



### Advanced Master's Degree Obesity and Diabetes

» Modality: online» Duration: 2 years

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/in/medicine/advanced-master-degree/advanced-master-degree-obesity-diabetes

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### tech 06 | Presentation

Obesity is a health problem that affects people all over the world, although it has a higher incidence in more developed countries, largely due to the lifestyle of citizens and the ability to acquire higher calorie foods. Even so, the World Health Organization (WHO) estimates that it may affect 650 million subjects worldwide, with a related mortality of about 2.8 million subjects per year.

The increase in its incidence, the accompanying comorbidities that lead to a significant increase in mortality, especially cardiovascular and cancer mortality, the various medical and surgical treatments available, together with the exponential increase in health care costs it entails, have made obesity a permanent focus of attention.

With this in mind, preventing obesity is essential. Through the use of a multidisciplinary approach, the aim is to implement lifestyle changes, especially physical activity and dietary patterns, and should be introduced as early on in the process as possible. Thus, health education has become essential to prevent situations of obesity.

However, it is also necessary to take into account that obesity can lead to the appearance of other associated diseases, which can cause serious damage to people's health. In this case, with this Advanced Master's Degree we want to focus on Diabetes, since it is a complex and chronic process that requires a comprehensive approach by the physician, which goes beyond glycemic control. In fact, type 2 diabetes is the most widespread form of this disease in adult patients, with overweight and obesity as risk factors. Therefore, a healthy lifestyle can prevent their appearance.

This Advanced Master's Degree offers the possibility of deepening and updating knowledge in this area, with the use of the latest educational technology. It offers a global vision of Obesity and Diabetes, while focusing on the most important and innovative aspects to prevent and treat these diseases. All this in a 100% online specialization, which will allow you to expand your knowledge and, therefore, your professional skills and competencies in a simple way, adapting your study time to the rest of your daily obligations.

This **Advanced Master's Degree in Obesity and Diabetes** contains the most complete and up to date scientific program on the market. The most salient features of the specialization are:

- The development of clinical cases presented by experts in Obesity and 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
- Diagnostic and therapeutic novelties on Obesity and Diabetes
- The presentation of hands-on workshops on procedures, diagnostic and therapeutic techniques
- Real images in high resolution and practical exercises where the self-evaluation process can be carried out to improve learning
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Special emphasis on evidence-based medicine and research methodologies
- Theoretical lessons, questions to the expert, forums for discussion of controversial issues and individual reflection papers
- The availability of access to content from any fixed or portable device with an Internet connection



This program has been designed for professionals seeking the highest qualification, with the best didactic material, working on real clinical cases and learning from the best professionals in the sector"



This Advanced Master's Degree is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Obesity and Diabetes, you will obtain a degree from TECH University of Technology"

Its teaching staff includes health professionals from the medical field, who contribute their work experience to this specialization, as well as renowned specialists from leading scientific societies.

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 physician must try to solve the different professional practice situations that arise throughout the specialization. For this, the professional will be assisted by an innovative interactive video system developed by recognized experts in the field of Obesity and Diabetes, with extensive teaching experience.

Increase your confidence in decision making by updating your knowledge through this Grand Master, a program created to train the best.

We offer you the best teaching methodology, with a multitude of practical contents that will allow you to study in a more complete and effective way.







### tech 10 | Objectives



### **General Objectives**

- Update the physician's knowledge of new trends in human nutrition in both health and pathological situations through evidence-based medicine
- Promote work strategies based on the practical knowledge of the new trends in nutrition and its application to the pathologies of both children and adults, where nutrition plays a fundamental role in their therapy
- Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific training
- Encourage professional stimulation through continuing education and research
- Act as a leading professional specialized in Diabetes
- Deepen the knowledge related to the importance of diabetes in our environment, the different states of altered glucose metabolism, its classification and diagnostic criteria
- Deepen the understanding of the complex mechanisms of glycemia regulation; and improve the knowledge of the bases of the physiopathogenesis of type 1 and type 2 diabetes, in order to understand the existing therapeutic approaches and its prevention
- Acquire the knowledge and skills necessary for a comprehensive assessment of the person with diabetes, with special reference to acute complications of glycemic control
- Acquire the knowledge and skills necessary to deepen the chronic complications of diabetes, in order to acquire an adequate management of them
- Know the chronic macrovascular complications related to Diabetes, since they are the main cause of mortality in patients with Diabetes

- Expand knowledge of the skills necessary for the global treatment (nutritional, exercise, healthy habits and therapeutic measures) of the patient with Diabetes
- 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 handle the different blood glucose monitoring devices, as well as insulin injection devices (continuous insulin perfusion pumps) and to be able to interpret the data resulting from these devices
- Attain the knowledge and skills necessary to expertly deal with the treatment of patients
  with diabetes in special situations such as the elderly, institutionalized, hospitalized, during
  travel, in the rural world and at work
- Acquire the necessary knowledge and skills of diabetes education, as part of the treatment
  of diabetes, to facilitate the knowledge, skill and ability necessary for self-management



