 KVA 600VAECO		3 No
41	Printer	HP laserjet	P1007		1 No
42	Computer Keyboard CPU	Zenith Pleomax/Samsung corporation zenith			1 No
43	Electric Stove	HRC, Hakso Electro control			1 No



Blood Bank Statistics

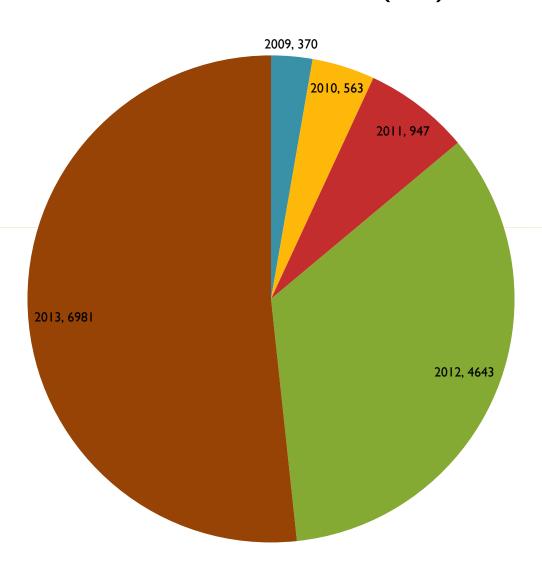


Collection From 2009 to 2013(Nov)



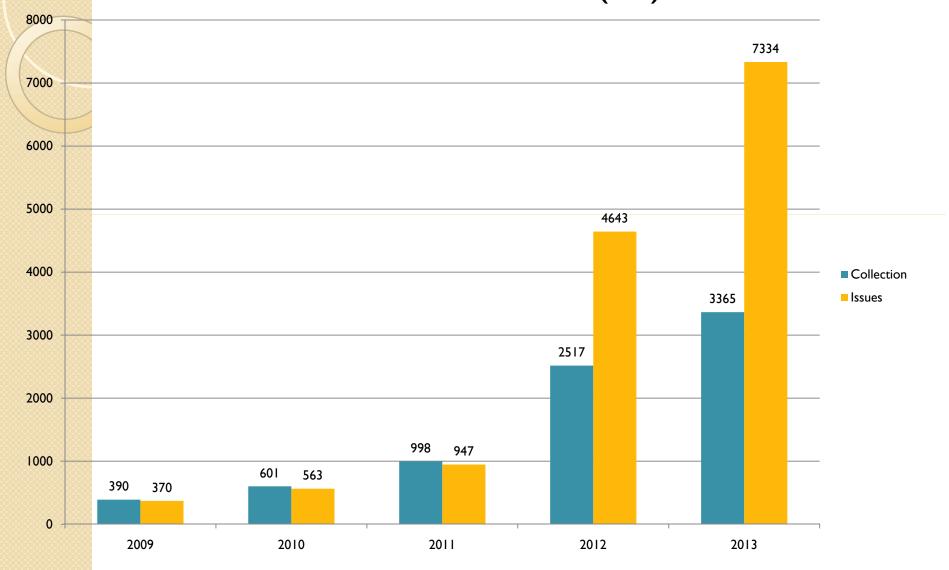


Issues From 2009 to 2013(Nov)

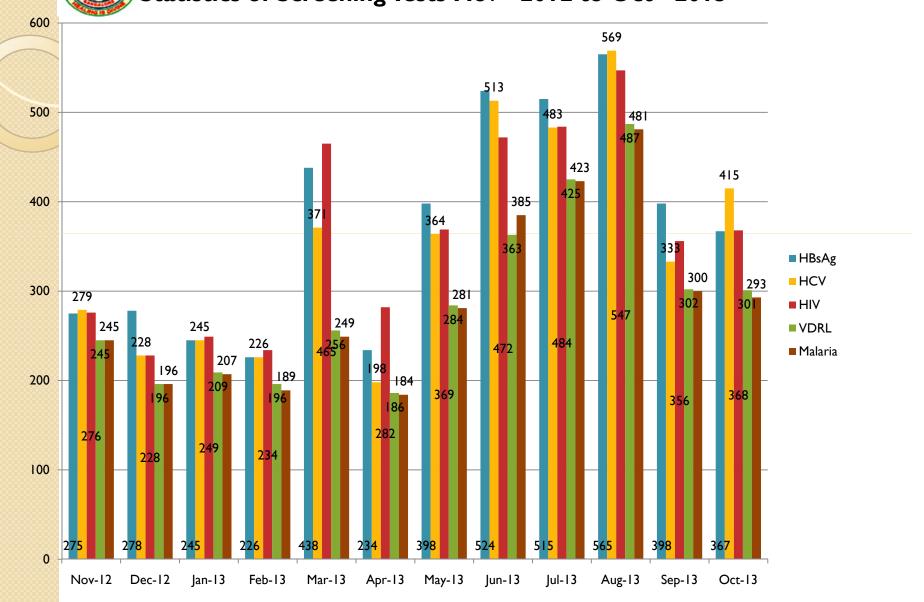




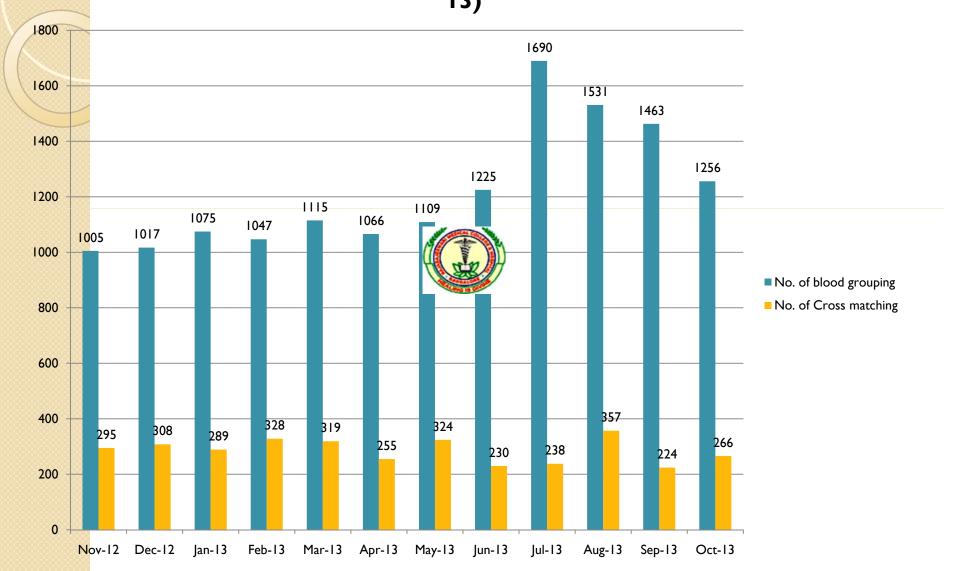
Statistics From 2009 to 2013 (Oct)





