

Department of Biochemistry

Ongoing Project/ Research(Thesis Topic) of MD/DNB student

1. Role of Lipase Amylase ratio measurement in Acute Pancreatitis{Dr. Babban Kumar Singh(MD std), Dr. Uday Kumar(Guide), Dr Anand Saran(Co-Guide), Dr V M Dayal(Co-guide).
2. Evaluation of Glycated Hemoglobin and Microalbuminuria as a predictor of clinical diabetic nephropathy{Dr. Ravi Kumar(MD std), Dr. Uday Kumar(Guide), Dr Anand Saran(Co-Guide)
3. Diagnostic and Prognostic value of serum BNP in acute heart failure patients{Dr. Yogesh Anand (MD std), Dr. Uday Kumar(Guide), Dr Anand Saran(Co-Guide),Dr. Nishant Tripathy(Co-Guide).
4. Significance of antithyroperoxidase antibody titres in patients with subclinical hypothyroidism{.Dr Neha Chaudhary Anand (DNB std), Dr. Uday Kumar(Guide), Dr Anand Saran(Co-Guide),Dr. Sudhir Kumar(Co-Guide)

RESEARCH PUBLICATIONS AND ABSTRACTS:-

INTERNATIONAL JOURNAL :-

1. Immunological Aspects of Formulated Drugs against Typhoid. A full length paper published in American journal of Biochemistry,2011;1(1):1-3.
2. Therapeutic efficacy of combined Lamivudine and adifovir therapy in treatment-naïve patients of HBeAg negative chronic Hepatitis B. Published in Hepatol Int.(2012)6:67-309.
3. Histopathological Examination of formulated drugs against Typhoid, A full length paper published in Research in pharmaceutical Biotechnology, Vol.3(10),PP.135-141,December2011.
4. Oxidant and Antioxidant Status in CRF, Accepted for Publication in International Journal of Contemporary Medicine,04-10-2013.

NATIONAL JOURNAL:-

1. Point of care testing (POCT) for Hb A1c in Diabetes. Published in Indian Journal of Clinical Biochemistry; December 2013 Vol.28(Supp)(1),152.
2. Association of low serum magnesium level with microalbuminuria in type 2 diabetic patient. Published in Indian Journal of Clinical Biochemistry; December 2013 Vol.28 (Suppl)(1):140.
3. Application of Tandem mass spectrometry in new born screening. Published in Indian Journal of Clinical Biochemistry; December 2013 Vol.28(Suppl)(1):118-119.
4. Role of vitamin E in chronic kidney disease.Published in Indian Journal of Clinical Biochemistry; December 2013 Vol.28(Suppl)(1):150
5. Status of serum zinc, magnesium and calcium in hypothyroid patients. Published in Indian Journal of Clinical Biochemistry; December 2013 Vol.28(Suppl)(1):142

