

18TH INTERNATIONAL DIABETES EPIDEMIOLOGY SYMPOSIUM PROGRAM

BANGKOK, THAILAND

APRIL 2 - 6, 2025



About IDEG

The International Diabetes Epidemiology Group (IDEG) was founded in 1979 in response to the recognition of the growing impact of the diabetes epidemic. The mission of IDEG is to forge collaboration and exchange ideas and data on the epidemiology of diabetes to better understand and explore its causes and consequences. To this end, the primary activity of the IDEG is a symposium held every two to three years as a satellite to the World Diabetes Congress (WDC) held by the International Diabetes Federation (IDF). This symposium serves as a platform to foster collaboration among researchers and practitioners in diabetes epidemiology worldwide.

In April 2025, IDEG is hosting its 18th Symposium in Bangkok, Thailand. A one-day epidemiology training course targeted at trainees and young researchers is taking place prior to the symposium.

Meet the IDEG President

Dr. Lorraine Lipscombe, MDCM,
MSc, FRCPC

Dr. Lorraine Lipscombe is a Professor in the Department of Medicine and the Dalla Lana School of Public Health at the University of Toronto, as well as a clinician scientist and endocrinologist at Women's College Hospital. Dr. Lipscombe leads an internationally recognized research program in diabetes epidemiology and health services, with a particular focus on health services for the management and prevention of diabetes in women. Dr. Lipscombe is also the Executive Director of the University of Toronto's Novo Nordisk Network for Healthy Populations, which is a cross-disciplinary research network that aims to address the burden of diabetes and other chronic diseases with a focus on the Ontario Region of Peel.



Dr. Lipscombe received her MD from McGill University, followed by training in Internal Medicine and Endocrinology and a Master's in Clinical Epidemiology, at University of Toronto. She has published over 150 peer-reviewed articles, and has held numerous grants and career awards from the Canadian Institutes of Health Research (CIHR) and Diabetes Canada, where she currently serves on the Board of Directors.

Featured Speakers & Honorees

Keynote Speaker

Dr. Adam Hulman, MSc, PhD

Adam Hulman is a Senior Researcher leading the Machine Learning & Clinical Prediction Lab at Steno Diabetes Center Aarhus, Aarhus University Hospital, Denmark. He is also an Associate Professor at the Department of Public Health at Aarhus University. He has a PhD and 15 years of experience in working with diabetes epidemiology. His team's overarching goal is to turn health data into clinical insights and applications by using advanced statistical and machine learning methods. More specifically, the group works on the development and application of deep learning methods to be able to integrate clinical data of different types (tabular, images, time series, voice) in risk prediction of diabetic complications. He is committed to hearing the users' voices about AI and to building bridges between diabetes researchers, clinicians and the data science community. Adam is an active academic citizen: steering committee member of the European Diabetes Epidemiology Group, member of the EASD Guidelines Oversight Committee, and chairman of the Danish Data Science Academy's Cross-academy Collaboration Committee. He is associate editor at Diabetologia and PLOS Digital Health. He received the Danish Diabetes & Endocrine Academy Education & Networking Award for his outstanding engagement in diabetes research education and training of early-career researchers in 2024.



Award Recipients

Distinguished Professor David Simmons MA, MBBS, FRACP, FRCP, MD (Cantab)

Peter Bennett Award

Distinguished Professor Simmons, is Chief Medical Officer for Diabetes Australia, Professor of Medicine at Western Sydney University, District Advisor on Diabetes for the South Western Sydney Local Health District and previous Director of the Macarthur Diabetes Endocrinology and Metabolism Service in Sydney, Australia. Before returning to Australia in 2014, Professor Simmons was the Clinical lead for the Diabetes service at Addenbrookes Hospital, Cambridge UK. With over 500 refereed publications, he has won several national and international awards for his work in diabetes epidemiology, diabetes in pregnancy and diabetes service development including the American Diabetes Association 2020 Norbert Freinkel Award and 2022 Diabetes in Pregnancy Study Group Pederson Awardee. He is the immediate past president of the Australasian Diabetes in Pregnancy Society (ADIPS). He was the trial coordinator for the DALI lifestyle RCT to prevent GDM and is the Chief Investigator for the TOBOGM study, the first large RCT of diagnosing and treating early gestational diabetes mellitus. He remains a practising endocrinologist holding weekly diabetes in pregnancy clinics.



