

Postgraduate Certificate

Endocrinology in the Complex Chronic Patient





Postgraduate Certificate Endocrinology in the Complex Chronic Patient

- » 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/endocrinology-complex-chronic-patient

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01

Introduction

According to World Health Organization estimates, some 463 million adults suffer from Diabetes. Most of them are chronic patients, so it is related to other medical conditions such as arterial hypertension. In this sense, Endocrinology specialists need to delve into the clinical histories of their patients in order to make correct diagnoses. At the same time, they must manage the most innovative methods for the therapeutic approach, using the latest technology. Only in this way can they guarantee their patients the most personalized care with the necessary clinical excellence. For this reason, TECH provides an advanced 100% online program that includes in its syllabus the latest strategies for the detection and management of endocrinological pathologies.





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You will expand your knowledge on the application of vitamins and trace elements in comorbid patients for the prevention of deficiencies. Bet on TECH and enroll now!"

The increase in life expectancy has led to a greater aging of the population which, in turn, has resulted in a high incidence of endocrinological pathologies. Bearing in mind that the endocrine system is responsible for regulating various functions of the organism, its alteration can cause damage at multiple levels. This will depend on different factors, among which genetics, age and gender stand out. However, early detection can make a big difference in improving the quality of life of Complex Chronic Patients.

In this context, TECH implements a pioneering program aimed at physicians who wish to specialize in the management of chronic endocrine pathologies and nurture their procedures with the most modern therapeutic tools. In this way, the curriculum delves into the various interventional strategies for conditions such as hormonal changes, Bocytois, Hypocalcemia, Obesity or Adrenal Insufficiency. Likewise, the didactic materials emphasize the collaboration between patients and health personnel in order to achieve their short and long term recovery goals. On the other hand, the syllabus delves into the Malnutrition associated with these conditions and will offer keys to supplementation with vitamins or trace elements.

It should be noted that TECH offers a 100% online academic platform, adapted to the needs of working professionals seeking to advance their careers. Likewise, it employs the *Relearning* methodology to fix knowledge and facilitate the acquisition of skills. The only thing graduates will need is a device with Internet access to access the Virtual Campus. There they have at their fingertips both the syllabus and a library full of multimedia resources such as interactive summaries, explanatory videos and infographics to strengthen their knowledge in a dynamic way.

This **Postgraduate Certificate in Endocrinology in the Complex Chronic Patient** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Complex Chronic Patients
- ♦ 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
- ♦ Practical exercises where the process of self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ 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



You will develop effective treatments against Sarcopenic Obesity, with non-pharmacological therapies, after completing this TECH program"

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Looking to make therapeutic approaches that reduce side effects in older patients? Get it through this 6-week Postgraduate Certificate program"

The program's teaching staff includes professionals from the sector who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will be highly prepared to address the acute and chronic complications derived from Hyperglycemia with this 100% online course.

TECH's Relearning methodology will allow you to enjoy an exclusive, flexible and effective academic experience.



02

Objectives

This Postgraduate Certificate will enable physicians to address the risk factors involved in the complications of endocrinological diseases such as diabetes. In this way, they will develop strategies aimed at both prevention and minimization of its effects. In addition, they will incorporate into their medical practice useful tools to improve adherence to treatments in the face of the polypharmacy to which citizens may be subjected. On the other hand, specialists will acquire a broad knowledge about oral or parenteral supplementation according to the most prevalent pathologies in patients at risk of malnutrition.



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Get up to date on how to improve the adherence of Complex Chronic Patients through state-of-the-art drugs and changes in their lifestyles"



General Objectives

- ♦ Examine the medical problems common to most chronic and complex patients
- ♦ Present complementary therapies to the pharmacological approach
- ♦ Delve into the legal basis and bioethical aspects of the care of patients with chronic illnesses
- ♦ Provide a rationale for the Comprehensive Geriatric Assessment (CGA) as a set of tools that allow a diagnostic approach to the complex chronic patient
- ♦ Analyze the main Geriatric Syndromes and their clinical and social importance
- ♦ Assess the incidence and prevalence of nephro-urological diseases in chronic patients
- ♦ Analyze gastrointestinal diseases in patients with chronic medical conditions
- ♦ Investigate, analyze and propose comprehensive strategies for understanding and improving the management of infectious diseases in patients with complex chronic pathology
- ♦ Adequately define endocrinological pathology in chronic and complex patients
- ♦ Seek strategies that improve the patient's quality of life, minimizing the limitations imposed by the disease and its treatments
- ♦ Develop comprehensive care strategies that respond to patients' needs and improve their quality of life
- ♦ Delve into different models of health care for complex chronic patients





Specific Objectives

- Identify and address risk factors involved in diabetes-related complications and prevent or minimize their impact
- Analyze the influence of polypharmacy in the development of endocrinological complications and develop strategies to address them
- Expand knowledge about oral or parenteral supplementation according to the most prevalent pathology in the individual

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You will be able to access the Virtual Campus at any time and download the contents to consult them whenever you wish”

03

Course Management

For the development of this Postgraduate Certificate, TECH offers students a teaching team of international prestige. These specialists have extensive professional experience and are active specialists in highly renowned hospitals. In addition, they are characterized by having a deep knowledge about clinical care in Complex Chronic Patients. In this way, students have the guarantees they require to update their competencies and acquire advanced skills in the development of quality health services.



