

Name: Sujoy Ghosh

Designation: Professor, Dept. of Endocrinology and Metabolism

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Date of Birth: 29th December 1971

Gender: Male

Academic qualification (undergraduate onwards)

Name	Year of passing	University/Board	% of marks obtained
1 st MBBS	1992	University of Calcutta	71.8
2 nd MBBS	1993	University of Calcutta	61.0
3 rd MBBS	June 1995	University of Calcutta	68.11
M.D (General Medicine)	April 2001	University of Calcutta	73.5
DM (Endocrinology)	12 th May 2005	University of Calcutta	57.5

M.R.C.P	2007	Royal college of Physicians UK	
M.R.C.P.S	2007	Royal college of Physicians & Surgeons Glasgow	
Specialty certificate of Diabetes & Endocrinology	2009	Royal college of Physicians UK	81.5%

Academic Positions:

Professor, Dept. of Endocrinology & Metabolism, Institute of Post Graduate Medical Education & Research, Kolkata India

Executive Editor: Indian Journal of Endocrinology & Metabolism (Journal of Endocrine Society of India)

Executive Editor: Thyroid Research & Practice (Journal of Indian Thyroid Society)

Associate Editor: International Journal of Diabetes in Developing Countries (Journal of Research Society for the Study of Diabetes in India)

Editor in chief (elect): Journal of Indian Medical Association (Journal of Indian Medical Association)

International Advisory Board Member: Davidson's Principles & Practice of Internal Medicine (Endocrinology & Diabetes Section)

Member core committee of National Guidelines of Diabetes published jointly by Endocrine Society of India & Research Society for the Study of Diabetes in India: 2020 (published)

Fellowships:

- Fellow of American College of Endocrinology
- Fellow of Royal College of Physicians, London
- Fellow of Royal College of Physicians, Edinburgh
- Fellow of Royal College of Physicians & Surgeons, Glasgow
- Fellow of Indian College of Physicians
- Fellow of Research Society for the study of Diabetes in India

Academic Distinctions/Awards:

Won several awards at under-graduate, post-graduate and postdoctoral level for academic excellence. Rank holder at all university examinations, stood first in post-graduate, postdoctoral examinations. Awarded University scholarships for academic excellence. Several Gold medals at undergraduate, post-graduate and postdoctoral level.

Awards/Special Attainments:

- Fellow of West Bengal Academy of Science & Technology (2022)
- AACE Outstanding International Clinician Award (2021)
- WIDF Diabetes Innovation award 2021
- Won several awards at under-graduate, post-graduate and postdoctoral level for academic excellence. Rank holder at all university examinations, stood first in post-graduate, postdoctoral examinations.
- Awarded University scholarships for academic excellence. Several Gold medals at undergraduate, post-graduate and postdoctoral level.

Research Awards:

- First prize for best research: awarded by Department of Science and Technology, Science Congress, Government of India 2020.
- Best Research paper in Endocrinology 2009. European Endocrine Conference. Istanbul April 2009.
- 1st Prize for best poster presentation at the Triennial Conference of Royal College of Physicians and surgeons, Glasgow November 2008.
- 1st Prize for best research presentation. Royal Medico-Chirurgical society of Glasgow 2007.
- Runners up- Eli-Lily Abracadabra award, London March 2009. For Best clinical research in Diabetes.
- Research award: 50th Annual research competition of Scottish Society of Physicians, October 2008.
- Winner: Annual Research Competition of Royal Medico-Chirurgical society of Glasgow 2009.
- Stood first in India in the neurology session for presentation of scientific paper in Annual conference of India, held in Jaipur, 2000

Previous Administrative Positions:

- Honorary National Secretary Endocrine Society of India
- National Joint Secretary Indian Thyroid Society
- National Joint Secretary Research Society for the Study of Diabetes in India (RSSDI)
- Member, Specialty Expert Committee, (Endocrinology & Diabetes) Drug Controller General of India

ONGOING RESEARCH PROJECTS:

Name of PI/Co-PI/Guide	Name of Project	Quantum of support	Funding agency
PI: Dr. Partha Chakraborty, Co I: Dr. Sujoy Ghosh	A prospective study on the role of incretin hormones in patients undergoing bariatric surgery	23,00,000/-	DBT West Bengal
PI: Dr. Partha Chakraborty, Co I: Dr. Sujoy Ghosh	'SGLT2 Expression in human renal proximal tubular cells predicting efficacy of SGLT2 inhibitors'	9,90,000/-	RSSDI, National Body

PI: Dr. Brajadulal Chattopadhyay , Co I: Dr. Sujoy Ghosh	“A Study of Anti-Hyperglycemic properties of Gymnedenia Orchidis Lindl of Orchdaceae Family ”	1,87,500/-	RSSDI, National Body
PI: Dr. Pradip Mukhopadhyay, Co I: Dr. Sujoy Ghosh	A Study of Glucagon response and incretin levels in patients with fibrocalculous pancreatic disease attending SSKM Hospital Kolkata.	3,75,295/-	RSSDI, National Body
PI: Dr. Kaushik Pandit, Co I: Dr. Sujoy Ghosh	A Study of the prevalence of autoantibodies in Type 1 Diabetes.	9,96,000/-	RSSDI, National Body
PI: Dr. Sujoy Ghosh CoI: Dr. Soumen Manna, Dr. Arun Bandopadhyay	Identification of non-invasive signatures for differential diagnosis of biopsy proven diabetic nephropathy and non-diabetic kidney disease by metabolomics and peptidomics approach	29,90,000/-	RSSDI, National Body
PI: Prof. Arpita Roy Chaudhury Co I: Dr. Sujoy Ghosh	Utility of protein markers in urine/plasma to help differentiate diabetic kidney disease (DKD) from non-diabetic kidney disease (NDKD) in patients with Type 2 diabetes with biopsy proven nephropathy.	2045800	DST West Bengal
PI: Dr. Sujoy Ghosh	A Double Blind Comparative Prospective Study of The Safety of Teneligliptin and Sitagliptin To Evaluate QTc Prolongation In Indian Type 2 Diabetes Patients.		Investigated Initiated Study
PI: Dr. Sujoy Ghosh	A prospective, multi-centre, double-blind, randomized, study to evaluate the safety and efficacy of Saroglitazar 4mg versus Placebo in the treatment of HIV associated lipodystrophy.	6,50000	Zydus Cadila
PI: Dr. Subhankar Chowdhury Co I: Dr. Sujoy Ghosh	Comprehensive Molecular studies in Monogenic Forms of Diabetes In India	450000	DBT
PI: Dr. Subhankar Chowdhury Co I: Dr. Sujoy Ghosh	ICMR INDIAB Study	4958000/-	ICMR
PI: Dr. Sujoy Ghosh	A Study On The Clinical And Microbiological Association Between Chronic Periodontitis And Diabetes	20,56,200	DST West Bengal

Co I: Dr. Rukshana Chowdhury			
PI: Dr. Sujoy Ghosh	Liquid biopsy: a non-invasive approach for detection of known driver mutations and Long-Noncoding RNA expression in patients with Differentiated thyroid carcinoma	4,00000	Endocrine Society of India (Adhoc grant)
PI: Dr. Sujoy Ghosh	Urinary non-coding RNA in biopsy confirmed patients with diabetic kidney disease to understand pathophysiology of disease and differentiate from non-diabetic kidney disease	2353000/-	DST West Bengal
PI: Dr. Sujoy Ghosh	Clinical trial network for hospital-based trial in Diabetology	4484000/-	BIRAC
PI: Dr. Pradip Mukhopadhyay Dr. Sujoy Ghosh	Evaluation of lipidomic signature in prediction of onset of Polycystic Ovarian Syndrome	2430000/-	DST West Bengal
PI: Dr. Sujoy Ghosh	Role of PVT1 Long Non-coding RNA and its interaction with MYC in Differentiate thyroid cancer	500000/-	Indian Thyroid Society
PI: Dr. Sujoy Ghosh Co I: Dr. Amritava Ghosh Co I: Dr. Beatrice Anne. M	cell free DNA concentration to differentiate benign from malignant thyroid nodules and its application in determining thyroid cancer remission and recurrence	3000000/-	Endocrine Society of India (Multicentre Grant)

Books:

SL No.	Title	Authors Name	Publisher	Year
1.	Fundoscopy Made Easy	Sujoy Ghosh, Andrew Collier	Elsevier	2010
2.	Churchill's Pocket Book of Diabetes	Sujoy Ghosh, Andrew Collier	Elsevier	2012
3.	RSSDI Year Book of Diabetes	Sujoy Ghosh	Jaypee Brothers	2017
4.	MCQs in Endocrinology	Amritava Ghosh, Sowrabha Bhat, Sarita Bajaj, Sujoy Ghosh	Jaypee Brothers	2018

5.	Manual of Lipidology	Sujoy Ghosh Bansi Saboo	Jaypee Brothers	2020
6	RSSDI Year Book of Diabetes	Sujoy Ghosh	Jaypee Brothers	2020
7	A Pocketbook on Thyroid Disorders	Sujoy Ghosh, Debmalya Sanyal, Sayantan Ray	WILEY	2022

Publications:

Banerjee, Mainak & Mukhopadhyay, Pradip & Ghosh, Shatabdi & Basu, Madhurima & Pandit, Alak & Malik, Rayaz & Ghosh, Sujoy. (2023). Corneal Confocal Microscopy Abnormalities in Children and Adolescents With Type 1 Diabetes. *Endocrine Practice*. 10.1016/j.eprac.2023.06.004.

