DEPARTMENT DETAILS- BIOCHEMISTRY

Mission/Goal

Mission

To deliver high-quality education in biochemistry, promote clinical excellence through advanced diagnostic services, and encourage impactful research that addresses local and global health challenges. The department strives to nurture competent, ethical, and research-oriented professionals dedicated to improving healthcare outcomes.

Goals

1. Academic Development

- Strengthen undergraduate teaching by increasing qualified faculty and integrating modern teaching methodologies.
- Introduce early clinical exposure to bridge theoretical knowledge with real-world application.

2. Student Engagement

 Motivate students to participate in research activities such as ICMR-STS and MUHS Avishkar.

3. Clinical Laboratory Advancement

- Expand diagnostic capabilities by introducing advanced biochemical tests using Chemiluminescence Immunoassay.
- Upgrade the existing lab to a state-of-the-art facility aligned with national standards.

4. Research Excellence

- Promote high-quality, socially relevant research by ensuring access to modern instrumentation and funding.
- Address regional health issues through biochemical approaches and strategic problem-solvin

List of Teaching Faculties

Sr. No.	Name of Faculty	Designation	Qualification	Total Teaching experience	Photo
1.	Dr Rajesh Jambhulkar	Associate Professor and Head	MBBS, MD, DNB - Biochemistry	12 Years	
2.	Dr. Santosh Saini	Junior Resident	MBBS	8 Months	
3.	Dr. Sanjay Meena	Junior Resident	MBBS	3 Months	

List of Non-Teaching Staff

Sr. No.	Name	Post
1	Mr. R D Mahajan	Technician (MBBS UG LAB+Thyroid lab + Tumor marker)
2	Mr.NilkanthMahale	Technician (CCL)
3	Mr. R D Shirude	Technician (CCL)
4	Mr.Pravin More	Technician (MBBS UG Lab)
5	Mr DilipPawar	Technician (Thyroid Lab+ Dept Lab)
6	Mrs MeghaSonwane	Technician (CCL)
7	Mr PremTotre	Assistant Technician (CCL)
8	Mr TusharNagre	Assistant Technician (CCL)
9	Mr Santosh Ghuge	Clerk

Activities by Department

- 1. Innovative, student-focused teaching with early clinical exposure.
- 2. Support for UG research (ICMR-STS, MUHS Avishkar).
- 3. Advanced lab tests including hormonal assays via CLIA.
- 4. Regular quality control for accurate lab reporting.
- **5.** Faculty development through research and training programs.

Best Practices/ facilities/Services offered by Department (If any) 24 x7 Clinical Biochemistry laboratory Routine clinical tests

Routine Biochemistry Tests

- Blood Glucose (Fasting, Postprandial, Random)
- Urea, Creatinine
- Uric Acid
- Total Protein, Albumin, Globulin
- Bilirubin (Total, Direct, Indirect)
- SGOT (AST), SGPT (ALT), ALP
- Lipid Profile (Cholesterol, Triglycerides, HDL, LDL, VLDL)
- Electrolytes (Sodium, Potassium, Chloride)
- Calcium, Phosphorus
- CRP (C-Reactive Protein)

Special Investigations (Advanced)

- Thyroid Profile (Free T3, Free T4, TSH)
- HbA1c
- Serum Amylase, Lipase
- Cholinesterase
- Tumor markers- CEA, AFP, PSA, CA-125, CA19-9

List of Publications and Research (Faculty wise)

Sr. No.	Publication in Vancouver Style	Indexing System
1	Jambhulkar R. <i>Serum Prolactin: A clue to breast malignancy</i> . Med Lab J. 2022;16(1):13–19	DOAJ

2	Jambhulkar RK, Mahajan BH. Effect of meditation on lipid profile of	Index
	post-menopausal women. Int J Recent Trends Sci Technol.	Copernicus
	2014;9(3):438–41	
3	Fupare S, Jambhulkar RK, Tale A. Correlation of thyroid hormones	Index
	with infertility in reproductive age group women. Indian J Basic	Copernicus
	Appl Med Res. 2015;4(4):488–95	
4	Jambhulkar R. The study of Paraoxonase 2, lipid profile and TOS in	DOAJ
	ischemic stroke. J Med Sci Health. 2020;6(2):8–13.	
5	Puppalwar PV, Jambhulkar RK. Jigsaw technique – A novel method	Index
	of teaching biochemistry to medical undergraduates. Int J Med Sci	Copernicus
	Public Health. 2019;8(12).	

Achievements/ Awards

- Jambhulkar RK. Case Oriented Approach in Biochemistry. 2nd ed. New Delhi: IP Innovative Publication Pvt. Ltd.; 2023. 148 p. ISBN: 978-8196276225.
- Jambhulkar RK. Golden Notes: Biochemistry Rapid Revision
 Handwritten Notes. 3rd ed. New Delhi: Jaypee Brothers Medical
 Publishers Pvt. Ltd; 2024. 441 p. ISBN: 978-9356965782.
- 3. Best Book Author- for "Case Oriented Approach in Biochemistry" by 5th National editor summit 2023& 2024 Innovative education and scientific Research foundation

Photo Gallery