Dr. Calvin Ke, MD, PhD, FRCPC

Harry Keen Memorial Award

Dr. Calvin Ke is an Assistant Professor, clinician scientist, and endocrinologist at the University of Toronto, Toronto General Hospital, and ICES. He directs the Epidemiologic and Applied Research Lab in Young-Onset Diabetes (EARLY Diabetes), and led the Health Services and Quality of Care Working Group of the Novo Nordisk Network for Healthy Populations, University of Toronto. He completed his PhD in clinical epidemiology as a Global Scholar at the University of Toronto in 2021. His research program focuses on the management and outcomes of type 2 diabetes, with a special focus on young-onset type 2 diabetes and on ethnically diverse populations. He has conducted diabetes research internationally across Canada, China, India, and Guyana. His research publications have appeared in high-impact, peer-reviewed journals such as JAMA, Annals of Internal Medicine, Diabetes Care, The Lancet Global Health, and Nature Reviews Endocrinology. He previously served as an Honorary Visiting Scholar at The Chinese University of Hong Kong. He currently serves as Associate Editor of Primary Care Diabetes, Section Editor of Current Diabetes Reports, National Consultant Editor of the Canadian Journal of Diabetes, and as a member of the International Diabetes Federation Atlas Committee and the NCD Risk Factor Collaboration.



Guest Speakers

Professor Wichai Aekplakorn, MD, PhD

Wichai Aekplakorn is a professor in the Department of Community Medicine, Faculty of Medicine, Ramathibodi Hospital, Mahidol University. He graduated with his medical degree from the Siriraj Hospital, Mahidol University, and his PhD (Epidemiology) from the School of Public Health, University of North Carolina, at Chapel Hill.

His research interests and publications are on cardiovascular risk factors epidemiology, e.g., diabetes, obesity, and metabolic syndrome. He is the principal investigator of the 4 - 6th Thai National Health Examination Survey.



Dr. Shivani Misra, MBBS, BMedSci, MSc, FRCP (London), PhD

Dr Misra is a Consultant Physician in Diabetes & Metabolic Medicine and a Wellcome Trust Clinician Fellow at Imperial College London. Her research and clinical expertise centres on 1) investigating the genetics, epidemiology, classification and treatment of early-onset 2 diabetes in childhood and early-adulthood and 2) investigating type 2 diabetes heterogeneity & precision medicine efforts in type 2 diabetes focussing on population diversity & health equity.



In 2023 Dr Misra was awarded the Precision Medicine in Diabetes Prize from the EFSD and Novo Nordisk Foundation and she currently serves as Co-Chair of the Precision Medicine in Diabetes Consortium.

Professor Jonathan Valabhji,

OBE, MD, FRCP

Professor Jonathan Valabhji, OBE, MD, FRCP is Clinical Chair in Medicine at Imperial College London, and Honorary Consultant Diabetologist at Chelsea & Westminster Hospital NHS Foundation Trust. He is currently National Clinical Lead for Multiple Long-Term Conditions at NHS England, and from 2013 until 2023, was National Clinical Director for Diabetes and Obesity in England. He established the NHS England Diabetes and Obesity Programmes, with a broad portfolio of national work streams including lifestyle interventions, clinical care, and technological support for diabetes self-management.



As National Clinical Director, he led rapid translation of high-quality diabetes research into national policy and practice and established models for evaluation to assess translational impact. He successfully made the case for, and led implementation of, the NHS Diabetes Prevention Programme, with around 1.7 million people with prediabetes now referred in, and published evidence demonstrating reduced type 2 diabetes incidence in programme participants and at English population level associated with programme implementation. Similarly, he made the case for, and led implementation of, the NHS Type 2 Diabetes Path to Remission Programme, with around 35,000 people now referred in and with published remission rates of around 30%.