Basu M, Pulai S, Neogi S, et al. Prevalence of non-diabetic kidney disease and inability of clinical predictors to differentiate it from diabetic kidney disease: results from a prospectively performed renal biopsy study. *BMJ Open Diabetes Res Care*. 2022;10(6):e003058. doi:10.1136/bmjdr-2022-003058.

Dutta S, Tarafdar S, Mukhopadhyay P, Bhattacharyya NP, Ghosh S. Detection of driver mutations in plasma cell-free nucleic acids in differentiated thyroid neoplasm. *Eur J Endocrinol*. 2023;188(1):lvac018. doi:10.1093/ejendo/lvac018

Yasmin M, Mukhopadhyay P, Ghosh S. Model of care for Type 1 diabetes in India: Integrated approach for its incorporation in future national health care policy. *The Lancet Regional Health Southeast Asia*. 2022; August 01 Volume 3, 100014.

Mukherjee, Partha & Ghosh, Sujoy & Mukhopadhyay, Pradip & Das, Dipesh & Sarkar, Pabak & Majumdar, Saibal & Chatterjee, Kajal & Chowdhury, Abhijit & Das, Kausik. (2023). Stepwise evaluation for the risk of metabolic unhealthiness and significant non-alcoholic fatty liver disease in India. *The Lancet Regional Health - Southeast Asia*. 12. 100142. 10.1016/j.lansea.2023.100142.

Saboo, Banshi & Chandalia, Hemraj & Ghosh, Sujoy & Kesavadev, Jothydev & Kochar, Ips & Prasannakumar, K & Sarda, Archana & Bantwal, Ganapathi & Mehrotra, R & Rai, Madhukar. (2023). Insulin Glargine in Type 1 Diabetes Mellitus: A

Review of Clinical Trials and Real-world Evidence Across Two Decades. Current diabetes reviews. 19. 10.2174/1573399819666230310150905.

Dutta S, Tarafdar S, Mukhopadhyay P, Bhattacharyya NP, Ghosh S. Plasma Cell-Free DNA to Differentiate Malignant from Benign Thyroid Nodules. J Clin Endocrinol Metab. 2021 Apr 23;106(5):e2262-e2270. doi: 10.1210/clinem/dgab030.

De D, Dutta S, Tarafdar S, Kar SS, Das U, Basu K, Mukhopadhyay P, Ghosh S. Comparison between Sonographic Features and Fine Needle Aspiration Cytology with Histopathology in the Diagnosis of Solitary Thyroid Nodule. Indian J Endocrinol Metab. 2020 Jul-Aug;24(4):349-354.

Majumder, Anirban & Maji, Debasis & Ghosh, Sujoy & Selvan, Chitra & George, Belinda & Kalra, Pramila & Chandrasekaran, Shruti & Priya, Gagan & Sukumar, Suja & Sanyal, Debmalya & Roychaudhuri, Soumyabrata. (2023). IDEA Group Consensus Statement on Medical Management of Adult Gender Incongruent Individuals Seeking Gender Affirmation as Male. Indian Journal of Endocrinology and Metabolism. 27. 3. 10.4103/ijem.ijem_410_22.

Anjana RM, Unnikrishnan R, Deepa M, Ghosh S et al. Metabolic non-communicable disease health report of India: the ICMR-INDIAB national cross-sectional study (ICMR-INDIAB-17). Lancet Diabetes Endocrinol. 2023;11(7):474-489. doi:10.1016/S2213-8587(23)00119-5.

Mukhopadhyay P, Ghosh S. Letter to the Editor From Mukhopadhyay and Ghosh: "The Use of Levothyroxine Absorption Tests in Clinical Practice" [published online ahead of print, 2023 Apr 26]. J Clin Endocrinol Metab. 2023;dgad239. doi:10.1210/clinem/dgad239.

Mukhopadhyay, Pradip & Sanyal, Debmalya & Chatterjee, Dr & Pandit, Kaushik & Ghosh, Sujoy. (2023). SGLT2 Inhibitors: Effect on Myocardial Infarction and Stroke in Type 2 Diabetes. The Journal of clinical endocrinology and metabolism. 108. 10.1210/clinem/dgad113.

Ghosh, Sujoy & Yasmin, Masuma & Sen, Kaushik & Goswami, Soumik & Das, Tapas & Swar, Subir & Maisnam, Indira & Chakraborty, Partha & Paul, Bobby & Mukhopadhyay, Dipta & Mukhopadhyay, Pradip. (2023). Integrated Care for Type 1 Diabetes: The West Bengal Model. *Indian Journal of Endocrinology and Metabolism*. 10.4103/ijem.ijem_124_23.

Gargari P, Mukhopadhyay P, Saboo B, Misra A, Ghosh S. Fabkin and glucose homeostasis. *Diabetes Metab Syndr*. 2022;16(8):102565.

Soumita Mandal, Pradip Mukhopadhyay, Sujoy Ghosh, DHEA on Sexual Function in Sheehan Syndrome: A Randomized Double-Blind Placebo-Controlled Crossover Trial, *The Journal of Clinical Endocrinology & Metabolism*, Volume 107, Issue 8, August 2022, Pages e3395–e3402.

Mukhopadhyay P, Sanyal D, Chatterjee P, Pandit K, Ghosh S. Different Sodium-Glucose Cotransporter-2 Inhibitors: Can They Prevent Death?. *Endocr Pract*. 2022;28(8):795-801.

Mukhopadhyay P, Sanyal D, Chatterjee P, Pandit K, Ghosh S. Authors' Response [published online ahead of print, 2022 Aug 25]. *Endocr Pract*. 2022;S1530-891X(22)00573-0.

Mandal S, Mukhopadhyay P, Ghosh S. Sexual Dysfunction in Sheehan Syndrome. *Endocr Pract*. 2021;27(12):1212-1215. doi:10.1016/j.eprac.2021.07.013

Neogi S, Mukhopaddhyay P, Sarkar N, Dutta P, Basu M, Ghosh S. OVERT & SUBCLINICAL ADRENAL INSUFFICIENCY IN PULMONARY TUBERCULOSIS. *Endocrine Practice*. 2020. EP-2020-0668.

Chakraborty P, Mukhopadhyay P, Bhattacharjee K, Chakraborty A, Chowdhury S, Ghosh S. Periodontal Disease in Type 1 Diabetes Mellitus: Influence of Pubertal Stage and Glycemic Control. *Endocr Pract*. 2021 Aug;27(8):765- 768.

Bhat S, Mukhopadhyay P, Raychaudhury A, Chowdhury S, Ghosh S. Predictors of hypopituitarism due to vasculotoxic snake bite with acute kidney injury. *Pituitary*. 2019 Dec;22(6):594-600.

Ghosh S, Pramanik S, Biswas K, Bhattacharjee K, Sarkar R, Chowdhury S, Mukhopadhyay P. Levothyroxine Absorption Test to Differentiate Pseudomalabsorption from True Malabsorption. *Eur Thyroid J*. 2020 Jan;9(1):19- 24.

Pramanik S, Mukhopadhyay P, Ghosh S. Total T4 rise in pregnancy: a relook? *Thyroid Res*. 2020 Jul 31;13:14.

Ghosh I, Mukhopadhyay P, Das K, Anne M B, Ali Mondal S, Basu M, Nargis T, Pandit K, Chakrabarti P, Ghosh S. Incretins in fibrocalculous pancreatic diabetes: A unique subtype of pancreatogenic diabetes. *J Diabetes*. 2021 Jun;13(6):506-511.

Collier A, Ghosh S, Nowell S, Clark D. INCREASED MORTALITY IN PATIENTS WITH PRIMARY HYPERPARATHYROIDISM: DOES SURGERY MAKE A DIFFERENCE? *Endocr Pract*. 2019 Apr;25(4):335-339.

Ghosh S, Collier A, Clark D, Storey C, Malik I. Social deprivation and primary hyperparathyroidism. *Endocr Pract*. 2010 Nov-Dec;16(6):982-5.

Singha A, Saha S, Bhattacharjee R, Mondal S, Choudhuri S, Biswas D, Das SK, Ghosh S, Mukhopadhyay S, Chowdhury S. DETERIORATION OF OVARIAN FUNCTION AFTER TOTAL ABDOMINAL HYSTERECTOMY WITH PRESERVATION OF OVARIES. *Endocr Pract*. 2016 Dec;22(12):1387-1392.

Banerjee M, Gupta S, Pal R, Ghosh S. Secondary amenorrhoea as primary presentation of idiopathic intracranial hypertension. *Endocr Pract*. 2020 Feb 11.

Ghosh I, Basu M, Anne B, Mukhopadhyay P, Ghosh S. Exocrine Pancreatic Dysfunction in Diabetes: An Observational Study. *Indian J Endocrinol Metab*. 2021 Jan-Feb;25(1):67-68.