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You will have the support of a teaching staff formed by distinguished professionals in Endocrinology”

International Guest Director

Awarded by the American Society of Addiction Medicine for his research in this field, Robert W. Kirchoff is considered a prestigious physician specialized in the approach to Substance Use Disorders. In this sense, he has developed most of his career in health institutions of international reference, such as the Mayo Clinic Hospital in Minnesota or the Saint Joseph Mercy Health System in Michigan.

Among his main achievements, his great contribution to the foundation of the Laboratory of Informatics and Machine Learning stands out. In this way, he has contributed significantly to the improvement of hospital resources through Predictive Analytics. He has also used this technological tool belonging to Artificial Intelligence to identify patients at risk of drug dependence and relapse. As a result, it has enabled numerous users to acquire advanced coping strategies in order to avoid drug use.

It should be noted that he balances this work with his facet as a clinical researcher. In this regard, he has an extensive production on subjects such as the applications of Big Data to the field of medicine, the most innovative pharmacological treatments to combat alcohol addiction, translational informatics applied to individuals with psychological disorders, techniques to prevent drug abuse or cutting-edge methodologies for the treatment of drug addiction.

On the other hand, in his firm commitment to the advancement of medical technology, he regularly participates as a speaker at scientific congresses and symposiums on an international scale. Thanks to this, he has facilitated the health community to have a greater knowledge of drug-assisted therapies for chemical dependency. In turn, he has enabled specialists to acquire the skills to get the most out of Clinical Bioinformatics and to optimize both their diagnostics and disease management considerably.



Dr. Kirchoff, Robert W.

- President for Research at Mayo Clinic Hospital in Minnesota, United States
- Medical Director at Foundations Detroit
- President of the American Society for Addiction Medicine
- Founder of the Laboratory of Informatics and Machine Learning at Mayo Clinic Hospital
- Attending Physician at Saint Joseph Mercy Health System in Michigan
- Master of Science in Medical Informatics from The Johns Hopkins University School of Medicine
- Bachelor of Arts, Biology and Chemistry from Albion College
- Internal Medicine Resident Physician at Wayne State University School of Medicine
- General Surgery Residency at Mayo Clinic Hospital
- Board Certified by the American Board of Internal Medicine
- Fellow of the American Board of Preventive Medicine



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

Management



Dr. Romero Pareja, Rodolfo

- Specialist in Family and Community Medicine
- Medical Director at the Emergency Hospital Nurse Isabel Zendal
- Area Physician, Emergency Department, at the University Hospital of Getafe
- Collaborator of working groups in programs of Medicine; Health Management and Planning for Health Managers; and Emergency and Critical Care
- Doctor of Medicine, University of Oviedo
- Master's Degree in Emergency Medicine from the Complutense La University of Madrid
- Master in Medical Management and Clinical Management by the National School of Health, Instituto Salud Carlos III and Universidad Nacional Educación a Distancia
- Degree in Medicine and Surgery from the Complutense University of Madrid



Dr. Tejedor López, Luis

- ♦ Specialist in Geriatrics
- ♦ Specialist Physician in Geriatrics, Emergency Hospital Nurse Isabel Zandal
- ♦ Medical Case Manager. HealthMotiv S.L
- ♦ President of the MIR Association Spain
- ♦ Master's Degree in Support Treatment and Palliative Care in Oncology Patients, Isabel I University
- ♦ MBA in Health Management and Administration from the European School of Health Education
- ♦ Medical Specialist in Geriatrics via MIR
- ♦ Degree in Medicine from the University of Navarra

Professors

Dr. Casillas Ramos, Nazaret

- ♦ Specialist in Internal Medicine
- ♦ Specialist Physician in Internal Medicine in the Functional Rehabilitation Unit of the Emergency Hospital Nurse Isabel Zandal
- ♦ Specialist in Internal Medicine, Hospitalization Area and Internal Medicine Consultations, at the Virgen de la Luz Hospital in Cuenca
- ♦ Doctor of Medicine from the University of Castilla La Mancha
- ♦ Master in Diabetes in Clinical Practice, University of Barcelona
- ♦ Master in Systemic Autoimmune Diseases by TECH Global University
- ♦ Medical Degree from the University of Extremadura

04

Structure and Content

This Postgraduate Certificate will address in detail the chronic endocrine diseases that most affect the public, among which Cushing's Syndrome or Hyperprolactinemia stand out. Throughout a complete module, the syllabus will break down their main clinical manifestations and diagnostic methods. In this way, students will be able to carry out the pertinent therapeutic management, while following up on the evolution of the patients' clinical condition. The program will also emphasize the importance of personalized care, in which there is active collaboration between the patients and the health care team.





