

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

- Inconvenient truths – safety of GLT-1 based therapy, at Annual Conference of Endocrine Society of India, at Chandigarh on 14th November 2014.
- Metformin: Old wine new bottle at Annual Conference of RSSDI at Bangalore on 22nd November 2014.
- 'What is new in metformin' – and 'The year in Diabetes' organized by Association of Diabetologists & Endocrinologists, Bangalore at Bangalore on 26th January 2015.
- Medical practice and Research : Any contradiction on DST – INSPIRE Internship Science Camp at JBNSTS, Kolkata on 27th March 2015.
- Pitfalls in management of Hypothyroidism at Thyroid Update organized by Endocrine Society of Bengal on 19th April 2015.
- 'Paediatric Endocrine Kaleidoscope' - Dr.Sisir Kumar Basu Memorial Oration at Institute of Child Health, Kolkata on 15th August 2015.
- 'Approach to Childhood goitre' and Meet the professor – in the session of Gynaecological Thyroidology at Annual Conference of Indian Thyroid Society on 4th October 2015.
- Management of Diabetes: Art of the Science – Dr.M.Viswanathan Memorial Oration at Annual Conference of RSSDI, Lucknow on 31st October 2015.
- Management of Hypogonadotropic hypogonadism : Optimizing fertility at Annual Conference of Endocrine Society of India at Ahmedabad on 18 Dec'15.

D.M. Examiner

- External Examiner at DM Endocrinology at PGI, Chandigarh on 4th & 6th May AND December17, 2015.

Chairperson

- Plenary Session – II at Annual Conference of Endocrine Society of India at Chandigarh on 14th November 2014.
- Andrology & DSD symposium : at 2nd Scientific Conference at South Asia Federation of Endocrine Society at Dhaka, Bangladesh on 28th April 2015.
- Grand Rounds on Thyroid Surgery as Pre-conference workshop of Annual Conference of Indian Thyroid Society on 2nd October 2015.

Judge

- Presidential Poster Competition at Annual Conference of U.S. Endocrine Society at San Diego on 5th & 6th March 2015.

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.

PhD Guide

- On "Genetic study of young onset diabetes mellitus in eastern India" under Calcutta University

PhD Co-Guide

- On "Effects of diabetes mellitus on menstruation and fertility with special reference to sex steroids" under West Bengal University of Health Sciences

Other ongoing research projects

- A study to evaluate the Prevalence of Hypogonadism in Indian Males with Type 2 Diabetes Mellitus (DM)
- Efficacy and safety of liraglutide in combination with metformin versus metformin monotherapy on glycemic control in children and adolescents with type 2 diabetes: A 26-week double-blind, randomized, parallel group, placebo controlled multi-centre trial followed by a 26-week open-label extension.
- A trial comparing cardiovascular safety of insulin degludec versus insulin glargine in subjects with type 2 diabetes at high risk of cardiovascular events.

Prof. Satinath Mukhopadhyay

Conferences attended

- 6th World Congress of Diabetes – Diabetes India 2015;9 – 12 April, 2015, Ahmedabad.
- 'Medicine and Allied Specialties', Judge for the Oral Paper session, 17th January 2015. IPGME&R, SSKM Hospital, Kolkata.
- SEC Endocrinology meeting, CDSCO, 30th January, 2015. FDA Bhawan, New Delhi.
- Endocrinology and Diabetes symposium. Chairperson, 29th January 2015, Medical College, Kolkata.

Guest Speaker

- Metabolics and Lipids: Saroglitazar. ESICON 2015 (45th annual conference of Endocrine Society of India), 17-20th December 2015; Ahmedabad, India.
- Role of GLP-1 agonists in the management of T2DM. National Update on Clinical Diabetes, Bhubaneswar, 12 & 13 December, 2015.
- Invited lecture on "Lipid induced insulin resistance: molecular mechanisms and clinical implications". At the 'XXXIX All India Cell Biology Conference'. At Thiruvananthapuram. 6-8 December 2015.
- Managing bone health post transplant. William Owen Symposium. Annual Conference of the Indian Society for Bone and Mineral Research (ISBMR) at Christian Medical College, Vellore. November 27 – 28, 2015.
- Guest lecture on "intensification of insulin therapy in type 2 diabetes" at the World Diabetes Day meeting, Kolkata, 14 November, 2015.
- Guest lecture on "Vitamin D deficiency". At the Department of Biotechnology, St. Xavier's College, Kolkata, 24th September 2015..
- Controversies in Lipidology. IDEACON 2015. 10-12th May, Kolkata.
- Subclinical hyperthyroidism. At the Thyroid Update, 19th April 2015, National Library, Kolkata.
- Vitamin-D deficiency and Type 2 Diabetes. RBF Foundation 7th International Symposium, Ahmedabad, India. Feb 2-4, 2015.
- Keynote lecture on "Hepatokines and insulin resistance". 102nd Indian Science Congress, 3-7th January 2015. Bombay University, Mumbai, India.