Laha S, Saha C, Dutta S, Basu M, Chatterjee R, Ghosh S, Bhattacharyya NP. In silico analysis of altered expression of long non-coding RNA in SARS-CoV-2 infected cells and their possible regulation by STAT1, STAT3 and interferon regulatory factors. *Heliyon*. 2021 Mar;7(3):e06395.

Sarkar J, Nargis T, Tantia O, Ghosh S, Chakrabarti P. Increased Plasma Dipeptidyl Peptidase-4 (DPP4) Activity Is an Obesity-Independent Parameter for Glycemic Deregulation in Type 2 Diabetes Patients. *Front Endocrinol (Lausanne)*. 2019 Jul 25;10:505.

Collier A, Connelly PJ, Hair M, Cameron L, Ghosh S, Waugh N. Mortality risk remains higher in individuals with type 1 diabetes: A population-based cohort study (the Ayrshire diabetes follow-up cohort [ADOC]). *Diabetes Obes Metab*. 2018 Aug;20(8):1965-1971.

Kalra S, Shaikh S, Priya G, et al. Individualizing Time-in-Range Goals in Management of Diabetes Mellitus and Role of Insulin: Clinical Insights From a Multinational Panel [published correction appears in *Diabetes Ther*. 2021 Sep;12(9):2627-2629]. *Diabetes Ther*. 2021;12(2):465-485. doi:10.1007/s13300-020-00973-0

Kalra S, Aydin H, Sahay M, Ghosh S, Ruder S, Tiwaskar M, Kilov G, Kishor K, Nair T, Makkar V, Unnikrishnan AG, Dhanda D, Gupta N, Srinivasan B, Kumar A. Cardiorenal Syndrome in Type 2 Diabetes Mellitus - Rational Use of Sodium-glucose Cotransporter-2 Inhibitors. *Eur Endocrinol*. 2020 Oct;16(2):113-121.

Mandal S, Mukhopadhyay P, Banerjee M, Ghosh S. Clinical, Endocrine, Metabolic Profile, and Bone Health in Sheehan's Syndrome. *Indian J Endocrinol Metab*. 2020 Jul-Aug;24(4):338-342.

Basu M, Pandit K, Banerjee M, Mondal SA, Mukhopadhyay P, Ghosh S. Profile of Auto-antibodies (Disease Related and Other) in Children with Type 1 Diabetes. *Indian J Endocrinol Metab*. 2020 May-Jun;24(3):256-259.

Chattopadhyay B et al., Therapeutic Implications of *Gymnadenia Orchidis* Lindl Root Salep Against Induced Diabetes. *American Journal of PharmTech Research* 2018.

Roy A, Maiti A, Sinha A, Baidya A, Basu AK, Sarkar D, Sanyal D, Biswas D, Maisnam I, Pandit K, Raychaudhuri M, Sengupta N, Chakraborty PP, Mukhopadhyay P, Raychaudhuri P, Sahana PK, Chatterjee P, Bhattacharjee R, Dasgupta R, Saraogi RK, Pal SK, Mukhopadhyay S, Mukhopadhyay S, Goswami S, Chowdhury S, Ghosh S; Working Group of the

Endocrine Society of Bengal.Kidney Disease in Type 2 Diabetes Mellitus and Benefits of Sodium-Glucose Cotransporter 2 Inhibitors: A Consensus Statement. Diabetes Ther. 2020 Dec;11(12):2791-2827.

Pandit K, Mukhopadhyay P, Chatterjee P, Majhi B, Chowdhury S, Ghosh S. Assessment of Insulin Resistance Indices in Individuals with Lean and Obese Metabolic Syndrome Compared to Normal Individuals: A Population Based Study. J Assoc Physicians India. 2020 Oct;68(10):29-33.

Ghosh S, Tiwaskar M, Chawla R, Jaggi S, Asirvatham A, Panikar V.Teneligliptin Real-World Effectiveness Assessment in Patients with Type 2 Diabetes Mellitus in India: A Retrospective Analysis (TREAT-INDIA 2). Diabetes Ther. 2020 Oct;11(10):2257-2268.

Ghosh S, Trivedi S, Sanyal D, Modi KD, Kharb S.Teneligliptin real-world efficacy assessment of type 2 diabetes mellitus patients in India (TREAT-INDIA study). Diabetes Metab Syndr Obes. 2016 Nov 8;9:347-353.

Pramanik S, Bhattacharjee R, Mukhopadhyay P, Ghosh S.Lesson of the month 2: Houssay phenomenon - hypopituitarism leading to remission of diabetes. Clin Med (Lond). 2016 Jun;16(3):294-6.

Collier A, Portelli M, Ghosh S, Nowell S, Clark D.Primary hyperparathyroidism: Increasing prevalence, social deprivation, and surgery. Endocr Res. 2017 Feb;42(1):31-35. doi: 10.3109/07435800.2016.1169545. Epub 2016 May 2.

Singha A, Bhattacharjee R, Ghosh S, Chakrabarti SK, Baidya A, Chowdhury S.Concurrence of Lipoatrophy and Lipohypertrophy in Children With Type 1 Diabetes Using Recombinant Human Insulin: Two Case Reports. Clin Diabetes. 2016 Jan;34(1):51-3.

Agrawal N, Kar SS, Singh A, Samanta S, Mukhopadhyay P, Ghosh S.Diffusion-weighted MRI in Localization of Insulinoma. Indian J Endocrinol Metab. 2020 Mar-Apr;24(2):222-224.

Basu M, Banerjee M, Mukhopadhyay P, Ghosh S.Trends of Seasonality and Age of onset in T1DM: A snapshot from Eastern India. Indian J Endocrinol Metab. 2020 Mar-Apr;24(2):219-220.

Pramanik S, Mukhopadhyay P, Bhattacharjee K, Bhattacharjee R, Mukherjee B, Mondal SA, Bandhopadhyay S, Biswas S, Chowdhury S, Ghosh S. Trimester-Specific Reference Intervals for Thyroid Function Parameters in Indian Pregnant Women during Final Phase of Transition to Iodine Sufficiency. *Indian J Endocrinol Metab.* 2020 Mar-Apr;24(2):160-164.

Majumder A, Chatterjee S, Maji D, Roychaudhuri S, Ghosh S, Selvan C, George B, Kalra P, Maisnam I, Sanyal D. IDEA Group Consensus Statement on Medical Management of Adult Gender Incongruent Individuals Seeking Gender Reaffirmation as Female. *Indian J Endocrinol Metab.* 2020 Mar-Apr;24(2):128-135.

Chawla R, Madhu SV, Makkar BM, Ghosh S, Saboo B, Kalra S; RSSDI-ESI Consensus Group. RSSDI-ESI Clinical Practice Recommendations for the Management of Type 2 Diabetes Mellitus 2020. *Indian J Endocrinol Metab.* 2020 Jan-Feb;24(1):1-122.

Ghosh S, Ghosh R. Glargine-300: An updated literature review on randomized controlled trials and real-world studies. *World J Diabetes.* 2020 Apr 15;11(4):100-114.

Anne B, Ghosh S, Ghosh I, Ray S, Chowdhury S, Dutta D. Prevalence of End-Organ Damage, Beta Cell Reserve, and Exocrine Pancreas Defect in Fibrocalculous Pancreatic Diabetes: An Eastern India Perspective. *Indian J Endocrinol Metab.* 2019 Jul-Aug;23(4):438-445.

Mukhopadhyay P, Ghosh S, Bhattacharjee K, Chowdhury S. Inverse Relationship Between 25 Hydroxy Vitamin D and Parathormone: Are there Two Inflection Points? *Indian J Endocrinol Metab.* 2019 Jul-Aug;23(4):422-427.

Ghosh S, Bose S, Gowda S, Mukhopadhyay P. Biosimilar Insulins - What a Clinician Needs to Know? *Indian J Endocrinol Metab.* 2019 Jul-Aug; 23(4):400-406.

Maity P, Jha AK, Sengupta M, Basu K, Chatterjee U, Ghosh S. Thyroid Bethesda Atypia of Undetermined Significance or Follicular Lesion of Undetermined Significance (AUS/FLUS): A Heterogenous Group. *J Cytol.* 2019 Oct-Dec;36(4):200-204.

Choudhury PS, Mukhopadhyay P, Roychowdhary A, Chowdhury S, Ghosh S. Prevalence and Predictors of "Newonset Diabetes after Transplantation" (NODAT) in Renal Transplant Recipients: An Observational Study. *Indian J Endocrinol Metab.* 2019 May-Jun;23(3):273-277.

Mukhopadhyay P, Ghosh S, Pandit K, Chatterjee P, Majhi B, Chowdhury S. Uric Acid and Its Correlation with Various Metabolic Parameters: A Population-Based Study. *Indian J Endocrinol Metab.* 2019 Jan-Feb;23(1):134-139.

Mukhopadhyay P, Ghosh S, Bhattacharjee K, Pandit K, Mukherjee PS, Chowdhury S. Lean Metabolic Syndrome: A Concept or a Reality? *Indian J Endocrinol Metab.* 2018 May-Jun;22(3):303-307.

