Endocrinology & Metabolism

STAFF

Faculty
Prof. Subhankar Chowdhury : Professor & Head
Prof. Satinath Mukhopadhyay : Professor
Dr. Pradip Mukhopadhyay : Associate Professor
Dr. Sujoy Ghosh : Associate Professor
Dr. Dibakar Biswas : Assistant Professor
Dr. Rana Bhattacharjee : RMO-Cum-Clinical Tutor, Co In-charge, RIA Unit
Dr. Arijit Singha : RMO-Cum-Clinical Tutor
Dr. Bibek Roy Chowdhury : In-charge, RIA Unit (Re-employed on contractual basis)

Other staff:
Sri Ram Chandra Dey : Gr. I Stenotypist (Re-employed on contractual basis)
Sri Monotosh Chandra : M.T. Lab.
Sri Pradip Mandal : M.T. Lab.

Transfers and postings
Nil.

FACULTY NEWS

Prof. Subhankar Chowdhury

Guest Lecture
• Diagnosis and updated management of diabetes ’: Annual National Conference of doctors, Ordinance Factories, Rifle Factory, Ichhapur, Kolkata.
• Key note addresses’: Annual Conference of Society for Nutrition and Diabetes, Kolkata
• ‘Hypothyroidism Kaleidoscope’ : Annual conference of Endocrine Society of India, (West Bengal Chapter) at Kolkata
• ‘Diabetes and Cognition’: Annual Conference of Hello Diabetes Academia at Nagpur
• ‘Beta cell and Diabetes’: Dr. Mohan’s International Diabetes Update at Chennai.
• ‘How to set up an Ideal Diabetes Clinic’ : Regional round table on non-communicable diseases at Kolkata
• ‘Silent diabetic nephropathy- Endocrinologist view point’: Annual conference of Indian College of Physicians & API (WB), Kolkata
• ‘Primary Immunodeficiency and Endocrine disorders’ : Institute of Child Health Kolkata
• ‘Clinical evaluation of a patient with diabetes ‘ : National Annual Conference of Endocrine Society of India at Delhi.
• ‘Comprehensive look at FCPD’. Annual National Conference of Research Society for the Study of Diabetes in India (RSSDI) at Hyderabad
• ‘Endocrinopathies in Diabetes’: National update on Clinical Diabetes at Bhubaneswar.
• Chairperson
• Seminar on "Advances of diabetes management", Annual conference of IDEA, Kolkata
• Free paper session: International Pituitary Update, organized by IPGME&R Kolkata
• Defeating dementia, Kolkata Metropolitan Institute of Gerontology, Kolkata
• Diet in GDM, on occasion of National Nutrition week NRMCH, Kolkata
• Free paper session. Annual conference of RSSDI Hyderabad

External Examiner
• DM Endocrine exit examination at PGI Chandigarh.

Externally funded projects
• "Study of the association of adiponectin gene polymorphism and level of adiponectin with inflammation and endothelial dysfunction in type 2 diabetes subjects” funded by the Research Society for Study of Diabetes in India.
“Neck circumference as a predictor of impaired glucose metabolism, body mass index, cardiovascular risk factors and metabolic syndrome in normal, pre-diabetic and diabetic population: a population based observational study” – Funded by Deptt. of Science and Technology, Govt. of West Bengal.

“Association of gene mutations/polymorphisms with therapeutic efficacy of metformin in type 2 diabetes mellitus patients of West Bengal, India” funded by Department of Biotechnology, Government of India.

“A pilot study on the Role of Gut Microbiome in Gestational Diabetes Mellitus” funded by Department of Biotechnology, Government of West Bengal.

Prof. Satinath Mukhopadhyay

Conferences attended

- Annual conference of the Endocrine Society of India, New Delhi
- Annual conference of the Research Society for the study of diabetes in India, Hyderabad
- National update on clinical diabetes, Bhubaneswar
- North Eastern Diabetes Conference, Guwahati
- Pituitary update, Endocrine Society of Bengal, Kolkata
- Annual conference of the Integrated Diabetes and Endocrine academy, Kolkata
- Annual conference of the Indian Society for Bone Mineral Research, CMC, Vellore
- Annual conference of the API, West Bengal branch, Kolkata
- Annual conference of the API, North Bengal chapter, Siliguri

WORKSHOPS:

- Awareness and training on “Pharmacovigilence”- 9 December, IPGME&R, Kolkata
- ICMR sponsored workshop on ‘disease burden estimates for diabetes in India’, 5 September, 2016, New Delhi, India
- UNESCO sponsored “3T IBHSc advanced Bioethics course”, 2 November, Kolkata, India.

