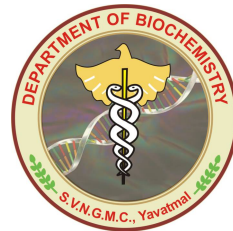




DEPARTMENT OF BIOCHEMISTRY
SHRI VASANTRAO NAIK GOVERNMENT MEDICAL COLLEGE, YAVATMAL



Departmental detail

Introduction:

The department of Biochemistry has two functional parts

1. **ACADEMIC:** We teach 150 students of first MBBS, 60 students of I,II and III BPMT. Department has post graduate teaching facilities has capacity of two MD students per year.
2. **LABORATORY SERVICES:** We have one autoanalyzer, one semiautoanalyzer, Electrolyte analyser and we analyse samples from various department round the clock.

Mission:

The Department of Biochemistry sees as its mission to:

1. Offer a high quality courses in Biochemistry appropriate for medical students as well as students in related fields, such as other allied health studies (BPMT).
2. Provide the science major with an introduction to biochemistry course as well as advanced Biochemistry and Molecular Biology courses at the masters-level graduate studies and post graduate students.
3. Encourage and assure high quality research and other scholarly activity on the part of both faculty and students.
4. To offer high quality laboratory services at cost effective rates
5. To introduce early clinical exposure in Biochemistry for first MBBS students

Vision:

Academic – Undergraduate teaching

1. Increase the intake capacity of medical undergraduates from 150 to 200 with concomitant increase in high quality teaching faculties that is at least one professor, two associate professors and three assistant professors in next five years
2. To introduce early clinical exposure that will increase student knowledge in clinical application of Biochemistry
3. To encourage UG students to participate in various research activities viz ICMR- STS, MUHS – Avishkar
4. To inculcate new teaching methodologies and newer teaching techniques by practicing various educational projects

Academic – Postgraduate teaching

1. To attract post graduate students by making them aware of the opportunities in the field of clinical Biochemistry, Research, Molecular biology
2. High quality instrumentation and the financial support needed to ensure teaching and research of the highest quality.

Clinical Biochemistry Laboratory

1. This department will provide laboratory investigations to pinpoint the diagnosis and help in treatment and prognosis of diseases

Stage I :- to start the investigations for infertility and thyroid scanning in next 2 years by Chemiluminescence immunoassay technique e.g. FSH, LH, Prolactin, T3,T4,TSH, Free T3, Free T4 etc.

Stage II: - to start the investigations for prostate cancer and other diseases e.g. PSA, in next 4 years

2. To convert the existing laboratory into state of the art laboratory at par with reference laboratories
3. To promote honesty, integrity and tolerance among staff and students

Research

1. To encourage and assure high quality research in clinical and educational field having social implications which require proper funding for instruments and consumables.
2. To identify local and global issues that need intervention by a Biochemist, and develops intelligent strategies and biochemical approaches in problem solving methods.

Faculty

1. To increase the number of faculties by at least one professor, two associate professors and three assistant professors in next five years
2. To increase the quality and number of research papers in next five years
3. To encourage the faculty to undergo basic and advanced courses/ training programs in research, education and laboratory services

Functions and Objectives

1. To ensure through a strong core curriculum, that students acquire a basic knowledge in Biochemistry and Molecular Biology.
2. To encourage students to develop a life-long commitment to learning.
3. To help students acquire depth of knowledge and competence in Biochemistry and Molecular Biology
4. To train students in methods of academic inquiry, scientific research and problem solving.
5. To promote high quality research in the fields of Biochemistry and Molecular Biology.
6. To provide optimum laboratory facilities for basic and advanced laboratory services to the patients
7. To develop human resources in laboratory with high technical precision and accuracy