He qualified in 1990 from St Bartholomew's Hospital Medical College, London. In 2019 he was awarded OBE in the Queen's New Year Honours List for services to diabetes and obesity care.

IDEG Program

Wednesday, April 2, 2025	
16:00 – 17:00	Trainee Workshop Registration Location: DoubleTree by Hilton Hotel Sukhumvit Bangkok , 7th Floor
17:00 – 19:00	Trainee Welcome Cocktail Reception Location: DoubleTree by Hilton Hotel Sukhumvit Bangkok , 7th Floor

Thursday, April 3, 2025	
8:30 – 17:15	Trainee Workshop* Location: Bangkok International Trade & Exhibition Centre, Silk 3 & 4 <i>*Please see the IDEG Trainee Workshop Guide for a detailed agenda</i>
16:00 – 18:00	General Registration Location: DoubleTree by Hilton Hotel Sukhumvit Bangkok , 7th Floor
17:30 – 19:30	Welcome Reception for all Symposium Delegates Location: DoubleTree by Hilton Hotel Sukhumvit Bangkok , 7th Floor

SYMPOSIUM DAY 1 Friday, April 4, 2025 Location: Bangkok International Trade & Exhibition Centre, Silk 1 & 2	
08:30 – 09:00	Opening Remarks and Welcome IDEG President Dr. Lorraine Lipscombe
09:00 – 10:00	Oral Abstracts Session 1 – Updated Trends in Diabetes Epidemiology, Chaired by Dr. Sarah Wild <ol style="list-style-type: none"> <i>Prevalence of diabetes and intermediate hyperglycaemia: confirmation of decreasing trends in Mauritius, Jaakko Tuomilehto</i> <i>Trends in diabetes-related mortality in Peru, pooled analysis of 52,302 subjects between 2017-2022, Milagros Quispe Mendoza</i> <i>Trends in diabetes complications in the Danish diabetes population: a nationwide register-based study (1996–2022), Bendix Carstensen</i>
10:00 – 10:30	Morning Tea

10:30 – 11:30	<p>Keynote - Dr. Adam Hulman <i>AI in Diabetes Research and Care: How Far Have We Come, and What's Next?</i>, Chaired by Gemma Postill</p>
11:30 – 12:30	<p>Oral Abstracts Session 2 - The Role of Social and Environmental Determinants of Health in Diabetes, Chaired by Dr. Baiju Shah</p> <ol style="list-style-type: none"> 1. <i>Social determinants of health and progression to cardio-renal-metabolic multimorbidity in people with prediabetes</i>, Rong Hua 2. <i>The association of socioeconomic status with the prevalence of 10 chronic diseases: a national whole-of-population study</i>, Jonathan Shaw 3. <i>Associations of early life famine exposure with T2D, hypertension and cardiovascular events among Chinese immigrants</i>, Anne Cao 4. <i>The burden of type 2 diabetes mellitus due air pollution in Brazil: a 1990-2021 analysis of the global burden of disease</i>, Haissa Cardoso
12:30 – 13:30	<p>Lunch and Posters, Silk 3 <i>Please see pg 15 for the poster schedule and details.</i></p>
13:30 – 14:30	<p>Guest Lecture - Professor Wichai Aekplakorn <i>Diabetes in Thailand: Situation and Challenges</i>, Chaired by Dr. Petch Rawdaree</p>
14:30 – 15:30	<p>Mini Oral Presentations Session 1, Chaired by Aimen Zehra</p> <ol style="list-style-type: none"> 1. <i>Long-term risk of cardiovascular disease in Chinese women with polycystic ovary syndrome</i>, Noel Yat Hey Ng 2. <i>Use of HbA1c or fasting glucose to rule out early and late gestational diabetes mellitus</i>, David Simmons 3. <i>The role of type 2 diabetes in shaping multimorbidity progression: evidence from the UK Biobank cohort</i>, Jie Zhang 4. <i>Risk of renal disease progression in young adults with type 2 diabetes</i>, Kanchana Perera 5. <i>Development and validation of a Jordan-specific risk score for type 2 diabetes mellitus</i>, Laith J. Abu-Raddad 6. <i>Socioeconomic disparities in diabetes prevalence among the population in Ireland</i>, Gintare Valentelyte