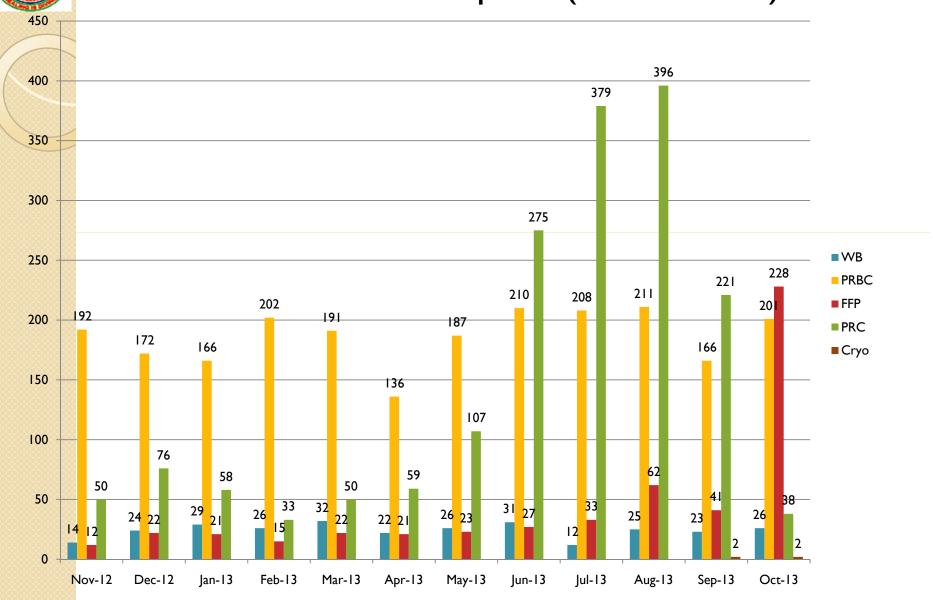


Statistics Of Blood grouping & Cross matching(Nov-12 to Oct-13)





Statistics of Issue of Blood Components(Nov 12 to Oct 13)







TEACHING LEARNING METHODS



CURRICULUM/SYLLABUS

 The curriculum is as per the RGUHS directive and meets the requirements of Medical Council of India for II MBBS.

 Apart from Lectures, Practicals & Demonstrations in the subject by the faculty, the undergraduate programmes include tutorials and seminars involving active student participation.

 The theory classes take up 120 hrs. for lectures and practical classes take 144 hrs. for 72 sessions of two hours each.



Teaching Programme Under Graduate

- Iyear6months-III,IV,V Term
- Lectures in well equipped lecture hall with LCD facility
- Feedback from students
- Revision lectures, Tutorials
- Small batches for practicals

- Well established museum with illustrated photographs and microphotographs and catalogues
- Student seminars
- Integrated teaching
- Problem based learning
- Student research projects



Teaching Programme Post Graduate

- MD: 6 Semesters, 3 yrs.
- Subject wise rotation
 Hematology, Histopathology ,
 FNAC, bloodbanking, Autopsy, Clinical
 Pathology
- Reporting of FNAC, Haematology and Histopathology slides
- UG practical briefing
- Assisting the staff in research work
- Grossing of tissues



TRAINING PROGRAMME FOR POST-GRADUATES(contd)

- •Seminars and Journal clubs are conducted once a week
- practical work will be in allotted section.
- •PGs will participate in CPCs, Clinical Meetings, Morbidity & Mortality Meetings & CMEs Which are Centrally organized.
- Biopsy Review and gross discussion
- •Review of Dissertation every six months
- •Six monthly Internal Assessment –Theory and Practical



Interdisciplinary programs and departments involved

• PG Students are posted on rotation for 15 days to other departments like Biochemistry, Microbiology, Forensic Medicine.

Courses in collaboration with other universities, industries, foreign institutions

- P.G Students are posted to following institutions on rotation for 15 days duration.
- NIMHANS National Institute of Mental Health & Neurosciences, Bangalore – For Neuropathology Training.
- Kidwai Memorial Institute of Oncology Bangalore For Oncopathology Training



Participation of the department in the courses offered by other departments

- P.G students of following departments are posted to this department on rotation basis for 15 days duration,
- Physiology
- Forensic Medicine
- Microbiology



List the teaching methods adopted by the faculty for different programmes including clinical teaching.

- PPT Power Point Presentation
- OHP
- Black Board
- Museum
- Charts
- Practicals.

Periodic Internal Assessment

- Slide seminars
- Case discussions
- Clinico-pathological correlation
- Internal assessement exams every 6months
- Subject seminars
- Journal club



Dept. of Pathology THEORY Teaching Schedule for MBBS Phase-II(Regular Batch) 90 Students 2013-2014 (III Term to V Term)

Venue	Topic	Teacher	No of Hours	
Lecturer Hall-IV	Introduction to Pathology/ Neoplasia/ Renal system	Dr. T.Rajaram	1+8+8	
-do-	Inflammation, Healing & Repair/ CVS	Dr. Sharmila.S.P	8+8	
-do-	Cell Injury/ Cellular adaptations/ Genetics/ Muscular Skeletal system/MGT	Dr. V.Mahanthachar	6+4+4+4	
-do-	Circulatory disturbances/GIT/Hepatobiliary System	Dr.Jyothi A Raj	6+8+4	
-do-	Immunopathology/ Endocrines/ Beeding disorders	Dr. Sushma.T.A	6+4+4	
-do-	WBC disorders/ Female reproductive system/ Breast	Dr. Shashikala.K	4+6+4	
-do-	RBC disorders/Respiratory system/ Lymphoreticular system	Dr. Shwetha.S.J	8+6+2	
-do-	Blood banking techniques	Dr. Latha.V	2	
-do-	FNAC & CSF analysis	Dr. Mithka & Dr. Nikitha	1+1	
-do-	Ocular pathology & Bone Marrow	Dr. Dhawal P & Ankur Gupta	1+1	
-do-	Semen Analysis & Dermatopathology	Dr. Jeena John & Dr. Paul M.F	1+2	
-do-	CNS & Exfolitaive cytology & PAP	Dr. Amit & Dr. Reshma A	4	



Dept. of Pathology-UG

Practical Time Table for MBBS Phase-II for (Regular Batch) 2013-2014 (III Term) 90 students

Date	Day	Topic	Teacher	Batch
1/10/2013	Tuesday	Sample collection & Anticoagulants	Dr.Shashikala.K	I
			Dr.Ankur Gupta	
9/10/2013	Wednesday	Sample collection & Anticoagulants	Dr.Shashikala.K	II
			Dr.Jeena John	
8/10/2013	Tuesday	Study of Formed elements of blood	Dr.Shashikala.K	I
			Dr.Paul.M.F	
23/10/2013	Wednesday	Study of Formed elements of blood	Dr.Shashikala.K	II
			Dr.Amit Bharu	
15/10/2013	Tuesday	Hemoglobin estimation	Dr.Sushma.T.A	I
			Dr.Dhawal.P	
30/10/2013	Wednesday	Hemoglobin estimation	Dr.Sushma.T.A	II
			Dr.Padmavathi	
22/10/2013	Tuesday	Blood group determination	Dr.Latha.V	I
			Dr.Kannupriya	
6/11/2013	Wednesday	Blood group determination	Dr.Latha.V	II
			Dr.Ramya.R	
29/10/2013	Tuesday	ESR & PCV estimation	Dr.Latha.V	I
		Reticulocyte count, Blood indices; LE cell	Dr.Reshma.A	
13/11/2013	Wednesday	ESR & PCV estimation	Dr.Latha.V	II
		Reticulocyte count, Blood indices; LE cell	Dr.Nithun C	
5/11/2013	Tuesday	Preparation of Peripheral blood smear &	Dr.Sushma.T.A	I
		Differential leucocyte count estimate	Dr.Radhika	
27/11/2013	Wednesday	Preparation of Peripheral blood smear &	Dr.Sushma.T.A	II
		Differential leucocyte count estimate	Dr.Ankur Gupta	



Rajarajeswari Medical College & Hospital, Bangalore Dept. of Pathology II MBBS V term, 76 students (Regular batch) PRACTICALS &REVISION

