

Till 1980, Biochemistry department was associated with the department of Physiology but after its separation from the parental deptt. in 1980, it became an independent department under the able headship of Dr. D.R. Singhvi Since then , it was developed as a center point for all the researches in the college. After that following professors became head of department time to time Dr. T.I. Singh, Dr. C.R. Vyas, Dr. D.C. Sharma, Dr. Sadhna Sood, and in present Dr. R.K.Vyas have headship of this department. Apart from teaching under graduate M.B.B.S students, this deptt. also runs other courses like M.Sc, Ph.D and M.D.



The deptt. of Biochemistry has the latest modalities for various biochemical investigations, like Atomic Absorption Spectrophotometer, High Performance Liquid Chromatography, Semi-Auto-analyzer, Fully Auto analyzer, Electrolyte Analyzer etc. An air conditioned Central biochemistry lab is functional in the attached PBM hospital for various investigations. For future development, this department has various plans including the procurement of latest computerized and automatic diagnostic tools (such as chip based Electrophoresis and Chemilumminiscence based Hormone Analysis) and to establish the Central Research lab for various type of research works.

S.No.	Name	Designation	Qualification(s)		Mobile	E-Mail
1	<a href="#">Dr. R.K. Vyas</a>	Sr. Professor & HOD	M.Sc. (Med) Biochemistry	Ph.D. (Biochemistry)	919414426574	vvyasrk1968@gmail.com
2	<a href="#">Dr. Yogita Soni</a>	Professor	M.Sc. (Med) Biochemistry	Ph.D. (Biochemistry)	919414426572	yogitasoni30@gmail.com
3	<a href="#">Dr. Anita Verma</a>	Assoc. Professor	MBBS	MD (Biochemistry)	919460995742	anita.verma.meena@gmail.com
4	<a href="#">Dr. Surendra Kumar Jinger</a>	Asstt. Professor	MBBS	MD (Biochemistry)	919782613698	surenjeengar@gmail.com
5	<a href="#">Dr. Meenakshy Gora</a>	Asstt. Professor	MBBS	MD (Biochemistry)	919784090156	meenakshy.jaipal@gmail.com
6	<a href="#">Dr. Lata Bishnoi</a> (M.O.)- UTB	Asstt. Professor	MBBS	MD (Biochemistry)	919413937946	drbishnoi25@gmail.com
7	<a href="#">Miss Kim Chawala</a>	Sr. Demonstrator	M.Sc. (Med) Biochemistry	M.Sc. (Biochemistry)	919460451845	kimchawlaspmc@gmail.com
8	<a href="#">Dr. Mamta Chaudhary</a>	Sr. Demonstrator	BDS	M.Sc. (Biochemistry)	919414989340	mamtasharad7@gmail.com
9	Dr. Subham Sareen	Sr. Demonstrator	MBBS		919461472265	sareensubham@yahoo.com
10	Dr. Mohd. Shakeel	Sr. Demonstrator	MBBS	MD (Biochemistry)	91874252922	sanskaar1982@gmail.com

11	Shri Ankur Purohit	Sr. Demonstrator	B.Sc.	M.Sc. ( Biochemistry)	919024242651	ankurandpurohit@gmail.com
12	Miss Vandana Yadav	Sr. Demonstrator	M.Sc. (Med) Biochemistry	M.Sc. Medical	917597726477	dy9192@gmail.com
13	Dr. Ajay Beniwal	Sr. Demonstrator	MBBS		919001250557	ajay.beni1990@gmail.com
14	<a href="#">Mr. Ghanshyam Gahlot</a> - UTB	Biochemist	M.Sc. (Med) Biochemistry		919460147883	ghanshyamspmc@gmail.com
15	Mr. Gajanand Joshi - UTB	Biochemist	M.Sc. (Med) Biochemistry		917073294633	gn.joshi17@gmail.com
16	Miss Shalini Vyas - UTB	Biochemist	B.Sc.	M.Sc. ( Biochemistry) P.Hd.	917737951569	shalini.biomedical@gmail.com
17	Miss Hemlata Sharma	Biochemist	*	*	90246800981	hemlata212@gmail.com

