

Postgraduate Certificate Scientific Developments in Spinal Cord Disorders





Postgraduate Certificate Scientific Developments in Spinal Cord Disorders

- » Modality: Online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 5 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitude.com/us/medicine/postgraduate-certificate/scientific-developments-spinal-cord-disorders

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01

Introduction

Today, the specialty of hematology is a pioneer in innovation in the areas of diagnosis and treatment. In addition, it should stand out that hematologists mark a leading position in the clinical application of major spinal disorders. Educate yourself with us and increase your ability to care for your patients.



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Analyzes the latest scientific developments in spinal cord disorders delving into the clinical practice of a world leader in the area, with experience in the best cancer centers"

Different scientific societies around the world that deal with this specialty strive to rapidly incorporate the results of biomedical research into clinical practice, especially the treatment of hematological malignancies (blood cancers), but also iron deficiency and anemias, the administration of direct-acting oral anticoagulants-DOACs, bone marrow transplants and, in the long-term, research focused on obtaining artificial blood, with the ultimate aim of ensuring that healthcare managers include these techniques in the services provided by national healthcare systems as soon as possible.

The reasons why hematology and hemotherapy is one of the medical disciplines that have made most progress in knowledge and technology in recent decades lie in the integration of biological and clinical knowledge, which has led to a better understanding of the mechanisms of disease, facilitating the development of more appropriate guidelines for clinical action. All this has contributed to the fact that hematology and hemotherapy have reached a remarkable degree of maturity and justifies its permanence in the future as an integrated specialty, this being the ideal framework for the education and global improvement of specialists in this area of medical knowledge.

In recent years there have been continuous advances that have generated a great incorporation of knowledge, both in basic concepts and laboratory techniques. All this has substantially increased the body of doctrine of this medical specialty, incorporating new areas such as cytometry, cytogenetics, or molecular biology. All this has substantially increased the body of doctrine of this medical specialty, incorporating new areas such as cytometry, cytogenetics, or molecular biology. These advances require very specific learning for the development of an excellent medical practice.

This Postgraduate Certificate in Scientific Developments in Spinal Cord Disorders supports the latest advances in research and maximum scientific evidence, with a solid and didactic teaching program that positions itself as a program of the highest scientific rigor at an international level. In addition, it includes a masterclass given by a world renowned expert in the area of hematology, giving greater depth to the scientific latest developments analyzed. This program is aimed at health professionals who, in their daily clinical practice, deal with the care of patients or populations with spinal cord disorders. The program is based on a multidisciplinary approach to its topics, allowing for an in-depth study of the most rigorous scientific postulates.

This **Postgraduate Certificate in Scientific Developments in Spinal Cord Disorders** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Clinical symptoms cases presented by experts in hematology
- ♦ Its graphic, schematic and eminently practical contents provide scientific and assistance information on those disciplines that are essential for professional practice
- ♦ Diagnostic and therapeutic developments on evaluation, diagnosis and intervention in the hematologic patient
- ♦ Practical exercises where the self-assessment process can be used to improve learning
- ♦ The Iconography of clinical and diagnostic imaging tests
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Its special emphasis on evidence-based medicine and hematology research methodologies
- ♦ Theoretical lessons, questions to the expert, forums for discussion of controversial issues and individual reflection papers
- ♦ The availability of access to content from any fixed or portable device with an Internet connection



With the Postgraduate Certificate in Scientific Developments in Spinal Cord Disorders you have the opportunity to update your knowledge in a comfortable way and without renouncing to the maximum scientific rigor"

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This Postgraduate Certificate is the best investment you can make to acquire the best and most up-to-date program in Scientific Developments in Spinal Cord Disorders"

