

# Postgraduate Certificate

## Complex Chronic Elderly Patient



## Postgraduate Certificate Complex Chronic Elderly 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/complex-chronic-elderly-patient](http://www.techtute.com/us/medicine/postgraduate-certificate/complex-chronic-elderly-patient)

# Index

01

Introduction

---

*pag. 4*

02

Objectives

---

*pag. 8*

03

Course Management

---

*pag. 12*

04

Structure and Content

---

*pag. 18*

05

Methodology

---

*pag. 22*

06

Certificate

---

*pag. 30*

# 01

# Introduction

Older adults often suffer from a combination of chronic diseases and both physical and cognitive disabilities. For this reason, their medical care requires the collaboration of multiple specialists, including cardiologists and endocrinologists. In this way, practitioners must perform comprehensive planning based on medical, emotional and social aspects. In addition, they need to handle the most modern tools to get the most out of the Comprehensive Geriatric Assessment. This will not only enrich the decision making process of healthcare professionals, but will also enable them to apply the most appropriate strategies to improve functional function and prevent complications. In this context, TECH implements a pioneering 100% online learning that will allow the most accurate diagnoses.





“

*You will master the Nutritional Assessment oriented to elderly patients and perform interventions to combat malnutrition thanks to this 100% online program"*

Geriatric Syndromes in Complex Chronic Patients present challenges for experts, due to factors including multimorbidity. In this sense, professionals require constant updating of their knowledge to make the most effective approaches to the frailty of the elderly. In the same way, physicians have to nurture their clinical procedures based on the latest trends in this healthcare field. One example of this is the new monitoring devices, which promote telecare for continuous monitoring of vital signs and remote administration of medications.

In order to keep professionals up to date with the most cutting-edge therapies, TECH has developed a comprehensive program focusing on addressing conditions such as malnutrition, polypharmacy or falls. As such, the syllabus will delve into a multitude of strategies to effectively manage Geriatric Syndromes. In tune with this, the program will offer the most modern tools for their evaluation through scales such as the Mental Status Examination. The curriculum will also delve into the role of the family during care and encourage the use of support networks to contribute to the well-being of those affected. In addition, the content will emphasize ethical principles and challenges in decision making. At all times, the importance of autonomy and respect in geriatric care will be emphasized.

As for the study system, the university program will provide a unique, accessible, and fully online updating experience. This modality will allow physicians to access knowledge from anywhere, adapting to their schedules and work responsibilities. On the other hand, the inclusion of the *Relearning* methodology reinforces the retention of key concepts, ensuring that professionals not only acquire knowledge, but also obtain a multidisciplinary vision of the most disruptive trends in this field and its most innovative applications.

This **Postgraduate Certificate in Complex Chronic Elderly 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 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 delve into various strategies aimed at optimizing medication and thus minimize its adverse effects"*



“

*Thanks to the revolutionary Relearning methodology, you will integrate all the knowledge in an optimal way to successfully achieve the results of care you are looking for”*

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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 delve into management and enrich your medical practice with the most innovative rehabilitative therapies. And in as little as 6 weeks!*

*You will use the optimal Cognitive and Affective Rating Scales to make differential diagnoses.*



# 02 Objectives

This Postgraduate Certificate will allow the physician to control the most advanced tools in the field of Comprehensive Geriatric Assessment. In this way, they will accurately diagnose Complex Chronic Patients and the elderly. Likewise, they will be highly qualified to design personalized therapeutic procedures, which will contribute to the elderly enjoying a greater degree of independence and an improvement in their quality of life. Moreover, graduates will create innovative preventive and therapeutic strategies to ensure an effective use of available resources.







“

*They will design individualized therapeutic plans to promote a greater degree of independence and quality of life in elderly patients”*



## 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

---

- Compile the main tools that make up the CGA and their correct use
- Analyze the complex chronic patient within a bio-psycho-social model that guides us towards a more timely action
- Establish strategies for preventive/therapeutic action and ensure appropriate use of resources

“

*An academic program that adapts to you and that will allow you to reconcile your daily activities with a quality program"*

# 03

## Course Management

TECH, for this Postgraduate Certificate, has a teaching staff 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 medical care in Complex Chronic Elderly Patients. They also stand out for their mastery of the most advanced technological resources in the healthcare market. In this way, students have the guarantees they need to update their skills and acquire pioneering skills in the development of quality medical services.