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A syllabus developed by specialists and top level didactic material are the key to a successful professional career: at TECH you will find it”

Module 1. Endocrinology and Nutrition in the Complex Chronic Patient

- 1.1. Endocrinology Pathology in the Complex Chronic Elderly Patient
 - 1.1.1. Hormonal Changes Associated with Aging in the Complex Chronic Elderly Patient
 - 1.1.2. Management of Aging Associated with Pathology in the Complex Chronic Patient
 - 1.1.3. Diagnostic Approach in the Complex Patient
- 1.2. Hypothalamic Pathology in the Complex Chronic Patient
 - 1.2.1. Management of Hypopituitarism in the Complex Chronic Patient
 - 1.2.2. Management of Hyperprolactinemia in the Complex Chronic Patient
 - 1.2.3. Inadequate ADH Secretion
- 1.3. Gonadal Pathology in the Complex Chronic Patient
 - 1.3.1. Management of Hypogonadism. in the Complex Older Patient
 - 1.3.2. Management of Gynecomastia in Complex Older Patients
 - 1.3.3. Therapeutic Approach to Gonadal Disorders in the Chronic Patient
- 1.4. Thyroid Pathology in the Complex Chronic Patient
 - 1.4.1. Management of Goiters in the Complex Chronic Patient
 - 1.4.2. Approach to Hypothyroidism and Hyperthyroidism in the Complex Chronic Patient. Thyroid Drug Involvement
 - 1.4.3. Management of Thyroiditis in Complex Chronic Patients
- 1.5. Pancreatic Endocrine Pathology in the Chronic Patient
 - 1.5.1. Management of Diabetes in Complex Chronic Patients. Diagnosis
 - 1.5.2. Acute and Chronic Hyperglycemia Complications
 - 1.5.3. Hypoglycemia and Increased Morbidity and Mortality
 - 1.5.4. Therapeutic Approach
- 1.6. Adrenal Pathology in the Complex Patient
 - 1.6.1. Management of Adrenal Insufficiency in Complex Chronic Patients
 - 1.6.2. Management Cushing's Syndrome in the Complex Chronic Patient
 - 1.6.3. Management of Incidentalites in Complex Chronic Patients
- 1.7. Cardiovascular Risk Factors in the Complex Chronic Patient: Lipids in Comorbidity
 - 1.7.1. Management of Dyslipidemias in Comorbidity in the Complex Chronic Patient
 - 1.7.2. Management of Dyslipidemias in the Chronic Polymedicated Patient
 - 1.7.3. New Therapies Available



- 1.8. Bone Mineral Metabolism. Osteoporosis Update and Approach in the Chronic Patient
 - 1.8.1. Management of Hypercalcemia and Hypocalcemia in the Complex Chronic Patient
 - 1.8.2. Management of Osteoporosis in Chronic Elderly Patients
 - 1.8.3. Therapeutic Approach in the Chronic Elderly Patient. Side Effects
- 1.9. Obesity and Chronicity in the Complex Chronic Patient
 - 1.9.1. Obesity as a Problem in the 21st Century
 - 1.9.2. Management of Sarcopenic Obesity in Complex Chronic Patients
 - 1.9.3. Non-Pharmacologic and Pharmacologic Therapies
- 1.10. Nutrition in the Complex Chronic Patient
 - 1.10.1. Malnutrition Associated with the Disease and in Special Situations in the Complex Chronic Patient
 - 1.10.2. Supplementation: Enteral or Parenteral Nutrition in Complex Patients
 - 1.10.3. Vitamins and Trace Elements in Comorbid Patients
 - 1.10.4. Complications Associated with Nutrition

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This program will allow you to fulfill your professional aspirations in a dynamic and fluid way. Enroll now!”

05

Methodology

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

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





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

At TECH we use the Case Method

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

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



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

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

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

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



Relearning Methodology

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

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

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



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

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

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

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

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



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



Study Material

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

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



Surgical Techniques and Procedures on Video

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



Interactive Summaries

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

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



Additional Reading

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





Expert-Led Case Studies and Case Analysis

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



Testing & Retesting

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



Classes

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



Quick Action Guides

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



06 Certificate

The Postgraduate Certificate in Endocrinology in the Complex Chronic Patient guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*Successfully complete this program
and receive your university qualification
without having to travel or fill out
laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Endocrinology in the Complex Chronic Patient** 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 Endocrinology in the Complex Chronic Patient

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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

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



Postgraduate Certificate
Endocrinology in the
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Postgraduate Certificate

Endocrinology in the Complex Chronic Patient

