

# Postgraduate Diploma Diabetes Management





## Postgraduate Diploma Diabetes Management

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/medicine/postgraduate-diploma/postgraduate-diploma-diabetes-management](http://www.techtitute.com/in/medicine/postgraduate-diploma/postgraduate-diploma-diabetes-management)

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# 01

# Introduction

This Postgraduate Diploma provides an in-depth study of the most up-to-date concepts and therapeutic approaches to obesity, from the point of view of both the nutritional approach and the pharmacological and surgical approach in the indicated cases, as well as the associated cardiovascular risk factors (hypertension and dyslipidemia). It also presents the comprehensive management of patients with type 2 diabetes according to national and international standards and guidelines in order to acquire a general and critical view of them.





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*This training is the best option you can find to specialize in diabetes”*

Diabetes is a complex, chronic process that requires specific knowledge and skills for a comprehensive approach that goes beyond glycemic control.

This Postgraduate Diploma in Diabetes Management presents a comprehensive overview of this disease, which is useful for the proper management of patients with diabetes at any level of care.

This is a unique and innovative training program, based on an up-to-date description of the epidemiological situation of diabetes. This Postgraduate Diploma provides an in-depth study of the complex pathophysiology of the disease, the integral evaluation of acute and chronic complications, from a specialized point of view, and its comprehensive treatment.

Its contents cover the most innovative aspects of diabetes, such as the implementation of technology to control and treat this disease, and the most innovative areas in the research of new therapeutic approaches. All this, without forgetting the crucial role of diabetes education for the control of the disease.

This program is unique in that it includes a broad view of the disease across all patient ages and special situations. It also delves into the social aspects of diabetic patients' lives that require specific knowledge so that they can be addressed.

A quality training with which you will be able to stand out in a highly competitive sector and improve your skills and Knowledge of the field.

This **Postgraduate Diploma in Diabetes Management** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical cases presented by experts in Diabetes
- ♦ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ New developments in Diabetes
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Special emphasis on innovative methodologies in Diabetes
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Improve the quality of care for your patients with this innovative diabetes training program"*

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*This Postgraduate Diploma is the best investment you can make when selecting a refresher program for two reasons: in addition to updating your knowledge of Diabetes, you will obtain a qualification endorsed by TECH”*

The teaching staff includes professionals from the field of Diabetes, who bring their experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

This program is designed around Problem Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts in Diabetes with extensive medical experience.

*Take the step and join our team. You will find the best educational material to enhance your studies.*

*This 100% online Postgraduate Diploma will allow you to combine your studies with your professional work while increasing your Knowledge of this field.*



# 02 Objectives

The Postgraduate Diploma in Diabetes Management is aimed at facilitating the medical professional's performance with the latest advances and most innovative treatments in the sector.





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*This is your opportunity to learn about  
the latest treatments in Diabetes”*



## General Objectives

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- ♦ Act as a leading professional specialized in Diabetes.
- ♦ Further develop the skills necessary for general treatment (nutrition, exercise, healthy habits and treatment measures) of diabetic patients.
- ♦ Acquire the necessary knowledge about the pharmacological treatment of type 2 diabetes in order to be able to prescribe the best pharmacological strategy for each patient with type 2 diabetes according to their comorbidities.
- ♦ Acquire the knowledge and skills necessary to be able to operate the different blood glucose monitoring devices, as well as insulin injection devices (continuous insulin perfusion pumps) and to be able to interpret the data from these devices.



*Take advantage of the opportunity and take the step to get up to date on the latest developments in Diabetes”*



## Specific Objectives

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### Module1. Diabetes Management (I)