Days	Date	Hours	Topic	Faculty
Monday	3/9/2012	2-4 PM	Hematology charts	Dr.Jyothi A Raj
			Clinical Pathology charts	Dr. Sushma T.A
Friday	7/9/2012	2-4 PM	Hematology charts	Dr.Jyothi A Raj
			Clinical Pathology charts	Dr. Sushma T.A
Monday	10/9/2012	2-4 PM	Cytology charts	Dr. S.P.Sharmila
			Instruments	Dr.T.Rajaram
Friday	14/9/2012	2-4 PM	Cytology charts	Dr. S.P.Sharmila
			Instruments	Dr.T.Rajaram
			Specimen class and Relevan	
Monday	17/9/2012	2-4 PM	General Pathology, Bone and Joints	Dr.V.Mahanthachar
				Dr.Nikita, Dr.Paul
Friday	21/9/2012	2-4 PM	General Pathology, Bone and Joints	Dr.V.Mahanthachar
				Dr.Nikita, Dr.Paul
Monday	24/9/2012	2-4 PM	Female genital tract, Male genital	Dr.Sharmila.S.P,
			tract, Breast	Dr.Mitika, Dr.Dhawal
Friday	28/9/2012	2-4 PM	Female genital tract, Male genital	Dr.Sharmila.S.P,
			tract, Breast	Dr.Mitika, Dr.Dhawal
Monday	1/10/2012	2-4 PM	GIT and Hepatobiliary system	Dr.Jyothi.A,
				Dr.Shwetha,Dr.Jeena
Friday	5/10/2012	2-4 PM	GIT and Hepatobiliary system	Dr.Jyothi.A,
				Dr.Shwetha,Dr.Jeena
Monday	8/10/2012	2-4 PM	CVS and Renal system	Dr.T.Rajaram,
				Dr.Shashikala,Dr.Ankur
Friday	12/10/2012	2-4 PM	CVS and Renal system	Dr.T.Rajaram,
				Dr.Shashikala,Dr.Ankur
Friday	19/10/2012	2-4 PM	Lymphoreticular system,	Dr.V.Mahanthachar,
			Endocrines, Dermato pathology	Dr.Shwetha, Dr.Paul
Monday	22/10/2012	2-4 PM	Lymphoreticular system,	Dr.V.Mahanthachar,
			Endocrines, Dermato pathology	Dr.Shwetha, Dr.Paul



Торіс	Teacher
Atherosclerosis Monckeberg's sclerosis Myocardial infarction	Dr.Jyothi.A Raj
Lobar Pneumonia Fibroadenoma Breast Carcinoma Breast	Dr.Latha.V
Hashimoto's Thyroiditis Multinodular Goitre Papillary carcinoma	Dr.Shreedhar Murthy
Chronic Gastric Ulcer Carcinoma of Stomach Adenocarcinoma of Intestine Tuberculosis Intestine	Dr.Sushma.T.A
Fatty Liver CVC Liver Cirrhosis of Liver	Dr. Hemamalini.J
Chronic Glomerulonephritis Pyelonephritis Renal Cell Carcinoma Wilm's Tumor	Dr.Naresh Babu
Carcinoma Penis B.P.H Seminoma Testis Transitional Cell Carcinoma	Dr.Jagadeesha.M
Cystoglandular Hyperplasia Secretory Phase- Endometrium Proliferative Phase- Endometrium Leiomyoma	Dr.Latha.V
Hydatidiform Mole Mucinous Cystadenoma Serous Cystadenoma Benign Cystic Teratoma Villous Adenoma	Dr.Shweta
Osteochondroma Osteoclastoma Osteosarcoma BCC	Dr.shashikala



PROBLEM BASED LEARNING

- Sickle cell anemia
- Multiple myeloma
- Pleural fluid Positive for Malignant cells (Adenocarcinoma)
- PAP Smear vaginal smear positive for malignant cells (Carcinoma cervix)
- FNAC Lymph node Tuberculous Lymphadenitis
- CSF Cytology –Tuberculous meningitis
- A case of Carcinoma Pancreas, Liver function tests
- A case of obstructive jaundice, Liver function tests



ENRICHMENT COURSES

- Role of immunofluroscence in renal diseases.
- Role of immunofluroscence in skin lesions
- Immunophenotyping of lymphoma.
- Immunohistochemistry of breast cancer

University Examination Results II MBBS

2008 Dec	37	22	15	-	-	59%	41%
2009 Jun	39	29	10	-	-	74%	26%
2009 Dec	63	50	13	1	ı	79%	21%
2010 Jun	40	17	23	1	ı	42%	58%
2010 Dec	78	47	31	1	ı	60%	40%
2011 Jun	57	33	24	1	ı	57%	43%
2011 Dec	88	51	37	1	ı	58%	42%
2012 Jun	61	42	19	1	ı	68%	32%
2012 Dec	91	59	32	_	-	65%	35%
2013 Jun	57	37	20	-	-	65%	35%



Slow Performer Students Remedial Measures and Coaching

- 1. Making them to attend the tutorials classes.
- 2. Conducting revision practical.
- 3. Arranging Parents Teaching Meeting.
- 4. Monitoring their attendance and compulsory follow up of the student.
- 5. Giving written home assignment on chapter wise, frequently asked questions.

SUBJECT SEMINAR PG PROGRAMME -2013

Sl.No.	Topics	Names
1.	Cell injury mechanisms and typesof cell injury	Dr.MITIKA.S
2.	Hyperplasia, hypertrophy Atrophy Metaplasia	Dr.NIKITA.K
3.	Necrosis & Apoptosis	Dr.MITIKA.S
4.	Intracellular accumulation of pigments, cellular aging	Dr.NIKITA.K
5.	Acute inflammation mechanisms /mediators out come acute of inflammation	Dr.MITIKA.S
6.	Chronic Inflammation, Granulomatous inflammation	Dr.NIKITA.K
7.	Wound healing	Dr.MITIKA.S
8.	Granulomatous diseases Part-I Pathogenesis features & diagnosis	Dr.NIKITA.K
9.	Granulomatous diseases Part-II Pathogenesis features & diagnosis	Dr.MITIKA.S
10.	Wound healing /repair /regeneration &healing in special tissues	Dr.NIKITA.K
11.	Normal hemostasis, Bleeding Disorders	Dr.MITIKA.S
12.	Coagulation disorders & DIC	Dr.NIKITA.K
13.	Thrombosis, embolism, infarction	Dr.MITIKA.S
14.	Shock	Dr.NIKITA.K
15.	Genetics- I Mendelian Disorders	Dr.MITIKA.S
16.	Genetics-II Autosomal disoders	Dr.NIKITA.K
17.	Genetics-III Sex linked disorders	Dr.MITIKA.S



SUBJECT SEMINAR PG PROGRAMME -2013

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7.	Wound healing	Dr.MITIKA.S
8.	Granulomatous diseases Part-I Pathogenesis features & diagnosis	Dr.NIKITA.K
9.	Granulomatous diseases Part-II Pathogenesis features & diagnosis	Dr.MITIKA.S
10.	Wound healing /repair /regeneration &healing in special tissues	Dr.NIKITA.K
11.	Normal hemostasis, Bleeding Disorders	Dr.MITIKA.S
12.	Coagulation disorders & DIC	Dr.NIKITA.K
13.	Thrombosis, embolism, infarction	Dr.MITIKA.S
14.	Shock	Dr.NIKITA.K
15.	Genetics- I Mendelian Disorders	Dr.MITIKA.S
16.	Genetics-II Autosomal disoders	Dr.NIKITA.K
17.	Genetics-III Sex linked disorders	Dr.MITIKA.S



<u>Combined Basic Sciences Programme for Post Graduate</u> <u>courses Pathology Topics</u>

SI.No.	Topics
1.	Collection & dispatch of Specimen & filling lab forms
2.	Acute Inflammation
3.	Chronic Inflammation
4.	Haemopoiesis
5.	Lab diagnosis of Anemia
6.	Hemorrhagic Disorders
7.	Neoplasia
8.	Tumour markers
9.	FNAC,Laboratory visit
10.	Tissue repair & regeneration
11.	Blood Transfusion Principles of management
12.	Transfusion Hazards
13.	Blood Component Therapy.



