

Postgraduate Certificate

Diagnostic Methods
in Inflammatory
Bowel Disease



Postgraduate Certificate Diagnostic Methods in Inflammatory Bowel Disease

- » 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/diagnostic-methods-inflammatory-bowel-disease

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01

Introduction

The diagnostic issue is fundamental in any medical field, since obtaining an accurate differential diagnosis is a great advantage when it comes to prescribing therapies or treatments. In the field of Inflammatory Bowel Diseases, it is even more important, since pathologies such as Colitis or Crohn's Disease require a particularly accurate approach by the specialist. This has led to the creation of this program, which includes the main developments in pathological anatomy, radiological tests and abdominal ultrasound, among others. All in a completely online format, with abundant high quality audiovisual material and total freedom to take it at the pace you choose, without the pressure of face-to-face classes or fixed schedules.





The updating of professionals in the field of diagnosis of intestinal pathologies is essential, so, this program brings you the main developments in this regard"

Establishing a correct and early diagnosis is fundamental in Inflammatory Bowel Disease. For this, from the clinical suspicion, the physicians have in their hands a diagnostic armamentarium that allows them to act with precision when faced with a patient suspected of these entities. Since these diagnostic methods are frequently updated, it is inevitable that specialists in the field must also carry out frequent updates.

This is the reason for the present program, which concisely covers the main novelties and developments in the field. First, analytical data, both biochemical and inflammatory activity tests in different fluids (blood, stool, etc.) are examined to give an idea of the degree of involvement.

Abdominal ultrasound, which had not received much attention as a diagnostic test oriented to the gastrointestinal tract, stands out in the syllabus, but in recent years, its role in the assessment of intestinal loops and extraintestinal pathology has been greatly investigated due to its safety, accessibility and reproducibility. Other radiological tests are also covered, such as computed axial tomography or magnetic resonance imaging oriented to the small intestine, since they are key not only to establish the diagnosis, but also to assess the evolution of the disease.

In summary, the resources with which the content of this Postgraduate Certificate is organized are intended to give it a very practical approach, with a syllabus organized in a module, video master classes, as well as the resolution of questions and real clinical cases. All of this in a 100% online format without face-to-face classes or pre-set schedules, always prioritizing flexibility for the specialists.

This **Postgraduate Certificate in Diagnostic Methods in Inflammatory Bowel Disease** 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 inflammatory diseases
- ◆ 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



You will have at your disposal videos in detail, interactive summaries and complementary readings on the most relevant current diagnostics in Inflammatory Bowel Diseases"

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Access a distinctive reference guide in the field of Digestive Medicine, with extensive topics on differential diagnosis, systemic diseases and analytical data"

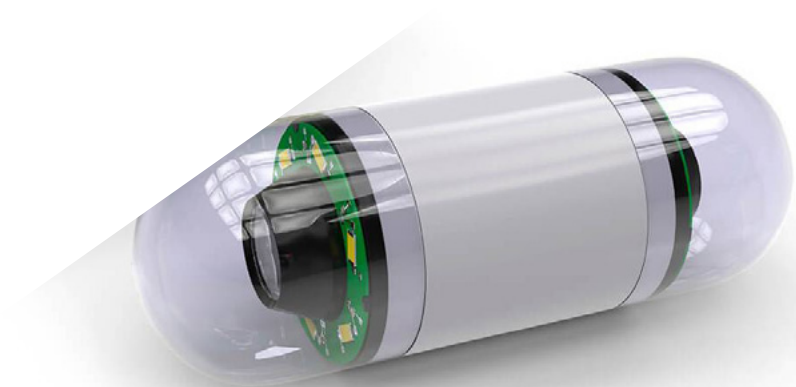
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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 student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Thanks to TECH's Relearning methodology, you will not have to invest long hours of study to get the most out of all the contents.

You will have total freedom to adapt the course load to your own pace, without having to sacrifice your personal or professional life.



02 Objectives

The main objective of this Postgraduate Certificate is to provide the specialist with the most important novelties in diagnostic methods related to Inflammatory Bowel Diseases. Therefore, all the contents explore both the most rigorous scientific theory and the practical application in clinical scenarios, reviewing numerous examples and real cases to provide a fundamental context.