### Module 1. Physiology of Appetite and Weight Control Pathophysiology

- Expand understanding of the basic principles of energy balance
- Acquire skills in the calculation of the energy balance
- Analyze the different methods for assessing nutritional status
- Review new pathways, hormonal, metabolic, etc., that regulate neuroendocrine function, energy homeostasis, and metabolism in humans
- Analyze subcutaneous adipose tissue and the role of dysfunctional adipose tissue in the development of obesity
- Explain the role of the intestinal microbiota and its implications in diseases
- Review the basics of a balanced diet

### Module 2. Etiopathogenesis of Obesity

- Know in depth the genetic factors of monogenic and polygenic obesity
- Acquire knowledge about how epigenetics may influence the development of Obesity
- List the different causes of secondary obesity in relation to endocrinopathies and drugs
- Analyze advances in nutritional genomics, both in nutrigenetics and nutrigenomics
- Establish the relationship between environmental factors and the development of obesity
- Review and learn about the various endocrine disruptors and their role as obesogenic agents
- Explain the connection between obesity and level of economic status
- Study how circadian rhythm alterations influence the expression of enzymes and hormones involved in metabolism
- Review the risk of loss of muscle mass and subsequent development of sarcopenia in relation to obesity

### Module 3. History Definition. Diagnosis and Classification. Epidemiology

- Gain an in-depth understanding of obesity as a clinical condition and its historical evolution
- Interpretation and integration of anthropometric data
- Know and be able to interpret the impact-based obesity classifications (ABCD) and the Edmonton system
- Know the epidemiology of obesity in childhood, adulthood and its complications
- Identify that this is more of a clinical syndrome that requires an exhaustive phenotypic characterization
- Correctly evaluate a patient with Obesity, throughout the different periods of life
- Interpreting the existence of the so-called metabolically healthy obese

### Module 4. Comorbidities of Obesity

- Become familiar with the concept of comorbidity associated with obesity
- Deepen understanding of the pathophysiology of these comorbidities
- Study the different endocrine-metabolic and cardiovascular comorbidities
- Identify the pathophysiological mechanisms linking hypertension and obesity
- Recognize the relationship between lipid disorders and obesity, especially atherogenic dyslipidemia
- Specialize in non-metabolic and non-cardiovascular comorbidities associated with obesity, especially respiratory and digestive comorbidities, etc.
- Review the basic concepts on the available scientific evidence of these pathologies and especially the relationship between obesity and cancer
- Review the most current knowledge on covid-19 infection in obese patients

### tech 12 | Objectives

### Module 5. Prevention of Obesity and its Comorbidities

- Identify the high prevalence of overweight and obesity in childhood and its importance for the association of other diseases, such as hypertension and diabetes
- Establish recommendations for a healthier lifestyle to prevent childhood overweight and obesity
- Analyze peculiarities of obesity in women
- Review the costs of obesity in different countries and the strategies for Obesity Prevention in Health Systems
- Insist on the interaction between obesity and type 2 diabetes mellitus
- Comprehensive knowledge of the therapeutic approach, insisting on the importance of a multidisciplinary approach

### Module 6. Dietary treatment of obesity

- Conduct a review of the evidence regarding carbohydrate and protein intake in the prevention and treatment of obesity
- Deepen the understanding of the basis of the relationship between dietary fat and body weight regulation
- Study eating patterns and the balanced hypocaloric diet as a dietary treatment for obesity
- Acquire knowledge about exchange diets and how to catalog the different generic foods
- Review the Mediterranean diet as a model for the prevention and treatment of obesity
- Review and understand the meaning of light foods and functional foods
- Become familiar with the history and current status of miracle diets and their impact on individuals and society as a whole
- Explain the methodology of a diet to maintain the lost weight
- Learning about very low-calorie diets
- Acquire skills in the use of dietary treatment as therapy for comorbidities

### Module 7. Physical Activity and Obesity

- In-depth knowledge of the concepts related to physical activity
- Perform a functional assessment based on scientific evidence
- Establish a physical activity program based on the assessment
- Understand the different types of physical activity programs appropriate for age and physical condition
- Identify exercises with low risk of injury for obese patients
- Physical activity as a habit to prevent Obesity
- Approach of physiotherapy in the comorbidities of obesity and its transcendence in the treatment of these comorbidities
- Deepen the work of physiotherapy in surgical approaches in obesity (pre- and post-surgery)

### Module 8. Psychological and Psychiatric Aspects of Obesity

- Obtain an overview of the contributions from the psychological area aimed at increasing the chances of success in multidisciplinary intervention in overweight and obesity
- Make a brief historical review of the different social and cultural considerations of the phenomenon of Obesity from prehistoric times to the present day
- Recognize the main comorbid psychiatric disorders associated with obesity and psychopathology related to eating disorders
- Deepen the knowledge and management of binge eating disorder and its relationship with obesity and overweight
- Learn techniques that promote change in patients towards healthier lifestyles
- Broaden knowledge of psychological examinations before and after bariatric surgery
- Present the psychotherapeutic approach from the cognitive-behavioral therapy approach
  that has proven to be the most effective treatment to address obesity in both children and
  adults.
- Stress the importance of early detection of the psychological and educational variables
  that contribute to the development of eating disorders and obesity in order to carry out
  preventive activities



