

Kindly provide the following information for updating the BMCRI website as per Govt of Karnataka guidelines by 30th November 2020, director_bmcricri@yahoo.co.in

DEPARTMENT OF BIOCHEMISTRY

General Information about the department

(Summary about the milestones of the Department, academic facilities, research facilities, staff, no. of Post graduate students, Fellowship students, various courses including Allied health sciences & Paramedical courses and services provided by the department)

Biochemistry, as a subject, incorporates the study of the structure and function of cellular components, such as proteins, carbohydrates, lipids, nucleic acids, and other bio-molecules. This is essential to understand the complex biochemical interactions within the human body both in health and in disease. Knowledge of Biochemistry is vital to understand the Physiology of life.

As preclinical subject, Biochemistry department in Bangalore medical college was established in 1955. The department was disjoined from physiology and a full- fledged separate department came into existence in 1976 as per Medical Council of India norms. Full time laboratory services are extended to Victoria, Vani Vilas, Bowring and Minto hospitals.

MBBS Courses was started in 1955, BDS Courses was in 1964 and M.D. Biochemistry Courses in 1989 with 2 seats, increased to 3 seats in 2010 and further increased to 4 in 2014. The department also provides academic support for conducting courses for Nursing & DMLT & BSc MLT students.

The Department is recognized by MCI both for Under Graduation(MBBS) and Post-Graduation(MD Biochemistry)

The heads of department from 1955 were

Dr.Satyanarayana.

Dr.Ananthapadmanabhanrao.

Dr.Ramakrishna.V - 1983 to 199,

Dr.Kantharaj - 1990 to 1991,

Dr. G.V. Honnappa – 1991 to 1991(Dec),

Dr. V. Ramakrishna - 1992(Jan) to 1996(June),

Dr.Nirmalkumar –1996(Feb) to 2001(Aug)

Dr.Gurumurthy - 2002 to 2008(Jan)

The curriculum is designed to:

- Train the undergraduate and postgraduate medical students as per the University guidelines.

- Encourage the staff to update the recent biochemical concepts and engage in research activities.
- Conduct journal club, clinical case discussion for postgraduate students.
- Conduct seminars, guest lectures and CME to impart the interdisciplinary nature of Biochemistry.
- To provide good quality clinical chemistry laboratory services.

Biochemistry Department is well equipped with a Central research laboratory including Molecular Biology section, PG & UG practical halls, demonstration rooms, seminar hall, state of the- art Audio visual aids and a departmental library which has updated text books & reference books for the use of faculty, PG & UG students.

The department's clinical Biochemistry section is equipped with fully automated analyzers, semi-automated analyzers, electrolyte analyzers, arterial blood gas analyzers, fully automated chemiluminescence analyzers for hormones, automated chemiluminescence analyzer, New born Screening fully automated elisa analyzer at vanivilas hospital also provides exclusive new born screening services to all babies born at VVH etc to evaluate organ profiles for the right diagnosis, monitor patient compliance and outcome of treatment.

The department has committed, qualified and experienced faculty who take well-prepared didactic lectures on all theory topics as prescribed by MCI and NMC. In addition, small group teaching, tutorials and integrated teaching are being conducted regularly and systematically. The faculty also encourages, motivate and prepare the students to participate and present research papers in conferences. Advance training is also imparted to post graduate students.

The faculty has many national and international publications to its credit and the department contributes immensely to the laboratory needs of the teaching hospital.

In the recent Covid 19 Pandemic from March 2020 the Clinical Biochemistry department has rendered its immense services in the diagnostics analyzing approximately 20861 covid samples and total 2,91,996 tests including special test like IL -6, Procalcitonin, Trop T, Vit D, Vit B12, Folate, Ferritin, CRP, Trop I.