BIOCHEMISTRY- Head of Department

Sr No	Head of Department Name	From	To
1	Dr. C.N. Kowle	01/08/1989	08/10/1995
2	Dr. N.R. Akarte	12/10/1995	17/03/1998
3	Dr. C.N. Kowle	18/03/1998	31/05/2001
4	Dr. M.G. Muddeshwar	16/06/2002	03/10/2002
5	Dr. C.M. Iyer	03/05/2003	11/08/2005
6	Dr. N.R. Akarte	22/08/2005	19/01/2006
7	Dr. B. B. Murhar	25/07/2006	28/09/2012

8	Shri. Mahendra Pakhale (Acting)	29/09/2012	16/06/2014
9	Dr. Priti Puppalwar(Acting)	17/06/2014	15/09/2014
10	Dr. Arun K. Tadas	16/09/2014	09/06/2017
11	Dr. Priti Puppalwar (Acting)	10/06/2017	17/10/2017
12	Dr. Prashant Dharme (Acting)	18/10/2017	Till date

DEPARTMENT OF BIOCHEMISTRY

NAME OF FACULTY

NON TEACHING

<u>Designation</u>	<u>Name</u>
<u>Professor</u>	Dr. Virendra Bubna
<u>Associate Professor</u>	Dr. Prashant Dharme (H.O.D.) Dr. Reena Wagh
<u>Assistant Professor</u>	Mr. Mahendra Pakhale Dr Suvarna Tale Dr
<u>Tutor / Resident</u>	Dr Pushpa Garole Dr Achal Sukhdeve

STAFF

<u>Designation</u>	<u>Name</u>
<u>Lab. Technician</u>	Shri. Nitin Khadse Shri. Uttam .S. Rathod Mrs Shobha Wasave Mrs Madhuri Jain Mr Ajay Gohane Mr Ranjit Chaudhary
<u>Lab. Assistant</u>	Shri Vijay Kagdelwar Shri Deepak Gangamwar Shri Ashol.Lokhande Shri Bhaskar Nannaware Mrs Deepali Chaudhary Mr Mrunal Wakekar
<u>Stenographer/Clerk</u>	Mrs Khadase
<u>Attendent</u>	Ashok Shende Mirabai Umre
<u>Sweeper</u>	Dinesh Tomskar Kirti Bahonia

FACILITIES

UNDER GRADUATE TEACHING:

1. Didactic Lectures
2. Tutorials
3. Practical/lecture cum demonstration
4. Seminar
5. Quiz competition
6. Newer teaching methodology- Horizontal and Vertical Integrated teaching programme

POST GRADUATE TEACHING:

1. Seminar
2. Practical
3. Journal presentation
4. Microteaching
5. Case presentation
6. Group discussion

□ **DEPARTMENT LIBRARY**

□ **RESEARCH LABORATORY**

□ **24X7 BIOCHEMISTRY LABORATORY (Incharge : Nr. Mahendra Pakhale)**

1. Routinely carries out internal and external quality control (CMC, Vellore)
2. Routine Investigation:-RBSL, Serum Protein, Serum Albumin, Serum Globulin, Serum SGOT, Serum SGPT, Serum Calcium, Serum Phosphorus, Serum Uric Acid, Serum Bilirubin, Serum Alkaline phosphatase, Serum Urea, Serum Creatinine, Serum Electrolytes, Serum Acid Phosphatase, Serum Amylase, Body Fluids
3. Special Investigation: - Cholinesterase, Lipid Profile, Amylase, CSF Biochemical investigation, Electrolyte
4. Instruments: Fully automatic random access analyzer, electrolyte analyzer, semiautoanalyzer

ANY OTHER INFORMATION:

ONGOING RESEARCH PROJECTS:

1. Effect of storage time and temperature in Biochemical serum analyte
2. Jigsaw puzzle in Biochemistry

RESEARCH PROJECT COMPLETED

1. Evaluation of mean platelet volume in type II DM
2. Cystatin C as a cardiovascular risk marker in CRF
3. Impact of early clinical exposure in Biochemistry in first year MBBS students