### **Non Teaching Laboratory Staff:**

S. No.	Designation/Post	Name	Residential Address	Mobile No.
1.	Sh. Gorelal Meena	Senior Technical Assistant	Baarat Ghar Gali, Gandhi Colony, Pawanpuri, Bikaner	09799331057
2.	Sh. Lalchand Jaidia	Senior Lab Technician	Ganga Niwas, f/73, Vallabh Garden, Bikaner	09829829629
3.	Sh. Ashok Jeengar	Senior Lab Technician	Gopeshwar Basti, Ramdev Mandir ke pas, Bikaner	09252040239
4.	Sh. Mallu Ram Janagal	Lab Technician	Badi Jasolai, Ramdev Mandir ke pas, Bikaner	09413450604
5.	Sh. Prem Prakash Swami	Lab Technician	Idgah Bari Ke Bahar, Dharam Nagar Dwar, Bikaner	09549490345
6.	Sh. Rajendra Nath Yogi	Lab Technician	Prem Niaws Bhawan ki Gali, Bhaton ka vaas, Nathusar Gate, Bikaner	09928374501
15.	Sh. Anand Singh Daiya	Lab Technician	447, Kailash Puri, Bikaner	07792024650
16.	Sh. Ramesh Vyas	Lab Technician	Bhatto ka Chauk, Aachaliya fasla, Bikaner	07597416333
7.	Sh. Mahaveer Prasad	Lab Technician	Pugal road, oppt. new sabji mandi hanuman Mandir ke pas, bikaner	09414582426
8.	Sh. Asakaran Jaipal	Lab Technician	Sarvodaya Basti, Near Manoj Dal Mill, Bikaner	09414429995
9.	Smt. Nisaad Parihar	Lab Technician	Jail Tanki, Sidh Baba ki Bagechi ke pas, Bikaner	09636022176
11.	Smt. Manju Tina	Lab Technician	5-E-1, JNV Colony, Bikaner	09413684237
12.	Smt. Sunita Rathore	Lab Technician	3/216, M.P. Colony, Bikaner	09875162078
13.	Sh. Ashok Kheechad	Lab Assistant	Sophia School ke Samne, Tilak Nagar, Bikaner	09983184009
14.	Sh. Sagarmal Tanwar	Lab Assistant	Rani Baazar Industrial Area, Bikaner	09680267166
15.	Sh. Bharat Ranga	Lab Assistant	D-727, M.D.V. Colony, Bikaner	08233304324
17.	Sh. Pawan Sharma (Urgent /Temporary Basis)	Lab Technician	ITI ke piche, Patel Nagar, Bikaner	09468566750

**UG SEATS :**

Courses	Seats	Admitted (in year 2014)
<b>MBBS</b>	250	249

**PG SEATS :**

Courses	Seats	Admitted (in year 2014)	Total Students till present
<b>MD BIOCHEMISTRY</b>	01 (Recognized)	01	02
<b>MSC.(MED.) BIOCHEMISTRY</b>	03 (Recognized)	03 + 03 (of 2015)	09

**PhD. (Med.) Biochemistry:** Depending upon the Availability of Candidates & Guides.

NAME OF GUIDE	DESIGNATION	CANDIDATE
Dr. R.K. Vyas	ProfeAssor & Head	Dr . Mamta Choudhary
		Mr. Gajanand Joshi
		Mrs. Hemlata Sharma
		Mrs. Shalini Vyas
Dr. Yogita Soni	Professor	Mrs. Kim Chawla
		Mr. Ghanshyam Gahlot
		Mr. Ankur Purohit
		Mr. Ramchandra Khatri

**SPECIALIZED EQUIPMENT S**

1. Atomic Absorption Spectrophotometer (AAS)
2. High Performance Liquid Chromatography (HPLC)
3. Fully Auto analyzer
4. Semi-Auto-analyzer and Electrolyte Analyzer

**TEACHING ACTIVITIES**

Demonstration, Lectures, Practical, Clinical Lab Training , Hands on training ,Written & Oral Assessments, MCQ, Tutorials, Surprise Quiz, Mock Test, Seminar, Journal Club, Guest lecture, Clinical case discussion.