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Improve your skills in the diagnosis of Inflammatory Bowel Diseases thanks to a rich and detailed multimedia content”



General Objectives

- ◆ To update the knowledge of the origin, as well as the current scientific state of diagnosis and treatment of Inflammatory Bowel Disease
- ◆ Manage different situations of this disease throughout life (childhood, senescence, pregnancy, lactation, controlled disease or outbreaks)



Meet your most demanding updating objectives thanks to a program created by real experts in the field"





Specific Objectives

- ◆ Establish the useful analytical parameters with regard to knowing the degree of activity of Inflammatory Bowel Disease
- ◆ Know the data that abdominal ultrasound can provide as a diagnostic method and useful for the monitoring of Inflammatory Bowel Disease
- ◆ Manage the indications and main radiological characteristics of CT and MRI in the diagnosis of Inflammatory Bowel Disease
- ◆ Use the above features to establish a correct differential diagnosis between the entities that make up the group of inflammatory diseases with intestinal involvement
- ◆ Manage and know how to interpret the different clinical activity indexes

03

Course Management

All the teachers of this Postgraduate Certificate have been selected by TECH due to their outstanding merits in the field of diagnostic methods in digestive medicine. With a particular focus on the field of Inflammatory Bowel Disease, all the teaching material of this program has been developed following the experience of the teachers, with plenty of real examples and videos in detail for this purpose.





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From the virtual campus, you will be able to download myriad detailed videos and both simulated and real cases covering Diagnostic Methods in Inflammatory Bowel Disease"

International Guest Director

Considered as one of the best doctors by the Castle Connolly, Dr. Gil Melmed is a renowned Gastroenterologist highly specialized in the approach of Inflammatory Bowel Diseases. In this way, he has developed most of his career in health entities of international reference among which stands out the Cedars-Sinai Medical Center in California.

Among his main achievements, he has used innovative Computer Aided Detection devices in multiple colonoscopies. Therefore, he has demonstrated that these technological tools pertaining to Artificial Intelligence can significantly increase the identification of Adenomas or Polyps and improve the prevention of Colorectal Cancer. Along the same lines, he has promoted the IBD QORUS Quality Improvement Program, focused on the implementation of excellent practices and quality standards in the treatment of patients with Inflammatory Bowel Disease. Thanks to this, it has managed to optimize both medical results and user experience.

He also balances this work with his role as a clinical researcher. In fact, he has developed numerous studies focused on subjects such as new treatments for the management of chronic inflammation of the intestine, cutting-edge procedures aimed at perfecting postoperative care or techniques that ensure that individuals' responses to vaccines are effective and safe. Consequently, he has spearheaded a number of sophisticated strategies that have enabled individuals to experience adequate recovery following their surgical procedures.

Committed to the advances in this health field, he participates as a speaker in different international scientific congresses. There he has shared his experience using advanced diagnostic tests, such as Balloon Enteroscopy. He has also increased the knowledge of health professionals on the most optimal methods to treat Crohn's Disease and Ulcerative Colitis.



Dr. Melmed, Gil

- Director of Clinical Trials at the Center for Inflammatory Bowel Diseases at Cedars-Sinai Medical Center in Los Angeles, California
- President of the American Gastroenterological Association's Committee on Inflammatory Bowel Diseases
- Clinical Investigator at Cedars-Sinai Medical Center
- Editor of the "American Journal of Gastroenterology"
- Residency at Cedars-Sinai Medical Center
- M.D. from Albert Einstein College of Medicine
- Master of Science in Clinical Research, University of California, California
- B.S. in Medical Sciences, University of Pennsylvania
- Fellowship in Gastroenterology from University of California
- Board Certified by the American Board of Internal Medicine
- Crohn's and Colitis Foundation National Scientific Advisory Board
- Co-Chair of the IBD QORU Quality Improvement Program



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

04

Structure and Content

Following the Relearning methodology, all the most relevant contents of this Postgraduate Certificate are given gradually and progressively throughout the program. This makes learning much more effective and natural for the student, which means a considerable saving in the hours of study necessary to pass the program. In addition, the large amount of audiovisual material provided in the form of videos in detail, interactive summaries and complementary readings is a plus to delve into the topics that generate greater interest.





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You will be able to access the virtual campus 24 hours a day, having total flexibility to study where, when and how you want"

Module 1. Diagnostic Methods in Inflammatory Bowel Disease

- 1.1. Analytical Data
- 1.2. Abdominal ultrasound
- 1.3. X-Ray Tests CT, Entero-MRI
- 1.4. Pathologic Anatomy
- 1.5. Differential Diagnosis
- 1.6. Differences Between Ulcerative Colitis and Crohn's Disease
- 1.7. Inflammatory Bowel Disease Activity Indices
- 1.8. Diagnostic Criteria in Other Inflammatory Bowel Diseases
 - 1.8.1. Microscopic Colitis
 - 1.8.2. Bypass Colitis
 - 1.8.3. Solitary Rectal Ulcer Syndrome
- 1.9. Systemic Diseases with Intestinal Involvement
- 1.10. Other Diagnostic Methods in Inflammatory Bowel Disease: Conventional Radiology, Barium Studies, Nuclear Medicine, etc.





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All content is accessible from any device with an internet connection, so you can study from your tablet, computer or smartphone of choice”

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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 Diagnostic Methods in Inflammatory Bowel Disease 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 Diagnostic Methods in Inflammatory Bowel Disease** 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.

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Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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