Kalra S, Bahendeka S, Sahay R, Ghosh S, Md F, Orabi A, Ramaiya K, Al Shammari S, Shrestha D, Shaikh K, Abhayaratna S, Shrestha PK, Mahalingam A, Askheta M, A Rahim AA, Eliana F, Shrestha HK, Chaudhary S, Ngugi N, Mbanya JC, Aye TT, Latt TS, Akanov ZA, Syed AR, Tandon N, Unnikrishnan AG, Madhu SV, Jawa A, Chowdhury S, Bajaj S, Das AK. Consensus Recommendations on Sulfonylurea and Sulfonylurea Combinations in the Management of Type 2 Diabetes Mellitus - International Task Force. *Indian J Endocrinol Metab.* 2018 JanFeb;22(1):132-157.

Pramanik S, Ghosh S, Mukhopadhyay P, Bhattacharjee R, Mukherjee B, Mondal SA, Ghosh I, Bari R, Chowdhury S. Thyroid Status in Patients with Type 2 Diabetes Attending a Tertiary Care Hospital in Eastern India. *Indian J Endocrinol Metab.* 2018 Jan-Feb;22(1):112-115. Unnikrishnan AG, Ghosh S, Chowdhury S. Endocrinology and the Nudge Hypothesis. *Indian J Endocrinol Metab.* 2017 Nov-Dec;21(6):791-793.

Balhara YPS, Kalra S, Kuppili PP, Kalaiselvan V, Unnikrishnan AG, Tiwaskar M, Sharma PK, Sahay M, Sahay R, Saboo B, Nadkar MY, Muruganathan A, Khandelwal D, Jeloka T, Ghosh S, Dhorepatil B, Dhamija P, Das AK, Bantwal G, Badani R. Indian College of Physicians Position Statement: Addictive Disorders Among Persons with Diabetes Mellitus. *J Assoc Physicians India.* 2017 Oct;65(12):11-12.

Sahay M, Kalra S, Tiwaskar M, Ghosh S, Badani R, Bantwal G, Das AK, Dhorepatil B, Jeloka T, Khandelwal D, Nadkar MY, Saboo B, Sahay R, Unnikrishnan AG, Aggarwal S, Agrawal N, Bajaj S, Baruah MP, Chadha M, Das S, Dhamija P,

Julka S, Mehta P, Shah SN, Sharma B, Muruganathan A. Indian College of Physicians Position Statement on Anemia in Metabolic Syndrome. J Assoc Physicians India. 2017 Jun;65(6):60-73.PMID: 28782315

Kalra S, Unnikrishnan AG, Tiwaskar M, Sahay R, Saboo B, Negalur V, Khandelwal D, Gupta P, Ghosh S, Das AK, Bantwal G, Bajaj S, Agarwal S, Aggarwal R, Agarwal N. Medication Counseling for Thyroxine. Indian J Endocrinol Metab. 2017 Jul-Aug;21(4):630-631.

Kalra S, Agarwal N, Aggarwal R, Agarwal S, Bajaj S, Bantwal G, Das AK, Ghosh S, Gupta P, Khandelwal D, Negalur V, Saboo B, Sahay R, Tiwaskar M, Unnikrishnan AG. Patient-centered Management of Hypothyroidism. Indian J Endocrinol Metab. 2017 May-Jun;21(3):475-477.

Selvan C, Thukral A, Dutta D, Ghosh S, Chowdhury S. Impact of Self-monitoring of Blood Glucose Log Reliability on Long-term Glycemic Outcomes in Children with Type 1 Diabetes. Indian J Endocrinol Metab. 2017 MayJun;21(3):382-386.

Sahay M, Kalra S, Badani R, Bantwal G, Bhoraskar A, Das AK, Dhorepatil B, Ghosh S, Jeloka T, Khandelwal D, Latif ZA, Nadkar M, Pathan MF, Saboo B, Sahay R, Shimjee S, Shrestha D, Siyan A, Talukdar SH, Tiwaskar M,

Unnikrishnan AG. Diabetes and Anemia: International Diabetes Federation (IDF) - Southeast Asian Region (SEAR) position statement. Diabetes Metab Syndr. 2017 Dec;11 Suppl 2:S685-S695.

Dhamija P, Kalra S, Sharma PK, Kalaiselvan V, Muruganathan A, Balhara YPS, Badani R, Bantwal G, Das AK, Dhorepatil B, Ghosh S, Jeloka T, Khandelwal D, Nadkar MY, Patnaik KP, Saboo B, Sahay M, Sahay R, Tiwaskar M, Unnikrishnan AG. Indian College of Physicians (ICP) Position Statement on Pharmacovigilance. J Assoc Physicians India. 2017 Mar;65(3):63-66.

Ghosh S, Unnikrishnan AG, Saboo B, Kesavadev J, Aravind SR, Bajaj S, Rajput R, Seshadri K, Verma N, Gupta A, Makkar BM, Saikia M, Kale S, Damodaran S, Dengra A, Eashwar TKM, Maheshwari A, Pendsey S, Phatak SR, Sharma SK, Singh SK, Ramachandran A, Zargar AH, Joshi SR, Sadikot SM. Evidence-based recommendations for insulin intensification strategies after basal insulin in type 2 diabetes. Diabetes Metab Syndr. 2017 Nov;11 Suppl 1:S507-S521.

Kalra S, Mithal A, Sahay R, John M, Unnikrishnan AG, Saboo B, Ghosh S, Sanyal D, Hirsch LJ, Gupta V, Strauss KW. Indian Injection Technique Study: Population Characteristics and Injection Practices. *Diabetes Ther.* 2017 Jun;8(3):637-657.

Kalra S, Mithal A, Sahay R, John M, Unnikrishnan AG, Saboo B, Ghosh S, Sanyal D, Hirsch LJ, Gupta V, Strauss KW. Indian Injection Technique Study: Injecting Complications, Education, and the Health Care Professional. *Diabetes Ther.* 2017 Jun;8(3):659-672.

Kalra S, Ghosh S, Aamir AH, Ahmed MT, Amin MF, Bajaj S, Baruah MP, Bulugahapitiya U, Das AK, Giri M, Gunatilake S, Mahar SA, Pathan MF, Qureshi NK, Raza SA, Sahay R, Shakya S, Shreshta D, Somasundaram N, Sumanatilleke M, Unnikrishnan AG, Wijesinghe AM. Safe and pragmatic use of sodium-glucose co-transporter 2 inhibitors in type 2 diabetes mellitus: South Asian Federation of Endocrine Societies consensus statement. *Indian J Endocrinol Metab.* 2017 Jan-Feb;21(1):210-230.

Prasanna Kumar KM, Ghosh S, Canovatchel W, Garodia N, Rajashekar S. A review of clinical efficacy and safety of canagliflozin 300 mg in the management of patients with type 2 diabetes mellitus. *Indian J Endocrinol Metab.* 2017 Jan-Feb;21(1):196-209. Bhattacharjee R, Thukral A, Chakraborty PP, Roy A, Goswami S, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Effects of thyroid status on glycated hemoglobin. *Indian J Endocrinol Metab.* 2017 Jan-Feb;21(1):26-30.

Goswami S, Chakraborty PP, Ray S, Ghosh S, Chowdhury S. "Petrified Ears" in Secondary Adrenal Insufficiency. *J Clin Diagn Res.* 2016 Feb;10(2):OD23-4.

Sanyal D, Mukherjee P, Raychaudhuri M, Ghosh S, Mukherjee S, Chowdhury S. Profile of liver enzymes in nonalcoholic fatty liver disease in patients with impaired glucose tolerance and newly detected untreated type 2 diabetes. *Indian J Endocrinol Metab.* 2015 Sep-Oct;19(5):597-601.

Kalra S, Aamir AH, Raza A, Das AK, Azad Khan AK, Shrestha D, Qureshi MF, Md Fariduddin, Pathan MF, Jawad F, Bhattarai J, Tandon N, Somasundaram N, Katulanda P, Sahay R, Dhungel S, Bajaj S, Chowdhury S, Ghosh S, Madhu SV,

Ahmed T, Bulughapitiya U. Place of sulfonylureas in the management of type 2 diabetes mellitus in South Asia: A consensus statement. *Indian J Endocrinol Metab.* 2015 Sep-Oct;19(5):577-96.

Collier A, Watts M, Ghosh S, Rice P, Dewhurst N. Alcohol dependence and driving: knowledge of DVLA regulations. *BJPsych Bull.* 2015 Feb;39(1):35-8.

Bajaj S, Ghosh S, Kalra S. Endocrinology training in India. *Indian J Endocrinol Metab.* 2015 Jul-Aug;19(4):448-50.

Ray S, Howlader S, Chakraborty S, Chakraborty PP, Ghosh S. Hemichorea-hemiballism as the first presentation of type 2 diabetes. *Clin Diabetes.* 2015 Apr;33(2):87-9.

Chakraborty PP, Ray S, Bhattacharjee R, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. First Presentation of Diabetes as Diabetic Ketoacidosis in a Case of Friedreich's Ataxia. *Clin Diabetes.* 2015 Apr;33(2):84-6.