### Module 9. Pharmacological Treatment of Obesity

- Identify the pharmacological arsenal currently available to treat obesity
- Establish the indications for anti-obesity drugs in each patient
- Analyze how its effect is controlled and the results that we can expect
- Recognize other drugs already marketed in other countries such as the United States
- Present those drugs that produce weight loss, without being their main reason for use
- Miracle drugs that have been used in the treatment of obesity are reviewed
- Know in depth the new lines of research in Precision Medicine
- Establish the pharmacokinetic variations caused in obese patients by excess body fat and those that appear after bariatric surgery

### Module 10. Surgical Treatment of Obesity

- Correctly address the indications and contraindications of bariatric surgery
- Establish the preoperative protocol, with surgical risk stratification
- Recognize all the techniques of bariatric surgery
- Identify the appropriate technique for each patient
- In-depth knowledge of the endoscopic therapies currently in use, their indications and clinical management
- Knowing how to indicate metabolic surgery
- Post-operative management of the operated patient
- Identify the possible reasons for urgency after bariatric surgery
- Familiarization in the follow-up of pregnancy after bariatric surgery

### Module 11. The Concept of Diabetes. Epidemiology

- Expand and acquire the latest skills and news about Diabetes as a chronic, complex and progressive disease
- Acquire knowledge of the classification of Diabetes, and the wide spectrum of etiologies that lead to its development
- Deepen the epidemiology of type 1 diabetes and its determinants

- Deepen the epidemiological impact of type 2 diabetes as an epidemic in our environment
- Acquire the knowledge and skills to detect diabetes early in the population, through screening techniques
- Incorporate the concept of public health in Diabetes

### Module 12. Pathophysiology of Diabetes

- Deepen the basic knowledge of glucose homeostasis
- Analyze the etiopathogenic mechanisms of type 1 diabetes
- Know what insulinitis is and how it occurs in type 1 diabetes
- Deepen in the etiopathogenic mechanisms of type 2 diabetes that will serve as therapeutic targets for the same
- Understand the essential role of adipose tissue and its excess (obesity) in the genesis of type 2 diabetes
- Acquire the knowledge and skills of insulin resistance measurement
- Studying the mediating role of inflammation between obesity and diabetes
- Know the alterations in the regulation of gastrointestinal hormones in type 2 diabetes and what is the incretin effect
- Learn about a new avenue of research in the field of diabetes etiopathogenesis: Intestinal microbiota
- Delve into new mechanisms involved in type 2 diabetes, such as the role of the central nervous system as an organ regulating body weight
- Learn what is the natural history of type 2 diabetes
- Knowing how to prevent or delay the development of type 1 and type 2 diabetes, by acting on the etiopathogenic mechanisms involved

### tech 14 | Objectives

#### Module 13. Evaluation of diabetes and its comorbidities

- Study in depth the concept of comprehensive assessment of diabetes in order to have a global vision of the patient with diabetes
- Acquire the necessary knowledge to transmit to the patient the priorities in the therapeutic approach
- Acquire the skills to know the patient's preferences, social, economic and cultural environment and expectations in the treatment of Diabetes
- Know the importance of glycemic control
- Learn glycemic control mediation techniques and individualized targets for each patient
- Acquire a mastery of hypoglycemia, both from the pathophysiological point of view, as well as detection, prevention and treatment
- Knowing the consequences of hypoglycemia on the patient
- Differentiate acute hyperglycemic complications for their correct therapeutic approach
- Learn to detect precipitating factors of acute hyperglycemic complications
- Acquire the knowledge and skills for the assessment of cardiovascular risk in the diabetic patient
- Learning how to screen for cardiovascular risk factors
- Identify other endocrinological entities with diabetes
- Acquire knowledge and skills to assess the social and psychological aspects of diabetes



### Module 14. Diabetes Complications. Classification

- Learn the etiopathogenic pathways of diabetes complications in order to understand the evolutionary course of these complications and their therapeutic targets
- Learn the classification of the chronic complications of diabetes according to whether the small vessels or large vessels are mainly affected and according to the organ affected
- Acquire epidemiological knowledge about diabetic nephropathy in order to be able to assess the importance of its prevention and diagnosis
- Learn the pathophysiological basis and risk factors involved in diabetic nephropathy
- Know the evolutionary stages of kidney disease and the current classification of kidney disease
- Know when and how screening for DN should be performed in the diabetic population
- Learn the specific treatments for DN
- Acquire epidemiological knowledge about DR in order to be able to assess the importance of its prevention and diagnosis
- Learn the pathophysiological basis and risk factors involved in DR
- Know the evolutionary stages of DR and its current classification
- Know when and how DR screening should be performed in the diabetic population
- Learn about specific DR treatments and new avenues of research in this field
- Acquire epidemiological knowledge about diabetic nephropathy in order to be able to assess the importance of its prevention and diagnosis
- Learn the pathophysiological basis and risk factors involved in diabetic neuropathy (NeuroD)
- Know the evolutionary stages of NeuroD and its current classification

### Module 15. Macrovascular complications of diabetes and other medical entities

- Deepen the current data on the epidemiology of macrovascular disease in diabetes
- Deepen the current data on the epidemiology of hypertension in diabetes
- Deepen the knowledge of 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

### tech 16 | Objectives

### Module 16. 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 17. 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 management of gestational diabetes
- Acquire the knowledge and skills necessary for the pharmacological management of gestational diabetes

### Module 18. 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 to 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...)