**CME-** - In September 2016 by Dr. Dilip Singh Nirwan  
- Next CME Proposed in September 2017

**CLINICAL LAB SERVICES****Routine Clinical Biochemistry (In Central Biochemistry Laboratory, P.B.M. HOSPITAL):**

Tests output : **3000-5000** nos. on average per day Tests done : Serum Sugar, Urea, Creatinine, Uric Acid, Calcium, Phosphorus, Total Protein, Albumin, AG Ratio, Total Bilirubin (Direct & Indirect), SGOT, SGPT, Alkaline Phosphatase, Acid Phosphatase, LDH, CPK, CPK-MB, GGT, Amylase, Lipase, Lipid Profile : Total Lipids, Phospholipids, Triglycerides, Cholesterol, HDL, LDL, VLDL, Serum Electrolytes ; CSF; Ascitic Fluid (Sugar, Protein, Chlorides), Pleural Fluid.

**Investigations Performed In Biochemistry Department (01 Januray-2015 to 31 December-2015) :**

<b>A. Clinical Biochemistry</b>		<b>No. of Investigations</b>
1.	Serum Glucose	105328
2.	Serum Urea	122337
3.	Serum Creatinine	118857
4.	Serum Cholesterol	24063
5.	Serum Uric Acid	3976
6.	Serum Calcium	10248
7.	Serum Phosphorus	3279
8.	Serum Amylase	3382
9.	Serum CPK-MB	241
10.	Biochemistry of Body Fluids	45
13.	Serum Electrolytes	42039
17.	Lipid Profile	
	1. Total Cholesterol	24063
	2. Triglyceride	21826
	3. HDL-C	21066
18.	LFT	
	1. Total Bilirubin	86330
	2. Direct Bilirubin	86342
	3. SGPT	87027
	4. SGOT	87193
	5. Total Protein	48868
	6. Albumin	48054
	7. Alkaline Phosphatase	74460
<b>Total no. of clinical Biochemistry investigations</b>		<b>1021024</b>

**Research Projects/Thesis under senior Faculty Members :-**

**Dr. R.K. Vyas-**

**A. Ph. D. Research Projects**

1. Correlation of Oxidative Stress with Serum Mg, Ca, Zn Levels and Antioxidant Enzymes Status in Thalassemia Patients” :-Dr. Mamta Choudhary (Phd. Biochemistry student)
2. “Study On Serum Level Of Trace Elements, Albumin & Immunoglobulins In Children With Bronchial Asthma In North-West Rajasthan.” Mr. Gajanand Joshi (Phd. Biochemistry student)
3. “Role Of Biochemical Markers In Diagnostic And Prognostic Evaluation Of Pancreatitis In Patients And Compared With Healthy Subjects Of Rajasthan.” Mr. Hemlata Sharma (Phd. Biochemistry student)
4. “Study Of Biochemical Markers Gamma Glutamyl Transpeptidase (Ggt), 5'- Nucleotidase (5'- Nt), Cholinesterase (Che), Lactate Dehydrogenase (Ldh) And Trace Elements (Mg & Zn Level In The Serum Of Patients Suffering From Alcoholic And Non-Alcoholic Liver Disease” Mr. Shalini Vyas (Phd. Biochemistry student)

**B. MD/MSc Thesis.**

1. "Comparative Study of Serum Urea, Creatinine and CRP in CKD Patients With Normal Subjects":-  
Dr. Dilip Singh Nirwan (Third year resident).
2. "Comparative Study of Serum Creatinine, Uric acid and Zinc Levels in Hypothyroid Patients With Healthy Controls:-  
Mrs. Neha Sharma (Third year MSc. student).
3. "Comparative Study of Serum Ferritin and Vitamin D Level in Thalassemia Patients with Healthy Control".  
Mrs. Shweta Gombar (Third year MSc. student).