6. Urinary calcium : Creatinine ratio as an important marker in early diagnosis of pre-eclampsia. Published in Indian Journal of Clinical Biochemistry; December 2013 Vol.28(Suppl)(1):89
7. Evaluation of Lipase and Amylase ratio in acute pancreatitis. . Published in Indian Journal of Clinical Biochemistry; December 2013 Vol.28(Suppl)(1):100-101
8. Oxidative Stress in Psoriasis; an oxidative stress condition; Educational Abstract Book, National Symposium on Biomarkers in Health and Disease: Bench to Bedside, July 2013;58, Sponsored by MCI & ICMR, SGRRIM & Health Sciences, Dehradun.
9. Correlation of Thyroid Function with Lipid Profile in NIDDM Patients.; Educational Abstract Book, National Symposium on Biomarkers in Health and Disease: Bench to Bedside. July 2013;59, Sponsored by MCI & ICMR, SGRRIM & Health Sciences, Dehradun
10. Importance of Albumin Creatinine Ratio in Spot Urine as screening test for early Diabetic Nephropathy in Type2 Diabetes mellitus Patients in Bihar. Published in Indian Journal of clinical Biochemistry; Oct-Dec 2012 Vol 27, No 4
11. Oxidant and Antioxidant Status in CRF. Published in Indian Journal of clinical Biochemistry ;vol 27, No 4, 21: Oct-Dec 2012;
12. To study serum adenosine Deaminase level in hepatitis patients of different age groups. The Patna Journal of Medicine, vol -85, No 11; Nov 2011, 281-282.
13. Role of Nanotechnology in Medical Diagnosis. Published in Indian Journal of Clinical Biochemistry; December 2011 Vol 26(Suppl):77
14. Acute Ischemic Stroke and role of Antioxidant. Published in Indian Journal of Clinical Biochemistry; December 2011 Vol 26(Suppl):160
15. Glycated haemoglobin : Double edge biomarker in type 2 diabetic patients, . showing association of GHb A1C with dyslipidemia and long term control of blood sugar in Bihar. Published in National annual conference of Association of Medical Biochemists of India, December 2011;103.
16. Formulation of NO donor and antibiotic against typhoid: Published in abstract book of 3rd Bihar Vigyan Congress 2010.
17. Epilepsy and Biochemical changes, Epilepsy-A review, 72-74, 2010.
18. "Abdominal Epilepsy", Epilepsy-A review, 229-234, 2010.
19. To study serum homocysteine level in patient with chronic renal failure on dialysis abstract published in Indian journal of clinical Biochemistry-2010
20. Effect of smoking on chronic renal failure in primary glomerular nephropathies: Published in Indian Journal of Biochemistry; 2009.
21. Auto Antibody in the Cases of Neurological Disorder: Published in Indian Journal of Clinical Biochemistry Supplement, 231, 2009/24.
22. There is Plenty of room at the bottom (Nano World): Published in Indian Journal of Clinical Biochemistry; December 2008, Vol.23.(Supl.)
23. Study of amount and intensity of exercise and its effect on serum lipoprotein: Published in Indian Journal of Clinical Biochemistry; December 2008, Vol.23. (Supl.)
24. Immune response in NO donor and antibiotic formulated drug for the protection of typhoid; Published in abstract book of 33rd Indian Immunology Society conference, 2007, Deptt. Of Biochemistry, AIIMS, New Delhi.
25. Predictive value of elevated urinary albumin excretion in de novo development of Renal function impairment in the general population. Published in Indian Journal of Clinical Biochemistry, 2007, 22 (Supl.)214.
26. Biochemical Profile Of Patients with Idiopathic Uric Acid Renal Stone disease.

27. Abstract published abstract book of 33rd Annual conference of ACBI, 2006. Chronomics and Chronobiology in Health and Disease. Published in abstract book of 32nd Annual Conference of ACBI 2005.
28. Serum Ferritin level in cases of Acute and Chronic renal failure. Published in abstract book of 30th Annual Conference of ACBI 2004.
29. Raised Serum lactate dehydrogenase associated with Gargrenous Small bowel volvulus: A case report: Published in Indian Journal of Clinical Biochemistry, 2003,18(2) 6-7
30. Serum Magnesium level in pre-term labour. Published in Indian Journal of Pathol. Microbiol 2003; 46(2): 271-273.
31. Comparison of Lipid profile in patients of Chronic renal failure on Conservative treatment and renal replacement therapy, paper abstract published in book of 9th Asian Pacific Congress of the Clinical Biochemistry, March 2002.
32. Effect of Protein energy malnutrition on Carbohydrate metabolism, paper abstract published in book of 9th Asian Pacific Congress of the Clinical Biochemistry, March 2002.
33. Study of Serum Magnesium in pre-term labour, paper abstract published in book of 9th Asian Pacific Congress of the Clinical Biochemistry, March 2002.
34. Changes in Blood group Phenotype. Indian J. Pathol. Microbiol, 44(4); 473 –
35. Overt Bacteriuria in Nephrotic Syndrome Indian J. Pathol. Microbiol, 44 (3); 289 – 292, 2001.
36. Erythrocytosis in renal allograft recipients Paper accepted for Publication in Indian J. Pathol. Microbiol, 2001.
37. Evaluation of Tumour markers in Carcinoma breast. Indian J. Pathol. Microbiol . 43 (4) 337 – 440, 2000.
38. “ Evaluation of thyroid Hormones in Chronic renal failure” Indian J. Pathol. Microbiol, 42(2), 129-133, 1999.
39. Hepatitis C. A Transfusion associated Hepatitis, Indian J. Pathol. Microbiol. 43(3) 387 – 389, 1999.
40. Asymptomatic Bacteriuria in Glomerulo-nephropathy B.J.I. Medicine, Vol – 01, 13 – 16, June 95.
41. Lipid profile in Undialysed and dialysed chronic renal failure and renal transplant recipients B.J.I. Medicine, Vol 02, 72-73, Sept. '95
42. Acute renal failure and 9th, 10th Nerve palsy in patients of Kala-azar treated with Stibanate JAPI 1994; Vol. 42. No – 4
43. Renal dysfunction in patients of Kala-azar treated with Sodium antimony gluconate, JAPI 1994, Vol – 42 No – 5
- 44 “Quality Control Programme in Clinical Biochemistry” abstract published in book of Joint annual conference of Association of Clinical Biochemists of India and

Indian Association of Pathologists and Microbiologists held at Patna in 1992.

