



## CERTIFICATE OF DIABETES EDUCATION AND MANAGEMENT



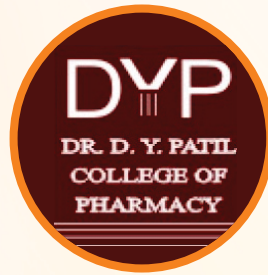
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(National Academy of Ayurveda)

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# CERTIFICATE COURSE ON DIABETES AND ITS MANAGEMENT

## Academic content for course

### INAUGURAL SESSION

- ☛ Course Direction- Basic Discipline, Time lines and achievements
- ☛ Why Practicing Diabetes is good for you
- ☛ Overview of Diabetes and Its Prevalence

#### Module A

##### a. India's Diabetes Crisis

- ✓ The AYUSH Opportunity,
- ✓ The Need-Gap
- ✓ The Solution : A Certificate Course

#### Module 1

##### b. History of Diabetes

- ✓ Global Burden of Diabetes- Epidemiology – Type 1, Type 2
- ✓ Prevalence- SEA- India- Rural- Urban
- ✓ Its Socio-economic impact. How it's beneficial for you.
- ✓ Physiology- Diabetes
- ✓ Pancreas Islet cells & Its Development
- ✓ Insulin Action
- ✓ Physiology of Glucose Metabolism & its clinical relevance
- ✓ Pathogenesis of Diabetes
- ✓ Others Types of Diabetes
- ✓ Interpretation of Genetics in DM

#### Module 2

##### a. Management of Diabetes Management

- ✓ Clinical Presentations of Diabetes
- ✓ The Aims of Diabetes Care
- ✓ Educating the Patient with Diabetes
- ✓ Lifestyle Issues: Diet
- ✓ Lifestyle Issues: Exercise
- ✓ Social Aspects of Diabetes
- ✓ Monitoring Diabetes
- ✓ Case Based approach

#### Module 2

##### b. Drug Therapy: Special Considerations in Diabetes

- ✓ Treatment of Diabetes
- ✓ Pharmacological management
- ✓ New Technologies for Insulin Administration and Glucose Monitoring
- ✓ Non- Insulin Parenteral Therapies
- ✓ In - Hospital Treatment and Surgery in Patients with Diabetes
- ✓ Hypoglycemia in Diabetes
- ✓ Acute Metabolic Complications of Diabetes
- ✓ Diabetic Ketoacidosis and Hyperosmolar
- ✓ Hyperglycemia
- ✓ Drug & Clinical Usage
- ✓ Case Based approach

#### Module 3

##### a. Complications: Microvascular Complications in Diabetes

- ✓ Pathogenesis of Microvascular Complications
- ✓ Diabetic Retinopathy
- ✓ Diabetic Nephropathy
- ✓ Diabetic Peripheral Neuropathy
- ✓ Clinical Screening
- ✓ Case Based approach

### Module 3

#### b. Macrovascular Complications in Diabetes

- ✓ The Pathogenesis of Macrovascular Complications Including Atherosclerosis in Diabetes
- ✓ Cardiovascular Risk Factors
- ✓ Cerebrovascular Disease
- ✓ Peripheral Vascular Disease
- ✓ Clinical Screening
- ✓ Case Based approach

### Module 3

#### c. Other Complications of Diabetes

- ✓ Foot Problems in Patients With Diabetes/ IPA modules
- ✓ Sexual Function in Men and Women with Diabetes
- ✓ Gastrointestinal Manifestations of Diabetes
- ✓ The Skin in Diabetes
- ✓ Bone and Rheumatic Disorders in Diabetes
- ✓ Psychologic Factors and Diabetes
- ✓ Clinical Screening
- ✓ Case Based approach

### Module 3

#### d. Diabetes in Special Groups

- ✓ Childhood
- ✓ Diabetes in Adolescence and Transitional Care
- ✓ Diabetes in Pregnancy
- ✓ Diabetes in Old Age
- ✓ Psychiatric Disorders and Diabetes
- ✓ NAFLD and Diabetes
- ✓ Case Based approach

### Module 4

#### Modern World of Diabetes : Technology & Diabetes

- ✓ CGM & Its role in Management of Diabetes.
- ✓ Diet & Technology
- ✓ Exercise & technology
- ✓ Insulin Pumps
- ✓ Health Applications- Relevance & Impact.
- ✓ Artificial Intelligence- Current & Future
- ✓ Technology based Clinical Screenings
- ✓ Artificial Pancreatic Tissues for Islet Cell Transplants
- ✓ EMR- Its importance in current scenario and future roadmap.
- ✓ Case Based approach

### Module 5

#### Diabetes Education as a pillar of prevention & care

- ✓ Present Status and future aspirations of Diabetes Education in world and In India.
- ✓ The Role of the Multidisciplinary Team
- ✓ Models of Diabetes Care Across Different Resource Settings  
Emphasis on low resource setting.

### Module 6

#### Future Research and Newer Advancement in Diabetes

- ✓ Future Drug Treatment for Type 1 Diabetes
- ✓ Future Drug Treatment for Type 2 Diabetes
- ✓ Future Directions: Islet Transplantation
- ✓ Gene therapy
- ✓ Future Models of Diabetes Care

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