## Postgraduate Certificate

Macrovascular Complications





## Postgraduate Certificate

Macrovascular Complications of Diabetes

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

We bsite: www.techtitute.com/in/medicine/postgraduate-certificate/macrovascular-complications-diabetes

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## tech 06 | Introduction

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

This Postgraduate Certificate in Macrovascular Complications of Diabetes presents a global and comprehensive view of the 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 program delves into the complex pathophysiology of the disease, in the integral evaluation of its acute and chronic complications, from a specialized point of view, and in its integral 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 in the field.

This **Postgraduate Certificate in Macrovascular Complications of Diabetes** 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 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 self-assessment can be used 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





This Postgraduate Certificate is the best investment you can make in the selection of a professional program for two reasons: in addition to upgrading your knowledge in Diabetes, you will obtain a degree from TECH Technological University"

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.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive learning, programmed to train in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. 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 Certificate will allow you to balance your studies with your professional work while increasing your knowledge in this field.







## tech 10 | Objectives



## **General Objectives**

- Act as a leading professional specialized in Diabetes
- Know the chronic macrovascular complications related to Diabetes, since they are the main cause of mortality in patients with Diabetes



A unique specialization course that will anable you to acquire superior education enable you to acquire superior education for development in this field"







#### **Specific Objectives**

- Deepen the current data on the epidemiology of macrovascular disease in diabetes
- Deepen the current data on the epidemiology of hypertension in diabetes
- Deepen on the current data on the Epidemiology of dyslipidemia in diabetes
- Deepen the knowledge of current data on the Epidemiology of smoking in diabetes
- Learn how to design a smoking cessation program
- Acquire the knowledge and skills necessary to screen for coronary heart disease in diabetics
- Acquire the knowledge and skills necessary for the screening of diabetic heart failure
- Acquire the knowledge and skills for the initial management of the diabetic heart failure patient
- Acquire the knowledge and skills necessary to perform screening tests for peripheral arterial disease in diabetics
- Learn to critically interpret glycemic control targets in the diabetic patient in secondary prevention
- Acquire the knowledge and skills necessary to develop the criteria for referral to a hepatologist for a patient with suspected hepatic steatosis
- Acquire the knowledge and skills necessary for the assessment of chronic lung disease in diabetics
- Acquire knowledge about the prevalence and association between diabetes and cancer
- Acquire the knowledge and skills necessary for the screening of mood disorders, especially depression in diabetic patients







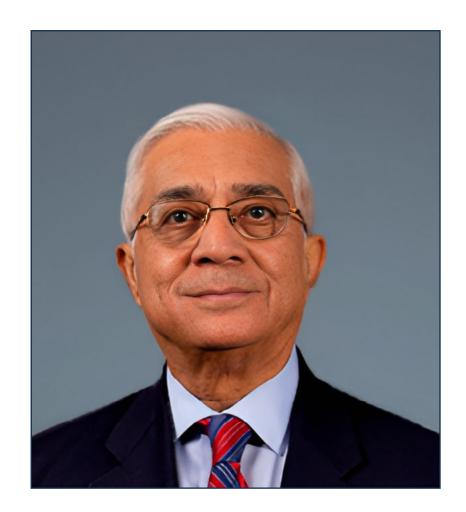
#### **International Guest Director**

More than **four decades of experience** in **diabetes** research and clinical practice endorse the outstanding career of Dr. Om Ganda. He was part of one of the **most important trials in this field**, the 1993 DCCT, which demonstrated the importance of glucose control in the prevention of complications in type 1 diabetes. Likewise, his numerous contributions to this area have led to outstanding advances in optimal glucose control in patients with diabetes. In recent years he has directed his research focus to the study of the effects of Omega-3 fatty acids on cardiovascular health and the improvement of treatments for people with difficulties in maintaining a diet or exercising.

He has more than 100 scientific publications in the area of Diabetes, the most cited being those related to the development of a comprehensive care plan for Diabetes Mellitus (in collaboration with the American Society of Clinical Endocrinologists), the insulin resistance syndrome or the treatment of dyslipidemia and prevention of atherosclerosis.

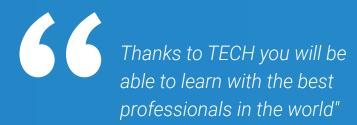
His extensive experience has led him to direct, as medical director, the Lipid Clinic of the Joslin Diabetes Center, where he has also been coordinator of the Endocrinology Consultation Service and coordinator of the Clinical Diabetes and Metabolism conferences. He balances these responsibilities with his aforementioned work in the field of research, being an active part of the Joslin Research Laboratory.

He is also an Associate Professor of Medicine at Harvard Medical School, having served as a Clinical and Research Fellow at Harvard, Boston Veterans Administration Hospital and Peter Bent Brigham Hospital.