45. Hepatic changes during short term haemodialysis, JAPI 1992 Vol 40 No – 1

46 “Study of Serum uric acid in Myocardial infarction” Research Thesis submitted to Patna University for Doctor of Medicine degree, 1986.

NATIONAL & INTERNATIONAL CONFERENCE / SYMPOSIUM PARTICIPATED / PAPER PRESENTED

1. Point of care testing (POCT) for Hb A1c in Diabetes. Paper presented in ACBICON, 2013 held in Delhi.

2..Association of low serum magnesium level with microalbuminuria in type 2 diabetic patient .Paper presented in ACBICON, 2013 held in Delhi.

3 Application of Tandem mass spectrometry in new born screening. ACBICON, 2013 held in Delhi

4. Role of vitamin E in chronic kidney disease .Paper presented in ACBICON, 2013 held in Delhi.

5. Evaluation of Lipase and Amylase ratio in acute pancreatitis. Paper presented in ACBICON, 2013.

6. Importance of Albumin Creatinine Ratio in Spot Urine as screening test for early Diabetic Nephropathy in Type2 Diabetes mellitus Patients in Bihar. Paper presented in 39th Annual Conference of Association of Clinical Biochemists of India, held at Ranchi2012.

7. Oxidant and Antioxidant Status in CRF. Paper presented in ACBICON 2012. 39th Annual Conference of Association of Clinical Biochemists of India, held at Ranchi. .

8. Role of Nanotechnology in Medical Diagnosis. Paper presented in ACBICON 2011, held at Gwalior .

9.. Acute Ischemic Stroke and role of Antioxident. . Paper presented in ACBICON 2011, held at Gwalior .

10. Glycated haemoglobin : Double edge biomarker in type 2 diabetic patients, showing association of GHb A1C with dyslipidemia and long term control of blood sugar in Bihar. 19th National Annual Conference of Association of Medical Biochemists of India, held at Tiruchirappalli in December 2011

11 Participated in Professional course on Acid- Base Balance And Bihar ACBICON 2011,Held at Patna in May 2011.

12. Participated in 6th East Zone & 1st Jharkhand State branch Conference at MGM Medical College, Jamshedpur.2010

13. Awarded Fellowship of ACBI “Fellow of Association of Clinical Biochemists of India” by College of Fellows of ACBI at Seth G. S. Medical College & KEM Hospital, Mumbai

14. Presented a paper titled “Effect of smoking on chronic renal failure in primary glomerular nephropathies” in the 36th Annual conference of Clinical Biochemists of India, 2009, Kochi, Kerala.

15. Attended & Participated in Professional course & Pre-Conference WorkShop on clinical Genomics-PCR based mutation detection & DNA sequencing & Cell Biology-FACS, Fluorescent microscopy, in the 36th Annual Conference of Clinical Biochemists of India, 2009,Kochi,Kerala.

16.A paper was presented” Auto Antibody in The Cases Of Neurological Disorder”,at 36th Annual Conference of Association of Clinical Biochemists of India, held at Kochi, 2009