### Module 19. Diabetes in Special Situations

- Acquire the knowledge and skills for the expert management of the adolescent diabetes patient
- Acquire the knowledge and skills to provide guidance in the management of diabetes at the time of initiation of sexual relations
- Acquire the knowledge and skills to guide the patient with Diabetes who consumes alcohol. Learn the repercussions of alcohol on glucose metabolism in order to be able to warn and educate patients with diabetes
- Know how gender influences the control of diabetes from an integral point of view (glycemic control, risk factors and associated comorbidities)
- Know how the estrogenic deficit that occurs during menopause influences Diabetes control and how to prevent it
- Learning to identify the frail elderly, through screening tests
- Acquire the knowledge and skills to reprogram the pharmacological approach to the frail elderly patient with polypharmacy and comorbidities
- Acquire the knowledge and skills to detect these unfavorable socioeconomic situations in order to program patient management
- Know the legal aspects of the patient with Diabetes, since they condition their life, and, therefore, the control of diabetes

### Module 20. Diabetic Education. Concept and Fundamentals

• Acquire the necessary knowledge and skills of diabetes education, as part of the treatment of diabetes, to facilitate the knowledge, skill and ability necessary for self-management





### tech 20 | Skills



### **General Skills**

- Understand the characteristics of obesity and how it can affect the patient's daily life
- Help the patient to prevent diseases associated with obesity
- Perform appropriate management of patients with diabetes at any level of care
- Develop the necessary skills to become a professional in care, therapeutic education and research tasks in an ethical and independent manner, in specialized hospital care, primary care, home care or in universities or research centers
- Achieving excellence in health care services and multidisciplinary management of patients with diabetes



Our goal is very simple: to offer you a quality program with the best teaching system of the moment, so that you can achieve excellence in your profession"



### **Specific Skills**

- Analyze the different methods for assessing nutritional status
- Explain the role of the intestinal microbiota and its implications in diseases
- List the different causes of secondary obesity in relation to endocrinopathies and drugs
- Analyze advances in nutritional genomics, both in nutrigenetics and nutrigenomics
- Gain an in-depth understanding of obesity as a clinical condition and its historical evolution
- Correctly evaluate a patient with Obesity, throughout the different periods of life
- Identify the pathophysiological mechanisms linking hypertension and obesity
- Recognize the relationship between lipid disorders and obesity, especially atherogenic dyslipidemia
- Analyze peculiarities of obesity in women
- Insist on the interaction between obesity and type 2 diabetes mellitus
- Conduct a review of the evidence regarding carbohydrate and protein intake in the prevention and treatment of obesity
- Explain the methodology of a diet to maintain the lost weight
- Perform a functional assessment based on scientific evidence
- Identify exercises with low risk of injury for obese patients
- Obtain an overview of the contributions from the psychological area aimed at increasing the chances of success in multidisciplinary intervention in overweight and obesity

- Recognize the main comorbid psychiatric disorders associated with obesity and psychopathology related to eating disorders
- Analyze how its effect is controlled and the results that we can expect
- Recognize other drugs already marketed in other countries such as the United States
- Identify the appropriate technique for each patient
- Identify the possible reasons for urgency after bariatric surgery
- Know the classification of diabetes and the wide spectrum of etiologies that lead to its development
- Incorporate the concept of public health in Diabetes
- Acquire the knowledge and skills of insulin resistance measurement
- Studying the mediating role of inflammation between Obesity and Diabetes
- Acquire the necessary knowledge to transmit to the patient the priorities in the therapeutic approach
- Acquire the skills to know the patient's preferences, social, economic and cultural environment and expectations in the treatment of Diabetes
- Learn the classification of the chronic complications of diabetes according to whether the small vessels or large vessels are mainly affected and according to the organ affected
- Know when and how screening for DN should be performed in the diabetic population
- Learn the specific treatments for ND

- Deepen the current data on the epidemiology of hypertension in diabetes
- Acquire the knowledge and skills necessary for the screening of mood disorders, especially depression in diabetic patients
- 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
- Acquire knowledge of each of the families of antidiabetic drugs
- 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
- 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...)
- Know how gender influences the control of diabetes from an integral point of view (glycemic control, risk factors and associated comorbidities)
- Acquire the necessary knowledge and skills of diabetes education, as part of the treatment
  of diabetes, to facilitate the knowledge, skill and ability necessary for self-management





### tech 24 | Course Management

### Management



### Dr. Puigdevall Gallego, Víctor

- Doctor of Medicine and Surgery
- Specialist in Endocrinology and Nutrition
- Soria Hospital Complex
- Associate Professor in Valladolid University (academic courses 2005-2021)



### Dr. González Albarrán, Olga

- Degree in Medicine from the Autonomous University 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 Madric
- Master's Degree in Clinical Nutrition, Autonomous University of Madrid
- Master's Degree in Cardiovascular Risk from McMaster University. Ontario (Canada)
- Master's Degree in Management of Endocrinology Clinical Units, 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