WEEKLY TRAINING PROGRAME FOR PG

DAYS	TIME- 9 AM to 12 Noon	TIME-12 Noon to 1 PM	TIME- 2 PM TO 4 PM
MONDAY	Practical work in Section		UG Practicals
TUESDAY	Practical work in Section	Slide Discussion	UG Practicals
Wednesday	Practical work in Section		UG Practicals
THURSDAY	Practical work in Section		Seminar/ Journal Club
FRIDAY	Preparation for Dissertation		UG Practicals
SATURDAY	Practical work in Section		



Sl.No.	TOPICS	NAME	TEACHERS
14	Quality Control in Haematology	Dr. Mitika. S	Dr. T.Rajaram
15	Automation Eqpt in Haematology & usage	Dr.Nikita. K	Dr. S.P.Sharmila
16	Histopathology Equipments- Microtome, Automatic Tissue Process, Cryostat etc.	Dr.Nikita. K	Dr. T.Rajaram
17	Advanced Techniques including flow cytometry	Dr. Mitika. S	Dr.V. Mahanthachar
18	Mechanisms of cell injury	Dr. Mitika. S	Dr. T.Rajaram
19	Cellular adaptation	Dr.Nikita. K	Dr. T.Rajaram
20	Necrosis & Apoptosis	Dr. Mitika. S	Dr. T.Rajaram
21	Pigment metabolism	Dr.Nikita. K	Dr. S.P.Sharmila
22	Extra cellular matrix and cell matrix interactions	Dr. Mitika. S	Dr. Jyothi A.Raj
23	Hypersensitivity reactions Immunity & Hypersensitivity	Dr.Nikita. K	Dr. V. Mahanthachar
24	Autoimmune disorders	Dr. Mitika. S	Dr. V. Mahanthachar
25	Neoplasia (a) Aetiopathogenesis including oncogenes	Dr.Nikita. K	Dr. T.Rajaram
26	Neoplasia (b) Tumor Markers	Dr. Mitika. S	Dr. T.Rajaram
27	Genetics Autosomal disorders	Dr.Nikita. K	Dr. S.P.Sharmila
28	Genetics Sex linked disorders.	Dr. Mitika. S	Dr. S.P.Sharmila
29	Genetics diagnostic methods in genetic disorders	Dr.Nikita. K	Dr. T.Rajaram
30	Histological techniques – - Stains used - Special stains - Immunohistochemistry	Dr. Mitika. S	Dr. Jyothi A.Raj

SEMINAR TOPICS FOR POSTGRADUATES - 2013

Sl.No.	TOPICS	NAME	TEACHERS
1	Collection of blood + Anticoagulants	Dr. Mitika. S	Dr. T.Rajaram
	+ Various stains used in hematology		
2	Interpretation of peripheral smear	Dr. Nikita. K	Dr. T.Rajaram
3	Laboratory diagnosis of Anaemias		
	- Microcytic Anaemia	Dr. Mitika. S	Dr.Jyothi A.Raj
	- Macrocytic Anaemia		
4	Laboratory diagnosis of hemolytic	Dr. Nikita. K	Dr. Jyothi A.Raj
	anemia		
5	Investigation of a case of hemorrhagic	Dr. Mitika. S	Dr. V.Mahanthachar
	disorder		
6	Interpretation of Bone marrow aspiration /	Dr.Nikita. K	Dr. V.Mahanthachar
	biopsy		
7	Non neoplastic leukocytic disorders	Dr. Mitika. S	Dr. V.Mahanthachar
8	Laboratory diagnosis of	Dr.Nikita. K	Dr. S.P.Sharmila
	(a) Acute leukaemias		
	(b)Chronic leukaemias	Dr. Mitika. S	Dr. S.P.Sharmila
	(c) Lymphomas-HL & NHL	Dr.Nikita. K	Dr. S.P.Sharmila
9	Myelodysplastic Syndrome	Dr. Mitika. S	Dr. Jyothi A.Raj
10	Plasma cell disorders Myeloma	Dr.Nikita. K	Dr. T.Rajaram
11	Blood banking techniques	Dr. Mitika. S	Dr.Latha
12	Blood component therapy	Dr.Nikita. K	Dr. Latha
13	Stem cells and Bone marrow transplantation	Dr. Mitika. S	Dr. Shreedhar Murthy



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

- Workshops
- CMEs
- Conferences
- TOT (Training of Teachers)

Students and faculty in extension activities

- Blood donation camps
- Cancer screening programme.



Contributions of the department in generating new knowledge basic or applied .

- CPC Clinic pathological Conference.
- Clinical Meetings.
- Morbidity & Mortality Meetings.



Clinicopathological Correlation

The following cases were presented for CPC:

I. Renal cell carcinoma predominantly oncocytic-Right. Shows involvement of capsule and perinephric fat. Renal vein is free.

Chronic cholecystitis

- 2. Papillary Carcinoma-Thyroid, Follicular variant
- 3. Adult granulosa cell tumor of the right ovary with torsion and haemorrhage
- 4. Well differentiated squamous cell carcinoma, pelvic dermoid cyst

Multiloculated peritoneal inclusion cyst

- 5. Papillary renal cell carcinoma type II with tumor emboli in renal vein-Nuclear grade II-III
- 6. Nodular subungal malignant melanoma of ring finger. Clark level-V. Metastasis in two of the axillary lymph nodes.
- 7. Gastrointestinal stromal tumor of jejunum with smooth muscle differentiation High risk.
- 8. Mixed germ cell tumor of Left testis with predominat embryonal carcinoma and focus of seminoma with metastatic deposits in lymph node
- 9. Benign phyllodes tumor-Right breast.

Fibrocystic disease-Left breast

- 10. Osteogenic sarcoma, lower end of left femur(Giant cell rich type)
- 11. Tubercular granulomatous inflammation involving caecum & adjoining lymph nodes
- 12. Medullary carcinoma of right breast(invasive)

No residual tumor was seen in the modified radical dissection of breast specimen

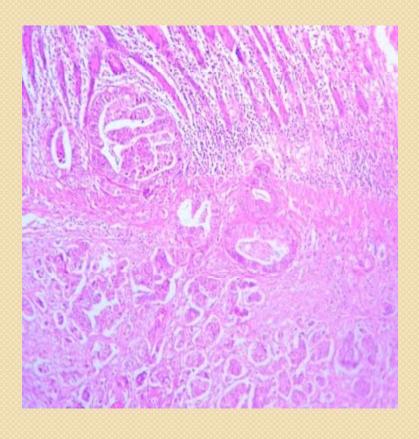
13. A case of post BCG vaccination axillary lymphadenitis, shows extensive tubercular lesions.

Primary Adenocarcinoma of Jejunum-A rare case report with clinicopathological review

Annular constricted ulceroproliferative growth of the tumor

Tumor infiltrating the muscularis propria (H&Ex10).





Littoral Cell Angioma



Fig 1:Sectioned surface showed multiple tiny blackish spongy map like areas Diagnosis -Littoral Cell Angioma

