

Department of Biochemistry

Bharati Vidyapeeth Deemed To Be University Medical College, Pune 411043.

The Department of Biochemistry was established in June 1989, as a constituent unit of Bharati Vidyapeeth Medical College, Pune.

The Department is located on the 2nd floor of Bharati Vidyapeeth Medical College building and spread over an approx. 10,000 Sq.ft area, providing space for well-equipped undergraduate Practical halls, Lecture and demonstration rooms, Library cum seminar room, Research lab, Specialty lab and well-furnished Faculty rooms.

4th Floor of Bharati Hospital and research harbors the NABL accredited Clinical Biochemistry laboratory with state of art equipments with latest technology of Integration.

The department strives to achieve excellence in the fields of undergraduate teaching and training, diagnostics and research by providing holistic education inclusive of up-to-date knowledge in the field of clinical chemistry and quality reports to the patients of Bharati Hospital.

Goal:

To provide scientific basis of life processes at molecular level to the students and orient them towards the correlation of biochemical analysis and interpretation for diagnosis in health and diseases.

To follow the process of Total Quality Management in all spheres of clinical biochemistry laboratory functioning by streamlining all the processes and systems to achieve satisfaction of patients as well as clinicians.

Objectives:

- To impart the chemical & structural knowledge about biomolecules.
- To provide an understanding of the biochemical and molecular basis of disease.
- To integrate biochemical events with structure and function of body in health and diseases.
- To enable students to use this knowledge in biochemical analysis to interpret by using recent techniques.
- To update the equipmetation and tests catalogue time to time in clinical biochemistry laboratory to improve quality of reports and decrease Turnaround Time.

- To undertake research projects in areas of current interests and identify future biochemical markers for aiding accurate clinical prognosis and diagnosis.

Courses:

Department is involved in teaching and training of various undergraduate and postgraduate courses as follows:

Sr. No	Course	Year of Commencement	Intake/yr
1	MBBS	1989	150
2	DMLT	1996	25
3	M.D (Biochemistry)	2010	03
4	M.Sc (Medical. Biochemistry)	2000	03
5	Ph.D (Medical. Biochemistry)	2007	01
6	Bsc Skills (Laboratory Sciences)	2019	40

Dedicated and Highly Motivated Faculty:

The teaching faculty is well experienced, qualified, highly motivated and dedicated.

They keep themselves updated in latest updates in medical education clinical chemistry by attending knowledge events time to time as well as they are called as a resource person for such events.

Faculty members also share actively academic and administrative responsibilities of the college and university like the student's council committee, Institutional Ethics Committee, Medical Education Unit, NAAC, NIRF, Sports and Cultural etc.



Innovations in Teaching Learning:

To keep increase the interest in subject and active participation UG students are exposed to various innovative teaching and learning methods like Problem based learning, group seminars, role play etc.

Accreditation and Automation: at Clinical Chemistry Section of Laboratory:

We have state of art integrated biochemistry and immunoassay analyzers with a wide test menu available for the patients of Bharati Hospital. As we are NABL accredited our Quality System Procedures makes us deliver reliable and rapid results.



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**BHARATI VIDYAPEETH UNIVERSITY MEDICAL COLLEGE
HOSPITAL AND RESEARCH CENTRE LABORATORY**

has been assessed and accredited in accordance with the standard

ISO 15189:2012

**"Medical laboratories - Requirements for quality and
competence"**

for its facilities at

DHANAKAWADI, PUNE-SATARA ROAD, PUNE, MAHARASHTRA, INDIA

in the field of

Medical Testing

Certificate Number: MC-2181

Issue Date: 08/05/2019

Valid Until:

07/05/2021*

*The validity is extended for one year up to 07.05.2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : BHARATI HOSPITAL

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

Teaching and Learning:

Apart from conventional teaching and learning, department practices and encourages learners to participate in other innovative teaching and learning activities like group seminars, role plays, state level quizzes.

Department has developed in-house E resources like standardized powepoint presentations and videos demonstrations.

Undergraduates:

- They are encouraged to participate in various activities like Quiz; Seminars conducted at departmental, state and national level (Elsevier), their preparations are carried under close supervision of the faculty.
- Proud of about 30 Distinction holders in Biochemistry at I MBBS university exams during past 5 years.
- Remedial Teaching programme is arranged regularly for academically poor students.
- Regular feedbacks are obtained from students and actions are implemented.