#### Ms. Cepero Andrés, Ana Belén

- Degree in Psychology. Specialist in Clinical Psychology
- Soria Hospital Complex
- Associate Professor at the University of Valladolid (2009-2010) and at the Complutense University of Madrid (2014-2015)

#### 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

### Ms. García Lázaro, Sandra

- Graduate in Physiotherapy
- Soria Hospital Complex
- Associate Professor of Physiotherapy at the Faculty of Physiotherapy of Soria

### 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. Fernández Fernández, Luis

- Doctor of Medicine and Surgery
- Specialist in General Surgery
- Soria Hospital Complex

#### Dr. Laudo Pardos, Consuelo

- PhD in Medicine and Surgery
- Specialist in Family and Community Medicine
- Full-time Associate Professor and Assistant Professor at the University of Valladolid (academic years 1989-2016)

#### Dr. Ortega Sanchez, Higinio

- Degree in Medicine and Surgery
- Specialist in Endocrinology and Nutrition
- Marqués de Valdecilla Clinical University Hospital (Santander)

#### Dr. León Tellez, Marta

- Degree in Medicine and Surgery
- Specialist in Internal Medicine
- Soria Hospital Complex

### 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. Serrano Valles, Cristina

- Degree in Medicine and Surgery
- Specialist in Endocrinology and Nutrition
- Clinical University Hospital of Valladolid

### 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





### tech 28 | Structure and Content

### Module 1. Physiology of Appetite and Weight Control Pathophysiology

- 1.1. Energy Balance
- 1.2. Adequate Energy Intake: Estimation of Energy Expenditure
  - 1.2.1. Basal Metabolism
  - 1.2.2. Voluntary and Involuntary Physical Activity
  - 1.2.3. Total Energy Expenditure
- 1.3. Nutritional Assessment
  - 1.3.1 Dietary Surveys
- 1.4. Gastrointestinal Hormones in the Regulation of Body Weight
  - 1.4.1. Ghrelin
  - 1.4.2. Obestatin
  - 1.4.3. Cholecystokinin
  - 1.4.4. GLP-1 and Others
- 1.5. Leptin in Body Weight Regulation
- 1.6. Metabolic Signals and Weight Control
  - 1.6.1. Blood Sugar Levels
  - 1.6.2. Fats
- 1.7. Hypothalamic Control of Food Intake
- 1.8. Adipose Tissue as an Endocrine Organ
  - 1.8.1. Adipogenesis
  - 1.8.2. Fat Cell Function in Obesity
- 1.9. Gut Microbiota and its Influence on the Development of Obesity
- 1.10. Healthy Nutrition

### Module 2. Etiopathogenesis of Obesity

- 2.1. Genetic Factors of Obesity
  - 2.1.1. Monogenic Obesity
  - 2.1.2. Polygenic Obesity
- 2.2. Epigenetics of Obesity
- 2.3. Secondary Obesity
  - 2.3.1. Endocrinopathy
  - 2.3.2. Drugs

- 2.4. Nutritional Genomics
  - 2.4.1. Nutrigenetics
  - 2.4.2. Nutrigenomics
- 2.5. Environmental Factors and Obesity (i): Changes in Eating Pattern
- 2.6. Environmental Factors and Obesity (ii): Changes in Physical Activity
- 2.7. Endocrine Disruptors: Obesogens
- 2.8. Socioeconomic Status and Obesity. Environment and Obesity
- 2.9. Chronodisruption and Obesity
- 2.10. Sarcopenic Obesity

### Module 3. History Definition. Diagnosis and Classification. Epidemiology

- 3.1. Definition. Obesity through the Ages
- 3.2. Diagnosis
  - 3.2.1. Body Mass Index
  - 3.2.2. Waist Circumference
  - 3.3.3. Body Composition
- 3.3. Classification Based on Impact of Disease
  - 3.3.1. ABCD
  - 3.3.2. Edmonton Obesity Staging System
- 3.4. Epidemiology of Childhood Obesity
- 3.5. Epidemiology of Adult Obesity
- 3.6. Phenotypic Characterization of Obese Patients
  - 3.6.1. Body composition
  - 3.6.2. Energy Expenditure
  - 3.6.3. Associated Comorbilities
  - 3.6.4. Compulsive Score
- 3.7. Epidemiology of the Complications
- 3.8. Obesity in Different Stages of Life
- 3.9. Metabolically Healthy Obese People
- 3.10. New Technologies in Obesity Management