Examiner

- DM Endocrinology (Exit exam), Department of Endocrinology & Metabolism, Institute of Medical Sciences, Banaras Hindu University- July 2015
- DM Endocrinology (Exit exam), Department of Endocrinology & Metabolism, Calcutta Medical College- August, 2015
- DM Endocrinology (Exit exam), Department of Endocrinology & Metabolism, Christian Medical College, Vellore.

Health Camp

- Saw more than 100 diabetic patients at a health camp followed by Doctor- Patient interaction at Tripura Medical College, Agartala, Tripura on 9-10th October 2015.

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- alpha 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 thioredoxin 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 PPAR α leading to hepatic steatosis and insulin resistance. In collaboration with the Division of cellular physiology, Indian Institute of Chemical Biology, Kolkata, India.

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
- "Pregnancy and Hypothyroid: Dos and Don'ts. At Annual National Conference of Indian Thyroid Society 2015
- Chairpersons: Embryonic origin and Cytogenic diagnosis of Turner's syndrome and its variant. Is there a phenotypic correlation with Chromosomal abnormalities? By Dr Kausik Mandal at Turner syndrome Update by Endocrine Society of Bengal. Held at IPGIMER on 16.5.15.

Conferences attended

- 50th Annual National Conference of Indian Thyroid Society. 3rd -4th October, 2015. Held at Kolkata.

Thesis Guide

- Endocrine Changes via thalassemia with special reference to puberta Changes. By Dr Dipanjan Chakrabarty. PDT Clinical Hematology. Paper presented at 9th Annual Sickle Cell and Thalassemia Advanced Conference 7 – 9 October 2015. London
- Pregnancy and Thyroid function: An eastern India Perspective by Dr Subhadip Pramanik.

Dr. Sujoy Ghosh

Guest lectures

- SGLT2 inhibitors: New drugs in management of Type 2 Diabetes: APICON 2016 Gurgaon
- Role of Kidney in pathogenesis of diabetes: AMRICON Kolkata
- Flozins will replace the supremacy of Gliptins, Diabetes India, Chennai
- Trials in Type 1 Diabetes, Diabetes Update, Chennai
- Alpha Cell dysfunction in pathogenesis of Type 2 Diabetes, RSSDI Lucknow
- Role of Saroglitazar in Non-Alcoholic Fatty liver disease, EASD, Stockholm, Sweden
- Cardiovascular Outcome Trials in Type 2 Diabetes: Insulin Discovery Day, Kolkata
- 11 Beta HSD type 1 Inhibitors in management of type 2 diabetes, World Diabetes Day Kolkata
- SGLT2 inhibitors: myths and Realities, RSSDI West Bengal Chapter SGLT2 inhibitor symposium
- Pregnancy and Thyroid Function: BOGS Kolkata
- Non-HDL Cholesterol: importance in Diabetes: Cardiological Society of India, Kolkata
- Faculty PHFI for CCEBDM course on Diabetes, in conjunction with Kolkata Diabetes Forum
- Faculty PHFI for ACMDC course on cardiovascular complications of Diabetes
- Faculty PHFI for CCMTD course on thyroid Dysfunction
- Thyroid: the year in review: ITSCON Kolkata
- Is it time to bury metabolic syndrome: ESICON, Ahmedabad
- Management of GDM, BOGS

Awards & Achievements

- Nominated Editor in Chief : Oxford handbook series (South East Asian Edition)
- Nominated: International Advisory Board Member: 23rd Edition of Davidson's Principles & Practice of Internal Medicine
- India's Nominee at World Rising Star program of International Diabetes Centre. Stockholm September 2015.