Post graduate:

- They are encouraged to attend various CMEs, workshops to gain new knowledge and skills.
- They are also encouraged to present their research work during various state and national conferences and publish papers.

Innovative Group Seminar Activity for The Undergraduate Students:

• **Introduction of Activity:** Department of Biochemistry is conducting the seminar for Undergraduate students since 2007. Each practical batch of 40 students used. 4 topics were allotted which used to be presented by 4 students from each batch. The presentations were used to be judged on the basis of presentation skills, use of AV aids, question and answers, etc. This activity was very good for individual students' knowledge and skill enhancement.

• **Limitation of the Activity:** However, with time we came across few limitations of these individual seminars that only 16 students out of 150 were used to get benefited. However, for others, it used to be a passive activity.

• **Innovation done this year:** Therefore, this year we thought of undertaking a "Group seminar" to explore curricular as well as co-curricular skills like communication, presentation, team building, leadership, etc. The students were supposed to present the topic allotted to their batch by the mode of role play, skit or any other methodology apart from conventional. The performances were judged by the individual faculty on the basis of:

1. Scientific Content
2. Team Efforts
3. Presentation
4. Question and Answers.

The performance of Top two teams was presented in front of the whole class.

Success of the activity:

The activity was very well appreciated by all the students. Almost 15 students from each batch were on the stage to perform the activity. They not only explored the biochemical part of the topic but also its vertical and horizontal aspects related to the topic. This ensured learning as a whole. This activity became more student driven and active as before.

- Following are the you tube links for these group seminars:

Sr. No	Batch	Topic	Link
1	Batch A	Oxidative Phosphorylation	https://youtu.be/KsUhEEbighY
2	Batch B	Diabetes Mellitus	https://youtu.be/b2cEguLLpOo
3	Batch C	Sickle Cell Anemia	https://youtu.be/QkF36Q9B77k
4.	Batch D	Part I :Jaundice	https://youtu.be/aolWR6jxvVo
5.	Batch D	Part II:Jaundice	https://youtu.be/zi40Ik1KD5

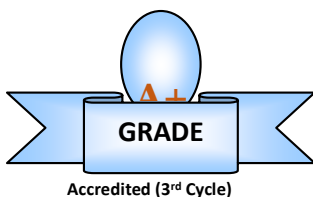


Central Clinical Laboratory

- Augmentation of Infrastructure of Biochemistry section of central clinical laboratory of Bharati hospital was done during 2015- 2016.
- New lab is almost 2000 sq. ft, with upgraded and highly sophisticated and automated integrated equipment.
- This has improved the quality of laboratory reports and turnaround time.
- Technical staff is also encouraged to participate in various CMEs
- Routine tests of Biochemistry section are accredited by NABL (NABL Certificate Number: MC:2181) as per ISO 15189:2012.

Facilities for Hospital Services

Sr.No	Instruments Services Provided	Services Provided
1	Fully Automated & Semi Automated Biochemistry Analyser	All routine Biochemistry parameters – liver function, kidney function, diabetic profile, Cardiac Markers, CRP
2	Fully Automated Chemiluminescence Immunoassay	Thyroid Profile, Fertility/ANC profile, Anemia profile, Tumor markers, vitamins.
3	UV-VIS Spectrophotometer	Oxidative stress markers, Enzymology, Vitamins, Drug concentration study
4	Electrolyte and Blood Gas Analysers	Serum Electrolytes and Blood gases
5	Nyco Card Reader and HPLC (D10)	Hemoglobinopathy detection and HbA1c measurement
6	Osmometer	Serum & Urine Osmolarity
7	Electrophoresis apparatus with Densitometer	Protein Electrophoresis
8	Refrigerated high speed centrifuge	Separation of serum/plasma
9	Deep freeze and Walk in cooler	Storage of specimen and reagents



BHARATI VIDYAPEETH
(DEEMED TO BE UNIVERSITY)
MEDICAL COLLEGE,
PUNE – SATARA ROAD, PUNE – 411 043
Department of Biochemistry