- 16..Organising Chairman, World Cancer Day, Feb'2009 at Regional Cancer Center, IGIMS, Patna,
- 17.Chairperson, Free papers session, xxxvth Annual Conference of Association of Clinical Biochemists of India, 2008, Kolkatta
- 18.Presented paper," There is plenty of room at the bottom,(Nano world), At 35th Annual Conference of Association of Clinical Biochemistof India, held at Kolkata, 2008. Attended & Participated in CME on "Nanotechnology in clinical Biochemistry" in the 34th, National conference of Clinical Biochemists of India, New Delhi, 2007.
19. Presented a paper titled "Biochemical profile of patients with idiopathic uric acid renal stone disease" in the 34th annual conference of Clinical Biochemists of India, held at New Delhi, 2007.
- 20..A paper was presented ," Prediction of elevated Urinary Albumin Excretion in Denovo development of Renal function impairment in the general population. At 34th Annual Conference of Association of Clinical Biochemists of India, held at New Delhi, 2007.
- 21.Participated in 3rd regional conference of eastern zone ACBI with Bangladesh, Nepal, Bhutan & Mayanmar (EZACBICON 2005) organized by Vivekananda Institute of Medical Sciences Ramkrishna Mission Seva Pratisthan Kolkata & Eastern Zone ACBI on April 29-30 & May 01.2005.
- 22.Chaired a session in 3rd Regional Conference of EZACBICON –2005 on Current Trends in Clinical Biochemistry, held at Vivekananda Institute of Medical Sciences, Kolkata.
- 23.Member organizing committee, 32nd Annual Conference of Association of Clinical Biochemists of India, ACBICON – 2005 held at Patna
24. Attended & Participated in work shop / CME "Laboratory Medicine & inborn Metabolic Disorders" at national Institute of Mental Health and Neuro Sciences. Banglore on 19th Jan 2004.
- 25.Presented a paper titled "Serum ferritin Level in cases of Acute & Chronic renal failure" in the XXXth Annual Conference of Association of Clinical Biochemists of India, held at NIMHANS, Bangalore, 2004.
26. Organised workshop on "Quality control in Clinical Laboratories" under banner of Association of clinical Biochemists of India (Bihar Chapter) in collaboration with Bio-Rad Laboratories, India, Pvt. Ltd. at Patna 2003.
- 27.Presented a paper titled "Comparison of Lipid profile in patients of Chronic renal failure on
- 28.Participated in the International Conference of 9th Asian Pacific Congress of Clinical Biochemistry, March 2002.
29. Organising Secretary, Annual Conference of Association of Clinical Biochemists of India (Bihar & Jharkhand chapter) on 8th Dec '02' at IGIMS, Patna.
30. Organised workshop on Medical Labs accreditation in collaboration with National Board for testing and calibration laboratories(NABL), at Patna in December '02')
31. Participated in the International Conference of 9th Asian Pacific Congress of Clinical Biochemistry, March 2002.
32. Participated in the International Conference of 9th Asian Pacific Congress of Clinical Biochemistry, March 2002.
33. Member Organising committee, Annual Conference of Association of Clinical Biochemists of India (Bihar & Jharkhand chapter) on 8th Dec '02' at IGIMS, Patna .
34. Organised workshop on Medical Labs accreditation in collaboration with National Board for testing and calibration laboratories(NABL), at Patna in December '02'.

35. Attended 27th Annual Conference of Association of Clinical Biochemists of India held at Nagpur, Jan '2001.
36. Participated in workshop on "Immune assays in infectious diseases" organized at Government Medical College, Nagpur, Jan '2001.
37. Attended the 26th Annual Conference of Association of Clinical Biochemists of India held at Christian Medical College and Hospital, Vellore, Feb '2000.
38. Participated in workshop on "Hands on training of immunodiagnostic and biosensor techniques" organized at the Schudder auditorium by CMC & H, Vellore, February '2000.
39. Participated in the workshop as an invited Delegate at the First National Conference on therapeutic Drug Monitoring and Toxicology under the auspices of the International Association of Threpeutic Drug Monitoring and Clinical Toxicology, held in Mumbai, India from 14 – 16th March '1997.
40. Participated in the workshop on Quality Control in Clinical Chemistry, organized at Patna in Annual Conference of ACBI Bihar chapter, Mar '1996.
41. Attended and presented paper at WHO conference on effective Biomedical communication at Bubneshwar,1993.
- 42 .Renal Stone Disease – Experience at IGIMS - paper presented in Annual Conference of Indian Medical Association at Bhagalpur.
43. Attended the workshop on "ELISA" in the diagnosis of infectious diseases organized by Association of Clinical Biochemists of India (Bihar Chapter).
44. Participated in the Seminar on "Immuno-Fluorescence" technique, its sensitivity in hormonal assay organized by the Clinical Biochemists under auspices of ACBI.
- 45 .Participated in seminar on "Prostatic Specific antigen – A tumor marker", organized by the Clinical Biochemists of Bihar.
46. Organizing Secretary of Joint Annual Conference of Association of Clinical Biochemists of India and Indian Association of Pathologists and Microbiologists held at Patna '1992
47. Presented a paper on "Quality Control Programme in Clinical Biochemistry" in the Joint Annual Conference of Association of Clinical Biochemists of India and Indian Association of Pathologists and Microbiologists held at Patna '1992.
48. Participated in the XVII Annual Conference of Association of Clinical Biochemists of India, held at Shimla in April '1991
- 49.Conference of Association of Clinical Biochemists of India (Bihar Chapter), Patna '1991.
50. Presented a paper entitled 'Renal Stone Analysis' – Role in Management of Stone recurrence in XIII Annual Conference of Association of Clinical Biochemists of India, Feb '1987.
51. Participated in the workshop on Quality Control in Clinical Chemistry, organized at Patna in XIII Annual Conference of ACBI, Feb '1987.
52. Participated in the XII Annual Conference of Association of Clinical Biochemists of India, Ahmedabad, January '1986.