Chakraborty PP, Ray S, Bhattacharjee R, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Diabetes and primary infertility in young males: do not forget cystic fibrosis. *Clin Diabetes.* 2015 Apr;33(2):80-3.

Chakraborty PP, Ray S, Biswas D, Baidya A, Bhattacharjee R, Mukhopadhyay P, Ghosh S, Mukhopadhyay S, Chowdhury S. A comparative study between total contact cast and pressure-relieving ankle foot orthosis in diabetic neuropathic foot ulcers. *J Diabetes Sci Technol.* 2015 Mar;9(2):302-8.

Bhattacharjee R, Chakraborty PP, Ghosh S, Mukhopadhyay P, Mukopadhyay S, Chowdhury S. 'Double bright spot' in T1 weighted non-contrast MRI of pituitary in multiple pituitary hormone deficiency. *Indian J Pediatr.* 2015 May;82(5):485-6.

Basu N, Dutta D, Maisnam I, Basu S, Ghosh S, Chowdhury S, Mukhopadhyay S. Percutaneous ethanol ablation in managing predominantly cystic thyroid nodules: An eastern India perspective. *Indian J Endocrinol Metab.* 2014 Sep;18(5):662-8.

Selvan C, Ghosh S, Mukhopadhyay S. Insulin pump--a review. *J Indian Med Assoc.* 2013 Nov;111(11):746- 50. PMID: 24968483 Review. No abstract available.

Selvan C, Dutta D, Maisnam I, Thukral A, Chakraborty PP, Roy A, Arora R, Dutta S, Baidya A, Ghosh S, Mukhopadhyay S, Chowdhury S. Thyroid associated orbitopathy with ocular myasthenia in primary hypothyroidism: Keep those eyes open. Indian J Endocrinol Metab. 2013 Dec;17(Suppl 3):S657-9.

Chakraborty PP, Ghosh S, Kalra S. Online risk engines and scoring tools in endocrinology. Indian J Endocrinol Metab. 2013 Dec;17(Suppl 3):S601-7.

Selvan C, Ghosh S, Kalra S, Zargar AH. Training in endocrinology: The Indian perspective. Indian J Endocrinol Metab. 2013 Dec;17(Suppl 3):S599-600.

Dutta D, Kumar M, Ghosh S, Mukhopadhyay S, Chowdhury S. Pituitary hormone deficiency due to racemose neurocysticercosis. Lancet Diabetes Endocrinol. 2013 Oct;1(2):e13.

Dutta D, Maisnam I, Shrivastava A, Sinha A, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Serum vitamin-D predicts insulin resistance in individuals with prediabetes. Indian J Med Res. 2013 Dec;138(6):853-60.

Meher D, Dutta D, Ghosh S, Mukhopadhyay P, Chowdhury S, Mukhopadhyay S. Effect of a mixed meal on plasma lipids, insulin resistance and systemic inflammation in non-obese Indian adults with normal glucose tolerance and treatment naïve type-2 diabetes. Diabetes Res Clin Pract. 2014 Apr;104(1):97-102.

Mukhopadhyay S, Sengupta N, Ghosh S. Clinical experience with insulin detemir, biphasic insulin as part and insulin aspart in people with type 2 diabetes: Results from the West Bengal cohort of the A1chieve study. Indian J Endocrinol Metab. 2013 Nov;17(Suppl 2):S579-83.

Majumder P, Nair V, Mukherjee M, Ghosh S, Dey SK. The autosomal recessive inheritance of hereditary gingival fibromatosis. Case Rep Dent. 2013;2013:432864.

Dutta D, Kumar M, Das RN, Datta S, Biswas D, Ghosh S, Mukhopadhyay S, Chowdhury S. Primary hyperparathyroidism masquerading as rickets: diagnostic challenge and treatment outcomes. J Clin Res Pediatr Endocrinol. 2013;5(4):266-9.

Thukral A, Selvan C, Ghosh S, Chowdhury S. Glucometer for kids: what do we need? *J Diabetes Sci Technol*. 2013 Nov 1;7(6):1657-8.

Chaudhary S, Thukral A, Kataria M, Ghosh S, Mukherjee S, Chowdhury S. Comment on: Besser et al. Lessons from the mixed-meal tolerance test: use of 90-minute and fasting C-peptide in pediatric diabetes. *Diabetes Care* 2013;36:195-201. *Diabetes Care*. 2013 Dec;36(12):e221.

Sanyal T, Ghosh S, Chowdhury S, Mukherjee S. Can a faulty injection technique lead to a localized insulin allergy? *Indian J Endocrinol Metab*. 2013 Oct;17(Suppl 1):S358-9.

Datta S, Arora R, Chitra S, Chakraborty P, Baidya A, Biswas D, Ghosh S. Diabetic neuropathic cachexia in a young female. *Indian J Endocrinol Metab*. 2013 Oct;17(Suppl 1):S333-4.

Dutta D, Shivaprasad KS, Kumar M, Biswas D, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Conservative management of severe bilateral emphysematous pyelonephritis: Case series and review of literature. *Indian J Endocrinol Metab*. 2013 Oct;17(Suppl 1):S329-32.

Arora R, Datta S, Thukral A, Chakraborty P, Ghosh S, Mukhopadhyay S, Chowdhury S. A rare case report of 46XY mixed gonadal dysgenesis. *Indian J Endocrinol Metab*. 2013 Oct;17(Suppl 1):S268-70.

Chakrabarti SK, Biswas D, Chaudhury S, Jain R, Kataria M, Ghosh S. Diabetes due to recurrent pancreatitis secondary to hypercalcemia due to primary hyperparathyroidism. *Indian J Endocrinol Metab*. 2013 Oct;17(Suppl 1):S212-4.

Jain R, Biswas D, Chaurasia K, Kumar M, Ghosh S, Mukhopadhyay S, Chowdhury S. Restoration of sinus rhythm following levothyroxine treatment in a case of primary hypothyroidism presenting with atrial fibrillation and pericardial effusion. *Indian J Endocrinol Metab*. 2013 Oct;17(Suppl 1):S170-2.

Shivaprasad KS, Dutta D, Jain R, Kumar M, Maisnam I, Biswas D, Ghosh S, Mukhopadhyay S, Chowdhury S. Huge bilateral ovarian cysts in adulthood as the presenting feature of Van Wyk Grumbach syndrome due to chronic uncontrolled juvenile hypothyroidism. *Indian J Endocrinol Metab*. 2013 Oct;17(Suppl 1):S164-6.

Selvan C, Dutta D, Ghosh S, Mukhopadhyay S, Chowdhury S. Growth hormone deficiency, secondary hypothyroidism, and empty sella following treatment of childhood macroprolactinoma. *Indian J Endocrinol Metab.* 2013 Oct;17(Suppl 1):S132-4.

Kumar M, Dutta D, Shivaprasad KS, Jain R, Sen A, Biswas D, Mukhopadhyay M, Ghosh S, Mukhopadhyay S, Chowdhury S. Diabetes insipidus as a presenting manifestation of Rathke's cleft cyst. *Indian J Endocrinol Metab.* 2013 Oct;17(Suppl 1):S127-9.

Goswami S, Chakraborty PP, Bhattacharjee R, Roy A, Thukral A, Selvan C, Ghosh S, Mukhopadhyay S, Chowdhury S. Precocious puberty: A blessing in disguise! *Indian J Endocrinol Metab.* 2013 Oct;17(Suppl 1):S111-3.

Dutta D, Kumar M, Thukral A, Biswas D, Jain R, Ghosh S, Mukhopadhyay S, Chowdhury S. Medical management of thyroid ectopia: report of three cases. *J Clin Res Pediatr Endocrinol.* 2013 Sep 10;5(3):212-5.

Dutta D, Ghosh S, Pandit K, Mukhopadhyay P, Chowdhury S. Leptin and cancer: Pathogenesis and modulation. *Indian J Endocrinol Metab.* 2012 Dec;16(Suppl 3):S596-600.

Thukral A, Chitra S, Chakraborty PP, Roy A, Goswami S, Bhattacharjee R, Dutta D, Maisnam I, Ghosh S, Mukherjee S, Chowdhury S. De morseir syndrome presenting as ambiguous genitalia. *Indian J Endocrinol Metab.* 2012 Dec;16(Suppl 2):S509-11.

Dutta D, Maisnam I, Ghosh S, Dasgupta R, Mukhopadhyay S, Chowdhury S. Tetany due to hypoparathyroidism as the initial manifestation of autoimmune polyendocrine syndrome type-2: A case report. *Indian J Endocrinol Metab.* 2012 Dec;16(Suppl 2):S495-7.

Chakraborty PP, Dutta D, Biswas K, Sanyal T, Ghosh S, Mukhopadhyay S, Chowdhury S. Pancreatic carcinoma in fibrocalcific pancreatic diabetes: An eastern India perspective. *Indian J Endocrinol Metab.* 2012 Dec;16(Suppl 2):S486-8.

Saraogi R, Mallik R, Ghosh S. Mild acute pancreatitis with vildagliptin use. *Indian J Endocrinol Metab.* 2012 Dec;16(Suppl 2):S480-2.