Any research Publications during last TWO year

Sr No	Publication type	Authors	Title of paper	Name of journal	Year of publication
1	National	Dr Prashant Dharme, Dr Sandip Lambe, Dr Bhushan Mahajan, Dr Manisha Achawale	Study of Thyroid Profile and its association with Glycemic control in Type II Diabetes Mellitus	Indian Journal of Applied Research, Volume-7, Issue-7, July-2017, Page 348-350.	2017
2	International	Dr Prashant Dharme, Dr Shweta Katkar	Utility of Lipid Measurements in early detection of Oral Malignancy	Medplus International Journal of Biochemistry, Volume 1 (3), March 2017, Page 27-30	2017
3	International	Dr Sharad V Kuchewar, Dr Priti V Puppalwar , Dr Jayant Vagha	Effectiveness of didactic lecture and demonstration in improving the competency of interns in writing injury certificate	<i>IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)</i> e-ISSN: 2279-0853, p-ISSN: 2279-0861. Volume 15, Issue 9 Ver. IX (September). 2016), PP 125-129	2016
4	National	Jayashree S Sathe1, Sanjay S Pramanik 2, Rajesh K Jambhulkar3, Harshal Pachpor4	Pre Donation Deferral of Blood Donors- A Retrospective Study	Indian Journal of Basic and Applied Medical Research; December 2016: Vol.-6, Issue- 1, P. 325-331	2016
5	International	Jayashree S Sathe1, Sanjay S Pramanik 2, Rajesh K Jambhulkar3	EDTA induced morphological changes in the cells of peripheral blood smear	International Journal of Recent Trends in Science And Technology, ISSN 2277-2812 E-ISSN 2249-8109, Volume 22, Issue 2, 2017 pp 117-120	2017
6	International	S.S. Pramanik , K.N. Harley, R.K. Jambhulkar, R.K. Das, J.S. Sathe	Investigating pre and post-operative blood gases and serum electrolyte in patients undergoing coronary artery bypass surgery (CABG)	International Journal of Clinical Biochemistry and Research 2017;4(2):149-153	2017
7	International	Prashanti E, Dr Priti V Puppalwar	Moderation of an online discussion on communication skills- a GSMC FAIMER	MeEd Publish amee article	2017
8	International	Mahendra R. Pakhale , Dr. TruptiRamteke, Dr.	Changes in lipid profile and liver enzymes in HIV infection and AIDS	International Journal of Scientific and Research Publications,	2015

		ArunTadas	Patients	Volume 5, Issue 9	
9	International	Mahendra r. Pakhale , Dr. NishikantTiple	Quantitation Of Proteinuria By Spot Urine Sampling	International Journal of Science, Engineering and Technology-Volume 3 Issue 5: 2015	2015
10	International	Mahendra R. Pakhale , Varshay R. Pakhale, Dr.Harshalpachpor, Dr. S. Pramanik	Enzymes Role in Our Life	Journal of Enzymology. Photon 113 (2015) 130-137	2015
11	International	Mahendra R. Pakhale , Atul Padmawar	A correlation study of serum uric acid level in normal pregnancy and PIH	International Journal of Science and research, volume 6 issue 8, aug 2017	2017

DETAILS OF ANY AWARDS AND ACHIEVEMENT RECEIVED BY THE STUDENTS OR ANY FACULTY

1. Second prize in Biochemistry Vidarbha level Quiz competition for under gradutes-2014
4. Second prize in paper presentation at AMBICON 2015 at LTMC, Sion, Mumbai- 2015
5. Participated in Quiz competition for under gradutes-2015
6. Conducted Vidarbha level Quiz competition for under gradutes-2015-16
7. Selection of Dr Priti Puppalwar in FAIMER
8. Best worker award Associate professor-26/01/2015- Dr Priti Puppalwar
9. Best worker award Assistant professor- 26/01/2015-Mr Mahendra Pakhale
10. Certificate of appreciation in Organ donation campaign- Dr Priti Puppalwar, Dr. Rajesh Jambhulkar

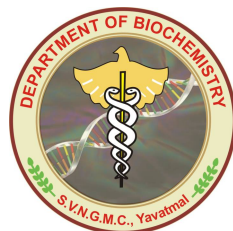
DETAILS OF INVESTIGATIONS IN CLINICAL BIOCHEMISTRY LAB ORATORY.