15:30 – 16:00	Afternoon Tea and Posters, Silk 3 <i>Please see pg 15 for the poster schedule and details.</i>
16:00 – 17:00	<p>Oral Abstracts Session 3 - Epidemiology of Diabetes Outcomes and Mortality, Chaired by Professor Jonathan Shaw</p> <ol style="list-style-type: none"> 1. <i>Trends in excess mortality and causes of death among persons with diabetes in Finland, Martti Arffman</i> 2. <i>Decrease in heart failure mortality lags behind atherosclerotic cardiovascular disease mortality in people with diabetes, Dianna Magliano</i> 3. <i>Longitudinal trajectories of glycemia among participants with long-duration type 1 diabetes, Barbara H. Braffett</i>
17:00 – 17:05	<p>Day 1 Closing Remarks IDEG President Dr. Lorraine Lipscombe</p>

SYMPOSIUM DAY 2
Saturday, April 5, 2025

Location: Bangkok International Trade & Exhibition Centre, Silk 1 & 2

08:30 – 08:45	Welcome and Housekeeping IDEG President Dr. Lorraine Lipscombe
08:45 – 09:45	Guest Lecture - Dr Shivani Misra <i>Precision Medicine for Type 2 Diabetes – Reality or Hype?</i> , Chaired by Professor Ayesha Motala
09:45 – 10:30	Oral Abstracts Session 4 - Updates on Risk and Prevention of Diabetes, Chaired by Dr. Lee-Ling Lim <ol style="list-style-type: none"> 1. <i>A comparison of anthropometric indicators in predicting the incidence of diabetes and intermediate hyperglycaemia</i>, Julia Lybeck 2. <i>Impact of the two-year lifestyle intervention trial on health improvement and diabetes incidence reduction in Vietnamese adults: D-start Program</i>, Dinh Tung Do 3. <i>Predicting future risk of type 2 diabetes among younger and older adults in Ontario, Canada</i>, Ghazal S Fazli
10:30 – 11:00	Morning Tea
11:00 – 11:45	Peter Bennett Award , Presented to Distinguished Professor David Simmons <i>When Does it All Start? Lessons from Diabetes Studies Around the World</i> , Chaired by Dr. Lorraine Lipscombe
11:45 – 12:30	Oral Abstracts Session 5 – Novel Associations in Diabetes Epidemiology, Chaired by Dr. Gillian Booth <ol style="list-style-type: none"> 1. <i>Association between diabetes and major types of anaemia: a population-based cohort study</i>, Danyang Wang 2. <i>Joint trajectories of remnant cholesterol and triglyceride-glucose index and their impact on end-stage renal disease risk in type 2 diabetes</i>, Dahai Yu 3. <i>Age and sex differences in the association between diabetes and dementia: a prospective cohort study</i>, Alice Gibson
12:30 – 13:30	Lunch and Posters, Silk 3 <i>Please see pg 15 for the poster schedule and details.</i>