Sanyal D, Ghosh S, Mukherjee P, Mukherjee S, Chowdhury S. Dyslipidemia, metabolic syndrome, and liver enzymes in impaired glucose tolerance and new onset untreated, type 2 diabetes Indian subjects. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S434-5.

Baidya A, Chowdhury S, Mukhopadhyay S, Ghosh S. Profile of vitamin D in a cohort of physicians and diabetologists in Kolkata. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S416-7.

Baidya A, Chowdhury S, Mukhopadhyay S, Ghosh S. Hypophosphatemic rickets: A case of recurrent pathological fractures. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S402-4.

Selvan C, Thukral A, Chakraborty PP, Bhattacharya R, Roy A, Goswami S, Meher D, Ghosh S, Mukhopadhyay S, Chowdhury S. Refractory rickets due to Fanconi's Syndrome secondary to Wilson's disease. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S399-401.

Dutta D, Das RN, Ghosh S, Mukhopadhyay S, Chowdhury S. Idiopathic hypoparathyroidism and systemic sclerosis: An association likely missed. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S396-8.

Shivaprasad KS, Dutta D, Jain R, Ghosh S, Mukhopadhyay S, Chowdhury S. Familial glucocorticoid deficiency presenting with generalized hyperpigmentation in adolescence. Report of three siblings. Indian J Endocrinol Metab. Dec;16(Suppl 2):S382-4.

Roy A, Bhattacharjee R, Goswami S, Thukral A, Chitra S, Chakraborty PP, Meher D, Ghosh S, Mukhopadhyay S, Chowdhury S. Evolving adrenal insufficiency. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S369-70.

Goswami S, Roy A, Bhattacharjee R, Shivaprasad KS, Chakraborty PP, Selvan C, Thukral A, Biswas K, Ghosh S, Mukhopadhyay S, Chowdhury S. The "Double A" phenotype: Portending Allgrove's syndrome and averting adrenal crisis. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S367-8.

Dutta D, Shivaprasad K, Ghosh S, Mukhopadhyay S, Chowdhury S. Adrenal myelolipoma with keratoconus: A novel clinical association. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S364-6.

Sanyal T, Dutta D, Shivprasad K, Ghosh S, Mukhopadhyay S, Chowdhury S. Gynaecomastia as the initial presentation of thyrotoxicosis. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S352-3.

Srivastav A, Maisnam I, Dutta D, Ghosh S, Mukhopadhyay S, Chowdhury S. Cretinism revisited. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S336-7.

Maisnam I, Dutta D, Jain R, Ghosh S, Mukhopadhyay S, Chowdhury S. Plurihormone secreting pituitary macroadenoma masquerading as thyrotoxicosis: Clinical presentation and diagnostic challenges. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S315-7.

Jain R, Dutta D, Shivaprasad K, Maisnam I, Ghosh S, Mukhopadhyay S, Chowdhury S. Acromegaly presenting as hirsutism: Uncommon sinister aetiology of a common clinical sign. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S297-9.

Dutta D, Roy A, Ghosh S, Mukhopadhyay P, Dasgupta R, Mukhopadhyay S, Chowdhury S. Rathke's cyst with ectopic neurohypophysis presenting as severe short stature with delayed puberty. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S288-90.

Bhattacharjee R, Roy A, Goswami S, Selvan C, Chakraborty PP, Ghosh S, Biswas D, Dasgupta R, Mukhopadhyay S, Chowdhury S. Pituitary gigantism: a case report. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S285-7.

Dutta D, Maisnam I, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Panhypopituitarism with empty sella a sequel of pituitary hyperplasia due to chronic primary hypothyroidism. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S282-4.

Goswami S, Ghosh S. Hyperparathyroidism: cancer and mortality. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S217-20.

Dutta D, Maisnam I, Ghosh S, Mukhopadhyay S, Chowdhury S. Syndrome of extreme insulin resistance (RabsonMendenhall phenotype) with atrial septal defect: clinical presentation and treatment outcomes. J Clin Res Pediatr Endocrinol. 2013;5(1):58-61.

Dutta D, Choudhuri S, Mondal SA, Maisnam I, Reza AH, Ghosh S, Chowdhury S, Bhattacharya B, Mukhopadhyay S. Tumor necrosis factor alpha -238G/A (rs 361525) gene polymorphism predicts progression to type-2 diabetes in an Eastern Indian population with prediabetes. Diabetes Res Clin Pract. 2013 Mar;99(3):e37-41.

Dutta D, Selvan C, Kumar M, Datta S, Das RN, Ghosh S, Mukhopadhyay S, Chowdhury S. Needle aspirate PTH in diagnosis of primary hyperparathyroidism due to intrathyroidal parathyroid cyst. Endocrinol Diabetes Metab Case Rep. 2013;2013:130019.

Dutta D, Ghosh S, Mukhopadhyay S, Chowdhury S. Rapid reduction with cystic transformation of invasive giant prolactinoma following short term low dose cabergoline. Indian J Endocrinol Metab. 2012 Nov;16(6):1048-51.

Chan HW, Ashan B, Jayasekera P, Collier A, Ghosh S. A new class of drug for the management of type 2 diabetes: sodium glucose co-transporter inhibitors: 'glucuretics'. Diabetes Metab Syndr. 2012 Oct-Dec;6(4):224-8.

Dutta D, Mukhopadhyay S, Maisnam I, Ghosh S, Mukhopadhyay P, Chowdhury S. Neuroendocrine carcinoma of the thyroid causing adrenocorticotrophic hormone-dependent Cushing's syndrome. Thyroid. 2013 Jan;23(1):120-3.

Goswami S, Ghosh S, Chowdhury S. Growth hormone insensitivity syndrome: A sensitive approach. Indian J Endocrinol Metab. 2012 Sep;16(5):817-8.

Dutta D, Jain R, Maisnam I, Mishra PK, Ghosh S, Mukhopadhyay S, Chowdhury S. Isolated Cushing's syndrome in early infancy due to left adrenal adenoma: an unusual aetiology. J Clin Res Pediatr Endocrinol. 2012 Sep;4(3):164- 8.

Dutta D, Shivaprasad KS, Ghosh S, Mukhopadhyay S, Chowdhury S. Iatrogenic Cushing's syndrome following short-term intranasal steroid use. J Clin Res Pediatr Endocrinol. 2012 Sep;4(3):157-9.

Thukral A, Ghosh S, Mukherjee S, Chowdhury S. Comment on: Jeffery et al. Age before stage: insulin resistance rises before the onset of puberty: a 9-year longitudinal study (EarlyBird 26). *Diabetes care* 2012;35:536-541.

Diabetes Care. 2012 Sep;35(9):e68; author reply e69. doi: 10.2337/dc12-0615. Collier A, Rennie N, Ghosh S, Davidson F, Williamson S. Growth retardation. *J Paediatr Child Health*. 2012 Jun;48(6):539, 544.

Pandit K, Goswami S, Ghosh S, Mukhopadhyay P, Chowdhury S. Metabolic syndrome in South Asians. *Indian J Endocrinol Metab*. 2012 Jan;16(1):44-55.

Collier A, Ghosh S, Breckenridge A, Perry CG, Freel EM, Davidson DF. A pheochromocytoma occurring in a patient with Parkinson's disease on L-dopa therapy: a diagnostic challenge. *Clin Endocrinol (Oxf)*. 2012 May;76(5):763-4.

Collier A, Dowie A, Ghosh S, Brown PC, Malik I, Boom S. Diabetic foot ulcer: amputation on request? *Diabetes Care*. 2011 Oct;34(10):e159.

Mathew V, Misgar RA, Ghosh S, Mukhopadhyay P, Roychowdhury P, Pandit K, Mukhopadhyay S, Chowdhury S. Myxedema coma: a new look into an old crisis. *J Thyroid Res*. 2011;2011:493462.

Collier A, Ghosh S, McGlynn B, Hollins G. Prostate cancer, androgen deprivation therapy, obesity, the metabolic syndrome, type 2 diabetes, and cardiovascular disease: a review. *Am J Clin Oncol*. 2012 Oct;35(5):504-9.

Malik I, Ghosh S, Nutt C, Macdonald A, Bal AM, Collier A. *Gemella haemolysans* bacteraemia in a patient with solitary liver abscess. *J Microbiol Immunol Infect*. 2010 Oct;43(5):438-41.

Bal AM, Collier A, Dowie A, Ghosh S. Journals and consent forms. Policy needs to be revisited. *BMJ*. 2010 Nov 9;341:c6147.

Grant S, Dearing J, Ghosh S, Collier A, Bal AM. Necrotizing myositis of the deltoid following intramuscular injection of anabolic steroid. *Int J Infect Dis*. 2010 Sep;14(9):e823-4.

Collier A, Ghosh S, Hair M, Malik I, McGarvie J. Comparison of two fixed activities of radioiodine therapy (370 vs. 555 MBq) in patients with Graves' disease. *Hormones (Athens)*. 2009 Oct-Dec;8(4):273-8.

Cassar C, Procter R, Davidson F, Collier A, Malik IA, Ghosh S, Elhadd TA. An unusual case of profound hyponatraemia and bilateral adrenal calcifications. *Ann Clin Biochem*. 2009 Nov;46(Pt 6):523-6.

