

Page 1 : Overview/Biochemistry

Biochemistry is a basic science that constitutes the foundation of working of livings. In a medical college, medical biochemistry deals with biochemical basis of normal functioning of all systems in human body. In case of any health problem, Biochemical investigation help a physician to reach at a diagnosis. It connects science, medicine and health and creates a framework for understanding how the human body adapts stresses, physical activity and disease. This understanding enables students correlate between biochemistry of a disease and its treatment, contributing to the development of the core skills of a competent doctor.

Biochemistry department is a full fledged department in Governmetn Medical College, Nandurbar which conducts quiz programmes and student seminars on regular basis. The department is equipped to fulfill students need and make them well trained medical professionals, especially in aacordance with the latest CBME based curriculum.

Curriculum :

as per the MUHS Nashik, available at http://www.muhs.ac.in/upload/syllabus/phase1_060812012_1233.pdf

Goal:

1. To Provide comprehensive knowledge of biochemical basis of normal functions of the body.
2. To understand biochemical basis of diseases.

Educational Objectives:

1. At the end of the course students will be able to describe the biochemical basis of all the systems, Biochemistry of various compounds, their metabolism and interactions of various pathwatys for well coordinated total body functions.
2. To understand the relative contribution of major biochemical compounds and their metabolism pathways in homeostasis.
3. To understand the Clinical correlation of biochemical parameters with various diseases.
4. Correlate knowledge of biochemistry with other systems in human being.

Skills: At the end of course students should be able to

1. Conduct experiments designed for study of biochemical functions.
2. Distinguish normal and abnormal results of tests which he/she performs and observs in the laboratory.
3. Diagnose the disease condition based on laboratory reports.

Page 2: FACULTY

Head of the Department: Dr. Sanjay B. Gaikwad

Sr. No	Name	Post	Qualification	Emailid
1	Dr. S. B. Gaikwad	Professor & HOD	Ph. D	gaikwad62@rediffmail.com
2	Dr. Deepak Bokankar	Associate professor	MBBS, MD	drbokankar@gmail.com
3	Dr. Raviraj R. Naik	Assistant Professor	MBBS, MD	ravirajnk15@gmail.com
4	Amarsingh Hajari	Assistant Professor	M.Sc	
5	Dr. Prashant Patil	Assistant Professor	MBBS, MD	dr.pp.bjmc@gmail.com
6	Mr. Amol Waghmare	Tutor	M.Sc	Waghmare358@gmail.com
7	Miss. Pranita Kamble	Tutor	M.Sc	

List of non-teaching staff:

Sr. No	Post	Name
1	Technician	Shri. Sabir Kazi
2	Technician	Shri. Yuvraj Endait
3	Junior Clerk	Shri. K. Fulpagare
4	Peon	Shri. A. Chaure

Page 3: Duties and Responsibilities-

Professor in Biochemistry:

1. To teach UG & PG students in subject.
2. To take tutorial classes.
3. To arrange teaching programme of department in consultation with dean.
4. To guide & conduct research in subject.
5. To be incharge as Head of Department (HOD)
6. To do any other work that may be assigned to him by Dean.

Associate Professor in Biochemistry:

1. To look after the work of Biochemistry
2. To be responsible for lecture, demonstration & practical classes in the subject & any other department work assigned by professor & Dean.
3. To take part in research work & also to help professor in supervision of department work, store & verification.
4. To perform any other duties so may be allotted by the professor & Dean in the interest of departmental work.

Assistant Professor in Biochemistry:

1. To assist the professor in teaching the subject
2. To conduct tutorials and demonsration.
3. To arrange and supervise the practical in the department.
4. To prepare samples for laboratoy practical when required.
5. To assist professor in research.
6. To be responsible for the stores and laboratories under his charge.
7. To do duties assigned by the professor or Dean of the college.

Page 4: FACILITIES

The department of Biochemistry is well equipped and consist of following laboratories:

1. Biochemistry laboratory
2. Central Research laboratory

All the laboratories are provided with adequate infrastructure and equipments to accommodate 25 students.

Equipments:

The department has all the necessary equipments as per NMC norms.

Page 5: RESEARCH & PUBLICATIONS

Dr. Sanjay B. Gaikwad

1. Study of serum Electrolyte in Acute Renal Failure:Pre & Post Dialysis. International Journal of Innovative research in Medical Science (UIRMS) Vol 3 Issue 02 Feb 2018
2. Ischemia modified albumin- A novel marker in diagnosis of myocardial ischemia-paper accepted for publication dated 10/12/2017 in International Journal of Biochemistry International Journal of Innovative research in Medical Science (UIRMS) Vol 3 Issue 02 Feb 2018.
3. A Study of Protein oxidation & Alterations in the saliva of oral Squamous cell Carcinoma. IOSR Journal of Dental & Medical Sciences. Vol.17,Issue 3 Ver, mar-2018.
4. Evaluation of Early Adjuvant Blood marker in Acute Kidney Injury Diagnosis. Walawalkar International Medical Journal.Vol No.5, Issue N.1,2018
5. Association Between TSH Levels & Serum Lipid Concentration in Hypothyroid Patients. International Journal of scientific research. Volume-8, Issue-7 July- 2019.
6. Comparison of stability of blood lactate in F/OX and plain bulb stored at 2-80C after 24 hours and 48 hours INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH Volume-8 | Issue-7 | July - 2019 | pg. No. 2277 – 8179
7. Evaluation of HPT Markers in B Thalassemia Major Patients. Indian Journal of Applied Research Volume 4, Issue 1, Jan.2014.
8. Erythrocyte CAT, GPX and GR levels in pregnant anemic women. Med Pulse International journal of Biochemistry

Dr. Raviraj R. Naik

1. Asian Pacific Journal of Health Sciences ; Comparison of serum testosterone and progesterone levels in surgical and natural menopause; 2014 ; vol 1(3):238-243.
Raviraj R Naik 1 , R S Chandel 2 , S D Dakhure 3
2. International Journal of Recent Scientific Research ; Comparative study of serum calcium in surgical & natural menopause; August 2015 ; Vol. 6, Issue(8) : 5717-5718.
Raviraj.R. Naik1 , Sarita.D. Dakhure2 , Leela.G.Abichandani3
3. International Journal of Recent Trends in Science and Technology ; Study of good and bad cholesterol in surgical and natural menopause ; July 2015 ; vol 15(3): 564-566.
Raviraj.R. Naik1 , Sarita.D. Dakhure2 , Leela.G.Abichandani3

4. International Journal of Recent Trends in Science and Technology , Screening of neonates for Glucose-6- Phosphate Dehydrogenase deficiency in Adivasi area of Vasai Taluka ;Aug 2015;VOL 16(1):20-21.Raviraj.R. Naik¹ , Sarita.D. Dakhure² , Leela.G.Abichandani³
5. International Journal of Medical Research & Health Sciences ; Comparative study of gonadotropin levels and clinical presentation in surgical and natural menopause ; 2014 ; vol 3(1):149- 154. Raviraj.R. Naik¹ , Rittu Chandel² , Leela.G.Abichandani³