<p>13:30 – 14:15</p>	<p>Mini Oral Presentations Session 2, Chaired by Dr. Dominika Bhatia</p> <ol style="list-style-type: none"> 1. <i>Type 2 diabetes with comorbid insomnia have increased glycemic burden and variability</i>, Chun Kwan O 2. <i>Sleep, lipid metabolism and the risk of type 2 diabetes mellitus in Chinese population: a mediation analysis</i>, Wen Li 3. <i>Trends in diabetes mellitus mortality in Colombia and Spain (1983–2022): an age-period-cohort analysis</i>, Juan Pablo Pérez Bedoya 4. <i>The cost-effectiveness of Continuous Glucose Monitoring (CGM) for adults with type 1 diabetes in Ireland</i>, Gintare Valentelyte 5. <i>Prevalence and treatment gaps of hyperlipidaemia among patients with type 2 diabetes in Malaysia</i>, Anis Syazwani Abd Raof 6. <i>Trends in use of insulin and long-acting insulin analogues in individuals with diabetes in Hong Kong, 2002-2019</i>, Jiazhou Yu
<p>14:15 – 15:00</p>	<p>Harry Keen Memorial Award, Presented to Dr. Calvin Ke <i>Epidemiology and Management of Young-Onset Type 2 Diabetes</i>, Chaired by Dr. Lorraine Lipscombe</p>
<p>15:00 – 15:15</p>	<p>Afternoon Tea and Posters, Silk 3 <i>Please see pg 15 for the poster schedule and details.</i></p>
<p>15:15 – 16:00</p>	<p>Oral Abstracts Session 6 – Diabetes in Pregnancy, Chaired by Professor Ronald Ma</p> <ol style="list-style-type: none"> 1. <i>Gestational diabetes and parental type 2 diabetes as risk indicators for type 1 diabetes in offspring: a systematic review and meta-analysis</i>, Laura Rendon 2. <i>Mahalanobis distance of BCAA and microbiota biomarkers improves the post-gestational diabetes risk classification</i>, Jose L. Flores-Guerrero 3. <i>Association of maternal glycemia during pregnancy with offspring metabolism and adiposity: an 18-year birth cohort study</i>, Yuzhi Deng

16:00 – 16:05	Day 2 Closing Remarks IDEG President Dr. Lorraine Lipscombe
17:00 – 22:00	Optional IDEG Social Dinner and Sunset Boat Cruise (Pickup from DoubleTree by Hilton Hotel Sukhumvit Bangkok , at 17:20)

SYMPOSIUM DAY 3 Sunday, April 6, 2025	
Location: Bangkok International Trade & Exhibition Centre, Silk 1 & 2	
09:00 – 09:15	Welcome and Housekeeping IDEG President Dr. Lorraine Lipscombe
09:15 – 10:00	3-Minute Thesis – Presentations from Trainees, Chaired by Dr. Ghazal Fazli
10:00 – 11:00	Guest Lecture - Professor Jonathan Valabhji <i>Type 2 Diabetes Prevention and Remission: From Evidence to Implementation at Scale</i> , Chaired by Dr. Kaberi Dasgupta
11:00 – 11:15	Morning Tea
11:15 – 12:30	<p>IDEG-WCPD Symposium – Update of the Major T2D Prevention Trials</p> <p>Panel Chaired by Dr. Pablo Aschner, Javeriana University, Bogotá, Colombia, Board Member of the WCPD Foundation, Madrid, Spain</p> <p>IDEG and the World Community for Prevention of Diabetes Foundation (WCPD) are pleased to co-present this panel:</p> <ul style="list-style-type: none"> • Welcome & Introduction to Panel: Dr. Jaakko Tuomilehto and Dr. Rafael Gabriel • The Finnish Diabetes Prevention Study, Dr. Jaakko Tuomilehto, Helsinki, Finland • The Indian Diabetes Prevention Program, Dr. Ambady Ramachandran, Chennai, India. • Implementation of Diabetes Prevention Programs in Real Life, Dr. Rafael Gabriel Sánchez, Emeritus Professor, National School of Public Health. Madrid, Spain • Discussion
12:30 – 12:45	Closing Remarks, Awards and Lunch IDEG President Dr. Lorraine Lipscombe
12:45 – 13:30	IDEG AGM