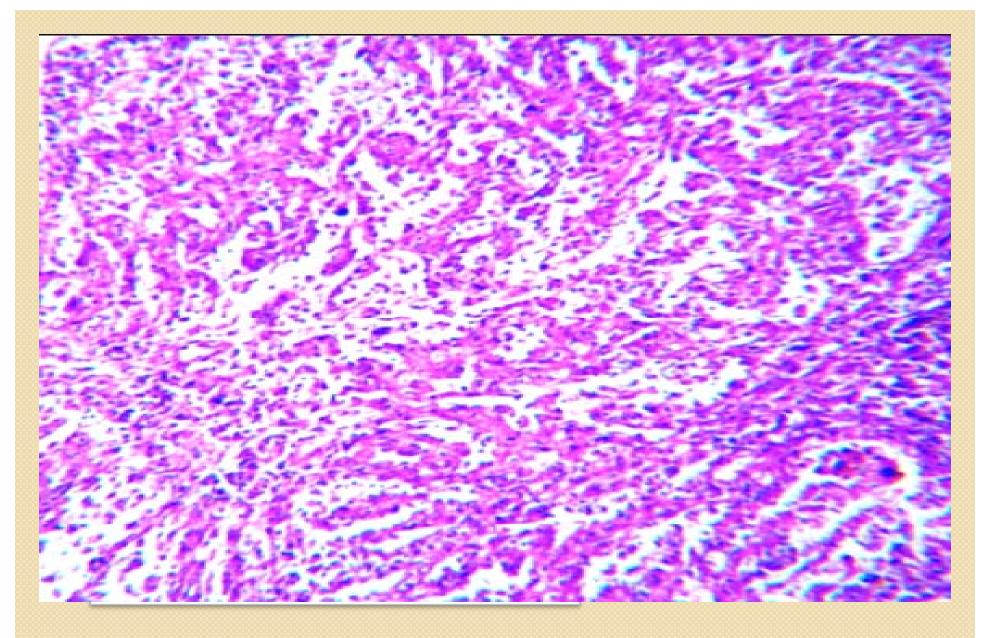


Fig 2: Red pulp shows multiple foci of ill-defined anastomosing narrow vascular channels and cyst like spaces, lined by plump, tall columnar endothelial cells –(H&E- X 100)

SUDDEN CARDIAC DEATH IN A YOUNG ADULT- ARVD



Gross - Thinned out right ventricle with increased fat deposition
Diagnosis - Arrythmogenic Right Ventricular Dysplasia

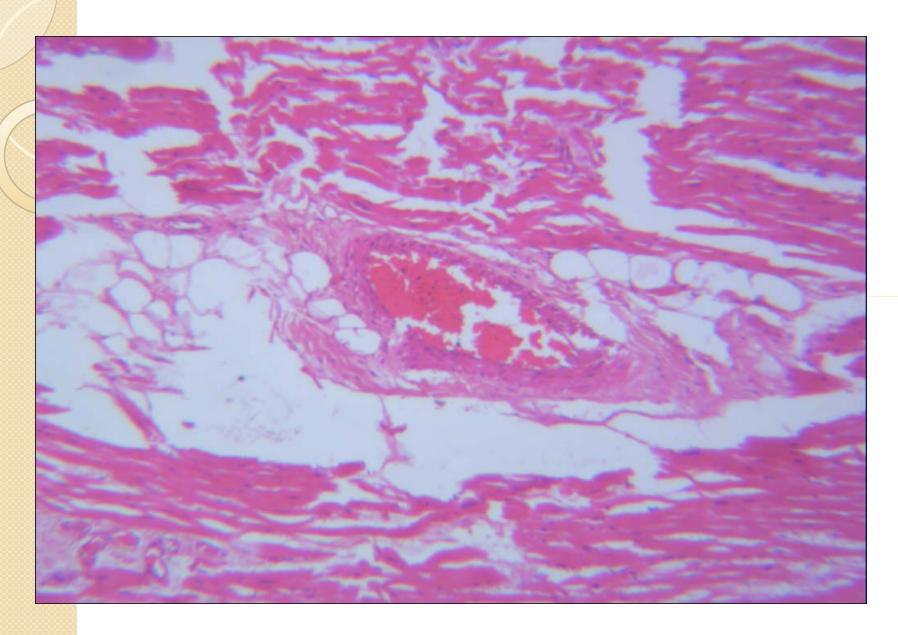
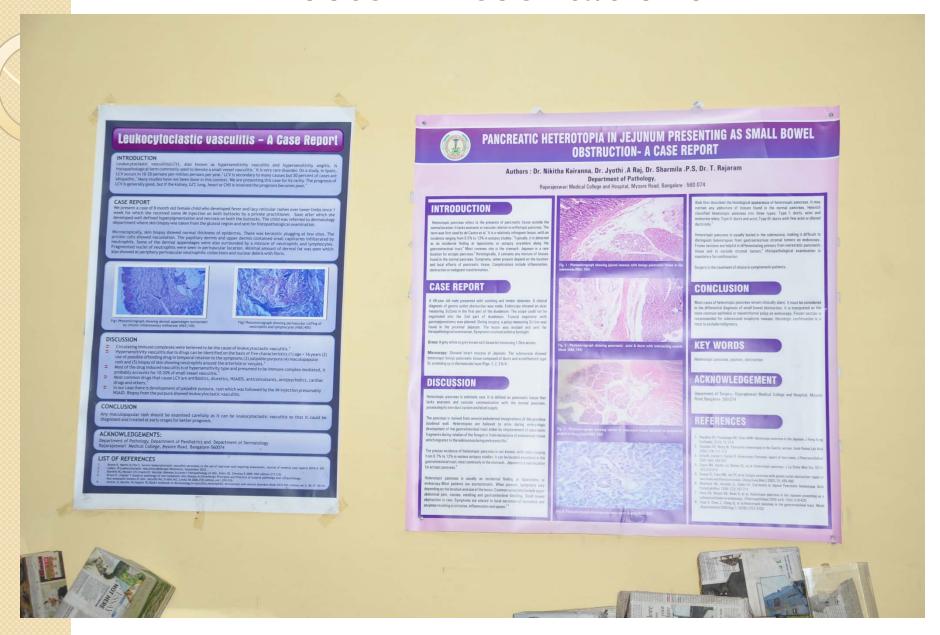


Fig 6: Chordae tendinae (Right Ventricle)-H&E- x400

Poster Presentations



Contd..





Contd..

BCG vaccine induced suppurative lymphadenitis in the axilla - A case report



Dr. Mitika Shrivastava, Dr. Jyothi A Raj, Dr. Mahantachar V, Dr. Rajaram T Rajarajeswari Medical College and Hospital, Mysore road, Bangalore-560074.

Introduction

Health Colorette Gascockit (1) is a live attenuated vaccine derived from a strain of Mycoloscitation bevio. It is part of the World Health Organization's expanded pergent for immunication. It is a safe and effective vaccine but complications are known to occur in up to 1.9% of autom These include local solvention, regional lymphodomism, accurate, logored executions, hypertrophes were, deseromand inflictions and hepstopphenomerally accurate to a contract of the patients. The contract of the patients is included in the patients of the pat

Case report

A sec mostle cital orders personned to the passedance department with a swelling in the helt azilla. On examination, the helt azillary lymph node was enlarged and fluctuant. The overlying skin was crystherautous with relema. Imministration schedule of the inflant was up to that, including INCI succession at both. A clinical diagnosis of abscess in the left azillary lymph node was made. The node was drained, remnants were excised and sent for the contract of a second contract of a second

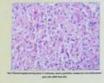
Gross

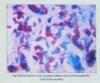
Specimen command of multiple fraible and necrotic, grey white soft tionse bits, uncounting to 3 ex-

Microscopy

Secwed fragments of tous composed of sheets of histocytes, epithelioid cells, fit, reactive granulation, and lymphocytes. The histocytes were polygonal and spindle shaped, had pale foursy and granular cytoplasm, forming the cent granulation with millionic formed granulations with millionic formed granulations with millionic formed granulations with millionic formed granulations with millionic formed granulations. Zealth Nection stain revealed a heavy load of seed for his collection of the property of the granulations. Zealth Nection stain revealed a heavy load of seed for his collection of the property of the granulations. Zealth Nection stain revealed a heavy load of seed for his collection of the property of the granulation of the property of the granulation of the property of the property of the granulation of the property of the granulation of the property of the granulation of the granula









Discussion

benchemal BCG vaccination results in a cutaneous nodule at the injustion size and enlargement of the drawing byogh node, committing a classification primary complex horsesion of regional lyright nodes by the solvation BCG is part of necessful vaccination. Regional lyrightheadness is most often subclinical and undergoes spontaneous regression. However, nome infants they shy supportance by regional lyrightheadness is most often subclinical and undergoes spontaneous regression. However, and the propose of the resident of the Complex power of the part of the clinicals. In Section 2018, the continue response to the vaccination of the Complex power of the continue response to the vaccination. BCG by special continuity and the clinicals are settled to immune engages to the vaccination of the part of the continuity of

Conclusion

Regional hymphodemics is a common sequel of ECU securities. Separative hymphodemics, post ECU security, could have use a mission of military for the first diagnosis is resulted, not only to prevent require and some formation, but also to rule our emmandeficiency. The type of granulouss and appearance or historyces in pubbiological examination could office in the 'the time.' datas in the individual. Children with post vaccine complications should be percented for EUV. These devices must into a believe of vaccine proposations and complications are complications and complications and complications are complications and complications are considered by the control of EUV. These devices must into a billion of the control of EUV. These devices must into a billion of the control of EUV. These devices must into a billion of the control of EUV. The control of EUV.