By

LIST OF BIOCHEMICAL INVESTIGATIONS

CENTRAL CLINICAL LABORATORY OF BHRC, PUNE.

i) Routine Biochemistry Investigations:

Equipments used:

1. Alinity Integrated Chemistry Platform
2. Automated Analyzer - Randox Imola
3. Semi Auto Analyzer EC-7
4. Electrolyte analyzer - Pro LYTE and Medica Easy

Sr. No	Name of The Investigation	Sr. No	Name of The Investigation
1	Blood Glucose: Fasting/PP/Random/OGCT/GTT	11	Serum Triglycerides
2	Serum Electrolytes – Na, K, Cl, Ionized Ca	12	HDL cholesterol
3	Serum Total Proteins	13	Blood Urea
4	Serum Albumin and A:G ratio	14	Serum Creatinine
5	Serum Globulin	15	Total calcium
6	Serum Bilirubin Total & Direct	16	Serum Uric acid
7	Serum Glutamate Oxaloacetate Transaminase (S.G.O.T) / AST	17	Serum Inorganic Phosphorus
8	Serum Glutamate Pyruvate Transaminase (S.G.P.T) / ALT	18	Serum LDH
9	Serum Alkaline Phosphatase	19	Serum ADA

10	Serum Cholesterol	20	Blood Urea Nitrogen
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II) Special Biochemistry Investigations:

Equipments used:

1. Alinity Integrated Chemistry Platform
2. Automated Analyzer - Randox Imola
3. Hemoglobin testing system (Biorad) - D - 10
4. Semi Auto Analyzer EC-7
5. Electrolyte Analyzer - Pro LYTE and Medica Easy
6. Blood Gas Analyzer - ABL-80 FLEX
7. Triage Meter Pro
8. Bio-Rad ELISA System

Sr. No	Name of The Investigation	Sr. No	Name of The Investigation
1	Serum Amylase	9	CRP
2	Serum Lipase	10	Troponin I
3	HbA1c	11	G6PD
4	Serum Magnesium	12	ABG with lactate and electrolytes/VBG
5	Serum Cholinesterase	13	Iron TIBC
6	Serum CPK (NAC)	14	Serum Osmolality
7	Serum CPK MB	15	New Born Screening (NBS):G6PD,Total Galctose
8	Blood Ammonia	16	Sweat Chloride

III) Routine Endocrinology Investigations:

Equipments used:

1. Abbott Architect Plus i1000 SR
2. Alinity Integrated Immunoassay Platform

Sr. No	Name of The Investigation
1	T ₃ , T ₄ , TSH,
2	Free T ₃ , Free T ₄
3	Serum Ferritin
4	FSH
5	LH
6	Prolactin

IV) Special Endocrinology Investigations:

Equipments used:

1. Abbott Architect Plus i1000 SR
2. Alinity Integrated Immunoassay Platform
3. Bio-Rad ELISA System

Sr. No	Name of The Investigation	Sr. No	Name of The Investigation
1	B HCG	7	BNP
2	Procalcitonin	8	CA125
3	Vitamin B12	9	PSA
4	Vitamin D	10	Folic acid
5	Testosterone	11	Cortisol
6	Homocysteine	12	New Born Screening (NBS): TSH,17OHP

V) Fluid Biochemistry

Equipments used:

1. Alinity Integrated Chemistry Platform
2. Automated Analyzer - Radox Imola
3. Semi Auto Analyzer EC-7
4. Electrolyte analyzer - Pro LYTE and Medica Easy

Sr. No	Name of The Investigation	Sr. No	Name of The Investigation
1	Fluid ADA	9	Spot/24 hrs.Urine UPCR
2	Fluid LDH	10	CSF Chemical Examinations: Protein and Sugar
3	Fluid Amylase	11	24 hrs urinary sodium
4	Fluid Lipase	12	24 hrs urinary potassium
5	Fluid Cholesterol	13	Urine Microalbumin
6	Fluid Triglycerides	14	Urine Chloride
7	Spot/24 hrs urinary proteins	15	Urine Osmolality
8	Spot/24 hrs urinary creatinine	16.	eGFR

Research and Publications

Thrust Areas of research

- Oxidative Stress and Antioxidants
- Experimental Cataract
- Endocrine disorders
- Molecular Biology
- Laboratory Medicine
- Biochemical Markers in Covid 19
- Medical Education
- Noncommunicable Diseases