Guest Speaker

- Vitamin D deficiency and insulin resistance. At the North Eastern Diabetes Conference, Guwahati.
- Practical aspects of insulin therapy. At the National update on clinical diabetes, Bhubaneswar.
- Immunometabolic dysfunction and insulin resistance. At the Annual conference of the Research Society for the study of diabetes in India, Hyderabad.
- Renal glucose handling: what goes wrong in type2 diabetes? At the Annual conference of the API, North Bengal chapter, Siliguri
- Role of Saroglitazar, hydroxychloroquine and Bromocriptin in the treatment of type2 diabetes. At the Annual conference of the Endocrine Society of India, New Delhi.
- Vitamin D deficiency: pathophysiologic consequences. Guest lecture at the Annual Conference of the Indian Physiological Society, KPC Medical College, Kolkata, India.

Current affiliations

- Guest faculty: Department of Biotechnology, St. Xavier’s College, Kolkata, India.
- Chairman, Human Ethics Committee, Indian Institute of Chemical Biology, Kolkata, India
- Governing Council Member, CSIR IICB Translational Research Unit of Excellence incubation Center, Government of India.

Examiner

- DM Endocrinology (Exit exam), Department of Endocrinology & Metabolism, Christian Medical College, Vellore.
- Overseas Medical Graduates Registration Examination, National Board of Examinations, India.

Health Camp

- Saw 55 diabetic patients at a health camp at Math Bishnupur, Panskura, East Midnapore, West Bengal.

PhD Guide
• Vitamin-D Deficiency and Insulin Resistance: Molecular Mechanisms and Clinical Implications. Under University of Calcutta
• Lipid induced insulin resistance: molecular mechanisms. Under University of Calcutta.
• Role of black tea polyphenols on glucose and lipid uptake in diabetes. Under University of Calcutta
• Effects of L-theanine on insulin secretion and insulin sensitivity in type-2 diabetes. Under University of Calcutta

PhD Co-guide
• “Inositol phospholipid signaling in apoptotic death of insulin producing beta cells leading to diabetes”. In collaboration with the Department of Biochemistry, Ballygunge Science College, University of Calcutta.
• “Molecular characterization of initial events during apoptosis of pancreatic beta cells and isolated rat islets upon treatment with cytokines (TNF-α etc.) and streptozotocin, which create diabetic animal models”. In collaboration with the Department of Biochemistry, Ballygunge Science College, University of Calcutta.
• “Metal dysregulation in pathogenesis of Alzheimer’s disease: An experimental studies in rat brain and cultured mammalian SHSY5Y cells.” In collaboration with the Department of Biochemistry, Ballygunge Science College, University of Calcutta.

Other ongoing research projects
• Consequence of vitamin-D supplementation on changes in systemic inflammatory markers, insulin resistance, 1-hour plasma glucose levels and progression to overt diabetes in patients of pre-diabetes with vitamin-D deficiency: A randomized controlled trial. Funded by the Department of Science and Technology, Government of West Bengal.
• Role of black tea derived polyphenols on glucose and lipid uptake by peripheral blood mononuclear cells (PBMC) from individuals with glucose intolerance. Funded by the National Tea Research Foundation (NTRF), Government of India.
• Role of biofilm formation on healing of diabetic foot ulcers. In collaboration with the Biomedical Genomics Centre, Kolkata.
• Micro RNA profiling in diabetic peripheral neuropathy.
• DPP-IV concentration and activity in serum and adipose tissue in persons with type2 Diabetes. In collaboration with the Division of cellular physiology, Indian Institute of Chemical Biology, Kolkata, India.
• Role of thioridoxin binding protein-1 in glucose and lipid uptake by adipose tissue and skeletal muscles in high fat diet induced diabetic mice. In collaboration with the Division of cellular physiology, Indian Institute of Chemical Biology, Kolkata, India.
• Lipid-induced LRAT interferes with retinol metabolism and β-oxidation through PPARα leading to hepatic steatosis and insulin resistance. In collaboration with the Division of cellular physiology, Indian Institute of Chemical Biology, Kolkata, India.

Book chapter

Dr. Pradip Mukhopadhyay

Project by WB DST
• A study to compare and correlate the metabolic health (anthropologic and biochemical) between Scheduled Tribe population and non Scheduled Tribe population in underdeveloped parts in the District of Birbhum with special reference to metabolic health awareness especially about diabetes: a population based observational study. Being carried in the District of Birbhum

Guest Lecture
• Premixed Insulin Analogue by Annual conference by RSSDI West Bengal Chapter Held at Novotel Kolkata

Thesis Guide
• Pregnancy and Thyroid function: An eastern India Perspective by Dr Subhadip Pramanik.