**Dr. Yogita Soni**

**A. Ph. D. Research Projects**

1. "Association of Adipokine With Metabolic Syndrome In North West Rajasthan" :-  
Mr. Ghanshyam Gahlot (Phd. Biochemistry student)
2. "Synopsis Under Process":- Smt. Kim Chawla (Phd. Biochemistry student)
3. "Synopsis Under Process":- Mr. Ramchandra Khatri (Phd. Biochemistry student)
4. "Synopsis Under Process":- Mr. Ankur Purohit (Phd. Biochemistry student)

**B. MD/MSc Thesis.**

1. "Evaluation of Serum CRP and Lipid Profile In Schizophrenic and Depressive Patients with Healthy Controls ":-  
Dr. Sharmila Kumari (Third MSc. student).

**List Of Research Publications**

**Dr. R.K. Vyas (Professor & Head):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	Serum Trans-aminase Activity and role of trace elements in different trimester of Pregnancy	Indian J. Sci. Res.	November 1992	First
2.	Zinc in Cord blood.	Global Journal for Research Analysis (International)	August 1993	First
3.	Trans – amines Activity in Cord blood.	International Journal of Biotechnology And Biochemistry. (IJBB)	August 1993	First
4.	Study of Serum zinc, Selenium and copper Levels in Carcinoma of oesophagus Patients.	Journal of Clinical Biochemistry	July 2006	Et. Al
5.	Comparison in Serum Profile of Peroxidants (MDA) and non – enzymatic antioxidants (vit- E and C) among Patients Suffering from Plasmodium falciparum and Vivax malaria.	Journal of Postgraduate medical Institute.(JPMI)	March 2011	Second
6.	Study of plasma homocysteine level in coronary heart disease	International journal of science and research. (IJSR)	March 2015	Et. Al

	Patients and Compare with control.			
7.	Relationship between homocysteine and vitamin B9 level in male CHD Patients and Compare with Normal Healthy Male Subjects.	International journal of scientific and Research publication.(IJSRP)	April 2015	Et. AI
8.	Comparative Study of Vitamin B9 level in CHD Patients and Normal healthy Subjects.	International Journal of science and applied research. (IJSAR)	April 2015	Et. AI
9.	Comparative Study of Adenosine deaminase (ADA) activity in the serum of Rheumatoid Arthritis and osteoarthritis.	International journal of science and research. (IJSR),	March 2015	Et. AI
10.	Oxidative Stress and antioxidant level in the Serum of osteo-arthritis Patients.	International journal of scientific and Research publication. (IJSRP)	April 2015	Et. AI
11.	Study of Lipid Per oxidation and Antioxidant glutathione level in the serum of RA Patients.	International Journal of science and applied research.(IJSAR)	May 2015	Et. AI.
12.	Evaluation of lipid Per oxidation and Antioxidant enzymes status in oral carcinoma individuals.	International Journal of Biotechnology And Biochemistry. (IJBB)	July 2015	Et. AI
13.	A Study of liver dysfunction determinant in normal and type-II diabetes subjects in Indian Population.	International journal of science and research. (IJSR)	August 2015	Second
14.	To study of serum Mg, Zn level and albumin/globulin ratio in pulmonary tuberculosis Patients and Comparison with Normal Subjects.	International Journal of science and applied research (IJSAR),	January 2015	First
15.	Relation of oxidative stress with serum antioxidant enzymes level in thalassemic subjects (Review)	International Journal of pharmaceutical Research Scholars (IJPRS)	January 2015	Second
16.	Alteration In Serum Calcium Level In Preeclampsia Compared To Normal Pregnancy	International Journal Of Clinical Biochemistry And Research	November 2015	Second
17.	"Serum Magnesium States In Preeclampsia"	International Journal Of Medical Science Of Education	January 2016	Second
18.	The Comparative study of Homocysteine, Folate & Cobalamine level in Hyperthyroid women and Normal healthy women.	Journal of Medical science and Clinical Research	January 2016	Second
19.	A Comparative Study Of Serum Iron, Manganese And Zinc Levels In Falciparum Malaria Patients With Healthy Controls	International Journal Of Medical Research Professionals (IJMRP)	March 2016	Second