Key word

BCG vaccine, lymphadesitis, AFB, immune status

Acknowledgements:

Departments of Pandiatrics and Pandiatric Surgery, Rajangerwari Medical College, Mysore Read, Bungslore-560074

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DISSERTATIONS 2011 Batch

- 1. Spectrum of neoplastic and non neoplastic lesions in the fallopian tube in a tertiary care hospital. Dr. Nikita Valerina Khairanna.
- 2. Etiopathological study of Anaemias in women of reproductive age group and in selected cases, hemoglobin electrophoresis, among patients in teaching hospital during the period 1/6/2011 to 31/12/2012- Dr. Mitika Srivastav.

DISSERTATIONS 2012 Batch

- 3. Histopathological study of soft tissue tumors at Rajarajeshwari Medical College and Hospital- Dr. Amit Bharu.
- 4. Spectrum of benign breast disease in females of reproductive age group in Tertiary Care Hospital, Bangalore- Dr Ankur Gupta
- 5. Incidence of Hashimoto Thyroiditis in FNAC and Thyroidectomy specimens in correlation with T3, T4 & TSH in a tertiary care hospital Dr. Paul M.F
- 6. Histomorphological study of Leprosy cases in Rajarajeshwari Medical College & Hospital Dr. Jeena Johns
- 7. Clinico-Pathological study of patients undergoing Hysterectomy at Tertiary care hospital Dr. Dhaval Prajapati.



DISSERTATIONS 2013 Batch

- 1. Histopathological spectrum of non-neoplastic and neoplastic lesions of thyroid A-5yrs'study of thyroidectomy specimens.-Dr.Padmavathi.M
- 2. Study of Non Neoplastic and Neoplastic lesions of ovary encountered at RRMCH. Dr.Kannu Priya
- 3. A descripitive Histopathological study of Endometrium in perimenopausal and postmenopausal women in tertiary care hospital. RRMCH, Bangalore. Dr.Ramya.R
- 4. Study of cytomorphological patterns of palpable Breast lesions. Dr.Reshma Anegundi
- 5. Histopathlogical study of diseases of Small and Large Intestine. Dr.Nithun Reddy.C
- 6. Retrospective and prospective study of Fine Neddle Aspiration Cytology of non-neoplastic & neoplastic conditions affecting the Lymphnodes. Dr. Radhika.Y.G.



POSTER PRESENTATIONS-NATIONAL & INTERNATIONAL12

- IAP-ID mid-year teaching programme at MVJ Medical College & Hospital, Bangalore on 29th& 30th June 2012: Poster presentation Adenomyoma in a noncomunicating Uterus Didelphys, Bicornis, Unicolis A rare case report.Presented by: Dr. Nikhitha V Kairanna, Dr. Sharmila S P, Dr. Sushma T A, Dr. T.Rajaram
- IAP-ID mid-year teaching programme by MVJ Mdical College & Hospital, Bangalore 29th& 30th June 2012: Poster presentation: Granulosa cell tumor with unusual presentation.By Dr. Mitika S, Dr. Sharmila S P, Dr. Sushma T A, Dr. Jyothi A Raj. Dr. T Rajaram.
- IMSA Southern Conference at RRMC&H 3 4 August 2012 case report: Parathyroid adenoma presenting as acute abdomen. By Dr. Nikitha V Kairanna, Dr.S.P.Sharmila, Dr. Usha Ramchandra, Dr. T Rajaram.
- IMSA Soutern Conference at RRMC&H 3 4 August 2012 case report: Leucocytoclastic Vasculitis. By Dr. Mitika S, Dr. Usha Ramchandra, Dr. T Rajaram.
- 31st Annual conference IMSACON, 5th & 6th October-2013; Title: Incidental littoral cell angioma of spleen, and autopsy finding: A rare cause of mysterious death Presented by: Dr. Ankur Gupta, Dr, Sharmila P.S,
- 31st Annual conference IMSACON, 5th 6th October-2013; Title: Primary cavernous hemagioma of ovary coexisting with contra lateral xanthogranulomatous salpintingitis An incidental finding A rare coexistence. Presented by: Dr. Paul.M.F, Dr, Sharmila P.S

- 31st Annual conference IMSACON, 5th& 6th October-2013; Title: Primary Adenocarcinoma of the Jejunum: Acase report with clinicopathological reviewPresented by: Dr. Dhaval Prajapati Dr,Sharmila P.S
- 31st Annual conference IMSACON, 5th& 6th October-2013; Title: A case of metastasis of renal cell carcinoma in the right nasal cavity.Presented by: Dr. Amith Bharu, Dr. Mahantachar V
- 31st Annual conference IMSACON, 5th& 6th October-2013; Title: Infantile Osteopetrosis A rare case report.Presented by: Dr. Jeena Johns, , Dr. T Rajaram.
- . Annual conference KCIAPM on 10/09/2011 at SDUMC, KolarTitle Well differentiated Squamous cell Carcinoma in a Pelvic Dermoid. Presented by Dr.Hemamalini, Dr.UshaRamachandra, Dr.T.Rajaram,
- 39th Annual conference KCIAPM 06/09/2012 to 09/09/2012, BangaloreTitle: BCG vaccine induced suppurative lymphadenitis in the axilla A case reportPresented by: Dr. Mitika S, Dr.Jyothi A Raj, Dr. Mahanthachar.V, Dr. T.Rajaram.
- 39th Annual conference KCIAPM 06/09/2012 to 09/09/2012, Bangalore Title: Pancreatic Heterotopia in Jejunum Presenting as small bowel obstruction A case report. Presented by: Dr. Nikitha VK, Dr. Jyothi A Raj, Dr. Sharmila PS,Dr.T. Rajaram.



ORAL PAPERS -9

- 1. 31st Annual conference IMSACON, 5th& 6th October-2013; Histomorphological spectrum of neoplasm of nasal cavity and Para nasal Sinuses.Presented by: Dr. Mithika
- 2. 31stAnnual conference IMSACON, 5th& 6th October-2013;Diagnostic value of endometrial aspiration cytology in neoplastic & non-neoplastic lesions.Presented by: Dr. K.Shashikala,
- 3. 31st Annual conference IMSACON, 5th & 6th October-2013; Title: Silver staining of nucleolar organizer regions in prostatic lesions. Presented by: Dr. Sushma. T.A,
- 4. 31st Annual conference IMSACON, 5th& 6th October-2013; Title: Spectrum of thyroid lesions in thyroidectomy specimens.Presented by: Dr. Paul.M.F,
- 5. 31st Annual conference IMSACON, 5th 6th October-2013; Title:Unwrapping the diagnosis of tuberculosis in tertiary care: A clinicopathological profile.Presented by: Dr. Ankur Gupta,
- 6. 31st Annual conference IMSACON, 5th& 6th October-2013Title: Histopathological spectrum of gastrointestinal lesions at tertiary care hospital.Presented by: Dr. Dhaval.J.P,
- 7. 31st Annual conference IMSACON, 5th 6th October-2013; Title: Fine needle aspiration cytology in diagnosis of breast lesions.Presented by: Dr. Amit Bharu
- 8. 31st Annual conference IMSACON, 5th & 6th October-2013; Histopathological profile of unusual findings in medico- legal autopsies an autopsy study with brief review of Literature Dr Nikitha.V
- 9. Diagnosis of Acute Appendicitis with Pre-operative Inflammatory Markersand Post-operative Histopathological findings at RRMCH. Dr. Jeena Johns. KC-IAPM State 40th Annual State Conference BLDEU Bijapur 2013 held onSep 2013.

