

Postgraduate Certificate

Physical Activity and Obesity





Postgraduate Certificate Physical Activity and Obesity

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/physical-activity-obesity

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01

Introduction

Physical Activity and Obesity is a fundamental pillar in life. Its objective is to achieve weight loss that is maintained over time in order to reduce the health risks among overweight and obese patients.

With this specialization you will learn the latest techniques and innovations for Physical Activity and Obesity. A unique opportunity to specialize with renowned specialists in the sector.





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*Improve the quality of care for your patients
with this innovative specialization in Obesity”*

Obesity, the true epidemic of the 21st century until the arrival of COVID-19, represents a major global health problem. The WHO estimates that it could affect 650 million people worldwide, with a mortality rate of some 2.8 million people each year.

It is a heterogeneous syndrome whose pathophysiology and etiopathogenesis (genetics, epigenetics, new hormonal control mechanisms, nutrigenomics, microbiomics, etc.) are continuously advancing. These advances are allowing us to better understand the factors that affect the processes involved in energy homeostasis and in the development of obesity.

Obesity is a permanent focus of concern due to the ever increasing number of cases and the related comorbidities. These lead to a significant increase in death, especially from cardiovascular illnesses and cancer. Furthermore, the various medical and surgical treatments available and the exponential increase in health care costs related to obesity, also makes it a 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.

Professionals should know how to correctly diagnose obesity and the associated complications and propose appropriate treatment strategies for the three main areas of action: nutrition, physical exercise and attitudes towards food. Drugs and bariatric surgery may be added to this list for patients who demonstrate appropriate indications for such treatments.

In the last decade, there have been enormous advances in the understanding of obesity. This has brought Precision Medicine to the forefront of treatment, requiring the professional to be adequately prepared to provide new therapeutic responses. The enormous development of new technologies such as health apps, brought about by COVID-19, allows patient empowerment and decision support.

This **Postgraduate Certificate in Physical Activity and Obesity** contains the most complete and up-to-date educational program on the market. The most important features of the specialization are:

- ♦ Practical cases presented by experts in Obesity
- ♦ 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.
- ♦ The latest information on Obesity
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ A special emphasis on innovative methodologies in Obesity
- ♦ 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 training is the best option you can find to specialize in Physical Activity and Obesity”

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This course is the best investment you can make when selecting a refresher program for two reasons: In addition to updating your knowledge of Obesity, you will obtain a qualification endorsed by TECH Global University”

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

Its Multimedia Content, elaborated with the latest Educational Technology, will allow the Professional a situated and contextual learning, that is to say, a Simulated Environment that will provide an immersive specialization 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 Obesity 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 combine your studies with your professional work while increasing your knowledge in this field.



02 Objectives

The course in Physical Activity and Obesity is designed to facilitate the performance of medical professionals by providing them with the latest advances and the most innovative treatments in the sector.



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



General Objective

- Update the physician's knowledge on 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 child and adult pathologies, where nutrition plays a fundamental role in treatment.
- Encourage the learning of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online workshops for simulation and/or specific specialization.
- Encourage professional stimulation through continued specialization and research.



An opportunity created for professionals who are looking for an intensive and effective course with which to take a significant step forward in the practice of their profession"





Specific Objectives

- ♦ Gain a deep understanding of the concepts related to physical activity
- ♦ Perform a functional assessment based on scientific evidence
- ♦ Establish a physical activity program based on assessment
- ♦ Understand the different types of physical activity programs most suitable for each age group and physical condition
- ♦ Identify exercises with low risk of injury for obese patients.
- ♦ Physical activity as a habit to prevent obesity
- ♦ Physiotherapeutic approach in comorbidities of obesity and its importance in the treatment of these
- ♦ Gain deeper understanding of the work of a physiotherapist and the surgical approaches to treating obesity (pre and post surgery)

03

Course Management

The program's teaching staff includes leading experts in Obesity who contribute their expertise to this specialization. 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 Obesity”

ALTHY

OOD

International Guest Director

Considered as a reference in the treatment of **Metabolic Diseases** and **Obesity**, Dr. Samuel Szomstein is a prestigious **surgeon** who accumulates an extensive professional background of more than 25 years. In this way, he has been part of renowned institutions such as the Cleveland Clinic in the United States, where he has significantly optimized the quality of life of many patients with chronic disorders such as **Diabetes**.