**Dr. Yogita Soni (Professor) :**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et AI)
1.	Comparison in serum profile of per	JPMI	March	Et. AI

	oxidants (MDA) and non enzymatic anti oxidants (Vitamins E and C) among patients suffering from Plasmodium falciparum and vivax malaria.		2011	
2.	Effect of Cyamopsis tetra Gonoloba (Guar) On Lipid Profile In Diabetic And Non Diabetic Subjects	JPMI	July 2011	First
3.	Plasma Homocysteine, vitamins B and risk for cardiovascular disease.	Indian Journal Science Research	June 2014	First
4.	Comparative study of liver function test in type-I and type-II Diabetes Mellitus.	Indian Journal Science Research	December 2014	Et. Al
5.	Effect Of Aloe Vera Juice On Diabetic And Diabetic Retinopathy Subjects	Indian Journal Of Life Science (IJLS)	Dec 2014	First
6.	Dietary Fibre	Current Medical Journal In Of India	January 2015	First
7.	Oxidative stress and anti oxidant vitamin status in coronary heart disease patients.	IJSAR	2015	Second
8.	Alteration In Serum Calcium Level In Preeclampsia Compared To Normal Pregnancy	International Journal Of Clinical Biochemistry And Research	November 2015	Et. Al
9.	Comparative study of Trace Elements in Healthy Controls and Hypothyroidism Patients in Western Rajasthan.	Global Journal for Research Analysis.	February 2015	Et.Al.
10.	C – Reactive Protein And Homocysteine Risk Prediction In Coronary Artery Disease	Innovative Journal Of Medical And Health Science (IJMHS)	March April 2015	Second
11.	Study Of Serum Lipid Profile Level In Coronary Artery Disease Patients	International Journal Of Medical Research Professionals (IJMRP)	March 2016	Second
12.	A Comparative Study Of Serum Iron, Manganese And Zinc Levels In Falciparum Malaria Patients With Healthy Controls	International Journal Of Medical Research Professionals (IJMRP)	March 2016	Et. Al
13.	"Serum Magnesium States In Preeclampsia"	International Journal Of Medical Science Of Education	January 2016	Et. Al

**Dr. Anita Verma (Assistant Professor) :**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	C - reactive protein and Homocysteine risk prediction in coronary artery disease.	Innovative Journal of medical and Health Science	March 2015	First
2.	Study of serum lipid profile level in coronary artery disease patients	International Journal of Medical Research Professionals (IJMRP)	March 2016	First
3.	Pattern of Comorbidities in children	Journal of Medical Science	April	Second

	with severe Acute Malnutrition admitted in MTC of a teaching hospital of Western Rajasthan	and Clinical Research (JMSCR)	2016	
4.	Evaluation of oxidative stress on a severe acute Malnourished children at MTC of S P Medical college, Bikaner Rajasthan	International Journal of Research in Medical science (IJMRS)	May 2016	First
5.	Alteration In Serum Calcium Level In Preeclampsia Compared To Normal Pregnancy	International Journal Of Clinical Biochemistry And Research	November 2015	Et. Al
6.	"Serum Magnesium States In Preeclampsia"	International Journal Of Medical Science Of Education	January 2016	Et. Al

**Dr. Surendra Kumar Jinger (Assistant Professor):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	Comparative study of Liver Function test in the type - 1 and type -2 Diabetes mellitus	Indian J. Sci. Res. (IJSR)	December 2014	Second
2.	Comparative study of trace elements in Healthy controls and Hypothyroidism patients in western Rajasthan	Global Journal for Research Analysis (International)	February 2015	First
3.	Evaluation of lipid Per oxidation and Antioxidant enzymes status in oral carcinoma individuals	International Journal of Biotechnology and Biochemistry. (IJBB)	July 2015	First

**Dr. Lata Bishnoi (Assistant Professor):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	C - reactive protein and Homocysteine risk prediction in coronary artery disease.	Innovative Journal of medical and Health Science	March 2015	Et Al.
2.	Comparative Study of Vitamin D level in Rheumatoid Arthritis Patients and Healthy Control Subjects	International Journal of Biotechnology and Biochemistry. (IJBB)	November 2015	Et Al.

