

Global Summit on **PHYSIOLOGY AND METABOLISM OF THYROID**

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Immunogenic issues in Diabetes and implications for Covid-19 Research. Hypoglycaemia, Neuroglycopenia, Addison's Disease**Derek C Beatty***University of Edinburgh, Scotland*

The World's first Diabetic Hypoglycaemic Event occurred in Toronto in 1922 when clinical administration of insulin from the first batches produced by Banting, Best and Macleod were injected into Dr Jim Gilchrist. Later in the evening he suffered a Diabetes Hypoglycaemic event with Convulsions and Seizure with Neuroglycopenia which when attended by Toronto Police and with clinical attendance was correctly diagnosed as a Hypoglycaemia Clinical Event. It was not drunkenness as Hypoglycaemia is often inferred when no alcohol is involved. 100 years later in 2022 ignorance and failure to understand the Forensic Aspects of Hypoglycaemia unawareness has led to tragedy for many patients and families. Described in 1982 by Michael Bliss in 'The Discovery of Insulin' Banting and Best had described Hypoglycaemia as a 'Mysterious Something'. In 1994 at the Banting Memorial Lecture presented by Prof Vincent Marks, University of Surrey, 'Hypoglycaemia – Real and Unreal, Lawful and Unlawful' identifies investigations undertaken in case study reports along with Hypoglycaemia in Addison's Disease with Addisonian or Adrenalin Crisis with low blood glucose, convulsions and seizure and links Munchausen Syndrome by Proxy with Child Abuse and Murder. The Mental Health link to Diabetes and Addison's Disease, discovered by Thomas Addison 1860, has resulted over the years in serious stigma and diabetes discrimination against clinical patient victims trying their daily best to self-manage and treat a lifelong serious health condition requiring daily insulin injections or hydrocortisone treatment when no cure exists at present. The daily challenge is enhanced in 2022 with attempts to live a sensible lifestyle with diet and exercise post Covid Pandemic 2020 which has raised further mental fear and anxiety.

Biography

Derek Beatty has 50 years experience in Healthcare and Medical Devices including Radiology, MRI, CT and X Ray, Diabetes, Respiratory Clinical Health issues, and Forensic Legal Aspects of Hypoglycaemia following in the published work of Prof Vincent Marks, Surrey University and Dr Matt Kiln, London and Sydney. He is an unpaid volunteer to support Diabetes and Endocrinology Research Groups including Diabetes UK, IDDT InDependent Diabetes Trust and Diabetes Alliance Scotland. This report is written by a person with Type 1 Diabetes diagnosed 44 years ago, treated with insulin for over 42 years, and with a 50-year career in healthcare. The journey has included experience in Diagnostic Laboratory Pathology Clinical Medicine: Radiology with CT and MRI; Respiratory inhaled therapy; Diabetes; Thyroid Disorders including Addison's Disease. The investigations into insulin therapy commenced over 28 years ago after experience of a life-threatening Hypoglycaemia Neuroglycopenia event in 1994 caused by alleged medical and professional negligence in public office.