Book

- Hyperthyroidism: MacCann Health publishers

Book chapters

- Ray S, Ghosh S. Mechanisms for Beta & Alpha Cell dysfunction. RSSDI update (Jaypee Brothers)
- Ray S, Ghosh S. Berberine in the treatment of Type 2 diabetes. Drugs & Diabetes (Jaypee Brothers)
- Beatrice A M, Ghosh S. Hydroxychloroquine in Type 2 Diabetes. Drugs & Diabetes (Jaypee Brothers)
- Ghosh S, Collier A. Bromocriptine in Type 2 Diabetes. Drugs & Diabetes (Jaypee Brothers)
- Bhattacharya R, Ghosh S. Colesevalam in Type 2 Diabetes. Drugs & Diabetes (Jaypee Brothers)
- Ghosh S, Chowdhury S. Chronic infections in type 2 Diabetes. Diabetes Surakhsha. McMillan
- Ghosh S, Chowdhury S. Gestational Diabetes. Diabetes Surakhsha. McMillan
- Ghosh S, Chowdhury S. Epidemiology of Diabetes in young. Paediatric Diabetology. Jaypee brothers
- Ghosh S. Pancreatic and islet cell transplantation in type 1 diabetes. Paediatric Diabetology. Jaypee brothers
- Ghosh S, Meher L K. Thyroid dysfunction in Pregnancy. API Medicine update 2016
- Goswami S, Ghosh S. Non-HDL Cholesterol: importance in clinical practice. Clinical Lipidology. Jaypee brothers
- Pramanick S, Ghosh. PCSK 9 inhibitors in clinical practice. Clinical Lipidology. Jaypee brothers.
- Goswami S, Ghosh S. Hyperglycaemia in women
- Dutta D, Ghosh S, Chowdhury S. Approach to an Obese Patient-Protocols and plans. ESI Manual of Endocrinology, 2nd Edition. Jaypee Brothers
- Chakraborty PP, Ghosh S. Online risk engines in Diabetes. ESI Manual of Endocrinology, 2nd Edition Jaypee Brothers

Dr. Rana Bhattacharjee

Guest Lecture

- How to approach a patient with abnormal thyroid function test. Indian Association of Clinical Medicine Peripheral CME. 04/04/2015
- CV protection in T2 Diabetes. IHD Meet. Kolkata. 19/04/15
- Use of low dose estrogen in growth promotion in Turner syndrome. Endocrine Society of Bengal. 16/05/2015
- How to manage newly diagnosed diabetic with marked hyperglycemia. Kolkata Endocrine Forum. 30/05/15
- New horizon in management of Type 2 Diabetes. API North Bengal. 07/06/2015
- Exogenous Cushing syndrome. Indian Association of Clinical Medicine. 09/08/2015
- Differential Diagnosis of Diabetes: Clinical cases. Diabetes India. 16/08/2015
- Thyroid dysfunction: Menstruation and fertility issues. ITSCON 2015. 04/10/15
- SGLT 2 Inhibitors will Replace Oral Secretagogues as a First add-on to Metformin in T2D management Soon-Debate. RSSDI WB World Diabetes Day Celebration. 14/11/2015

Others

- Panel Discussion on Insulin Therapy – As Panelist. Diabetic Association of India, WB. 16/05/2015
- Diabetes Quiz- as Quiz Master. IACM State Conference 19/09/2015

Dr. Arijit Singha

Project

- Study on ovarian function after total abdominal hysterectomy in perimenopausal women.

Conferences attended:

