

# Postgraduate Certificate Clinical Practice Guidelines



## Postgraduate Certificate Clinical Practice Guidelines

- » 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/clinical-practice-guidelines](http://www.techtute.com/us/medicine/postgraduate-certificate/clinical-practice-guidelines)

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# 01 Introduction

The development of the Medical Affairs department, its growing importance, the evolution of the interests and value proposition of the pharmaceutical industry require a solid foundation that guarantees evidence of the use or disuse of therapies to generate confidence in prescribing doctors, society and patients. This is why it is vital that the professionals who comprise it are up to date on the Clinical Practice Guides, their methodologies and recommendations. Given this reality, TECH has designed this 100% online program, which provides the most up-to-date information on Real World Data, Real World Evidence or systematic reviews. In order to achieve this objective, it has brought together a team of professionals who are experts in this field, who have developed quality multimedia content in line with current academic times.





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*Enroll in a 100% online Postgraduate Certificate, which you can do comfortably, whenever and wherever you want”*

Biomedical innovation, the development of applications that allow storing, managing and using a large amount of information, its influence on making clinical decisions, as well as great technological advances have a notable influence on how clinicians face the exercise of their profession. This is why it is essential to be up to date with the Clinical Practice Guidelines (CPG), their recommendations aimed at optimizing patient care, the systematic review of the evidence, the assessment of the benefits and risks of the healthcare options.

Moreover, for the professionals who make up the Medical Affairs departments, it is vitally important to obtain the necessary information that leads to decisions that ultimately affect the health of patients. The importance of the CPGs makes it essential that specialists be aware of the latest developments in this field and that is why TECH has created this Postgraduate Certificate taught exclusively online.

A high-level academic option, whose syllabus has been prepared by a teaching team made up of professionals from the health sector who are experts in the review of CPGs and scientific evidence. Moreover, the content of this program provides a global and practical vision of evaluation instruments, Real World Evidence, systematic reviews or meta-analysis.

For this purpose, it has multimedia teaching resources that can be easily accessed 24 hours a day, from any computer, tablet or cell phone with Internet connection. In this flexible way you will also be able to delve into the statistical parameters, the clinical trial or the quality sources currently used in the CPGs.

The graduates are, therefore, faced with a flexible Postgraduate Certificate, which gives them the opportunity to complete a program that is at the academic forefront and make it compatible with their work and/or personal responsibilities.

This **Postgraduate Certificate in Clinical Practice Guidelines** contains the most complete and up-to-date scientific program on the market. The most important features of the include:

- ◆ The development of practical cases presented by experts in Medicine and the Pharmaceutical Industry
- ◆ 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 self-assessment process can be carried out 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



*The case studies of this academic option will lead you to update your knowledge about the Clinical Practice Guides”*

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*A program with which you will  
be aware of the quality sources  
Sources used in Clinical Practice  
Guides Based on Scientific Evidence”*

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

Its 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 an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*If you have a computer with an internet connection, you will be able to access the content of this Postgraduate Certificate 24 hours a day.*

*You will include in your therapeutic sessions the latest evidence on the use of Pranayama Techniques.*



# 02 Objectives

At the end of this Postgraduate Certificate, the medical professional will have obtained a complete update on their skills and knowledge in the field of management and leadership currently required in the pharmaceutical industry. In order to do this, you have innovative pedagogical tools, with a practical vision and specialized teaching staff, who will guide you throughout these 6 weeks to successfully achieve these goals.





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*With this academic option you will be able to be up to date on patient inclusion models in the preparation of Clinical Practice Guides”*



## General Objectives

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- ◆ Know the evaluation of health technologies
- ◆ Define evidence-based Clinical Practice Guidelines (CPG)
- ◆ Describe the quality sources of CPGs
- ◆ Investigate patient inclusion models in the preparation of CPGs
- ◆ Recognize the need for tools to support shared decision making
- ◆ Simulate the evaluation of a CPG with an AGREE instrument
- ◆ Define Real Word Evidence





## Specific Objectives

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- ◆ Know Artificial Intelligence how it helps generate evidence
- ◆ Recognize the importance of critical reading of scientific articles
- ◆ Identify the tools for critical reading
- ◆ Know the statistical parameters and the clinical trial
- ◆ Simulate systematic reviews
- ◆ Describe and learn about new forms of electronic medical education

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*Delve into Artificial Intelligence and the different tools currently used to generate scientific evidence throughout the 180 hours”*

03

# Course Management

The teaching team that makes up this Postgraduate Certificate is made up of professionals who have focused their careers on the healthcare field, especially on the review of Practice Guides Based on Scientific Evidence. Their experience in this area represents a guarantee and support for the professional who seeks to update their knowledge in this field through experts in the field. Furthermore, the closeness of the teaching staff will allow you to resolve any questions you may have about the content of this program's syllabus.