Number of Publications 2011 to December 2020

Sr No	Journals	No of Publications	Indexed in
1	International Journals	48	Pubmed, Scopus, Indian Citation Index, Web of science, Google Scholar
2	National Journals	20	
3	State	00	

A) Research Projects Funded by BVU, Pune

Sr.	Title of the Project	Year & Status	Principal I
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No.			Co-Investigator
1	Prevalence and Potential Significance of Vita min D and Cardiovascular diseases.	2013-2015 Completed	Dr. R. R. Melinkeri Dr. M. K. Padwal
2	Evaluation of Oxidative stress in respiratory diseases in pediatric patients.	2013-2015 Completed	Dr. N. A. Vaidya Dr. P. M. Bulakh
3	Effect of Pyruvate and Cysteine on lens enzyme in experimental cataract	2013-2015 Completed	Dr. P. H. Padalkar Dr. P. M. Bulakh
4	Study of medicinal plants on lens enzymes in experimental diabetic cataract	2013-2015 Completed	Dr. A. M. Hajarnavis Dr. P. M. Bulakh
5	Evaluation of Homocysteine, Folic Acid, Vitamin B12, MTHFR (C677T and A1298C) and ACE (I/D) gene polymorphisms as risk factors in young patients of Coronary Artery Disease.	2016 2018 Completed	Dr. R. S. Shivkar, Dr. G. C. Gawade, Dr A. A. Momin , Dr. M. K. Padwal
6	Study of insertion I deletion polymorphism of angiotensin converting enzyme gene in type 2 diabetic patients with and without nephropathy	2016 Completed	Dr. A. A. Momin Dr. M. K. Padwal
7	Effect of antioxidants on Oxidative stress in male Infertility.	2016 Ongoing	Dr. P. H. Padalkar Dr. M. K. Padwal

B) ICMR STS Funded Projects

Sr. No.	Title of the Project	Date of Starting Project	Date of Completion of Project	Name of the Student/ Principal Investigator
1	Assessment of thyroid function in Euthyroid Obese Medical Students	01/04/2013	01/06/2013	Mr. Raiba Deshmukh Dr. M. K. Padwal
2	Association of Serum Ferritin levels with metabolic syndrome and insulin resistance	01/04/2014	01/06/2014	Mr. Mohsin Murshid Dr. M. K. Padwal
3	Inter-relationship between blood glucose and bone profile in type 2 diabetes	01/04/2014	01/06/2014	Miss. Nikhita Sane Dr. P. H. Padalkar
4	Correlation of liver transaminase and platelet count in Dengue patients	01/04/2014	01/06/2014	Ms. Akanshya Vaidya Dr. R. R. Shivkar
5	Study of myocardial injury markers in patients of chronic kidney disease	01/04/2014	01/06/2014	Ms. Summanshi Singh Dr. A. A. Momin

C) Ongoing Research Projects: Faculty/PG and UG

Sr. No.	Title of Project	Funding & Year	Investigators
1	Analysis of biochemical profile of COVID-19 patients admitted in a tertiary care teaching hospital	Department 2020	Dr. M. M. Pore Dr. M. K. Padwal Dr. A. V. Raichurkar
2	Study of new cardiac biomarker St-2 in Heart Failure	Department 2020	Dr. G. C. Gawade Dr. M. K. Padwal
3	Study of cortisol and vitamin D levels in patients with insomnia	Department 2020	Ms. Ishwari Tupe Dr. Abdulrahman A. Momin
4	Audit of reporting errors in biochemistry section Of NABL accredited laboratory in a tertiary care hospital.	Department 2020	Dr. G. C. Gawade, Dr. A. A. Momin, Dr. M. K. Padwal, Mr. Shyamkumar Gaisamudre
5	Role play as a learning tool for communication skills and Empathy	Department 2019	Dr. Neela Vaidya Dr. N. S. Mani, Dr. M. K. Padwal, Dr. R.A.Sahasrabudhe
6	Establishing the cut off value of the umbilical cord TSH In Neonates At Tertiary Care Teaching Hospital.	Department 2019	Dr. AV Raichurkar, Dr. Rahul Jahagirdar, Dr. M. K. Padwal, Dr. Sanjay Lalwani, Dr. P. B. Suryawanshi
7	Correlation of lipid profile with oral glucose challenge test In Pregnant women	Department 2019	Dr. Lalana Takale Dr. M. K. Padwal
8	Assessment of thyroid function in type 2 diabetes mellitus	Department 2018	Ms. Anjali Gupta Mrs. R. K. Chavan
10	Molecular markers of AGE-RAGE system, and their association with AGEs, sRAGE and diabetic nephropathy	Department 2018	Dr. A. A. Momin Dr. Mahesh Kulkarni Dr. M. K. Padwal
11	Effect of antioxidants on oxidative stress in male infertility	Department 2016	Dr. P. H. Padalkar Dr. M. K. Padwal