### Module 4. Comorbidities of Obesity

- 4.1. Diabetes Mellitus Type 2 and Obesity
  - 4.1.1. Diabesity
  - 4.1.2. Pathophysiology
  - 4.1.3. Prediabetes
- 4.2. Arterial Hypertension and Obesity
  - 4.2.1. Mechanisms
- 4.3. Dyslipidemia and Obesity
  - 4.3.1. Atherogenic Dyslipidemia
  - 4.3.2. Pathogenesis
- 4.4. Metabolic Syndrome. Heart Disease. Peripheral Vascular Disease and Peripheral Venous Insufficiency
  - 4.4.1. Diagnostic Criteria in Metabolic Syndrome
- 4.5. Obesity and Cancer
  - 4.5.1. Molecular Mechanisms
- 4.6. Respiratory Disorders and Obesity
  - 4.6.1. Apnea-hypopnea Syndrome Associated with Obesity
  - 4.6.2. Obesity Hypoventilation Syndrome
  - 4.6.3. Bronquial Asthma
- 4.7. Digestive Diseases and Obesity
  - 4.7.1. Non-alcoholic Steatohepatitis
  - 4.7.2. Gastroesophageal Reflux Diseases
  - 4.7.3. Colelitiasis
- 4.8. Gonadotropic Axis and Obesity
- 4.9. Other Pathologies Associated to Obesity (articular, etc.)
- 4.10. Obesity and the COVID-19 Pandemic

### Module 5. Prevention of Obesity and its Comorbidities

- 5.1. Childhood Obesity
- 5.2. Prevention of Childhood Obesity: (i) Importance of Physical Exercise
- 5.3. Prevention of Childhood Obesity: (Ii) Importance of Education and Treatment
- 5.4. Women and Weight Control
- 5.5. Strategies for the Prevention of Overweight and Obesity
  - 5.5.1. International Strategies
- 5.6. The Heart and Diabetes
  - 5.6.1. Evaluation of Cardiovascular Risk
- 5.7. Basis of the Therapeutic Approach
- 5.8. Multidisciplinary Team in the Treatment of Obesity
- 5.9. Health Systems Costs of Obesity
- 5.10. Cities and Obesity: Cities Alliance Against Obesity

### Module 6. Dietary Treatment of Obesity

- 6.1. Carbohydrates and Proteins in the Prevention and Treatment of Obesity
- 6.2. Dietary Fat and its Role in Body Weight Regulation
- 6.3. Balanced Low-Calorie Diet. Eating Patterns
  - 6.3.1. Nutrient Distribution
- 6.4. Exchange Diet
  - 6.4.1. Plan
  - 6.4.2. Menus
- 6.5. The Mediterranean Diet: Prevention and Treatment of Obesity
  - 6.5.1 PREDIMED
- 6.6. Food Groups: 'Light' and Functional Foods
- 6.7. Magic or Miracle Diets
  - 6.7.1. Dissociated Diets
  - 6.7.2. Exclusion Diets
  - 6.7.3. Fasting Diet
- 6.8. Very Low-Calorie Diet
- 6.9. Diets and Maintaining Weight Lost
- 6.10. Diet in the Treatment of Comorbidities

### tech 30 | Structure and Content

### Module 7. Physical Activity and Obesity

- 7.1. Influence of Physical Activity on Energy Balance
- 7.2. Functional Assessment of an Obese Patient
  - 7.2.1. Motor Skills
  - 7.2.2. Flexibility
  - 7.2.3. Muscular Strength
  - 7.2.4. Cardio-respiratory
- 7.3. Functional Assessment of Obesity Comorbidities
- 7.4. Quantification of Physical Activity (Questionnaires, Records, etc.)
- 7.5. Types of Physical Exercise in the Treatment of Obesity
  - 7.5.1. Aerobic
  - 7.5.2. HIIT
  - 7.5.3. Strength Training
- 7.6. Principles of Physical Exercise
  - 7.6.1. Frequency (F)
  - 7.6.2. Duration
  - 7.6.3. Intensity
- 7.7. Physical Activity in Childhood and Adolescence in the Prevention of Overweight and Obesity
- 7.8. Physical Activity: Guidelines and Consensus
- 7.9. Cardio-respiratory Rehabilitation and Mechanics of Obese Patients. Rehabilitation after Bariatric Surgery
- 7.10. Importance of Physical Activity in Maintaining Weight

### Module 8. Psychological and Psychiatric Aspects of Obesity

- 8.1. Body Image, Social Stereotypes and Stigmatization of Obesity
  - 8.1.1. Obesity Throughout History
  - 8.1.2. Dieting and the Slimming Industry
- 8.2. Role of Emotional Factors, Anxiety Disorders, Mood Disorders and ADHD in Obesity
  - 8.2.1. Eating to Alleviate Psychological Distress
  - 8.2.2. Anxiety
  - 8.2.3. Depression
  - 8.2.4. ADHD
  - 8.2.5. Other Psychological Factors



- 8.3. Disorders of Eating and Eating Behavior and Food Intake (DSM 5)
  - 8.3.1. Snacking
  - 8.3.2. Rumination Disorder
  - 8.3.3. Food Avoidance/Restriction of Food Intake Disorder
  - 8.3.4. Anorexia Nervosa
  - 8 3 5 Bulimia Nervosa
  - 8.3.6. Binge Eating Disorder
  - 8.3.7. Other Conditions: Night Eating Syndrome
- 8.4. Explanatory Models, Differential Diagnosis and Management of Eating Disorders Comorbid to Obesity
  - 8.4.1. Obesity, Binge Eating Disorder and the Theory of Dietary Restraint
- 8.5. Techniques to Promote Motivation to Change
  - 8.5.1. Importance of the Therapeutic Relationship
  - 8.5.2. Transtheoretical Model of Prochaska and DiClemente
  - 8.5.3. Motivational Interview of Miller and Rollnick
- 8.6. Psychological Assessment in Bariatric Surgery
  - 8.6.1. Areas of Evaluation and Contraindications
- 8.7. Psychological Intervention in the Treatment of Obesity in Adults
  - 8.7.1. Cognitive-Behavioural Treatment Program. Effective Techniques
  - 8.7.2. Relapse Prevention
- 8.8. Treatment Programs in Group Format
  - 8.8.1. Intervention Focused on Cognitive Distortions
  - 8.8.2. Self-Help Groups
- 8.9. Psychological Intervention in Childhood Obesity
  - 8.9.1. Habit and Behaviour Modifications
- 8.10. Obesity and Eating Disorders Prevention
  - 8.10.1. Early Identification of Risk Factors
  - 8.10.2. Prevention Workshops

