

Fellowship Course in Diabetology

Duration of the Course	:	One Year
Training Schedule	:	12 months in the Department of Diabetology including Special Postings in the Following Departments
		• Intensive Medical Care Unit- 15days • Cardiology department - 15days • Nephrology department - 15days • Neurology department - 15days • Diabetic Foot Clinic - 15 days • Ophthalmology - 7 days
		Candidates will have to attend the Diabetology OP from 8 a.m to 10 a.m during the Special postings.
Case records	:	10 Interesting cases
Research	:	1 short thesis /projec to be presented at the time of Clinical Evaluation
Final Evaluation	:	Short notes and Multiple choice questions (Optional)
Clinical evaluation	:	Four short cases presentation / 4 Spatters
Course Coordinator	:	Professor of Diabetology,

Syllabus for the One year Fellowship Course in Diabetology

Basic Science:

- History of Diabetes
- Anatomy & Development of Pancreas
- Insulin Biosynthesis & Secretion
- Mechanism of Insulin action and regulation of glucose and Lipid Metabolism
- Glucagon, Glucagon like Peptide and Insulin like growth factors.
- Animal models for the study of Diabetes.

Diabetology:

- Definition, Diagnosis and classification of Diabetes
- Epidemiology of Diabetes
- Genetics of Type 1 and Type 2 Diabetes
- Insulin resistance & beta-cell dysfunction in Type 2 Diabetes
- Secondary forms of diabetes
- Maturity Onset Diabetes in Young (MODY)
- Obesity assessment and Management
- Metabolic Syndrome

Management of Diabetes:

- Patient Education
- Medical Nutrition therapy
- Exercise in Patients with Diabetes
- Laboratory investigations in Diabetes
- Oral anti-Diabetic Drugs
- Principles of Insulin therapy
- Insulin analogues
- Insulin delivery devices
- Hypoglycemia and its management
- Self Monitoring of Blood Glucose

Complications of Diabetes:

a) Acute metabolic complications:

- Diabetic ketoacidosis
- Hyperosmolar Hyperglycemic states

b) Chronic complications:

Micro vascular

- (i) Retinopathy
- (ii) Nephropathy
- (iii) Neuropathy

Macro Vascular

- (i) Coronary artery disease
- (ii) Peripheral vascular disease
- (iii) Cerebro-vascular accidents

- Epidemiology, Treatment and preventive aspects of vascular Complication
- Hypertension in diabetes
- Foot problems in Diabetes
- Diabetes and Pregnancy
- Sexual dysfunction in Diabetes
- Infection in Diabetes
- Skin and connective tissue disorders in Diabetes
- Bone and Joint problems in Diabetes.

Prevention of Diabetes:

Prevention of Type 1 and 2 Diabetes – current Strategies and Recent Trials.

Examination at the end of 1 year:

Theory :

1. Clinical Haematology including recent advances.
2. Laboratory Haematology.

Practical examination: - 1 day

Clinical

- Long case – 1
- Short case – 2

Laboratory aspects

- Interpretation of reports & charts
- Slides for morphology

Oral Examination