D) Completed Research Projects: Faculty/PG and UG

Sr. No.	Title of Project	Year	Investigators
1	Impact of accreditation on awareness and knowledge of technician's about laboratory quality measures in tertiary care hospital	2018	Dr. P.H Padalkar Dr. R. R. Shivkar
2	Evaluation of Serum Homocysteine as a risk factor in young patients of Coronary Artery Disease (CAD).	2018	Ms. Anuradha Kumari Dr. R. R. Shivkar
3	Evaluation of the Pattern of Electrolytes Disturbances in Patients Admitted in ICU	2018	Ms. Kushagri Gupta Dr. P. H. Padalkar
4	You tube as a source of information on hand washing	2020	Miss Riya Gulve, Dr.Meghana Padwal, Dr.MeeraModak, Dr.Anuradha Tolpadi
5	Correlation of TyG(Fasting Triglyceride-Glucose)-BMI index and Liver Transaminases in Polycystic Ovarian Disease(PCOD)	2018	Mr. Aman Aher Dr. G. C. Gawade Dr Geeta Wadadekar Dr Meghana Padwal Dr Tushar Panchnadikar

E) Completed MD Biochemistry Dissertations

Sr. No.	Title of Dissertations	Year	PG Student & PG Guide
1	Correlation between Prostatic Acid Phosphatase and Prostatic specific antigen in prostatic disorders	2013	Dr. G. Karve Dr. A. K. Tandon
2	High sensitive CRP in hypertension	2013	Dr. S. Dawari Dr. R. R. Melinkeri
3	Oxidative Stress and paraoxonase status in diabetic nephropathy	2014	Dr. G. C. Gawade Dr. R. R. Melinkeri
4	Assessment of Biochemical Risk Factors of Cardiovascular Diseases in Patients with Hypothyroidism	2014	Dr. B. D. Kamble Dr. M. K. Padwal
5	Correlation of Homocysteine, paraoxonase 1 and Malondialdehyde in healthy elderly population	2015	Dr. P. N. Nirmale Dr. M. K. Padwal
6	Association between the levels of serum ferritin and C- reactive protein (CRP) in patients on hemodialysis f projects	2018	Dr. A.V. Raichurkar Dr. M. K. Padwal

F) Completed M. Sc. Medical Biochemistry Dissertations

Sr. No.	Title of Dissertation	Year	PG Student & PG Guide
1	Oxidative stress and antioxidant status in hypothyroidism	2012	Mr. Rajesh Thakur Dr. M. K. Padwal
2	Evaluation of oxidative stress in obese medical students with reference to Cardiometabolic Syndrome	2013	Ms. Priya Kamathe Dr. M. K. Padwal
3	Association of Vitamin D deficiency in cardiovascular disease with respect to Homocysteine, B12 and Lipid profile	2014	Mr. Kovan Sayyad Dr. M. K. Padwal
4	Association of serum ferritin levels in cardiovascular diseases with respect to lipid profile.	2015	Ms. Sholeh Khedri Dr. M. K. Padwal

G) Completed PhD Research Projects:

Sr. No.	Title of project	Year	Ph.D. Guide & Ph.D. Student
1	Oxidative stress in respiratory diseases in pediatric patients	2014	Dr. P. M. Bulakh Dr. N. A. Vaidya
2	Study of medicinal plants on lens enzymes in experimental diabetic cataract.	2014	Dr. P. M. Bulakh Dr. A. M. Hajarnavis
3	Effect of endogenous antioxidants on lens enzymes in experimental cataract.	2014	Dr. P. M. Bulakh Dr. P. H. Padalkar
4	Study of single nucleotide polymorphism of lipoprotein lipase and adiponectin genes and their association with Type 2 Diabetes mellitus.	2016	Dr. M. P. Bankar Dr. A. A. Momin

Extension Activities or Community Services

As a part of diagnostic arm of bharati hospital, clinical biochemistry section is regularly involved in various health check-up camps for screening of DM, Thyroid disorders ,Cardiovascular diseases.

