

# Postgraduate Certificate

## Chronic Inflammatory Joint Pathologies





## Postgraduate Certificate

### Chronic Inflammatory Joint Pathologies

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

Website: [www.techtitute.com/us/medicine/postgraduate-certificate/chronic-inflammatory-joint-pathologies](http://www.techtitute.com/us/medicine/postgraduate-certificate/chronic-inflammatory-joint-pathologies)

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# 01

# Introduction

Chronic inflammatory joint pathologies are a group of diseases affecting the joints that can cause pain, swelling and stiffness. These pathologies can have a great impact on the quality of life of the people who suffer from them, especially in the geriatric population. For this reason, TECH has designed an academic program to provide complete training in this field. This degree focuses on the molecular biology and pathophysiology of these diseases, diagnostic techniques and their treatment. In addition, it is taught 100% online with a Relearning pedagogical methodology and offers flexibility to organize academic resources, which will provide solid and updated knowledge in this constantly evolving area.





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*Do you want to know more about biological and small molecule therapies used in the treatment of Chronic Inflammatory Joint Pathologies? This Postgraduate Certificate offers you all the information you need to stay up to date on the latest treatment trends"*

Chronic Inflammatory Joint Pathologies are a group of rheumatologic diseases that affect a large number of people, especially geriatric patients. These diseases can have a huge impact on patients' quality life and, in some cases, can even become disabling.

In this context, the Postgraduate Certificate in Chronic Inflammatory Joint Pathologies proposed by TECH is presented as an essential tool for those health professionals who want to specialize in the diagnosis, treatment and monitoring of these diseases. The program addresses fundamental aspects such as molecular biology and pathophysiology of these pathologies, epidemiological characteristics, diagnostic techniques, extra-articular manifestations and the different therapies and drugs used in their treatment.

The objective of the degree is to provide students with a solid and updated theoretical and practical training in the field of chronic inflammatory joint pathologies. In addition, it is designed to be 100% online and has an innovative pedagogical methodology such as Relearning, which focuses on the personalization of learning for each student, adapting to their level of knowledge and learning pace.

Among the main features of the course are the flexibility to organize academic resources according to the student's needs. Thus, the Postgraduate Certificate in Chronic Inflammatory Joint Pathologies is presented as a unique opportunity for those health professionals who wish to expand their knowledge in the field of rheumatologic diseases, with quality training, updated and with an innovative and flexible methodology that adapts to the needs of each student.

This **Postgraduate Certificate in Chronic Inflammatory Joint Pathologies** 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 health experts focused on Chronic Inflammatory Joint Pathologies
- ◆ 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
- ◆ The availability of access to content from any fixed or portable device with an Internet connection



*Discover how an interdisciplinary approach and collaboration between specialists can make a difference in the management of Chronic Inflammatory Joint Pathologies"*

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*Improve your knowledge in the Chronic Inflammatory Joint Pathologies management and contribute to increase the quality life of your patients through a multidisciplinary and integrated approach”*

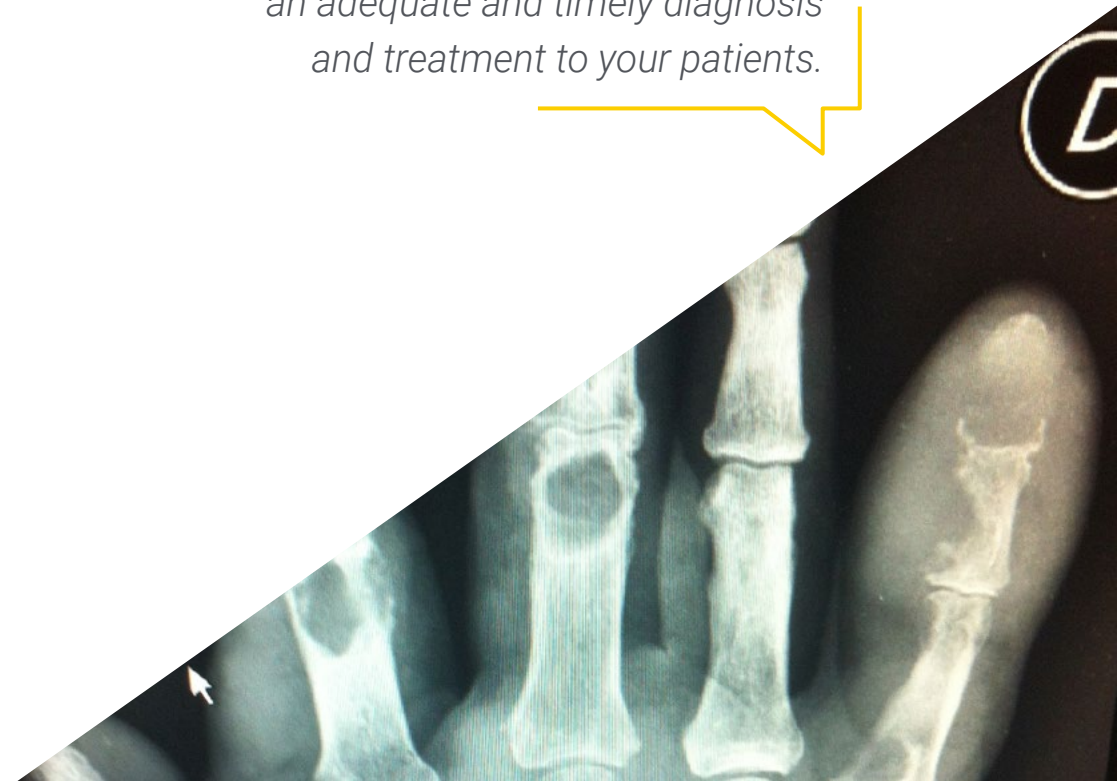
The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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.