Elhadd TA, Ghosh S, Teoh WL, Trevethick KA, Hanzely Z, Dunn LT, Malik IA, Collier A. A patient with thyrotropinoma cosecreting growth hormone and follicle-stimulating hormone with low alpha-glycoprotein: a new subentity? *Thyroid*. 2009 Aug;19(8):899-903.

Ghosh S, Bal AM, Malik I, Collier A. Fatal *Morganella morganii* bacteraemia in a diabetic patient with gas gangrene. *J Med Microbiol*. 2009 Jul;58(Pt 7):965-967.

Ghosh S, Ghosh AK, Collier A. A 74-year-old woman with a 1-month history of itching and skin rash. *Ann Saudi Med*. 2009 May-Jun;29(3):234.

Ghosh S, Ghosh S, Kumar Ghosh S. Aortic aneurysm and non-Hodgkin's lymphoma in Marfan syndrome. *Turk J Haematol*. 2009 Mar 5;26(1):31-3.

Sarkar S, Ghosh S, Ghosh SK, Collier A. Role of transcranial Doppler ultrasonography in stroke. *Postgrad Med J*. 2007 Nov;83(985):683-9.

Ghosh S, Howlett M, Boag D, Malik I, Collier A. Interference in free thyroxine immunoassay. *Eur J Intern Med*. 2008 May;19(3):221-2.

Chowdhury S, Ghosh S. Insulin in special situations: surgery. *J Assoc Physicians India*. 2007 Jul;55 Suppl:51- 5. PMID: 17927012 Review.

Ghosh S, Collier A. Inhaled insulins. *Postgrad Med J*. 2007 Mar;83(977):178-81.

Ghosh S, Ghosh AK, Ghosh SK. Patent foramen ovale and atrial septal aneurysm in cryptogenic stroke. *Postgrad Med J*. 2007 Mar;83(977):173-7.

Kumar, S.; Mukherjee,S.; Mukhopadhyay,P.; Pandit,K.; Raychaudhuri,M.; Sengupta,N.; Ghosh,S."Prevalence of diabetes and impaired fasting glucose in a selected population with special reference to influence of family history and anthropometric measurements--the Kolkata policeman study." *J.Assoc.Physicians India* 56 (2008): 841-44.

Sanyal D, Mukherjee P, Raychaudhuri M, Ghosh S, Mukherjee S, Chowdhury S.Profile of liver enzymes in nonalcoholic fatty liver disease in patients withimpaired glucose tolerance and newly detected untreated type 2 diabetes. *Indian J Endocrinol Metab*. 2015 Sep-Oct;19(5):597-601.

Bajaj S, Ghosh S, Kalra S. Endocrinology training in India. *Indian J Endocrinol Metab*. 2015 Jul-Aug;19(4):448-50.

Ray S, Chakraborty PP, Biswas K, Ghosh S, Mukhopadhyay S, Chowdhury S. A case of oncogenic osteomalacia due to occult nasal sinus tumor. *Clin Cases Miner Bone Metab*. 2015 Jan-Apr;12(1):65-8.

Roy A, Dutta D, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Efficacy and safety of low dose oral prednisolone as compared to pulse intravenous methylprednisolone in managing moderate severe Graves' orbitopathy: A randomized controlled trial. *Indian J Endocrinol Metab*. 2015 May-Jun;19(3):351-8.

Chakraborty PP, Ray S, Bhattacharjee R, Ghosh S, Mukhopadhyay P, Mukhopadhyay, Chowdhury S. First Presentation of Diabetes as Diabetic Ketoacidosis in a Caseof Friedreich's Ataxia. *Clin Diabetes*. 2015 Apr;33(2):84-6.

Chakraborty PP, Ray S, Bhattacharjee R, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Diabetes and primary infertility in young males: do not forget cystic fibrosis. *Clin Diabetes*. 2015 Apr;33(2):80-3.

Basu N, Dutta D, Maisnam I, Basu S, Ghosh S, Chowdhury S, Mukhopadhyay S. Percutaneous ethanol ablation in managing predominantly cystic thyroid nodules:An eastern India perspective. *Indian J Endocrinol Metab*. 2014 Sep;18(5):662-8.

Dutta D, Maisnam I, Shrivastava A, Sinha A, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Authors' response. Indian J Med Res. 2014 Jun;139(6):959-60.

Dutta D, Maisnam I, Shrivastava A, Sinha A, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Authors' response. Indian J Med Res. 2014 Jun;139(6):956-7.

Chakraborty PP, Ghosh S, Kalra S. Online risk engines and scoring tools in endocrinology. Indian J Endocrinol Metab. 2013 Dec;17(Suppl 3):S601-7.

Selvan C, Ghosh S, Kalra S, Zargar AH. Training in endocrinology: The Indian perspective. Indian J Endocrinol Metab. 2013 Dec;17(Suppl 3):S599-600.

Meher D, Dutta D, Ghosh S, Mukhopadhyay P, Chowdhury S, Mukhopadhyay S. Effect of a mixed meal on plasma lipids, insulin resistance and systemic inflammation in non-obese Indian adults with normal glucose tolerance and treatment naïve type-2 diabetes. Diabetes Res Clin Pract. 2014 Apr;104(1):97-102.

Mukhopadhyay S, Sengupta N, Ghosh S. Clinical experience with insulin detemir, biphasic insulin aspart and insulin aspart in people with type 2 diabetes: Results from the West Bengal cohort of the A1chieve study. Indian J Endocrinol Metab. 2013 Nov;17(Suppl 2):S579-83.

Dutta D, Kumar M, Das RN, Datta S, Biswas D, Ghosh S, Mukhopadhyay S, Chowdhury S. Primary hyperparathyroidism masquerading as rickets: diagnostic challenge and treatment outcomes. J Clin Res Pediatr Endocrinol. 2013;5(4):266-9.

Thukral A, Selvan C, Ghosh S, Chowdhury S. Glucometer for kids: what do we need? J Diabetes Sci Technol. 2013 Nov 1;7(6):1657-8.

Chaudhary S, Thukral A, Kataria M, Ghosh S, Mukherjee S, Chowdhury S. Comment on: Besser et al. Lessons from the mixed-meal tolerance test: use of 90-minute and fasting C-peptide in pediatric diabetes. Diabetes Care 2013;36:195-201. Diabetes Care. 2013 Dec;36(12):e221.

Sanyal T, Ghosh S, Chowdhury S, Mukherjee S. Can a faulty injection technique lead to a localized insulin allergy? Indian J Endocrinol Metab. 2013 Oct;17(Suppl1):S358-9.

Dutta D, Shivaprasad KS, Kumar M, Biswas D, Ghosh S, Mukhopadhyay P, Mukhopadhyay S, Chowdhury S. Conservative management of severe bilateralempysematous pyelonephritis: Case series and review of literature. Indian J Endocrinol Metab. 2013 Oct;17(Suppl 1):S329-32.

Chakrabarti SK, Biswas D, Chaudhury S, Jain R, Kataria M, Ghosh S. Diabetes due to recurrent pancreatitis secondary to hypercalcemia due to primary hyperparathyroidism. Indian J Endocrinol Metab. 2013 Oct;17(Suppl 1):S212-4.

Jain R, Biswas D, Chaurasia K, Kumar M, Ghosh S, Mukhopadhyay S, Chowdhury S. Restoration of sinus rhythm following levothyroxine treatment in a case of primary hypothyroidism presenting with atrial fibrillation and pericardial effusion. Indian J Endocrinol Metab. 2013 Oct;17(Suppl 1):S170-2.

Shivaprasad KS, Dutta D, Jain R, Kumar M, Maisnam I, Biswas D, Ghosh S, Mukhopadhyay S, Chowdhury S. Huge bilateral ovarian cysts in adulthood as the presenting feature of Van Wyk Grumbach syndrome due to chronic uncontrolled juvenile hypothyroidism. Indian J Endocrinol Metab. 2013 Oct;17(Suppl 1):S164-6.

Kumar M, Dutta D, Shivaprasad KS, Jain R, Sen A, Biswas D, Mukhopadhyay M, Ghosh S, Mukhopadhyay S, Chowdhury S. Diabetes insipidus as a presenting manifestation of Rathke's cleft cyst. Indian J Endocrinol Metab. 2013 Oct;17(Suppl 1):S127-9.

Dutta D, Kumar M, Thukral A, Biswas D, Jain R, Ghosh S, Mukhopadhyay S, Chowdhury S. Medical management of thyroid ectopia: report of three cases. J Clin Res Pediatr Endocrinol. 2013 Sep 10;5(3):212-5.

Dutta D, Ghosh S, Pandit K, Mukhopadhyay P, Chowdhury S. Leptin and cancer: Pathogenesis and modulation. Indian J Endocrinol Metab. 2012 Dec;16(Suppl3):S596-600.

Thukral A, Chitra S, Chakraborty PP, Roy A, Goswami S, Bhattacharjee R, Dutta D, Maisnam I, Ghosh S, Mukherjee S, Chowdhury S. De morseir syndrome presenting as ambiguous genitalia. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S509-11.