- ITSCON 2015 Kolkata
- RSSDI Kolkata 2015
- Best of ADA Kolkata 2015

DEPARTMENTAL PUBLICATIONS

1. "Oxygen-18 isotope of breath CO₂ linking to erythrocytes carbonic anhydrase activity: a biomarker for pre-diabetes and type 2 diabetes." Chiranjit Ghosh, Gourab D.Banik, Abhijit Maity, Suman Som, Arpita Chakraborty, Chitra Selvan, Shibendu Ghosh, Subhankar Chowdhury and Manik Pradhan. Published in Scientific Reports, 5:8137, DOI: 10.1038/srep08137, 30Jan2015.
2. "Efficacy and safety of low dose oral prednisolone as compared to pulse intravenous methylprednisolone in managing moderate severe Graves'orbitopathy: A randomized controlled trial". Ajitesh Roy, Deep Dutta, Sujoy Ghosh, Pradip Mukhopadhyay, Satinath Mukhopadhyay, Subhankar Chowdhury
Published in Indian Journal of Endocrinology and Metabolism/May-Jun 2015/Vol 19/ Issue3, 351-358.
3. "Practical approaches for self-monitoring of blood glucose: an Asia-Pacific perspective".
Subhankar Chowdhury, Linong Ji, Sompongse Suwanwalaikorn, Neng-Chun Yu, Eng Kiat Tan. Published in CMRO, Current Medical Research & Opinion, Vol.31, No.3, 2015, 461-476.
4. "Association of MTHFR 677C > T genetic polymorphism with hyperhomocysteinemia in type 2 diabetes patients". Arpita Chakraborty, Arindam Chakraborty, Subhankar Chowdhury, Sanghamitra Sengupta and Maitree Bhattacharyya. Published in Cogent Medicine 2015, 2:1017973
5. "Puberty and type1 diabetes" Subhankar Chowdhury. Indian Journal of Endocrinology and Metabolism /2015/ Vol19/ Supplement1/Page51-54.
6. "Increased soluble TNF Receptor-1 and Glutathione Peroxidase may predict Carotid intima media thickness in females with Cushing Syndrome" Ks Shivaprasad, Manoj Kumar, Deep Dutta, Bineet Sinha, Samim Ali Mondal, Indira Maisnam, Satinath Mukhopadhyay, Subhankar Chowdhury. Published in Endocrine Practice, Vol21, No.3, March 2015.
7. "First Presentation of Diabetes as Diabetic Ketoacidosis in a Case of Friedreich's Ataxia". Partha Pratim Chakraborty, Sayantan Ray, Rana Bhattacharjee, Sujoy Ghosh, Pradip Mukhopadhyay, Satinath Mukhopadhyay and Subhankar Chowdhury. Published in Clinical.DiabetesJournals.Org, Volume 33, Number2, Spring2015, Page 84 to 86.
8. "Diabetes and Primary Infertility in Young Males: Do not forget Cystic Fibrosis". Partha Pratim Chakraborty, Sayantan Ray, Rana Bhattacharjee, Sujoy Ghosh, Pradip Mukhopadhyay, Satinath Mukhopadhyay and Subhankar Chowdhury. Published in Clinical.DiabetesJournals.Org, Volume 33, Number2, Spring2015, Page 80 to 83.
9. "Oncogenic osteomalacia caused by occult nasal mesenchymal tumor: a monster in the cave." Sayantan Ray, Partha Pratim Chakraborty, Kaushik Biswas, Anne M. Beatrice, Sujoy Ghosh, Satinath Mukhopadhyay and Subhankar Chowdhury. Published in Oxford Medical Case Reports, 2015;4, 265-268
10. "Alteration of Menstrual Cycle associated with Type2 Diabetes Mellitus in women of West Bengal" Sunil Chakrabarti, Subhankar Chowdhury, Sudakshina Ghosh, Manalee Guha, Soumee Ghosh, Srikanta Guria, Arup Kumar Pattanayak, Zareen Sultana and Madhusudan Das. Journal of Atoms and Molecules/5(2); 2015/, An International Online Journal, ISSN-2277-1247.
11. "Occurrence of osteoporosis and factors determining bone mineral loss in young adults with Graves' disease" Dibakar Biswas, Deep Dutta, Indira Maisnam, Satinath Mukhopadhyay and Subhankar Chowdhury. Indian J Med Res 141, March 2015, pp322-329.