*Learn first-hand about the latest techniques and advances in the diagnosis and treatment of chronic inflammatory joint pathologies, and become an expert in joint health care.*

*Learn to recognize the early signs and symptoms of pathologies, and acquire the necessary tools to provide an adequate and timely diagnosis and treatment to your patients.*



# 02 Objectives

The design of this Postgraduate Certificate in Chronic Inflammatory Joint Pathologies allow the students to acquire the necessary skills to update in the profession after delving in the key aspects of these pathologies. The knowledge acquired in the development of the points of the syllabus will drive the professional from a global perspective, with full capacity to achieve the proposed goals. You will be fully empowered in a field of medicine that is versatile, global and indispensable, guiding you to excellence in the treatment and management of these chronic diseases. For this reason, the Postgraduate Certificate establishes a series of general and specific objectives for the satisfaction of the future graduate.





A close-up photograph of a person's hand, showing the fingers and palm. The hand is positioned as if being examined or held by another person, with the focus on the joints. The background is blurred, suggesting a clinical or healthcare setting.

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*If you are a physician, nurse or healthcare professional, this degree will give you all the tools you need to diagnose and treat chronic inflammatory joint pathologies. Register now!"*



## General Objectives

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- ◆ Deepen in the processes of aging, its clinical, diagnostic and prognostic implications
- ◆ Investigate the specific biological and physiological determinants of geriatric patients
- ◆ Learn more about the reasons why pathologies manifest themselves differently in geriatric patients, as well as the pharmacological characteristics that condition their treatments
- ◆ Update knowledge of the biopsychosocial determinants related to the aging process
- ◆ Promote comprehensive and holistic care in geriatric patients with rheumatic pathologies, whether measured by the immune system, bone metabolism, paraneoplastic or degenerative manifestations





## Specific objectives

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- ◆ Deepen in the concepts of inflammation and chronicity, as well as epidemiological and biological differential characteristics in the geriatric population
- ◆ Update procedures related to the comprehensive management of chronic joint diseases in the geriatric population
- ◆ Identify the problems and limitations of the different current classification criteria for chronic inflammatory joint diseases in geriatric patients
- ◆ Be aware of the proper management of pharmacological and non-pharmacological therapeutic measures in each of the situations that may occur in chronic inflammatory joint diseases



*Did you know that Chronic Inflammatory Joint Pathologies affect millions of people worldwide? Learn more about its epidemiology, diagnosis and treatment thanks to this Postgraduate Certificate"*

# 03

# Course Management

TECH commits to provide high quality training to students and to achieve this goal, a rigorous selection process has been implemented for all the Professors participating in the Postgraduate Certificate in Chronic Inflammatory Joint Pathologies. Students will have access to updated and multidisciplinary knowledge in areas such as epidemiology, pain management, diagnostic techniques in inflammatory joint diseases and adverse effects and interactions in the multi-pathological and polymedicated elderly. The selected experts in these fields will offer a comprehensive knowledge in Chronic Inflammatory Joint Pathologies, allowing students to keep up-to-date on the latest advances and trends in this area of health.



“

*Become an expert in Chronic Inflammatory Joint Pathologies with this academic program! You will learn about molecular biology, pathophysiology, diagnostic techniques and more"*

## Management



### Dr. García Martos, Álvaro

- ◆ Rheumatology Specialist at the Tajo University Hospital
- ◆ Physician specializing in Rheumatology at the 12 de Octubre University ospital
- ◆ Associate Professor of Rheumatology at the University Alfonso X, El Sabio
- ◆ Research Sufficiency by the Complutense University of Madrid
- ◆ Degree in Medicine from the Cantabria University
- ◆ Master's Degree in Rheumatic Diseases mediated by the Immune System, Rey Juan Carlos University and the Spanish Society of Rheumatology
- ◆ EFSUMB Certification: Musculoskeletal Ultrasound level 1
- ◆ Levels A and B of musculoskeletal ultrasound of the Spanish Society of Sports Medicine