Dutta D, Maisnam I, Ghosh S, Dasgupta R, Mukhopadhyay S, Chowdhury S. Tetany due to hypoparathyroidism as the initial manifestation of autoimmune polyendocrine syndrome type-2: A case report. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S495-7.

Chakraborty PP, Dutta D, Biswas K, Sanyal T, Ghosh S, Mukhopadhyay S, Chowdhury S. Pancreatic carcinoma in fibrocalcific pancreatic diabetes: Aneastern India perspective. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S486-8.

Baidya A, Chowdhury S, Mukhopadhyay S, Ghosh S. Profile of vitamin D in a cohort of physicians and diabetologists in Kolkata. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S416-7.

Baidya A, Chowdhury S, Mukhopadhyay S, Ghosh S. Hypophosphatemic rickets: A case of recurrent pathological fractures. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S402-4.

Selvan C, Thukral A, Chakraborty PP, Bhattacharya R, Roy A, Goswami S, Meher D, Ghosh S, Mukhopadhyay S, Chowdhury S. Refractory rickets due to Fanconi's Syndrome secondary to Wilson's disease. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S399-401.

Goswami S, Roy A, Bhattacharjee R, Shivaprasad KS, Chakraborty PP, Selvan C, Thukral A, Biswas K, Ghosh S, Mukhopadhyay S, Chowdhury S. The "Double A" phenotype: Portending Allgrove's syndrome and averting adrenal crisis. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S367-8.

Srivastav A, Maisnam I, Dutta D, Ghosh S, Mukhopadhyay S, Chowdhury S. Cretinism revisited. Indian J Endocrinol Metab. 2012 Dec;16(Suppl 2):S336-7.

Dutta D, Roy A, Ghosh S, Mukhopadhyay P, Dasgupta R, Mukhopadhyay S, Chowdhury S. Rathke's cyst with ectopic neurohypophysis presenting as severe short stature with delayed puberty. *Indian J Endocrinol Metab.* 2012 Dec;16(Suppl 2):S288-90.

Goswami S, Ghosh S. Hyperparathyroidism: cancer and mortality. *Indian J Endocrinol Metab.* 2012 Dec;16(Suppl 2):S217-20.

Dutta D, Maisnam I, Ghosh S, Mukhopadhyay S, Chowdhury S. Syndrome of extreme insulin resistance (Rabson-Mendenhall phenotype) with atrial septal defect: clinical presentation and treatment outcomes. *J Clin Res Pediatr Endocrinol.* 2013;5(1):58-61.

Dutta D, Choudhuri S, Mondal SA, Maisnam I, Reza AH, Ghosh S, Chowdhury S, Bhattacharya B, Mukhopadhyay S. Tumor necrosis factor alpha -238G/A (rs 361525) gene polymorphism predicts progression to type-2 diabetes in an Eastern Indian population with prediabetes. *Diabetes Res Clin Pract.* 2013 Mar;99(3):e37-41.

Dutta D, Ghosh S, Mukhopadhyay S, Chowdhury S. Rapid reduction with cystic transformation of invasive giant prolactinoma following short term low dose cabergoline. *Indian J Endocrinol Metab.* 2012 Nov;16(6):1048-51.

Pandit K, Goswami S, Ghosh S, Mukhopadhyay P, Chowdhury S. Metabolic syndrome in South Asians. *Indian J Endocrinol Metab.* 2012 Jan;16(1):44-55.

Pandit K, Mukhopadhyay P, Ghosh S, Chowdhury S. Natriuretic peptides: Diagnostic and therapeutic use. *Indian J Endocrinol Metab.* 2011 Oct;15 Suppl 4:S345-53.

Collier A, Ghosh S, Breckenridge A, Perry CG, Freel EM, Davidson DF. A pheochromocytoma occurring in a patient with Parkinson's disease on L-dopa therapy: a diagnostic challenge. *Clin Endocrinol (Oxf).* 2012 May;76(5):763-4.

Collier A, Ghosh S, McGlynn B, Hollins G. Prostate cancer, androgen deprivation therapy, obesity, the metabolic syndrome, type 2 diabetes, and cardiovascular disease: a review. *Am J Clin Oncol.* 2012 Oct;35(5):504-9. Review. PubMed PMID: 21297430.

- Malik I, Ghosh S, Nutt C, Macdonald A, Bal AM, Collier A. Gemella haemolysans bacteraemia in a patient with solitary liver abscess. J Microbiol Immunol Infect. 2010 Oct;43(5):438-41.
- Ghosh S, Collier A, Clark D, Storey C, Malik I. Social deprivation and primary hyperparathyroidism. Endocr Pract. 2010 Nov-Dec;16(6):982-5.
- Collier A, Ghosh S, Hair M, Malik I, McGarvie J. Comparison of two fixed activities of radioiodine therapy (370 vs. 555 MBq) in patients with Graves' disease. Hormones (Athens). 2009 Oct-Dec;8(4):273-8.
- Cassar C, Procter R, Davidson F, Collier A, Malik IA, Ghosh S, Elhadd TA. An unusual case of profound hyponatraemia and bilateral adrenal calcifications. Ann Clin Biochem. 2009 Nov;46(Pt 6):523-6.
- Ghosh S, Bal AM, Malik I, Collier A. Fatal Morganella morganii bacteraemia in a diabetic patient with gas gangrene. J Med Microbiol. 2009 Jul;58(Pt 7):965-7.
- Ghosh S, Ghosh S, Kumar Ghosh S. Aortic aneurysm and non-Hodgkin's lymphoma in Marfan syndrome. Turk J Haematol. 2009 Mar 5;26(1):31-3.
- Ghosh S, Howlett M, Boag D, Malik I, Collier A. Interference in free thyroxine immunoassay. Eur J Intern Med. 2008 May;19(3):221-2.
- Sarkar S, Ghosh S, Ghosh SK, Collier A. Role of transcranial Doppler ultrasonography in stroke. Postgrad Med J. 2007 Nov;83(985):683-9. Review.
- Chowdhury S, Ghosh S. Insulin in special situations: surgery. J Assoc Physicians India. 2007 Jul;55 Suppl:51-5. Review.
- Ghosh S, Ghosh AK, Ghosh SK. Patent foramen ovale and atrial septal aneurysm in cryptogenic stroke. Postgrad Med J. 2007 Mar;83(977):173-7. Review.
- Datta C, Bhattacharyya S, Ghosh A, Ghosh S. Dedifferentiated papillary carcinoma of thyroid in an adolescent girl-- a case report. Indian journal of pathology & microbiology 2005, 48(4):496-497.

ADVOCACY & INFRASTRUCTURE DEVELOPMENT

Type 1 Diabetes: The National Programme for prevention & Control of Cancer, Diabetes, Cardiovascular Diseases & stroke (NPCDCS) in India formulated by the government of India and implemented by all state governments are implementing measures to tackle non-communicable disease including Diabetes. Unfortunately, the government did not include any plans for those suffering from Type 1 diabetes. Buoyed on the success of establishing a state of the art paediatric diabetes clinic (in my University Hospital, which now caters to more than 400 children with type 1 diabetes: all investigations, insulin, glucometers, strips, consultations, free of cost), I embarked upon launching a state wide programme for type 1 diabetes. After a long battle I have finally got the go ahead, including funding for setting up one diabetes clinic for children in every district general hospital of the state of West Bengal. The funding is being provided partly by state and partly by central government (as a project in innovation, project in partnership) for the next 3 years, with the promise that if this model works, then it would get integrated into the NPCDCS programme, wherein one paediatric diabetes clinic would be set up in each district to provide state of the art, free treatment for children with diabetes. This has been a great achievement for me and my team, in make the government atleast agree upon to start the pilot project.

Institute of Metabolic & Endocrine Diseases: The Government of West Bengal has given funding and approval of a 12 storied self-sufficient Institute including facilities for training and service delivery for not only diabetes and endocrinology, but also paediatric endocrinology, gynaecological endocrinology and nuclear endocrinology and endocrine surgery. It will take 3 years for the institute to be fully functional. Molecular Biology, Cell culture and Clinical Endocrinology Lab: Have already set up these states of art facilities from CSR (corporate social responsibility) funding. Currently providing facilities to many PhD students and post-doctoral fellows to pursue their research endeavours in endocrinology.

Population Laboratory and Implementation Research:

Have been instrumental in setting up a community based care set up in the district of Birbhum, West Bengal wherein I have helped set up 60 metabolic ports. Each of the ports has multipurpose metabolic health care workers, equipped with

questionnaires, glucometer, blood pressure machine, weighing machine and measuring tape. These workers have trained to collect basic information on metabolic health of the population, provide basic education related to metabolic health and give education related to prevention of disease and management of metabolic disorders. We have already managed to cover a population of 1,27,000. This project has recently received approval from the government for adoption as a pilot project, which if successful will be the basis of delivery of care for Non-communicable diseases in India, at community level.

Teaching & Mentoring:

As a faculty in the department of Endocrinology, I am actively involved in the teaching, training and mentoring of the Post-doctoral fellows, post-graduate students and also paramedical and support staff involved in the diabetes care. Guide and co-guide of dissertations of post-doctoral post-graduate and PhD students.