STATEMENT OF YEARLY INVESTIGATION OF CLINICAL BIOCHEMISTRY LABORATORY

INVESTIGATION / YEAR	2014			2015			2016			2017			2018 (Till June 2018)		
	OPD	IPD	TOTAL	OPD	IPD	TOTAL	OPD	IPD	TOTAL	OPD	IPD	TOTAL	OPD	IPD	TOTAL
GLUCOSE	21464	6356	27820	17849	10327	28176	20622	12679	33301	19130	15147	34277	8942	9800	18742
UREA	18862	8039	26901	13639	16106	29745	10628	15801	26429	13014	23542	36556	7126	12356	19482
CREA.	18378	7551	25929	11395	12704	24099	12113	17831	29944	12919	23135	36054	7164	12324	19488
SGOT	15277	4586	19863	13918	15616	29534	12424	15394	27818	9266	12425	21691	6596	7254	13840
SGPT	18133	5157	23290	13892	15716	29608	10203	12245	22448	9014	11458	20472	6596	7254	13840
ALK.PHOS.	1010	142	1152	197	401	598	143	736	879	0	0	0	2	8	10
CHOLESTERol	725	122	847	826	679	1505	275	407	682	732	386	1118	324	398	722
TOTAL .PROTEIN	2132	561	2693	1021	1966	2987	573	3189	3762	648	3189	3837	618	2002	2620
ALBUMUN	2123	554	2677	1021	1958	2979	560	3178	3738	648	3267	3815	618	2002	2620
BILIRUBIN	19404	8198	27602	15529	16936	32465	12948	22786	35734	11791	28017	39808	6982	15700	22662
SODIUM	1561	1782	3343	177	1366	1543	689	12087	12776	779	11699	12478	1926	10626	12552
POTASSIUM	1160	1339	2499	176	1359	1535	779	12057	12836	776	11632	12408	1912	10610	12352
CALCIUM	36	11	47	29	29	58	25	11	36	2	11	13	32	186	218
URIC ACID	829	1022	1851	246	1076	1322	335	1432	1767	418	779	1197	194	528	722
AMYLASE	15	4	19	3	57	60	12	41	53	3	59	62	0	114	114
ACID Phospharase										2	25	27	0	100	100
TG	588	107	695	604	457	1061	304	442	746	363	189	552	322	350	702
Phosphorus	0	0	0	0	0	0	0	22	22	0	0	0	0	0	0
CSF	90	55	145	8	83	91	3	104	107	2	141	143	2	176	178
OTHER	553	77	630	78	109	187	21	137	158	11	384	395	12	164	176
CHOLINESTERASE										1	629	630	2	1102	1104
TOTAL	122340	45663	168003	90608	96945	187553	82657	130579	213236	79519	146114	225633	49350	93074	142424

DEPARTMENT OF BIOCHEMISTRY

SHRI VASANTRAO NAIK GOVERNMENT MEDICAL COLLEGE, YAVATMAL



Clinical Biochemistry Laboratory

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STAFF IN CLINICAL BIOCHEMISTRY LABORATORY

<u>Designation</u>	Name
<u>INCHARGE</u>	Mr. Mahendra Pakhale
<u>Lab. Technician</u>	Shri. Nitin Khadse Shri. Uttam .S. Rathod Mrs Shobha Wasave Mrs Madhuri Jain Mr Ajay Gohane Mr Ranjit Chaudhary
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