New-born screening programme (NBS)

Newborn Screening is a system for identifying genetic, metabolic disorders and other health problems in newborns so that important action can be taken during the critical time before symptoms develop.

It is the most important preventive public health programme of the 21st century. Although yet not done mandatory by Central or State Government authorities.

We have initiated this programme with department of neonatology and pediatrics from August 2019 for all in - born neonates (Birth Weight \geq 2.5 Kg & Gestational age \geq 34weeks) of BHRC, Pune for screening for the following commonest inborn errors of metabolism /biochemical defects.

Sample is collected by Heel Prick Method on designated filter paper, the Dried Blood Spots are processed by ELISA for detection of:

- a) Congenital Hypothyroidism (Thyroid Stimulating Hormone)
- b) Congenital Adrenal Hyperplasia (17 OH Progesterone)
- c) Galactosemia (Total Galactose)
- d) Glucose 6 Phosphate dehydrogenase deficiency. (Glucose 6 Phosphate dehydrogenase)

The program has been initiated on 01/08/2019, we have screened a total of more than 2000 New-borns till 30th September 2021. The parents after receipt of reports, are counselled and guided further at paediatric OPD.



Department is actively involved in carrying out various collaborative research projects with other departments of medical college, constituent units of BVDTU and outside universities.

Faculty also extends their consultancy in guiding research projects in various aspects of clinical biochemistry testing or molecular diagnostic studies.

Completed collaborative research projects:

Sr. No.	Title of the Project	Year	Investigators	Collaborating Dept/Institute
1	Effect of Phytonutrient rich beverages in healthy subjects.	2015	Dr. Smita Nilegaonkar Dr. R. R. Melinkeri, Dr. M. K. Padwal	MACS - Agarkar research institute ,Pune
2	Studies on effect of Prebiotic and resistant starch enriched food preparations in healthy subjects- a preliminary study	2013	Dr Vaishali Agte Dr. Smita Nilegaonkar Dr. R. R. Melinkeri, Dr. M. K. Padwal	MACS - Agarkar research institute,Pune
3	Correlation of plasma level of high dose methotrexate and 6 mercaptopurine with their efficacy and adverse drug reactions in paediatric malignancies.	2018	Ms. Manjusha Sajith Dr. Atmaram Pawar Dr. Neela A. Vaidya	Clinical Pharmacy, BVDTU,Pune

Awards and recognition (Faculty /PG /UG)

✚ Dr M K Padwal: Professor and Head

Sr No	Award and Recognition Received	Year
1	Maharashtra state representative of AMBI	2019
2	Laboratory Assessor for NABL as per ISO 15189:2012	2018

✚ Dr

Neela Vaidya : Associate Professor

Sr No	Award and Recognition Received	Year
1	Completed Advance Course in Medical Education Technology(ACME) by NMC completed Under GSMC KEMH NMC, Nodal Centre Mumbai :	2019

✚ **Reviewer:**

Dr Neela Vaidya, Dr G C Gawade and Dr A A Momin are the reviewers in the various national and international scientific open access and peer reviewed journals and DBT projects.