### Module 9. Pharmacological Treatment of Obesity

- 9.1. Orlistat
  - 9.1.1. Xendos Study
- 9.2. Liraglutide
  - 9.2.1. Scale Study
- 9.3. Naltrexone/Bupropion
  - 9.3.1. COR Study
- 9.4. Anti-obesity Drugs: When to Use Them and How Long to Use Them
  - 9.4.1. Treatment Algorithms
- 9.5. Commercialized Drugs in Europe
- 9.6. Non-Commercialized Drugs in Europe
- 9.7. Drugs Causing Unintentional Weight Loss
- 9.8. Miracle Drugs
- 9.9. Future Treatments for Obesity
- 9.10. Pharmacokinetic Modifications in the Obese Patient Before and After Bariatric Surgery

### Module 10. Surgical Treatment of Obesity

- 10.1. Evidence Levels
- 10.2 Indications and Contraindications
- 10.3. Preoperative Evaluation and Patient Selection
- 10.4. Surgical Techniques
  - 10.4.1. Malabsorptive
  - 10.4.2. Restrictive
  - 10.4.3. Mixed
- 10.5. Metabolic and Adaptive Surgery
- 10.6. Complications of Bariatric Surgery
- 10.7. Emergencies in Bariatric Surgery
- 10.8. Postoperative Aftercare
- 10.9. Gestation After Bariatric Surgery
- 10.10. Future of Bariatric Surgery

### tech 32 | Structure and Content

### Module 11. The Concept of Diabetes. Epidemiology

- 11.1. Diabetes Historical Recollection
- 11.2. Classification of Diabetes and Other Categories of Glucose Intolerance
- 11.3. Gestational Diabetes
- 11.4. Diabetes and Genetic Syndromes
- 11.5. Diabetes and Exocrine Pancreatic Diseases
- 11.6. Pharmacological Diabetes
- 11.7. Epidemiology of Type 1 Diabetes
- 11.8. Epidemiology of Type 2 Diabetes
- 11.9. Type 2 Diabetes and Prediabetes Screening
- 11.10. Diabetes and Population Health

### Module 12. Pathophysiology of Diabetes

- 12.1. Normal Anatomy and Physiology of Pancreatic Function. Glucose Homeostasis
- 12.2. Pathogenesis of Type 1 Diabetes
- 12.3. Pathogenesis of Type 2 Diabetes. Overview
- 12.4. Role of Adipose Tissue in Type 2 Diabetes. Concept of Insulin Resistance
- 12.5. Implications of Intestinal Hormones in the Pathophysiology of Diabetes: Incretin System. Intestinal Microbiota
- 12.6. Implications of the Kidney in the Pathophysiology of Diabetes
- 12.7. The Central Nervous System and the Pathophysiology of Diabetes
- 12.8. Diabetes and Genetics
- 12.9. Diabetes and Delay or Prevention of DM1
- 12.10. Diabetes and Delay or Prevention of DM2

#### Module 13. Evaluation of Diabetes and its Comorbidities

- 13.1. Patient-Centered. Facilitating Behavioral Change in Patients with Diabetes
- 13.2. Glycemic Control Objectives
- 13.3. Hypoglycemia
- 13.4. Diabetes and Hyperglycemic Decompensations: CAD
- 13.5. Diabetes and Hyperosmolar Hyperglycemic Decompensation
- 13.6. Diabetes and Infections
- 13.7. Cardiovascular Risk Assessment in Diabetic Patients
- 13.8. Diabetes and Endocrine Diseases
- 13.9. Psychological and Social Aspects of Diabetes

### Module 14. Diabetes complications. Classification

- 14.1. Classification of Diabetes Complications and their Impact on the Person with Diabetes
- 14.2. Pathophysiology of Microvascular Complications
- 14.3. Pathophysiology of Macrovascular Complications
- 14.4. Diabetic Retinopathy
- 14.5. Diabetic Neuropathy
- 14.6. Diabetic Nephropathy
- 14.7. Periodontal Disease
- 14.8. Erectile Dysfunction
- 14.9. Diabetic Dermatopathy
- 14.10. Diabetic Foot