Among his main achievements, his role as **Director of the Institute of Advanced Laparoscopic and Bariatric Surgery** stands out. Under his leadership, this institution has been a pioneer in the use of **minimally invasive techniques**, which has improved the patient experience by promoting a faster recovery. At the same time, these methods have considerably reduced the risk of additional complications such as infection, postoperative anemia and deep vein thrombosis. In this sense, it has contributed to the training of **70 professionals**, who have subsequently carried out more than **6,000 bariatric interventions** to treat excess weight.

On the other hand, he has balanced this work with his facet as a **Clinical Researcher**. In fact, he has published 25 chapters of specialized books and 280 scientific articles on subjects such as **new technologies** to enhance the safety of surgical procedures. In turn, his meticulous studies on the impact of Bariatric Surgery have allowed him to develop advanced strategies to optimize the **mental and physical well-being** of individuals after their operations.

In his commitment to healthcare excellence, he has participated in various international conferences to share the latest therapeutic advances in matters such as the most innovative **laparoscopic techniques** to reduce pain or the use of **robotics** in order to visualize in detail the anatomy of the users. This has made it possible for specialists to acquire a **multidisciplinary approach** to increase the effectiveness of their clinical results.



Dr. Szomstein, Samuel

- Director of the Institute for Metabolic and Bariatric Surgery at Cleveland Clinic, United States
- President of the International Committee of the American Society for Metabolic and Bariatric Surgery
- General Surgery Residency at Long Island Jewish Medical Center, United States
- Residency in General Surgery at New York Hospital Medical Center of Queens, United States of America
- Medical Degree from the Central University of Venezuela
- Member of: Committee of the International Federation for the Surgery of Obesity and Metabolic Disorders, Bariatric Surgical Practice and Patient Care, Iberoamerican Bariatric and Metabolic Surgery, Editorial Board of Bariatric Times

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Thanks to TECH, you will be able to learn with the best professionals in the world”

Management



Dr. Puigdevall Gallego, Víctor

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

Professors

Ms. García Lázaro, Sandra

- ♦ Specialist in Endocrinology and Nutrition in Soria Hospital Complex.
- ♦ Associate Professor of Physiotherapy in the Faculty of Physiotherapy of Soria.



04

Structure and Content

The structure of the content has been designed by leading professionals in the Obesity 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.





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

Module 1. Physical Activity and Obesity

- 1.1. Influence of Physical Activity on Energy Balance.
- 1.2. Functional Assessment of an Obese Patient.
 - 1.2.1. Motor Skills.
 - 1.2.2. Flexibility.
 - 1.2.3. Muscular Strength.
 - 1.2.4. Cardio-respiratory.
- 1.3. Functional Assessment of the Comorbidities of Obesity.
- 1.4. Quantification of Physical Activity (Questionnaires, Records, etc.).
- 1.5. Types of Physical Exercise in Obesity Treatment.
 - 1.5.1. Aerobic.
 - 1.5.2. HIIT.
 - 1.5.3. Strength Training.
- 1.6. Principles of Physical Exercise.
 - 1.6.1. Frequency (F)
 - 1.6.2. Duration
 - 1.6.3. Intensity
- 1.7. Physical Activity in Childhood and Adolescence in the Prevention of Overweight and Obesity.
- 1.8. Physical Activity: Guidelines and Consensus.
- 1.9. Cardio-respiratory Rehabilitation and Mechanics of Obese Patients. Rehabilitation after Bariatric Surgery.
- 1.10. Importance of Physical Activity in Maintaining Weight.





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This specialization 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 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.



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.

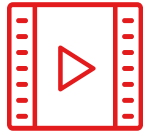
Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

