

# DIABETES

This course aims to inform and equip the practitioner with the necessary skills to function in a modern biomedical/clinical environment specialising in caring for the diabetes patient. This course will be relevant to researchers, day-to-day NHS hospital and general practice.

The course is mapped to The **Joint Royal Colleges of Physicians Training Board Speciality Training Curriculum for Endocrinology and Diabetes Mellitus**.

## Modules

Evidence Based Medicine

Analysis and Interpretation of Clinical Data

Clinical Medicine

Diabetes

- Overview of metabolism, introduction to Carbohydrate, lipid and protein metabolism.
- Metabolic regulation.
- Overview of the endocrine system and basic biological principles.
- Glucose transport systems.
- Glucose regulation in healthy individuals.
- Overview of diabetes – diagnosis, classifications.
- Type 1 diabetes - aetiology and epidemiology, cellular events, physiology, genetics.
- Type 2 diabetes – aetiology and epidemiology, cellular events, physiology, metabolic syndrome, genetics.
- Diabetes insipidus - aetiology and epidemiology, classification.
- Complications of type 1 and type 2 diabetes.

Therapeutic Advances in Diabetes

Reviews current guidelines and their evidence base in the therapeutic management of diabetes, and explores potential new therapies. Specific areas may covered include:

- Insulin and insulin pump therapy including equipment
- Anti-diabetic drugs
- An understanding of clinical research in relation to therapeutics and diabetes to enable students to translate that understanding into good therapeutic management of diabetes
- A review of landmark trials in diabetes and their implications for drug management in relation to blood pressure control, blood lipid management and anti-thrombotic therapy
- Drug treatment of diabetes complications: ketoacidosis; hypoglycaemia; diabetic nephropathy; diabetic neuropathy; clinical depression
- Exercise and diet
- The importance and value of an integrated team approach to support diabetes management

Case Investigations in Molecular Medicine

Assessment and Consultation in Clinical Settings

Research Dissertation

## **How course will be taught**

Deliver taught modules as three-day intensive courses to facilitate attendance from students in employment. Weekly support sessions and journal club supplement learning – all held in our modern facilities in Bache Hall on the Countess of Chester Hospital Campus.

The total number of contact hours for the whole course are 360 hours, out of a total study time of 1,800 hours.

## **Fees & Funding**

2018/19 full course fee: £12,000