## Professors

### Dr. Retuerto Guerrero, Miriam

- ◆ Specialist in Rheumatology at the Complex University Health Care Center of Leon
- ◆ Physician at the Defense Central Hospital Gomez Ulla
- ◆ Physician at the Doce de Octubre Hospital of Madrid
- ◆ Physician at Mostoles Hospital
- ◆ Degree in Medicine and Surgery from the Faculty of Medicine of Valladolid
- ◆ Master's Degree in Rheumatologic and Traumatologic Musculoskeletal Ultrasound of the Alcala University
- ◆ Master SER in Rheumatic Diseases mediated by the Immune System of the Rey Juan Carlos University
- ◆ Master's Degree in Applied Biostatistics in Health Sciences from the Seville University



# 04

## Structure and Content

The Postgraduate Certificate in Chronic Inflammatory Joint Pathologies has a complete and multidisciplinary structure and content, designed by a Professor specialized in Chronic Pathologies. The program agenda focuses on the molecular biology, genetics and pathophysiology of chronic inflammatory joint diseases in the geriatric patient. Epidemiological aspects, diagnostic techniques, extraarticular manifestations and treatment of Rheumatoid Arthritis and Spondyloarthritis are discussed. The degree has numerous additional didactic resources, including a virtual platform accessible 24 hours a day, from any digital device with an internet connection. All this will allow the graduate to perform a complete and multidisciplinary update on Geriatric Rheumatology.







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*Discover how to comprehensively address Chronic Inflammatory Joint Pathologies and become a specialist in the treatment of these diseases that affect so many people around the world"*

## Module 1. Chronic Inflammatory Joint Diseases (arthritis/spondyloarthritis)

- 1.1. Molecular Biology and Pathophysiology of Chronic Inflammatory Joint Diseases
  - 1.1.1. Genomic Studies in Chronic Inflammatory Joint Diseases
- 1.2. Inflammation and Chronicity in the Geriatric Patient
  - 1.2.1. The Inflammatory Process: Mechanisms of Production
  - 1.2.2. Chronic Inflammation in the Geriatric Patient
  - 1.2.3. Immunosenescence
- 1.3. Epidemiologic Characteristics of Chronic Joint Diseases
  - 1.3.1. Epidemiology of Rheumatoid Arthritis
  - 1.3.2. Epidemiology of Spondylarthritis
- 1.4. Diagnostic Techniques in Inflammatory Joint Diseases
  - 1.4.1. Utility of Blood Analysis: General Analysis, Serum Markers, Autoantibodies
  - 1.4.2. Synovial Fluid Analysis
  - 1.4.3. Imaging Techniques: Simple Radiology, Musculoskeletal Ultrasound, Other Imaging Studies
- 1.5. Extra-articular Manifestations (Uveitis, Diffuse Interstitial Pulmonary Interstitial Disease: EPID, Inflammatory Bowel Disease...)
  - 1.5.1. Ocular Manifestations
  - 1.5.2. Pulmonary Manifestations: EPID
  - 1.5.3. Gastrointestinal manifestations associated with chronic inflammatory joint diseases (IBD)
  - 1.5.4. Cutaneous manifestations
  - 1.5.5. Other Extra-Articular Manifestations
- 1.6. Rheumatoid Arthritis in the Geriatric Population
  - 1.6.1 Epidemiology and Etiopathogenesis
  - 1.6.2. Clinical Diagnosis
  - 1.6.3. Treatment



- 1.7. Spondyloarthritis in Geriatric Patients
  - 1.7.1. Epidemiology, Etiopathogenesis, and Classification
  - 1.7.2. Clinical Diagnosis
  - 1.7.3. Treatment
- 1.8. Seronegative Arthritis
  - 1.8.1. Classification
  - 1.8.2. Treatment
- 1.9. Synthetic Disease Modifying Drugs
  - 1.9.1. Classification
  - 1.9.2. Indications and Posology
  - 1.9.3. Adverse Effects and Interactions in the Pluripathological and Polymedicated Elderly
- 1.10. Disease-Modifying Drugs: Biologic Therapy and Small Molecules
  - 1.10.1. Classification
  - 1.10.2. Indications and Posology
  - 1.10.3. Adverse Effects and Interactions in the Pluripathological and Polymedicated Elderly

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*With the development of this Postgraduate Certificate you have at your disposal a virtual platform with numerous innovative and pedagogical material, which you will have access to 24 hours a day”*

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 Chronic Inflammatory Joint Pathologies guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Chronic Inflammatory Joint Pathologies** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Chronic Inflammatory Joint Pathologies**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION 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  
online training  
development languages  
virtual classroom



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