Teaching faculty

Sl.No	Name	Qualification	Designation
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MEDICAL			
1.	Dr. Vishwanah H L	MBBS, MD	Professor & HOD
2	Dr. Maruthi Prasad BV	MBBS, MD	Professor
3	Dr. Vibha C	MBBS, MD	Professor
4	Dr. Prashanth Kumar BG	MBBS, MD	Professor
5	Dr. Anitha M	MBBS, MD	Asst. Professor
6	Dr. Muralidhar Krishna C.S	MBBS, MD	Asst. Professor
7	Dr. Sujata Maitra	MBBS, MD	Asst. Professor
NONMEDICAL			
1.	DR. Honnamurthy	MSc Phd	Lecturer
2	Mrs. Nagaratna Shivananda	Msc	Lecturer
3	DR. Yogarajegowda	MSc Phd	Lecturer

Non teaching faculty

Sl. No	Name	Qualification	Designation
College Practical Lab and Department			
1	Mrs. Nethra	Msc (Mlt)	Technologist
2	Mrs. Ashwini	Dmlt	Technologist
3	Mrs. Mahadevamma	Sslc	Group D
4	Mrs. Padma		Group D
5	Mrs. Parvathi		Group D
6	Mrs Suma		House keeping
Infosys Central Lab – Victoria Hospital			
1	Mr.Basavaraj	Dmlt	Lab Technologist
2	Mr.Renuka Prasad	Dmlt	Lab Technologist
3	Mrs.Shyalshree	Dmlt	Lab Technologist
4	Mrs.Lalitha	Dmlt	Lab Technologist
5	Mr.Dananjaya	Dmlt	Lab Technologist
6	Mrs. Kalpana	Dmlt	Lab Technologist
7	Mrs. Sudha	BSc Mlt	Lab Technologist
8	Mrs.Lakshamma.M	Dmlt	Contract Lab Technologist

9	Mr.Prakash.K	Dmlt	Contract Lab Technologist
10	Mrs.RajaLakshmi.N.B	Dmlt	Contract Lab Technologist
11	Mr.Anand.K	Dmlt	Contract Lab Technologist
12	Mr.Abdul Samad.K	Dmlt	Contract Lab Technologist
13	Mr. Harish	Dmlt	Contract Lab Technologist
14	Mrs.SuryaKaumari		Attender
15	Mr.Raju	SSLC	Attender
16	Mrs.Nagaratna		House keeping

Services given by the department (Include specialty clinics, outreach programmes, Community programmes, any other services etc.)

Sl. No.	Programmes/Services	Concerned staff	Time / Period
I	Laboratory Services		
1	All clinical biochemistry investigations	All Biochemistry Teaching Faculty on rotation basis	24 x 7
2	Hormone Analysis	All Biochemistry Teaching Faculty on rotation basis	24 x 7
3	Special Covid biochemical investigations	All Biochemistry Teaching Faculty on rotation basis	24 x 7
4.	New born Screening	All Biochemistry Teaching Faculty on rotation basis	9am - 4pm
II	Community services - COVID -19 Pandemic		
1	Deployment of Staff to CCC	Dr. Maruthi Prasad BV	60 days
2.	Nodal Officer To CCC (BIEC)	1.Dr. Anitha M 2.Dr. Muralidhar Krishna C S	30 days 30 days
3	Nodal Officer To Medical Colleges	1.Dr. Vibha C (BGS Mc) 2.Dr. Prashanth Kumar B G (Oxford MC) 3.Dr. Anitha M (KIMS)	30 days 45 days 45 days
4	COVID 19 ward duties	1. Dr. Sujata Maitra (VH) 2. Dr. Anitha M (RGICD) 3. Dr. Muralidhar Krishna C S	07 days 07 days 07 days
5	Covid Screening Duties	1. Dr. Noel Deep Luke 2. Dr. Sreeja Shanker 3. Dr. Vinay 4. Dr. Sandeep 5. Dr. Nitya Shanker	31 days 14 days 28 days 24 days 14 days

Academic Activities

Teaching programme

For the month of		
Sl. No	UG (numbers/--month)	PG (numbers/--month)
Theory classes	16 hours	15 hours
Practical classes	50hours	20hours
Seminars	04 hours	10hours
Journal club	Nil	06 hours
Guest lectures	01	01
Case presentations	Nil	Nil
Any others (Specify)	NA	NA

Research Activities

Research Projects—2019, 2020 (ongoing) (Exclude Dissertation)

Sl. no	Title of the project	Name & Designation of the Principal investigator
	Nil – Faculty were posted for COVID 19 Pandemic Duties and Non covid cases weren't get admitted	