12. "Oxidative Stress-Related Genes in Type 2 Diabetes: Association Analysis and their Clinical Impact" Suranjana Ray Haldar, Arpita Chakraborty, Subhankar Chowdhury, Atish Haldar, Sanghamitra Sengupta, Maitree Bhattacharyya. *Biochemical Genetics* 05/2015, 53:93-119.
13. "Histopathological study of adrenocortical masses with special references to Weiss score, Ki-67 index and p53 status" Gautam Mukherjee, Chhanda Datta, Uttara Chatterjee, Moumita Sengupta, Gaurav Chatterjee, Malay Bera, Subhankar Chowdhury. *Indian Journal of Pathology and Microbiology*- 58(2), April-June 2015
14. "Bardet-Biedl syndrome in two siblings: A rare entity revisited" H.N.Chakravarti, S.Ray, S.K.Chakrabarti, D.Biswas, S.Ghosh, Satinath Mukhopadhyay, Subhankar Chowdhury. *QJM: Monthly Journal of the Association of Physicians* , 05/2015.
15. "Profile of liver enzymes in non-alcoholic fatty liver disease in patients with impaired glucose tolerance and newly detected untreated type2 diabetes" Debmalya Sanyal, Pradip Mukherjee, Moutushi Raychaudhuri,Sujoy Ghosh,Satinath Mukherjee, Subhankar Chowdhury. *Indian Journal of Endocrinology and Metabolism /Sep-Oct 2015/Vol 19/Issue5/597-601.*
16. "Place of sulfonylureas in the management of type 2 diabetes mellitus in South Asia : A consensus statement" Sanjay Kalra, A.H.Aamir, Abbas Raza, A.K.Das,A.K.Azad Khan,Dina Shrestha,Md Faisal Qureshi, Md Fariduddin,Md Faruque Pathan, Fatema Jawad,Jyoti Bhattarai, Nikhil Tandon,Noel Somasundaram,Prasad Katulanda,Rakesh Sahay,Sanjib Dhungel,Sarita Bajaj,Subhankar Chowdhury,Sujoy Ghosh,S.V.Madhu,Tofail Ahmed,Uditha Bulughapitiya. *Indian Journal of Endocrinology and Metabolism /Sep-Oct 2015/Vol 19/Issue5/577-596*
17. "Cubitus Rectus: A skeletal marker of 48,XXXY karyotype" Partha Pratim Chakraborty, Rana Bhattacharjee, Sujoy Ghosh, Satinath Mukhopadhyay, Subhankar Chowdhury. *International Journal of Clinical Cases and Investigations. Vol06,Issue5,22:25,01Oct2015*
18. "The importance of non high density lipoprotein cholesterol in dyslipidaemia management" Subhankar Chowdhury, Jyothi Raman Chowdhury and Soumik Goswami. *Journal of Diabetes and Metabolism, ISSN:2155-6156 JDM, Vol06/Issue11/1000623,Published 18Nov2015.*
19. "The bitter taste of Hypoclycemia" Subhankar Chowdhury,Partha Pratim Chakraborty. *International Journal of Diabetes in Developing Countries* 11/2015; DOI:10.1007/s13410-015-0457-2
20. "Forum for Injection Technique (FIT),India: The Indian recommendations 2.0, for best practice in Insulin Injection Technique,2015" Nikhil Tandon,Sanjay Kalra, Yatan Pal SinghBalhara, Manash P.Baruah,Manoj Chadha,Hemraj B.Chandalia,Subhankar Chowdhury,Kesavadev Jothydev,Prasanna K.M.Kumar,Madhu. S.V.,Ambrish Mithal,Sonal Modi,Shailesh Pitale,Rakesh Sahay,Rishi Shukla,Annamalai Sundaram,Ambika G.Unnikrishnan,Subhash K.Wangnoo. *Indian Journal of Endocrinology and Metabolism/May-Jun2015/Vol19/Issue3 317:331*
21. D Dutta, S Mukhopadhyay. Intervening at prediabetes stage is critical to controlling the diabetes epidemic among Asian Indians. *Indian Journal of Medical Research* 2015. (In press).
22. Deep Dutta and Satinath Mukhopadhyay. Incidence of Diabetes and Prediabetes and Predictors of Progression Among Asian Indians: 10-Year Follow-up of the Chennai Urban Rural Epidemiology Study (CURES). *Diabetes Care* 2015; 38:1441–1448. *Diabetes Care* 2015; 38:e146 | DOI: 10.2337/dc15-0908.
23. Mrityika C hattopadhyay, Vineet Kumar Khemka, Gargi Chatterjee, Anirban Ganguly, Satinath Mukhopadhyay, Sasanka Chakrabarti. Enhanced ROS production and oxidative damage in subcutaneous white adipose tissue mitochondria in obese and type 2 diabetes subjects. *Mol Cell Biochem* (2015) 399:95–103. DOI 10.1007/s11010-014-2236-7.
24. Deep Dutta, Chitra Selvan, Satinath Mukhopadhyay. Multiple Pituitary Hormone Deficiency, Empty Sella and Ectopic Neurohypophysis in Turner Syndrome. *Indian Pediatrics* 2015; 52: 803-4.
25. DibakarBiswas, Deep Dutta, Indira Maisnam, SatinathMukhopadhyay&SubhankarChowdhury. Occurrence of osteoporosis & factors determining bone mineral loss in young adults with Graves' disease.*Indian J Med Res* 141, March 2015, pp 322-329
26. MoitriBasu, Rahul Bhattacharya, Upasana Ray, SatinathMukhopadhyay, UttaraChatterjee and Sib Sankar Roy. Invasion of ovarian cancer cells is induced byPITX2-mediated activation of TGF-β and Activin-A. *Molecular Cancer* (2015) 14:162. DOI 10.1186/s12943-015-0433-y.
27. Dutta D, Selvan C, Mukhopadhyay S. Multiple Pituitary Hormone Deficiency, Empty Sella and Ectopic Neurohypophysis in Turner Syndrome. *Indian Pediatr.* 2015 Sep 8;52(9):803-4.
28. Bhattacharjee S, Das N, Mandala A, Mukhopadhyay S, Roy SS. Fenofibrate Reverses Palmitate Induced Impairment in Glucose Uptake in Skeletal Muscle Cells by Preventing Cytosolic Ceramide Accumulation. *Cell PhysiolBiochem.* 2015;37(4):1315-28. doi: 10.1159/000430399. Epub 2015 Oct 22
29. Kumar M, Mukhopadhyay S, Dutta D. Challenges and controversies in diagnosis and management of gonadotropin dependent precocious puberty: An Indian perspective. *Indian J EndocrinolMetab.* 2015 Mar-Apr;19(2):228-35. doi: 10.4103/2230-8210.149316. Review.
30. Tuberculosis of the thyroid gland: two case reports. Arjun Baidya, Arijit Singha, Rana Bhattacharjee, Bibhas Saha Dalal. *Oxford Medical Case Reports* 2015; 262–264
31. Poncet's disease: An unusual presentation of tuberculosis in a diabetic lady. Chakraborty PP, Ray S, Selvan C, Bhattacharjee R, Mandal SK. *World J Clin Cases* 2015; 3(4): 385-388
32. Graves' disease with Unilateral Thyroid hypoplasia. Sugata Narayan Biswas, Partha Pratim Chakraborty, Rana Bhattacharjee. *Indian J Appl Radiol.* 2015;1(1): 1
33. "Type1 Diabetes: Awareness, management and challenges: Current scenario in India." K.M.Prasanna Kumar,Banshi Saboo,P.V.Rao,Archana Sarda,Vijay Viswanathan,Sanjay Kalra,Bipin Sethi,Nalini Shah,S.S.Srikanta,Sunil M Jain,P.Raghupathy,Rishi Shukla,Ashok Jhingan,Subhankar Chowdhury,P.K.Jabbar,Alok Kanungo, Rajesh Joshi,Surendra