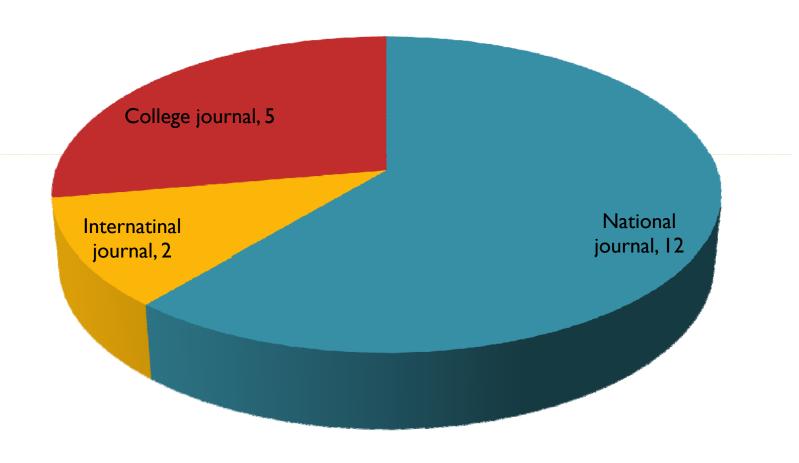


Publications

- Total no: 19
- National Publications: 12
- International Publications: 2
- College Journal Publications: 5



Publications





INTERNATIONAL PUBLICATIONS-2

 Primary Fallopian tube Carcinoma – Case report and Review of Literature.

Dr. Jyothi A Raj, Dr. Sharmila.S.P, Dr. Usha Ramachandra. Accepted for publication in J of International Medical Sciences Academy

 Sushma TA, Shashikala K, Sharmila PS. Adenomyoma in a noncommunicating didelphys uterus biocornis unicollis –A rare case report. Int J Pharm Bio Sci 2013 April; 4(2):Vol 1: 665-670



NATIONAL PUBLICATIONS-12

- Jyothi A Raj, Jagadeesha M, Naveen S, Usha Ramachandra. Xanthogranulomatous Oophoritis: Pathologic findings with clinical correlation. *J of Indian Medical Assoc* Sept 2012; vol 2:110:653-4
- Jyothi A Raj, Sharmila SP, T Rajaram. Pancreatic heterotopias in jejunum presenting as small bowel obstruction. *Medica Innovatica* 2013; 2: 101-4
- Sharmila PS, Shushan Shweta J, T Rajaram, Sushma TA. Umbilical pilonidal sinus
 A clinical Dilemma. *J of Medical Sciences* 2013 April; vol 1(1): 45-6
- Sharmila PS. Carcinoma Ex Pleomorphic Adenoma –Accepted in *Journal of Health Sciences and Research*.
- Jyothi A Raj, Mahantachar V, T Rajaram. Metastatic renal cell carcinoma in the sinonasal region. *Online Journal of Health Allied Scs* 2013;12(2): 19



Sushma TA, Shashikala K, Sharmila PS, et al. Study of histomorphological changes of teratoma in a tertiary care hospital; *Journal of Evolution of Medical & Dental Sciences* 2013; vol 2(12): 1771-8

- Sushma TA, Sharmila PS, Shashikala K, Anand Rayamane. Littoral cell angioma. *Journal of Health & Allied Sciences* 2013; 12 (1): 13
- Shushan Shwetha Jayker, Sharmila PS, T Rajaram, Sushma TA. Eccrine Spiradenoma A painful Dermal Nodule. Accepted in *Medica Innovatica*Shushan Shwetha Jayker, Sharmila PS, T Rajaram. Brunner gland Hamartoma- A rare incidental finding in autopsy. *Online Journal of Health and Allied Sciences* 2013; 12(3): 17
- Jyothi A Raj, Sharmila PS, Mahantachar V, Mitika S, T Rajaram. Morphological spectrum of lesions in the sinonasal region. *Journal of Evolution of Medical and Dental Sciences* 2013; vol 2(37): 7175-86
- Rayamane AP, Chandrashekhariah, Pradeep Kumar, Kottabagi RB, T Rajaram. Sudden cardiac death in a young adult. *J Karn. Med.Legal Society* Jul 2012 vol 2; 41-45
- Jyothi A Raj, Sharmila PS, Mahantachar V, T Rajaram. Metastatic testicular mixed germ cell tumors, a diagnostic dilemma in cytology. *J Clin Biomed Scs* 2013; 3(2): 90-95
- AP Rayamane, Pradeepkumar MV, Kotabagi RB, Chandrashekhariah C, T Rajaram, Mahanthachar V. Sudden cardiac death in young adults.Jour.Kar.Med.Leg.Soc.Jul-Dec2013(22)27-33



RRMCH-- COLLEGE ACADEMIC JOURNAL ARTICLES-5

- 1. Sharmila PS, Shushan Shweta J, T Rajaram, Sushma TA. Umbilical pilonidal sinus A clinical Dilemma. *J of Medical Sciences* 2013 April; vol 1(1): 45-6
- 2Jyothi A Raj, Sharmila PS, Nikitha V, Usha Ramachandra, T Rajaram. Morphological evaluation of parathyroid adenoma. *Journal Of Medical Sciences* 2013; vol 1(1): 47-50
- 3 Sharmila PS, Jyothi A Raj, Mitika S. Histomorphological spectrum of neoplasms in the nasal cavity and paranasal sinuses in a tertiary care hospital. Journal of Medical Sciences 2013; vol 2(1): 11-20
- 4 Shashikala K, Sharmila PS, Sushma TA, Ankur G. Kyrle's disease a rare disorder of Keratinization secondary to chronic renal failure. *Journal of Medical Sciences*. 2013 April; vol 1(1): 41-3
- 5 SushmaTA, Shashikala K, Sharmila PS, Prashanth V, Nagaraj T, Mitika S. Papillary Thyroid carcinoma with tracheal invasion. *Journal of Medical Sciences*. 2013April; vol 1(1): 37-9



List of ongoing research projects -Faculty -8

Clinicopathological study of histopathological profile of non-neoplastic lesions of skin with special reference to granulomatous inflammation.

DrSharmila PS, DrJyothi A Raj, DrShwetha S Jayker

Histopathological profile of unusual findings in medico- legal autopsies – an autopsy study with brief review of Literature. DrShashikala K, DrSharmila PS

Study of hyperpigmented lesions – clinicopathological correlation.

DrShwetha S Jayker, DrJyothi A Raj, DrSharmila PS

Clinicopathological study of Lichenoid lesions of skin.

DrJyothi A Raj, DrShwetha S Jayker, DrSharmila PS

Perinatal Autopsies: Clinicopathological correlation: A Hospital based study.