Publications of the faculty and students 2019, 2020

Sl. No	Publication in Vancouver style	National/ International
1	1. Vishwanath HL, Shwetha N, Leelambika C. Biochemical analysis of serum Amylase & Lipase in patients with type II diabetes mellitus. Int J Clin Biochem Res.2019	National
2	2. Vishwanath HL, Supriya V, Mukthapuram A. A cross sectional study of thyroid dysfunction in metabolic syndrome patients and correlation with the components of metabolic syndrome. Int J Clin Biochem Res. 2019 3. Udagani P, Vibha C, Vishwanath HL. Uric acid: An	International

	Inflammatory Marker in Preeclampsia?. Int J Sci Res. 2019	
3	Udagani P, Goyal P, Vibha C, Vishwanath HL, Malini KV. Evaluation of Predictive Value of HS-CRP in Preeclampsia. Int J Curr Adv Res. 2019	International
4	Udagani P, Vibha C, Vishwanath HL, Malini KV. Association between SHBG and HS – CRP – A Novel Surrogate Marker of Preeclampsia. Int J Recent Sci Res. 2019	National
5	Udagani P, Vibha C, Vishwanath HL. Impact of thermal injury on liver function test and serum electrolytes: Its role in management. Int J Clin Biochem Res. 2019	National
6	Udagani P, Vibha C, Vishwanath HL, Parul G. Correlation between inflammatory markers, LFT in Preeclampsia. Medplus Int J Biochem. 2019	International
7	Krishna MC, Jyotsna R. Study of correlation between urinary albumin creatinine ratio and serum creatinine in type 1 diabetes. Int J Clin Biochem Res. 2019	National
8	Kumar PB, Goud S, Vishwanath HL, Krishna MC. Correlation of serum hyaluronic acid with diabetic indices in type 2 diabetes mellitus patients with diabetic nephropathy. Int J Clin Biochem Res. 2019	National
9	Manasa R, Mukthapuram A, Vishwanath HL, Dhanalakshmi K. Role of Urinary Microalbumin in Thalassemia Major Patients. Sch Int J Biochem. 2019	International
10	Maitra S, Mukthapuram A, Huligol G, Dreeelatha, Vishwanath HL. Increased Serum Ferritin and Iron Levels in Preeclampsia. IOSR Journal of Biotechnology and Biochemistry. 2019	International
11	Goudappala KP, Sukumar E, Varadaiah YG, Kashinath RT. Effect of Diallyl Disulphide (DADS) on Gluconeogenesis: A Study in Isolated Alloxan Induced Diabetic Liver. Phcog J. 2019 13. Varadaiah YG, Sivanesan S, Nayak SB, Thirumalarao KR. Purine Metabolism can indicate diabetes progression. Arch Physiol Biochem. 2019	International
12	Varadaiah YG, Kashinath RT. Correlation of uric acid levels and Purine metabolism enzyme activities in plasma and liver tissues of diabetic rats. Ind J	International

	Biochem Bio. 2019	
13	. Udagani P, Vibha C, Vishwanath HL. Uric acid: An Inflammatory Marker in Preeclampsia?. Int J Sci Res. 2019	National
14	Varadaiah YG, Kashinath RT. Correlation of uric acid levels and Purine metabolism enzyme activities in plasma and liver tissues of diabetic rats. Ind J Biochem Bio. 2019	National

Conference presentations of 2019, 2020

Sl. No	Title of the presentation	Name & Designation of the Presenter	Details of the conference
1.	Study of preanalytical errors in clinical chemistry laboratory of Victoria Hospital , Bangalore	Dr. Sreeja Shanker Post graduate	State Conference, Mysore

CME / Workshops conducted by the department in 2019, 2020

Sl. no	Title	Date	Level (regional/national/international)	Credit points
1.	Total Quality Management In Clinical Biochemistry Lab	31.10.2019	Regional	2hrs

Conferences conducted by the department in 2019, 2020

Sl. no	Title	Date	Level (regional/national/international)	Credit points
	Nil			

Notice board

Training Programme on COVID -19 at RGUHS – Talk given during Covid pandemic time

Sl. no	Title	Date	Level (regional/national/international)	Faculty Name and Designation
1.	Biochemical Investigations In Convalescent plasma therapy – Covid -19	14.05.2020	State Level	Dr. Anitha M Assistant Professor (Speaker)