- ♦ Specialize in the integral treatment of Diabetes
- ♦ Learning the global management of obesity in the diabetic patient
- ♦ Know the pharmacological alternatives for the treatment of obesity in patients with diabetes
- ♦ Learn what metabolic surgery is, its indications in diabetic patients and its results
- ♦ Know the most indicated antihypertensive treatments for diabetic patients and their prescription
- ♦ Learn the management of diabetic dyslipidemia, know the indications for its treatment and the drugs available
- ♦ Learn how to prescribe a nutritional plan adapted to each person with type 1 or type 2 diabetes
- ♦ Acquire the knowledge to prescribe a structured exercise program for the patient with Diabetes
- ♦ Know the different insulin treatment guidelines for patients with type 1 diabetes
- ♦ Learn to interpret glycemic control results according to individualized treatment guidelines
- ♦ Become familiar with more complex therapeutic strategies for patients with type 1 diabetes such as islet or pancreas transplantation
- ♦ Acquire a critical view of the recommendations of expert consensus and scientific society guidelines for the management of type 2 diabetes

## Module 2. Therapeutic Management of Diabetes (II)

- ♦ Acquire knowledge of each of the families of antidiabetic drugs
- ♦ Acquire the knowledge and skills necessary to be able to safely prescribe metformin
- ♦ Acquire the knowledge and skills necessary to safely prescribe sulfonylureas and glinides
- ♦ Acquire the knowledge and skills necessary to be able to safely prescribe acarbose
- ♦ Acquire the knowledge and skills necessary to safely prescribe DPP4 inhibitors
- ♦ Acquire the knowledge and skills necessary to be able to safely prescribe GLP-1 analogues
- ♦ Acquire the knowledge and skills necessary to safely prescribe type 2 sodium-glucose cotransporter inhibitors
- ♦ Acquire the knowledge and skills necessary to safely prescribe insulins
- ♦ Familiarization with new therapeutic targets in development, as a very novel aspect of this module
- ♦ Acquire the knowledge and skills necessary for the management of steroid-induced hyperglycemia
- ♦ Acquire the knowledge and skills necessary for the nutritional approach to gestational diabetes
- ♦ Acquire the knowledge and skills necessary for the pharmacological management of gestational diabetes

## Module 3. Diabetes and Technology

- ♦ Acquire the knowledge of the use of technology in Diabetes
- ♦ Know what self-monitoring of capillary blood glucose means and its interpretation in order to be able to manage patient data and to be optimize diabetes control
- ♦ Learn about continuous glucose monitoring
- ♦ Know the available glucose monitoring devices and their use
- ♦ Acquire the skills to be able to conduct a training program on glucose sensing
- ♦ Acquire the knowledge and skills necessary for the interpretation of the results of continuous glucose monitoring systems
- ♦ Learning to read an APG report
- ♦ Know the subcutaneous insulin injection devices, their handling and related problems in order to be able to solve them in the diabetic patient who is a user of these devices
- ♦ Acquire the necessary knowledge for the handling of continuous glucose monitoring devices and insulin perfusion pumps in infancy
- ♦ Acquire the necessary knowledge for the use of continuous glucose monitoring devices and insulin perfusion pumps in pregnancy
- ♦ Acquire the basic knowledge of what an artificial pancreas is, what types there are and what they provide to patients with type 1 diabetes
- ♦ Know the mobile internet applications available for the diabetic patient
- ♦ Learn to recognize the usefulness of information obtained through artificial intelligence data analysis in the field of Diabetes
- ♦ Learn how to apply technology in new forms of medical care for diabetic patients (E-consultation, telemedicine, online training programs...)

03

# Course Management

The program's teaching staff includes leading experts in Diabetes who contribute their vast work experience to this training program. Additionally, other recognized specialists participate in its design and preparation which means that the program is developed in an interdisciplinary manner.





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*Leading professionals in the field have come together to teach you the latest advances in Diabetes”*

## Management



### Dr. González Albarrán, Olga

- Degree in Medicine from the Autonomous University of Madrid
- PhD in Medicine from the University of Alcalá de Henares. Grade: Outstanding Cum Laude. Outstanding Award in her PhD
- Specialist in Endocrinology and Nutrition
- Head of Endocrinology and Diabetes at the Gregorio Marañón University Hospital in Madrid
- Associate Professor at the Complutense University of Madrid
- Master's Degree in Clinical Nutrition from the Autonomous University of Madrid
- Master's Degree in Cardiovascular Risk from McMaster University. Ontario. Canada
- TECH Master's Degree in Endocrinology Clinical Unit Management from the Meléndez Pelayo University