Dr. Dibakar Biswas
Conferences attended
- Best of ADA, Kolkata 2016
- Pituitary Update organized by IPGME&R, Kolkata

Dr. Rana Bhattacharjee

Guest Lecture
- Role of Sulfonylureas in Management of Type 2 Diabetes: International Masterclass organized by Royal College of Physicians of Ireland – 24th January 2016
- Managing Dyslipidemia: organized by Association of Physicians of India at RG Kar Medical College – 18th February 2016
- Haven't glitpins met the expectations? Diabetes and Thyroid Meet organized by RSSDI WB Chapter and Endocrine society of Bengal – 13th March 2016
- HIV Endocrinopathy: Organised by Association of Physicians of India, North Bengal at Siliguri – 18th June 2016
- Cardiovascular Safety of Sulfonylureas: organized by IMA Howrah – 9th July 2016
- Debate on Early Insulinisation: Insulin Discovery day celebration by Diabetic Association of India, WB – 30th July 2016
- Diagnosis and Monitoring of Diabetes: Diabetes Conclave Organised by Association of Physicians of India, WB Branch – 20th August 2016
- Magnitude and Skeletal Implication of Vitamin D Deficiency: National Nutrition Week Celebration by Diabetic Association of India, WB – 2nd September, 2016
- Endocrine Emergencies: State conference of Indian association of Clinical Medicine WB Chapter – 11th September 2016

Conferences attended
- ESICON 2016 at New Delhi
- IACM State Conference, Kolkata
- API State Conference, Kolkata
- Pituitary Update organized by IPGME&R Kolkata
- Diabetes and Thyroid Meet at Kolkata organized by RSSDI WB Chapter and Endocrine society of Bengal

Dr. Arijit Singha

Conferences attended:
- Pituitary Update organized by organized by IPGME&R Kolkata
- Best of ADA Kolkata 2016

DEPARTMENTAL PUBLICATIONS


62


STUDENT INFORMATION
Dr. Saurava Bhatt, Dr. Sunetra Mondal, Dr. Neha Agrawal, Dr. Debarati Bhar, Dr. Soumita Mondal, Dr. Suvrendu Sekhar Kar joined as new post-doctoral trainees.

Departmental academic activity
- Case presentation: Every Monday and Friday
- Journal Watch: Every Tuesday
- Seminar presentation: Every Monday
- Ward round daily

SERVICE INFORMATION

Patient attendance
- Out Patients: Diabetic OPD (Wednesday, Thursday & Saturday) New Patients: 13336
- Endocrine OPD (Monday, Tuesday & Friday) New Patients: 7142
- Old Patients: 52940
- Old Patients: 18584

In Patients:
- Diabetological Problems: 72
- Other endocrinological problems: 59

Laboratory information
Following hormone assays were carried out in the past 1 year (01.01.2015 – 15.12.2016)

<table>
<thead>
<tr>
<th>Test</th>
<th>Count</th>
<th>Test</th>
<th>Count</th>
<th>Test</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>T3</td>
<td>229</td>
<td>Prolactin</td>
<td>196</td>
<td>PSA</td>
<td>84</td>
</tr>
<tr>
<td>T4</td>
<td>845</td>
<td>Testosterone</td>
<td>328</td>
<td>ACTH</td>
<td>163</td>
</tr>
<tr>
<td>FT3</td>
<td>747</td>
<td>Cortisol</td>
<td>545</td>
<td>IGF-1</td>
<td>231</td>
</tr>
<tr>
<td>FT4</td>
<td>5142</td>
<td>Insulin</td>
<td>307</td>
<td>C-peptide</td>
<td>165</td>
</tr>
<tr>
<td>TSH</td>
<td>5815</td>
<td>GH</td>
<td>60</td>
<td>IGF BP3</td>
<td>28</td>
</tr>
<tr>
<td>Thyroglobulin</td>
<td>55</td>
<td>Anti TPO Ab</td>
<td>458</td>
<td>TG</td>
<td>79</td>
</tr>
<tr>
<td>LH</td>
<td>331</td>
<td>Anti TG Ab</td>
<td>28</td>
<td>PTH</td>
<td>52</td>
</tr>
<tr>
<td>FSH</td>
<td>420</td>
<td>Androstenedione</td>
<td>14</td>
<td>Estradiol</td>
<td>41</td>
</tr>
<tr>
<td>SHBG</td>
<td>84</td>
<td>DHEASO4</td>
<td>54</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Tests done 16,422
Total Patients 9,851