A/PROF NEALE COHEN

DIABETES CLINICS

The diabetes clinical service at Baker IDI is one of the largest and most diverse diabetes services in Australia. With diabetes services in central Melbourne, the western suburbs of Melbourne and in outreach communities in the Northern Territory it has developed as one of the most advanced services on a national and international level.

Research Brief

Our large patient population of around 5000 current patients in Melbourne, Footscray and the Northern Territory is a unique resource for clinical research. With links to the clinical research department we have a number of clinical trials currently underway studying the latest therapeutics and technologies for managing diabetes.

Our electronic clinical database dates back to the year 2000 and is an important resource for studies analysing long term effects of therapeutic strategies.

Extensive data on all patients attending the clinics is routinely collected and includes measures of glycaemic control, hypoglycaemia, cardiovascular risk factors, psychological well being and treatment satisfaction.

Blood glucose testing is central to the management of diabetes and there are very few large, long term collections of glucose data available. Blood glucose meters and insulin pumps have been routinely downloaded in our clinics for analysis. This provides a unique data set for patients with type 1 and type 2 diabetes over a period of many years. These have been used in recent publications looking at rates of hypoglycaemia and glycaemic variability associated with different treatment options, and will help us understand the relationship between blood glucose profiles and clinical outcomes.

Methodologies

- Database analysis: Retrospective analysis of our clinical records and databases
- Prospective data collection including association with a statewide collaboration with other institutions using the Biogrid database
- Involvement of our patients in clinical research trials through the clinical research department

Publications

- Continuous Subcutaneous Insulin Infusion versus Multiple Daily Injections of Insulin Economic Comparison in Adult and Adolescent Type 1 Diabetes Mellitus in Australia. Neale Cohen, Michael E. Minshall, Lyn Sharon-Nash, Katerina Zakrzewska, William J. Valentine and Andrew J. Palmer; Pharmacoeconomics 2007; 25 (10): 881-897
- The effects of commencing insulin pump therapy on glycaemic parameters in adult patients with type 1 diabetes – a CGMS study. Neale Cohen-Johanes Purwoto-Jonathan Shaw. ADS meeting 2012

CONTACT

Neale Cohen
+61 (3) 8532 1800
Neale.cohen@bakeridi.edu.au
Continuous Glucose Monitoring Before And After Insulin Pump Initiation In Type 1 Diabetes

Effect Of Insulin Pump Therapy On Glycaemic Control Over Time Compared With Intensive MDI Therapy In Patients With Type 1 Diabetes