### **Module 15.** Macrovascular Complications of Diabetes and Other Medical Entities

- 15.1. Epidemiology of Macrovascular Disease in Diabetes
- 15.2. Epidemiology of Hypertension and Dyslipidemia in Diabetes
- 15.3. Diabetes and Heart
- 15.4. Cerebrovascular Disease in Diabetes
- 15.5. Peripheral Arterial Disease
- 15.6. Effects of Glycemic Control on Cardiovascular Events in Patients with Diabetes
- 15.7. Diabetes and Hepatic Steatosis/Steatohepatitis
- 15.8. Diabetes and Lung Disease
- 15.9. Diabetes and Cancer
- 15.10. Diabetes and Depression

### Module 16. Diabetes Management (I)

- 16.1. Introduction to Comprehensive Diabetes Management
- Management of Obesity in Diabetes and Prediabetes. Metabolic Surgery for Diabetes Treatment
- 16.3. Treatment of Risk Factors: Hypertension in Diabetes, Dyslipidemia
- 16.4. Treatment of Risk Factors: Tobacco use
- 16.5. Nutrition in Type 1 Diabetes

### Structure and Content | 33 tech

- 16.6. Nutrition in Type 2 Diabetes
- 16.7. Exercise as Part of Diabetes Treatment
- 16.8. Conventional Treatment of Type 1 Diabetes
- 16.9. Non-Conventional Treatment of Type 1 Diabetes. Pancreatic Islet Transplant. Pancreas Transplant
- 16.10. National and International Guidelines and Consensus on the Management of Type 2
  Diabetes

### Module 17. Diabetes Management (II)

- 17.1. Metformin
- 17.2. Sulfonylureas and Glinides
- 17.3. Acarbose and Thiazolidines
- 17.4. Glycosurics
- 17.5. DPP4 Enzyme Inhibitors
- 17.6. GLP-1 Receptor Agonists
- 17.7. Recap. Prandial Insulins. Basal Insulins
- 17.8. New Treatments in Research
- 17.9 Steroid Diabetes Treatment
- 17.10. Treatment of Gestational Diabetes

### Module 18. Diabetes and Technology

- 18.1. Overview of the Use of Technology in Diabetes
- 18.2. Capillary Glycemia Self-Monitoring
- 18.3. Continuous Glucose Monitoring. Glucose Sensors
- 18.4. Insulin and Injection Devices. Insulin Pumps
- 18.5. Artificial Pancreas
- 18.6. Use of Technology in Diabetes in Pregnancy
- 18.7. Use of Technology in Diabetes in Infancy
- 18.8. Diabetes and Big Data
- 18.9. Diabetes and Internet (Web, Apps...)
- 18.10. New Ways to Care for the Diabetes Patient

### Module 19. Diabetes in Special Situations

- 19.1. Diabetes in Childhood and Adolescence
- 19.2. Diabetes, Alcohol and Sexual Relationships
- 19.3. Diabetes in Women
- 19.4. Diabetes in the Elderly and in the Institutionalized Patient
- 19.5. Diabetes and Sports
- 19.6. Diabetes in the Hospitalized Patient
- 19.7. Diabetes and Travel
- 19.8. Diabetes and Work Life/Rural
- 19.9. Socioeconomic Aspects of Diabetes
- 19.10. Legal Aspects of Diabetes

### Module 20. Diabetic Education. Concept and Fundamentals

- Diabetic Education. Concept. Assessment of the Educational Needs of the Person with Diabetes
- 20.2. Diabetology Education Training Programs
- 20.3. Education and Competencies in People with Type 1 Diabetes
- 20.4. Education and Competencies in People at Risk of Type 2 Diabetes or with Type 2 Diabetes
- 20.5. Therapeutic Education of the Child and Adolescent, their Parents or Caregivers
- 20.6. Therapeutic Education for the Detection of Foot Risk in People with Diabetes
- 20.7. Impact of the "Expert Patient" Program on Diabetology Education
- 20.8. Impact of Patients' Associations
- 20.9. Ethical Aspects in Diabetes Education
- 20.10. Challenges in Chronic Monitoring. Barriers to Adherence and Therapeutic Inertia





### tech 36 | 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 Harvard 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 | 39 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 40 | 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**

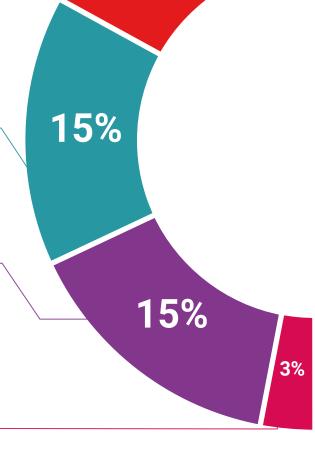
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many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

17% 7%

### **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 your goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts: The system termed Learning from an Expert strengthens knowledge and recall capacity, and generates confidence in the face of difficult decisions in the future.



#### **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 44 | Certificate

This **Advanced Master's Degree in Obesity and Diabetes** contains the most complete and updated program on the market.

After the student has passed the evaluations, they will receive their corresponding **Advanced Master's Degree** issued by **TECH Technological University** by tracked delivery\*

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

Title: Advanced Master's Degree in Obesity and Diabetes

Official No of hours: 3,000 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.

salud confianza personas
salud confianza personas
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comunidad compromiso.



# Advanced Master's Degree Obesity and Diabetes

- » Modality: online
- » Duration: 2 years
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