DrSharmila PS, DrShashikala K

Histopathological study of liver in serial forensic autopsies conducted at tertiary care hospital Dr T Rajaram

Histopathological study of cardiac lesions in sudden unexpected and natural deaths in young adults of age between 18- 35 years- an autopsy study.DrMahantachar V

Study of pathology of spleen- a 5- year study DrJyothi A Raj, DrSharmila PS, Dr T Rajaram, DrMahantachar V



List of research projects completed in the year 2012-13

- Histomorphological study of Teratomas in a Tertiary care hospital.Dr. Sushma. T.A, Dr. Shashikala.K, Dr. Sharmila.P.S, Dr. ShwethaJaykar.S, Dr. Jyothi A Raj, Dr. V.Mahanthachar, Dr. T.Rajaram, Dr. UshaRamchandra.
- Morphological spectrum of lesions in the sinonasal region; Jyothi A Raj, Sharmila PS, Mahantachar V, Mitika S, T Rajaram.
- Spectrum of neoplastic and non- neoplastic lesions in the fallopian tube in a tertiary care hospital. - Dr. Nikita Valerina Khairanna.
- Etiopathological study of anaemias in women of reproductive age group and in selected cases, hemoglobin electrophoresis, among patients in teaching hospital during the period 1/6/2011 to 31/12/2012- Dr. Mitika Srivastava
- Histomorphological spectrum of neoplasms in the nasal cavity and paranasal sinuses in a tertiary care hospital. DrSharmila PS, DrJyothi A Raj, DrMitika S.
- Sudden cardiac deaths in young adults. DrAnand R, DrPradeep Kumar M V, DrRajaram
 T, Dr Mahantachar V



List of Undergraduate student research projects 2013

1. Prevalance of anemia in adolescent school-going girls, with correlation of red cell morphology and indices.

Investigators: SanjanaPrabhu P*, Sangeetha Balaji*, Akshay S**, Helen

Jeydevi A**, Dr. Jyothi A Raj***, Dr. Sharmila PS***.

*Fifth term, Dept. of Pathology

**Fourth term, UG students, Dept. of Pathology

***Faculty, Dept. of Pathology



CONFERENCES / WORKSHOPS CONDUCTED BY THE DEPARTMENT

- CME Programme organized by Blood Bank Department of Pathology RRMCH 8/10/2009.
- Participation as delegate in CME on changing trends with the newer concepts in fields of Pathology, Pharmacology, Biochemistry and General Medicine Post Graduate lecture series RGUHS in associate with RRMCH. 8th to 10th Dec 2011.
- Academy of Pathology , Annual Meeting, 18th Nov 2012
- Participation as delegate in CME on Organ Transplantation RRMCH & IMSA Bangalore, Aug 2011.
- IMA Conference RRMCH Bangalore, Dec2011 Orientation Programme on NABH Accreditation RGUHS Bangalore, Nov 2011.
- Workshop on Educational Science & Technology for Medical Teachers MEU, RRMCH Bangalore, Jun 2012.
- IMSA ,southern region ,Conference RRMCH Bangalore, Oct 2012.
- Under graduate Pathology Quiz for Medical colleges of RGUHS KCIAPM, at RRMCH on 12th October 2010
- IMSAConference at RRMC&H held in 5th&6 th Oct 2013



University Appointments & membership of other associations

Participation / contribution of teachers to the academic activities of RGUHS:
Dr Usha Ramachandra, Member
Academic Council
Professional Association: Academy of Pathology, Bangalore.
All faculty are members.



Annual conference of Academy of Pathology – 2012



State Level Pathology Quiz Competition 2010







• The students of our college won the third prize in the State Level Pathology Quiz in 2009.







Innovative practices

Students

- Integrated teaching
- Problem based learning
- CPA cards
- Mentorship

Staff

- Medical education training
- Attending national and international conference
- Encouraged to use newer methods of teaching learning process
- Internet and HELINET facilities
- Research projects

Work front

- Quick and accurate reporting
- Quality control



- To set up well equipped automated and networked computerized Laboratory
- Organizing State and National conference of KCIAPM and APCON respectively.
- Addition of new and advanced equipment for research.



SWOT ANALYSIS

Strengths

- Enthusiastic, intelligent, highly motivated undergraduate and postgraduate medical students
- Abundant clinical material at the hospital
- Availability of ultra modern automated laboratory equipment, infrastructure , manpower
- Experienced faculty to guide
- Internet and Wi-Fi network facility in college and hospital premises
- Smart demonstration rooms and lecture hall
- Periodical seminar, tutorials, journal clubs, enrichment courses problem based learning, internal assessment examination.
- Well established museum, display charts and histopathological slides collection.
- Digital library with good number of reference books and journals
- Well established Blood bank services
- Institutional Credibility



Weakness

- No major weakness for carrying out the tasks assigned.
- As and when the problem arises, the concerned authorities take necessary action to solve it.

Opportunities

- Vast amount of clinical material, Infrastructure and other human resources available in our medical college.
- Promotional schemes by the government directed towards involvement of medical colleges in health care research to involve the department of our medical in operational research in national health programmes.
- Financial support by the government for up-gradation of equipment and infrastructure for motivating the faculty
- Financial aid as an incentive to motivated enthusiastic young researchers in our medical college
- Credibility of our institution to attract research
- Institutional review board (IRB) to oversee research methodology guidelines by young researchers



Threats

- Increased turnover of young medical graduates after obtaining their degree due to inability to retain the talent in the parent institutions.
- There exists no performance based promotional or other incentives to those engaged in research
- There is no career ladder available in medical colleges for those who are devoted for research

	2014-15	2015-16	2016-17	2017-18	2018-2019
Courses	Enrichment Courses	Problem Based Learning	GIVE DEMO IN Preconference Workshop	Increase Seats To 250	New Paramedical
TLE	All Teaching Ppt Student Centric , Train For Viva-Voce, Faculty	Use Net For Teaching Cpa Card Intensify,	Live Lectures Relay Student Projects ,Tutorials,Group Discussion, Hands	TTrain For Mcq, PPbl,Enrichment,Pr ove	Student And Faculty Exchange Atted Cinference With Paper All Faculty
	Development Activities All faculties avail membership of national professional association Increase quality and quantity results	Atted Cinference With Paper	On Expirience, Pbl,Enrichment,Pr ove Improve Teacher Quality By Advance Skills Atted Cinference With Paper All Faculty Conduct-National Conference Condict2- Workshops Complete annual review Increase quality and quantity o results	Ilmprove Teacher Quality By Advance Skills CCondict 2- Workshops lincrease quality and quantity o results	Condict 2- Workshops Faculty Development Activitie Increase quality and quantity o results

Administrti on	Four Coordinator s Committees	Internalise IQAC ,Develop IQAR,PPD	Internalise IQAC ,Develop IQAR,PPD		
	Of IQAC				
Research/ Extension	Complete Annual Review Present Papers At National Conference Of Faculty Research Topics	Complete Annual Review Present Papers At National Conference Of Faculty Research Topics Publish Articles In College Journal	Complete Annual Review Present Papers At National Conference Of Faculty Research Topics Publish Articles In College Journal Publish Articles In College Journal	Complete Annual Review Present Papers At National Conference Of Faculty Research Topics Publish Articles In College Journal	Complete Annual Review Present Papers At National Conference Of Faculty Research Topics Publish Articles In College Journal

Infrastr	Improve library	•	Improve library	• •	•
uctures	quality 55-points	library	quality 55-points	quality 55-p	quality 55-points
	Improve	quality 55-	Maintain and	Cllibration of	Cllibration of
	LABOROTARIE	points	assess space for	equipments oints	equipments
	S	Upgrade	ug , pg,		
	GET	Laborotari	paramedical	Maintain and	Maintain and
	EQUIPMENTS	es	students and	strengthen ICT -	strengthen ICT
	Get advanced		faculties	facilities and	-facilities and
	research	Cllibration	Cllibration of	utilisation	utilization
	equipments	of	equipments		
		equipment			Add on teaching
	Maintain and	s	use advanced		aids
	strengthen ICT -		research		
	facilities and	TRAIN IN	equipments		
	utilisation	advanced	facilities for		
		research	teaching		
		equipment	learning		
		s	Maintain and		
			strengthen ICT		
			-facilities and		
			utilisation		

Innovation	Add on services Establish centre of excellence in	Provide advances in technology in education ,service and research	Establish centre of excellence in
Collaborat ions/ Linkages	Get international linkage-for research ,and teaching learning process	J	 •