## Dr. Ganda, Om

- Director of the Lipid Clinic at the Joslin Diabetes Center
- Coordinator of the Endocrine Consultation Service at Joslin Diabetes Center
- Researcher at the Joslin Research Laboratory
- Associate Professor of Medicine at Harvard Medical School
- M.D. from All India Institute of Medical Sciences
- Graduate in Medicine from S.M.S. Medical College of Rajasthan University
- Clinical Fellow in Endocrinology and Metabolism at Boston Veterans Administration Hospital and Tufts University School of Medicine
- Research Fellow at Harvard Medical School
- Research Fellow at Peter Bent Brigham Hospital
- Board Certified in the subspecialty of Endocrinology and Metabolism by the American Society of Internal Medicine



#### Management



#### Dr. González Albarrán, Olga

- Head of Endocrinology and Diabetes at the Gregorio Marañón University Hospital in Madrid
- Specialist in Endocrinology and Nutrition
- Degree in Medicine from the Autonomous University Madrid
- Doctor with Cum Laude and Extraordinary Prize in Medicine from the University of Alcalá de Henares
- 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
- Master's Degree in Management of Endocrinology Clinical Units, Meléndez Pelayo University
- Spanish Society of Endocrinology and Nutrition Award

#### **Professors**

#### Dr. Galdón Sanz-Pastor, Alba

- Physician Specialist in Endocrinology and Nutrition
- Assistant Physician of the Endocrinology Service of the Gregorio Marañón Hospital
- Author of several national and international specialized publications
- Degree in Medicine from the Complutense University of Madrid

#### Dr. López Guerra, Aurelio

- Specialist in Endocrinology and Nutrition
- Assistant Physician of the Endocrinology Service of the Gregorio Marañón University Hospital of Madrid
- Degree in Medicine, University of Las Palmas de Gran Canaria

#### Dr. Weber, Bettina

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

#### Dr. Brox Torrecilla, Noemi

- Specialist in Endocrinology and Diabetes at the Gregorio Marañón University Hospital in Madrid
- Researcher at the Gregorio Marañón Health Research Institute
- Graduate in Medicine from the University of Castilla-La Mancha

#### Dr. Chacín Coz, Juan Simón

- Physician Specialist in Endocrinology and Nutrition
- Endocrinologist at the Fundación Jiménez Díaz University Hospital in Madrid
- Adjunct Physician at Rey Juan Carlos University Hospital, Madrid
- Medical Degree from the Central University of Venezuela
- Member of the Spanish Society of Endocrinology and Nutrition

#### Dr. Atencia Goñi, José

- Assistant Physician in the Endocrinology Department of the General University Hospital Gregorio Marañón, Madrid
- Specialist in Endocrinology and Diabetes at the Gregorio Marañón University Hospital in Madrid
- Physician at the Hospital Vithas Madrid La Milagrosa
- Physician at Ruber Internacional Hospital in Madrid
- Residency in Division of Endocrinology, Metabolism, and Lipids. Emory University, Atlanta
- Degree in Medicine from the University of Navarra
- Education in neuroendocrine tumors

#### Dr. Miguélez González, María

- Assistant Physician of Endocrinology and Nutrition at the Jiménez Díaz Foundation University Hospital in Madrid
- Degree in Medicine from the University of Valladolid
- Collaborating lecturer in the subject of Ophthalmology at the Complutense University of Madrid
- Professor of the Master Expert in Obesity and Metabolic Complications, endorsed by SEEDO



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





## tech 18 | Structure and Content

#### Module 1. Macrovascular complications of diabetes and other medical entities

- 1.1. Epidemiology of Macrovascular Disease in Diabetes
- 1.2. Epidemiology of Hypertension and Dyslipidemia in Diabetes
- 1.3. Diabetes and Heart
- 1.4. Cerebrovascular Disease in Diabetes
- 1.5. Peripheral Arterial Disease
- 1.6. Effects of Glycemic Control on Cardiovascular Events in Patients with Diabetes
- 1.7. Diabetes and Hepatic Steatosis/Steatohepatitis
- 1.8. Diabetes and Lung Disease
- 1.9. Diabetes and Cancer
- 1.10. Diabetes and Depression











## tech 24 | Methodology

#### 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.



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:

- 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.



### Methodology | 27 tech

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.

## tech 28 | Methodology

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**

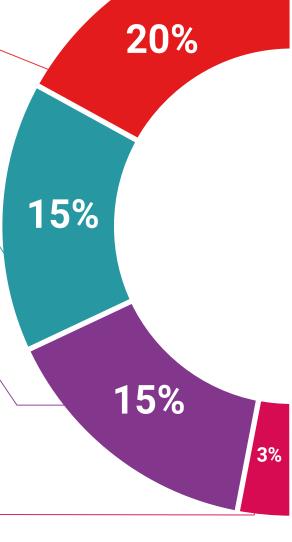
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many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

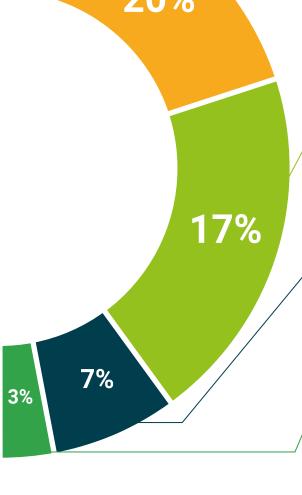
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### **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.









## tech 30 | Certificate

This **Postgraduate Certificate in Macrovascular Complications of Diabetes** contains the most complete and up-to-date scientific on the market.

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

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

Title: Postgraduate Certificate in Macrovascular Complications of Diabetes

Official No of Hours: 150 h.



<sup>\*</sup>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.

health confidence people

education information tutors
guarantee accreditation teaching
institutions technology learning



# Postgraduate Certificate Macrovascular Complications of Diabetes

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