Kumar, Nikhil Tandon, Vaman Khadilkar, Manoj Chadha. Indian Journal of Endocrinology and Metabolism/2015/Vol19/Supplement1,S6:S8.

34. "Unilateral neuropathic arthropathy of the shoulder secondary to syringomyelia: Diagnostic Challenges" Partha Pratim Chakraborty, Saumik Datta, Sayantan Ray, Rana Bhattacharjee, Subhankar Chowdhury

STUDENT INFORMATION

Dr. Subhodip Pramanick, Dr. Ashok Kumar, Dr. Manojkumar Madhukar, Dr. Umakanta Mahapatra, Dr. Satyaki Manna and Dr. Wagh Onkar Deviprasad have joined as D.M. PDT for the session 2012 – 2015.

TEACHING PROGRAMME

1. Grand Round: Monday morning at EC Ward
2. Case Presentation: Monday afternoon
3. Seminar: Thursday morning at Endocrine Department
4. Journal Club: Saturday morning at Medicine Seminar Room.

SERVICE INFORMATION

Patient attendance

Out Patients: Diabetic OPD (Wednesday, Thursday & Saturday)	New Patients: 7449 Old Patients: 16192
Endocrine OPD (Monday, Tuesday & Friday)	New Patients: 5512 Old Patients: 7607
In Patients: Diabetological Problems	59
Other endocrinological problems	52

Laboratory information

Following hormone assays were carried out in the past 1 year.

Test	Count	Test	Count	Test	Count
T3	92	Prolactin	340	DHEASO4	23
T4	134	Testosterone	324	ACTH	143
FT3	487	Cortisol	568	IGF-1	170
FT4	4696	Insulin	472	C-peptide	75
TSH	6152	GH	144	IGF BP3	52
EPO	138	Anti TPO Ab	674	TG	79
LH	274	Anti TG Ab	98	iPTH	345
FSH	306	Androstenedione	24		

Total Tests done 15,810

Total Patients 7,947

REQUIREMENTS FOR FURTHER DEVELOPMENT

Urgent need for establishing assay of HbA1c and Urine microalbumin : creatinine ratio in the department.