Workshop/CME/ Training Attended

1. Participated in workshop on “Hands on training on BASIC INFORMATICS on Genome and sequence analysis, Biological databases, Protein structure prediction and visualization and Molecular Docking studies organised by Centre for biological Science(Bioinformatics) Central University of Bihar on 17th – 18th feb,2014.
2. .Attended workshop organised at SGPGI, Lucknow. The theme was National Medical College network sensitization and awareness.the network deals with Telemedicine,Teleducation, and cyber therapy etc.(13th and 14th Feb 2014).
3. Participated in CME and workshop on “Hands on training on Detection of Hemoglobinopathy by HPLC at RIMS Ranchi on 11th December 2012. Organised by Association of clinical biochemists of India.
4. Participated in MCI Basic Medical Education Training and workshop programme held on 26 – 28th September 2012 at SAIMS Indore.
5. Attended & Participated in Professional course & Pre-Conference WorkShop on clinical Genomics-PCR based mutation detection & DNA sequencing & Cell Biology-FACS, Fluorescent microscopy, in the 36th Annual Conference of Clinical Biochemists of India, 2009,Kochi,Kerala
6. Attended & Participated in CME on “Nanotechnology in clinical Biochemistry” in the 34th, National conference of Clinical Biochemists of India, New Delhi, 2007
7. Participated in 73rd Annual Meeting Society of Biological Chemist (India)21-24 Nov 2005 at G.B.Pant University of Agricultural and Technology, Pantnagar.
8. Participated in workshop on “HPLC Hemoglobinopathy, 3rd regional conference of eastern zone ACBI with Bangladesh,Nepal, Bhutan,&Myanmar (EZACBICON- 2005). organized by Eastern zone of ACBI On April 29- 30& May01,2005
9. Indo-UK Seminar: Biomarkers of Ecotoxicity, Cancer, monitoring and Prevention held on August 29, 2004 at Dept of Medical Elmentology and toxicology
10. Attended & Participated in work shop / CME “Laboratory Medicine & inborn Metabolic Disorders” at national Institute of Mental Health and Neuro Sciences. Banglore on 19th Jan 2004.
11. Organised workshop on “Quality control in Clinical Laboratories” under banner of Association of clinical Biochemists of India (Bihar Chapter) in collaboration with Bio-Rad Laboratories, India, Pvt. Ltd. at Patna 2003.
12. Organised workshop on Medical Labs accreditation in collaboration with National Board for testing and calibration laboratories(NABL), at Patna in December ‘02’
13. Participated in workshop on “Immune assays in infectious diseases” organized at Government Medical College, Nagpur, Jan ‘2001.
14. Participated in workshop on “Hands on training of immunodiagnostic and biosensor techniques” organized at the Schudder auditorium by CMC & H, Vellore, February ‘2000.
15. Participated in the workshop as an invited Delegate at the First National Conference on therapeutic Drug Monitoring and Toxicology under the auspices of the International

Association of Therapeutic Drug Monitoring and Clinical Toxicology, held in Mumbai, India from 14 – 16th March '1997.

16. Attended the workshop on “ELISA” in the diagnosis of infectious diseases organized by Association of Clinical Biochemists of India (Bihar Chapter).
17. Participated and attended the workshop on “Computerization of Laboratory in the Annual Conference of Association of Clinical Biochemists of India (Bihar Chapter), Patna '1991.
18. Participated in the workshop on Quality Control in Clinical Chemistry, organized at Patna in XIII Annual Conference of ACBI, Feb '1987.