## Professors

### Dr. Atencia Goñi, José

- Degree in Medicine from the University of Navarra
- Specialist in Endocrinology and Nutrition
- Assistant Physician in the Endocrinology Department at the Gregorio Marañón Hospital in Madrid

### Dr. Chacín Coz, Juan Simón

- Degree in Medicine from the Central University of Venezuela (2001 - 2007)
- Specialist in Endocrinology and Nutrition
- Assistant Physician in the Endocrinology Department at the Rey Juan Carlos University Hospital in Móstoles, Madrid

### Dr. Galdón Sanz-Pastor, Alba

- Degree in Medicine from the Complutense University of Madrid
- Specialist in Endocrinology and Nutrition
- Assistant Physician in the Endocrinology Department at the Gregorio Marañón Hospital in Madrid

### Dr. López Guerra, Aurelio

- Degree in Medicine from the University of Gran Canaria
- Specialist in Endocrinology and Nutrition
- Assistant Physician in the Endocrinology Department at the Gregorio Marañón Hospital in Madrid

### Dr. Weber, Bettina

- Degree in Medicine from the Complutense University of Madrid
- Specialist in Endocrinology and Nutrition
- Assistant Physician in the Endocrinology Department at the Gregorio Marañón Hospital in Madrid




04

# Structure and Content

The structure of the content has been designed by leading professionals in the Diabetes Sector, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and with extensive knowledge of new technologies applied to anesthesiology.







**Blood suga**

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*This Postgraduate Diploma contains the most complete and up-to-date scientific program on the market”*

## Module 1. Diabetes management (I)

- 1.1. Introduction to Comprehensive Diabetes Management
- 1.2. Management of Obesity in Diabetes and Prediabetes. Metabolic Surgery for the Treatment of Diabetes
- 1.3. Treatment of Risk Factors: Hypertension in Diabetes, Dyslipemia
- 1.4. Treatment of Risk Factors: Tobacco Addiction
- 1.5. Nutrition in Type 1 Diabetes
- 1.6. Nutrition in Type 2 Diabetes
- 1.7. Exercise as Part of Diabetes Treatment
- 1.8. "Conventional" Treatment of Type 1 Diabetes
- 1.9. "Non-Conventional" Treatment of Type 1 Diabetes. Pancreatic Islet Transplant Pancreas Transplant
- 1.10. National and International Guidelines and Consensus for Managing Type 2 Diabetes

## Module 2. Diabetes management (II)

- 2.1. Metformin
- 2.2. Sulfonylureas and Glinides
- 2.3. Acarbose and Thiazolidinediones
- 2.4. Glycosurics
- 2.5. DPP4 Enzyme Inhibitors
- 2.6. GLP-1 Receptor Agonists
- 2.7. Recap. Prandial Insulins. Basal Insulins
- 2.8. New Treatments under Research
- 2.9. Treatment of Steroid Diabetes
- 2.10. Treatment of Gestational Diabetes



### Module 3. Diabetes and technology

- 3.1. Overview of the Use of Technology in Diabetes
- 3.2. Self-Monitoring of Capillary Glycemia
- 3.3. Continuous Glucose Monitoring. Glucose Sensors
- 3.4. Insulin and Injection Devices. Insulin Pumps
- 3.5. Artificial Pancreas
- 3.6. Use of Technology in Diabetes in Pregnancy
- 3.7. Use of Technology in Diabetes in Childhood
- 3.8. Diabetes and Big Data
- 3.9. Diabetes and Internet (Websites, Apps..)
- 3.10. New Forms of Medical Care for Patients with Diabetes

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*This training will allow you to comfortably advance in your career”*

05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*





At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

# Certificate

The Postgraduate Diploma in Diabetes Management guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Diploma issued by TECH Technological University.





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*Successfully complete this training and receive your university degree without travel or laborious paperwork”*

This **Postgraduate Diploma in Diabetes Management** contains the most complete and updated scientific program on the market.

After the student has passed the evaluations, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Diploma in Diabetes Management**

Official N° of hours: **450 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
development language  
virtual classroom



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