✚ **Research Scholars:**

Sr No	PhD (Medical Biochemistry)	Topic	Year And University
1	Dr Neela Vaidya	Oxidative stress in respiratory diseases in pediatric patients	5 th June 2015 BVDTU,Pune
2	Dr A M Hajarnavis	Study of medicinal plants on lens enzymes in experimental diabetic cataract.	5 th June 2015 BVDTU,Pune
3	Dr PH Padalkar	Effect of endogenous antioxidants on lens enzymes in experimental cataract.	5 th June 2015 BVDTU,Pune
4	Dr A A Momin	Study of single nucleotide polymorphism of lipoprotein lipase and adiponectin genes and their association with Type 2 Diabetes mellitus.	18 th October 2016 MUHS ,Nashik

Undergraduate Teaching & Learning Activities:

Horizontal Integration: Liver and Kidney



Horizontal integration **KIDNEY**



Learning with COVID 19 Prevention Norms

Role Play:



Felicitation of Academic Achievers and Quiz Participants

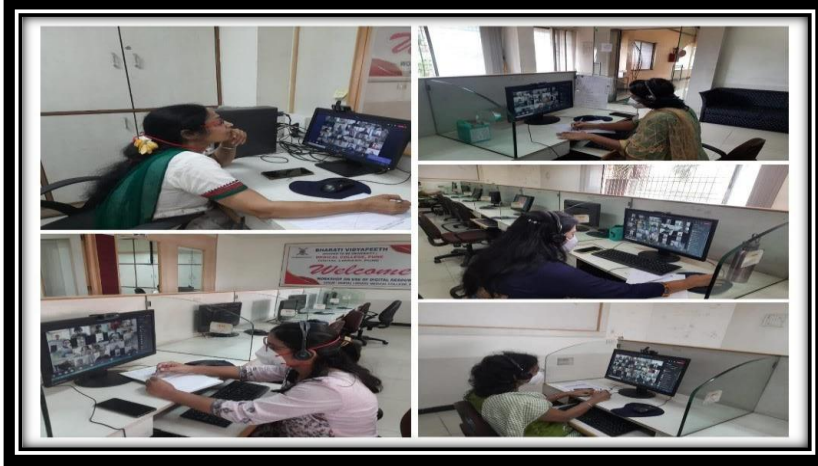
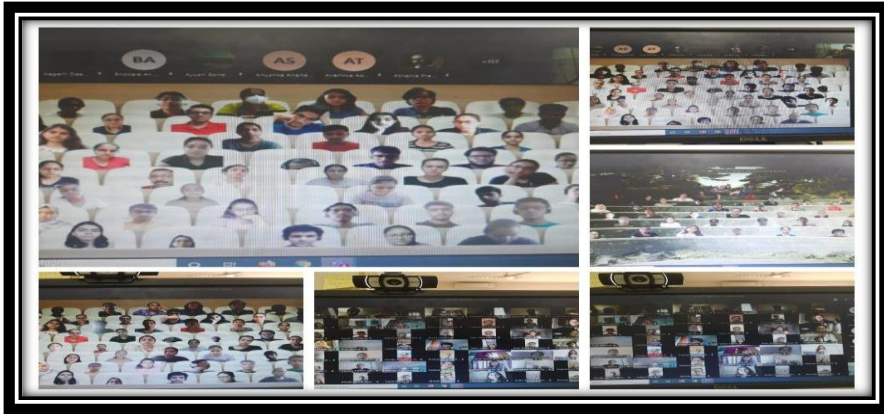


Scientific Model Presentation:



Teaching and Training During COVID 19 Pandemic













BHARATI VIDYAPEETH DEEMED TO BE UNIVERSITY MEDICAL COLLEGE, PUNE 43.



DEPARTMENT OF BIOCHEMISTRY

We The Guest



**Chairperson in CME on Nutrigenomics
at Deenanath Mangeshkar hospital
November 2017**



**Chairperson in
2nd MH AMBI 2015,
LTMC Sion Mumbai**



**Judge for Poster in
RESCON, BJMC, PUNE 2015**



**Resource person for
GP lectures 2017**



**Reviewer for Scientific
Peer Reviewed Journals**



**Resource Person in CME
at TATA Memorial, Mumbai 2016**



BHARATI VIDYAPEETH DEEMED TO BE UNIVERSITY MEDICAL COLLEGE, PUNE 43.



DEPARTMENT OF BIOCHEMISTRY

We The Host

3rd Maharashtra State Chapter Conference AMBI 28-29 April 2017





BHARATI VIDYAPEETH DEEMED TO BE UNIVERSITY MEDICAL COLLEGE, PUNE 43.



DEPARTMENT OF BIOCHEMISTRY

We The Participants

Faculty, PG's, UG's & Technicians Participation in Knowledge Events



Clinical Biochemistry Section: Central Clinical laboratory