Poster Schedule

Friday, April 4, 2025 12:30-13:30 & 15:30-16:00 Location: Bangkok International Trade & Exhibition Centre, Silk 3	
Title and Presenter	Poster Number
<i>White blood cell count increased the risk of incident type 2 diabetes mellitus among rural Chinese adults, Bo Wu</i>	1
<i>Methylenetetrahydrofolate reductase (MTHFR) A1298C, C677T gene polymorphisms and Erectile Dysfunction in type 2 diabetes, Hauwa Bako</i>	3
<i>Codesigning a pre-consultation assessment tool to enable targeted consultations for personalized diabetes management, Sumathy Ravi</i>	5
<i>The association between glycaemic variability and markers of Inflammation and Mitochondrial dysfunction in people with diabetes and chronic kidney disease, James Ling</i>	7
<i>The growing and unequal burden of high fasting plasma glucose in South America, 1990–2021: Global Burden of Disease, Rita Mattiello</i>	13
<i>Kidney failure risk equation (KFRE), a risk-based triage for nephrology referrals: a mixed-methods study at pre- and post-implementation phase among health care providers, Christine Selvaraj</i>	15
<i>Bridging the gap: exploring prediabetes prevalence in Malaysia, Ying Guat Ooi</i>	17
<i>Global trends in diabetes control and quality of care: a systematic review, Dominika Bhatia</i>	19
<i>Ethnic variation in the prevalence and incidence of diabetes complications across a diverse population in Northwest London, Ben Griffiths</i>	21
<i>Comparing A1C and OGTT performance in determining glycemic status based on the new IDF OGTT criteria, Waralee Chatchomchuan</i>	23

<i>Risk factors for diabetes complications in type 2 diabetes by age,</i> Forough Sajjadi	25
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Saturday, April 5, 2025 12:30-13:30 & 15:00-15:15 Location: Bangkok International Trade & Exhibition Centre, Silk 3	
Title and Presenter	Poster Number
<i>Genetic model analysis of the metabolic syndrome family cohort in Deqing county,</i> Jing Wang	2
<i>Hyperglycemia in hospitalized patients with COVID 19: A new diabetes?,</i> Xiomara Emely Juarez Membreño	4
<i>Chennai complications cohort – yield of screening to detect pre DM and DM in a population based pilot study from India,</i> Satyavani Kumpatla	6
<i>Multimorbidity among decedents with diabetes and inflammatory bowel disease: a population-based cohort study from Ontario, Canada,</i> Gemma Postill	12
<i>HbA1c is associated with a higher risk of cardiac and physical dysfunction but not cognitive dysfunction in T2DM,</i> Mahtab Tabesh	16
<i>Plasma glucose curve shape during an OGTT and glycemic status based on the proposed new IDF OGTT criteria compared with the traditional OGTT criteria,</i> Yotsapon Thewjitcharoen	18
<i>Increasing levels of prediabetes among people living with HIV in the Northern Cape province, South Africa,</i> Monalisa Nomhle Kalimashe	20
<i>Predicting hospital mortality with machine learning algorithm in patients with diabetes,</i> Pedro Caraballo	22
<i>Effectiveness of a physical activity intervention with family involvement in hypertension management: a randomised controlled study in a South African township,</i> Mandisa Simamane	24

Planning Committees

TRAINEE WORKSHOP CHAIRS:

Fatema Ali, Ghazal Fazli and Lee-Ling Lim

ABSTRACT REVIEW CHAIRS:

Steven James and Karen Nelson

PROGRAM COMMITTEE CHAIRS:

Kaberi Dasgupta, Jessica Harding and Dan Johnson

PLANNING COMMITTEE:

IDEG President: Lorraine Lipscombe

Committee Members: Tiffany Bartlett, Gillian Booth, Edward J. Boyko, Paula Bracco, Sonia Butalia, Bendix Carstensen, Lee-Ling Ming Chuang, Kristen Coppel, Bruce Duncan, Edward Gregg, Anthony Hanley, Matthew Hare, Lydia Henderson, Michael Laxy, Ronald Ma, Dianna Magliano, Gideon Meyerowitz-Katz, Ayesha Motala, Jannie Nielsen, Wannee Nitiyanant, Petch Rawdaree, Maria Inês Schmidt, Jonathan Shaw, David Simmons, Jaakko Tuomiletho, Daniel Witte and Roseanne Yeung