**Dr. Meenakshy Gora (Assistant Professor):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	Ultrasonography of Liver and Spleen in Plasmodium Vivax Malaria	International J. Sci. & Res. (IJSR)	May 2013	Et Al.
2.	Comparative Study of Vitamin D	International Journal of	November	First



	level in Rheumatoid Arthritis Patients and Healthy Control Subjects	Biotechnology and Biochemistry. (IJBB)	2015	
3.	Biochemical Study of Serum Zinc in Patients of Breast Carcinoma in Bikaner District	International Journal of Sci. & Res. (IJSR)	November 2015	Second

**Mrs. Kim Chawla ( Senior Demonstrator):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	Comparative Study of Vitamin D level in Rheumatoid Arthritis Patients and Healthy Control Subjects	International Journal of Biotechnology and Biochemistry. (IJBB)	November 2015	Et Al.
2.	Biochemical Study of Serum Zinc in Patients of Breast Carcinoma in Bikaner District	International Journal of Sci. & Res. (IJSR)	November 2015	First
3.	Oxidative Stress and Antioxidant Level in the Serum of Osteo Arthritis Patients	Indian Journal of Sci. & Res. (IJSR)	March 2015	Et Al.

**Dr. Mohd. Shakeel ( Senior Demonstrator):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	Role of C-Reactive Protein in Development of Hypertension.	Indian J. Sci. Res. (IJSR)	Februry 2016	First
2.	Status of Vitamin C, E and Glutathione in Diabetic Patients with and without Dyslipidemia.	International Journal of Current Research (IJCR)	January 2016	Second
3.	Study of C-Reactive Protein and Fibrinogen in Hypertension and their role in development of Hypertension.	International Journal of Applied Physical and Biochemistry Research (IJAPBCR)	October 2014	First
4.	Study of Vitamin C and Vitamin E levels in relation to Diabetic Dyslipidemia	International Journal of Applied Biotechnology and Biochemistry. (IJABB)	December 2014	Second

**Dr. Mamta Choudary ( Senior Demonstrator):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	Comparative study of Liver Function test in the type - 1 and type -2 Diabetes mellitus	Indian J. Sci. Res. (IJSR)	December 2014	First
2.	A Study of liver dysfunction determinant in normal and type-II	International journal of science and research.	August 2015	First

	diabetes subjects in Indian Population.	(IJSR)		
3.	Comparative study of trace elements in Healthy controls and Hypothyroidism patients in western Rajasthan	Global Journal for Research Analysis (International)	February 2015	Second
4.	Evaluation of lipid Peroxidation and Antioxidant enzymes status in oral carcinoma individuals	International Journal of Biotechnology and Biochemistry. (IJBB)	July 2015	Second

**Dr. Vandana Yadav ( Senior Demonstrator):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	To Study Glycemic Status and Lipid Fractions in Sub Clinical Hypothyroid, Overt- Hypothyroid and Hyperthyroid Subjects	International Journal of Advanced Research (IJAR)	September 2014	Et AL.
2.	Role of Serum Alpha Feto-Protein, Beta Human Chorionic Gonadotropin in Patients with Pre-eclampsia	International journal of science and research. (IJSR)	October 2014	First
3.	A Study of Beta Human Chorionic Gonadotropin Level in Pre-eclamptic and Normotensive Women	International journal of science and research. (IJSR)	March 2015	First

**Mr. Ankur Purohit ( Senior Demonstrator):**

S.No.	Title	Name of Journal	Month & Year of Publication	Authorship (First/Second/Correspondent/Et Al)
1.	Alteration in Serum Calcium Levels in Preeclampsia compared to normal pregnancy	International Journal of Clinical Biochemistry and Research (IJCBR).	November 2015	First
2.	Serum Magnesium status in Preeclampsia	International Journal of Medical Science and Education	January 2016	First

**Departmental Library**

No. of Books - 94

Journals - 15

Thesis - 33



**Gallery**