“

*Learn with the best! The diversity of talents and medical skills in the teaching staff will guarantee you a dynamic and unique learning environment”*



## 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. Quiñónez Barreiro, Fabio Augusto**

- ♦ Specialist in Geriatrics and Gerontology
- ♦ Specialist Geriatrics Physician at the Virgen del Valle Hospital
- ♦ On-call Geriatrician at the Emergency Hospital Nurse Isabel Zandal
- ♦ Geriatrician at Quirón Salud, Tres Culturas Hospital
- ♦ On-call Physician in the Emergency Department at Hospital Virgen de la Salud
- ♦ Master's Degree in Psychogeriatrics from the Autonomous University of Barcelona
- ♦ Degree in Medicine from the Latin American School of Medicine (ELAM)

# 04

## Structure and Content

This curriculum will allow specialists to adapt to their needs. Therefore, the didactic materials will delve into the specificities of Comprehensive Geriatric Assessment. Likewise, the syllabus will provide a wide range of both classical tools (such as physical examination) and contemporary tools (including assessment scales) to provide effective therapeutic procedures. On the other hand, the program will delve into the detection of problems and their evaluation, which will allow health professionals to make informed decisions.





“

*You will develop the most advanced strategies for the approach of the main Geriatric Syndromes, ensuring an appropriate use of all resources"*

## Module 1. Complex Chronic Elderly Patient Comprehensive Geriatric Assessment (CGA) and Geriatric Syndromes

- 1.1. Comprehensive Geriatric Assessment (CGA) in the Complex Chronic Patient
  - 1.1.1. Comprehensive Geriatric Assessment of the Complex Chronic Patient
  - 1.1.2. Components of the Comprehensive Geriatric Variation. Data Science
  - 1.1.3. Decision Making
- 1.2. Functional Assessment and Frailty in the Elderly as a Complex Chronic Patient
  - 1.2.1. Functional Assessment in the Complex Chronic Elderly Patient
  - 1.2.2. Scales and Tools for Functional Measurement
  - 1.2.3. Strategies to Improve Functional Function and Prevent Complications
- 1.3. Cognitive/affective Assessment in the Elderly as a Complex Chronic Patient
  - 1.3.1. Cognitive/affective Assessment in the Complex Chronic Elderly Patient
  - 1.3.2. Cognitive Changes
  - 1.3.3. Cognitive/affective Assessment Scales: Use and Interpretation
- 1.4. Nutritional Assessment in the Complex Chronic Elderly Patient
  - 1.4.1. Nutritional Assessment in the Complex Chronic Elderly Patient
  - 1.4.2. Eating Behavior Patterns
  - 1.4.3. Measurement Tools: Physical and Biochemical Parameters of Nutrition
  - 1.4.4. Importance of a Correct Nutritional Assessment
  - 1.4.5. Nutritional Intervention according to Individual Needs in the Malnourished Complex Chronic Elderly Patient
- 1.5. Chronic Diseases and Comorbidities. Evaluation and Management
  - 1.5.1. Impact of Chronic Diseases in Complex Elderly Patients
  - 1.5.2. Addressing Comorbidities
  - 1.5.3. Evaluation and Integrated Management
- 1.6. Polypharmacy and Treatment Optimization
  - 1.6.1. Polypharmacy: Definition and Implications
  - 1.6.2. Strategies to Optimize Medication
  - 1.6.3. Strategies to Minimize Adverse Effects







- 1.7. Prevention and Management of Falls in the Complex Chronic Elderly Patient
  - 1.7.1. Identification of Risk Factors
  - 1.7.2. Prevention strategies
  - 1.7.3. Evaluation and Orientation towards Post-fall Rehabilitative Therapy
- 1.8. Management of Geriatric Syndromes Specific for Complex Chronic Patients
  - 1.8.1. Geriatric Syndromes in Clinical Practice
  - 1.8.2. Tools for Assessment
  - 1.8.3. Management and Prevention Strategies
- 1.9. Social Assessment in the Complex Chronic Elderly Patient
  - 1.9.1. Social Assessment in the Chronic Elderly Patient
  - 1.9.2. Role of the Family in Caregiving and Identification of Support Networks
  - 1.9.3. Multidisciplinary Coordination for the Development of a Comprehensive Care Plan
  - 1.9.4. Discharge Planning and Continuity of Care in the Chronic Elderly Patient
- 1.10. Ethics in the Care of the Complex Chronic Elderly Patient
  - 1.10.1. Ethical Principles in the Care of the Complex Chronic Elderly Patient
  - 1.10.2. Ethical Challenges in Care Decisions
  - 1.10.3. Importance of Autonomy and Respect in Geriatric Care

“ *This program prepares you for current and future challenges in the care of Complex Chronic Elderly Patients. Bet on TECH and experience immediate career advancement!*”

# 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.





“

*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. Gervas, 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:

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



“

*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 Complex Chronic Elderly 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 Complex Chronic Elderly 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.



## Postgraduate Certificate Complex Chronic Elderly Patient

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



# Postgraduate Certificate

## Complex Chronic Elderly Patient