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

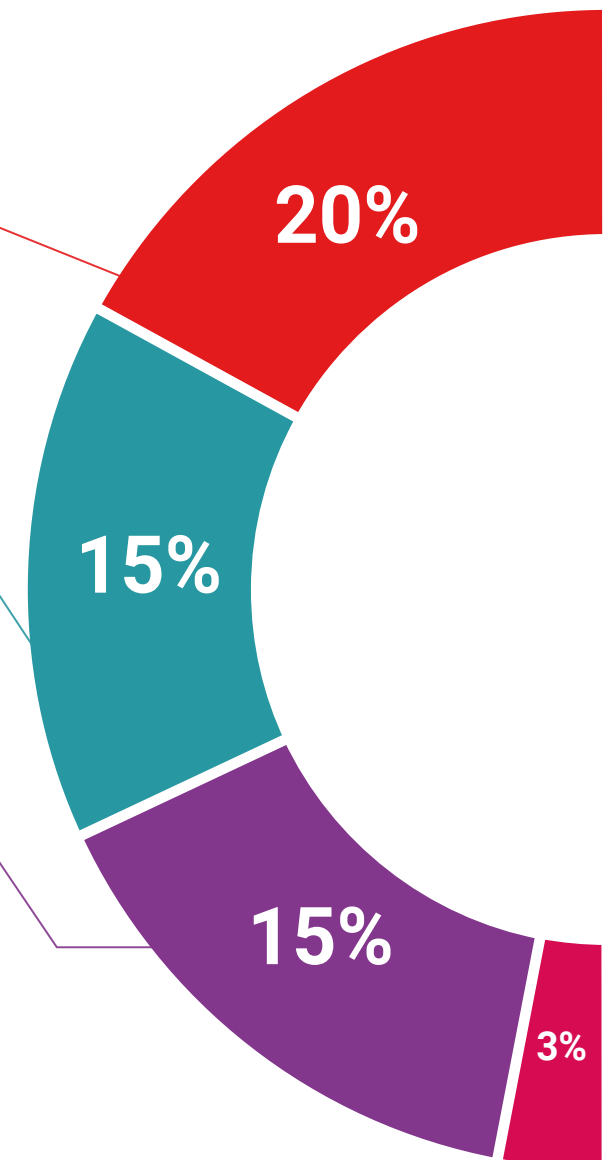
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

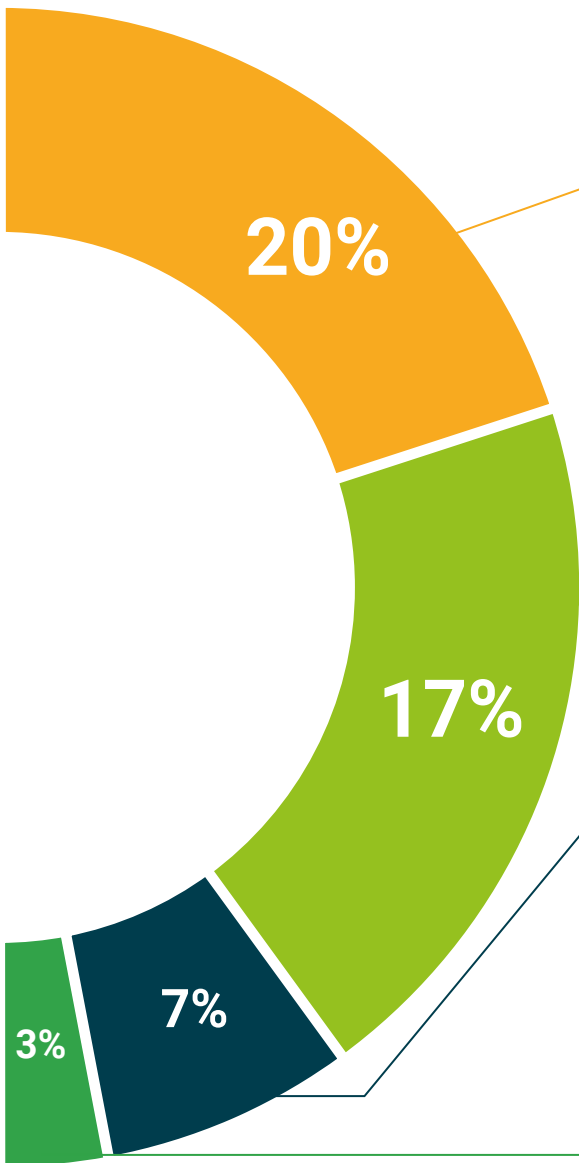
This exclusive multimedia content presentation training Exclusive system was awarded by Microsoft as a "European Success Story".



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.





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.



06 Certificate

The Postgraduate Certificate in Physical Activity and Obesity guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Certificate in Physical Activity and Obesity** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Physical Activity and Obesity**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



health future
confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service international
knowledge present quality
online time management
development languages
virtual classroom



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