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*TECH rigorously selects teaching professionals to always offer quality university education”*

## Management



### Dr. Cuchí Alfaro, Miguel Ignacio

- ♦ Medical Director of the Puerta de Hierro Majadahonda University Hospital in Spain
- ♦ Medical Coordinator of Hospital Audit in the Madrid Service
- ♦ Deputy Manager of the Ramón y Cajal University Hospital of Madrid
- ♦ Deputy Medical Director of the Ramón y Cajal University Hospital of Madrid
- ♦ Degree in Medicine

## Professors

### Dr. López Sanromán, Javier

- ♦ Head of Preventive Medicine at MD Anderson Cancer Center Cancer Center Madrid
- ♦ Master in Total Quality from the UP of Madrid
- ♦ Master's Degree in Health Services Management at the University of Alcalá
- ♦ Specialist in Preventive Medicine and Public Health, Hospital Universitario La Paz

### Ms. Mateos Haro, Miriam

- ♦ Researcher in clinical epidemiology at the Clinical Biostatistics Unit of the Ramón y Cajal Institute for Health Research (IRYCIS)
- ♦ Specialized in Virology by UCM
- ♦ Graduated in Biology with a mention in Health Biology



# 04

## Structure and Content

The study plan of this Postgraduate Certificate will lead the professional who enters it to delve into the latest developments in the Clinical Practice Guides Based on Scientific Evidence, the quality evaluation instruments of said guides, the sources or electronic medical education. Furthermore, knowledge that will be updated through innovative multimedia resources (videos in detail, video summaries), essential readings and case studies. Likewise, the Relearning system will allow you to consolidate concepts in a much more natural way, even reducing long hours of study.







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*An agenda with an eminently practical approach that will take you to know the latest news on Clinical Practice Guidelines”*

**Module 1. Clinical Practice Guidelines. Real Word Evidence.  
Critical Reading of Articles**

- 1.1. Introduction to Clinical Practice Guidelines Based on Scientific Evidence
  - 1.1.1. Health Technology Assessment. CPG Framework
  - 1.1.2. Evidence-Based GPC. Methodological Approach
  - 1.1.3. Key Aspects in the GPC Production
  - 1.1.4. From evidence to recommendations
- 1.2. Instrument for Quality Assessment of Clinical Practice Guidelines
  - 1.2.1. GPC evaluation: Why and What For?
  - 1.2.2. AGREE Collaboration
  - 1.2.3. AGREE Instrument Structure and Content
  - 1.2.4. example evaluation of a CPG with AGREE instrument
- 1.3. Quality sources of Clinical Practice Guidelines Based on Scientific Evidence
  - 1.3.1. Quality CPG collecting bodies
  - 1.3.2. HealthGuide: National CPG Program Based on Quality Evidence
  - 1.3.3. Quality CPG Center
  - 1.3.4. Methodological centers: GIN International Network
  - 1.3.5. MySQL Database
  - 1.3.6. Search Engines
- 1.4. Incorporation of Clinical Practice Guidelines
  - 1.4.1. Necessity of Patient Incorporation-Up
  - 1.4.2. Aspects Methodology to Consider
  - 1.4.3. Examples of patient participation in CPGs
  - 1.4.4. International approach: patient involvement
- 1.5. Tools to Help Shared Decision Making
  - 1.5.1. Need for Shared Decision Making Support Tools
  - 1.5.2. Conceptual Principles
  - 1.5.3. Practical Examples
- 1.6. Real- Evidence
  - 1.6.1. Need to generate new evidence
  - 1.6.2. Studies based on data from real clinical practice: design, analysis, minimization of bias
  - 1.6.3. IA as Tools for the Generation of evidence
  - 1.6.4. AI-based advances for healthcare interventions



- 1.7. The importance of critical reading, methodology and structure
  - 1.7.1. Levels of scientific evidence
  - 1.7.2. The clinical question
  - 1.7.3. Methods to use
  - 1.7.4. Types of Studies
- 1.8. Statistical parameters and the clinical trial
  - 1.8.1. Hypothesis Testing
  - 1.8.2. Study power
  - 1.8.3. Types of and Tests Variables
  - 1.8.4. Types of Trials
  - 1.8.5. Types of Intervention: intention-to-treat or per-protocol
  - 1.8.6. Non-inferiority
  - 1.8.7. Biases
- 1.9. Systematic Reviews and Meta-Analyses
  - 1.9.1. Systematic Reviews
  - 1.9.2. Meta-Analysis
- 1.10. Electronic medical education
  - 1.10.1. Drug Information Sources
  - 1.10.2. Blogs, infographics, podcasts
  - 1.10.3. Medical education portals
  - 1.10.4. Virtual conferences
  - 1.10.5. Webinars and webcasts, eMSL, eKOL



*With this program, access the main sources of information currently available on medicines”*



# 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. 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.

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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 Clinical Practice Guidelines guarantees students, in addition to the most rigorous and up-to-date scientific, 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 Clinical Practice Guidelines** 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 Clinical Practice Guidelines**

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 quality  
development languages  
virtual classroom



## Postgraduate Certificate Clinical Practice Guidelines

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

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