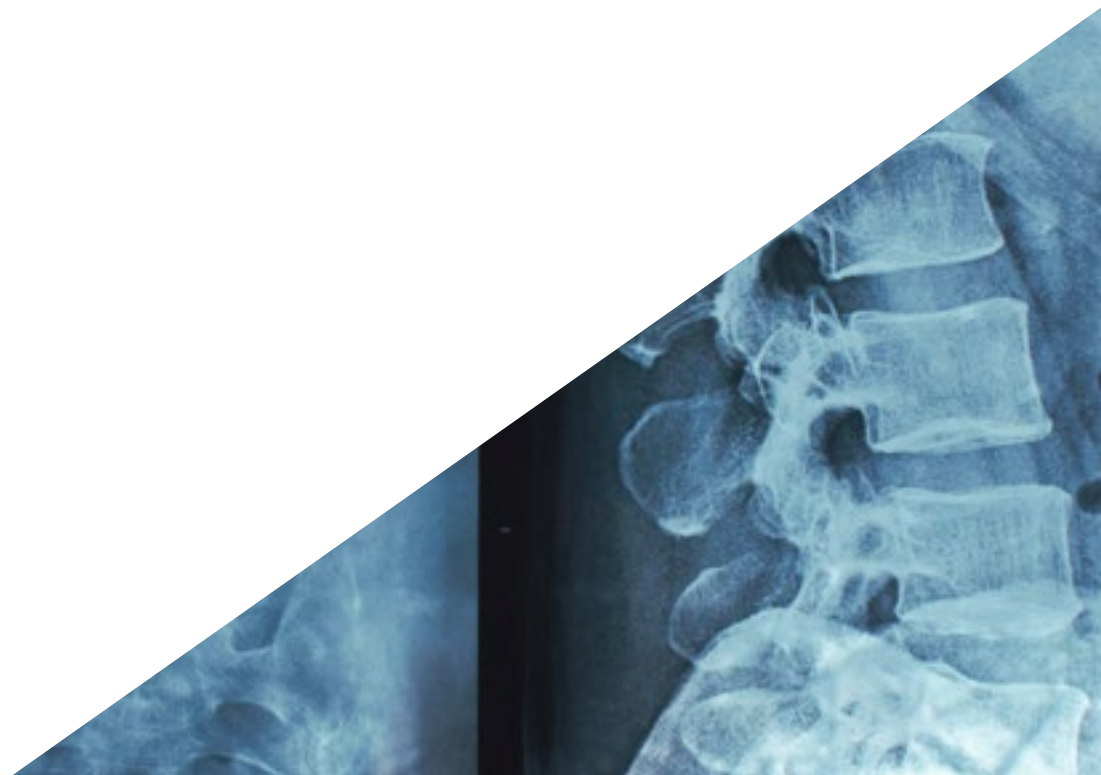
This course allows training in simulated environments, which provide immersive learning programmed to train for real situations.

It includes clinical cases to bring the program's degree as close as possible to the reality of care in medicine.

The teaching body is made up of respected and renowned professionals with extensive experience in healthcare, teaching, and research, who have work in many countries where these diseases are prevalent.

The methodological design of this program, developed by a multidisciplinary team of e-Learning experts, integrates the latest advances in educational technology for the creation of numerous multimedia educational tools that allow the professional, based primarily on the problem-solving method, to face the solution of real problems in their daily clinical practice, which will help them to advance in the acquisition of knowledge and the development of skills that will impact their future professional work.

It is notable in this program that each of the contents generated, as well as the videos, self-assessments, clinical cases and exams, have been thoroughly reviewed, updated and integrated by the team of experts that make up the teaching staff, to facilitate in an orderly and teaching manner the learning process that allows achieving the objectives of the program.



02 Objectives

The main objective of the Postgraduate Certificate is the improvement of specialists, based on the acquisition of the most up-to-date and innovative scientific knowledge in the field of hematology and hemotherapy that will allow them to develop the professional skills and competencies that will turn their daily clinical practice into a bastion of the standards of the best available scientific evidence, with a critical, innovative, multidisciplinary and integrative sense, according to the recent advances in the specialty.



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This program will generate a sense of security in the performance of medical practice, which will help you grow personally and professionally"



General Objective

- ♦ Update the specialist's knowledge through the latest scientific evidence in the use of diagnostic and therapeutic means for hematological diseases, in order to develop comprehensive prevention, diagnosis, treatment and rehabilitation actions, with a multidisciplinary and integrative approach that facilitates medical care with the highest quality standard for the control and follow-up of hematological patients





Specific Objectives

- ◆ Know the main updates in the medical field for the management of spinal cord disorders
- ◆ Identify the sick patient and recognize the appropriate procedure, which may include surgery
- ◆ Identify the symptoms and repercussions of this type of disease



Don't miss the opportunity and get up-to-date on new developments in Spinal Cord Disorders to incorporate them into your daily medical practice"

03

Course Management

The teaching program includes the participation of prestigious and renowned medical specialists, with numerous publications, teaching experience and professional experience in many countries, where many of the diseases studied have a high morbimortality. The teaching staff is made up of a multidisciplinary team from various medical specialties, such as hematology, internal medicine, pediatrics, gynecology and obstetrics, pathological anatomy, pharmacology, who are involved in the care of patients.



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Any questions you may have during the program will be answered by the teachers. In this way you will guarantee the acquisition of new knowledge"

International Guest Director

Dr. Joseph Hai Oved is a pediatric hemato-oncology specialist at Memorial Sloan Kettering Cancer Center, considered one of the best cancer centers in the world. His work focuses on stem cell and bone marrow transplantation, as well as cell therapies, to treat non-cancerous diseases. His work in the field of transplantation to patients with difficult-to-treat immune dysfunctions or inherited immune deficiencies, as well as those with bone marrow failure syndromes, is particularly noteworthy.

His research is prolific in the hemato-oncology area, seeking new ways to personalize transplantation to achieve a precise cure with minimal side effects. He has studied in depth the effects of the different techniques used to manipulate donated stem cells, extracting or adding specific cells of interest. He has also analyzed how exposure to different conditioning agents (chemotherapies or other drugs used to prepare the body for transplantation) affect outcomes. His work has advanced the identification of biomarkers to more accurately predict transplant outcomes.

Joseph is a member of several national and international groups in bone marrow transplantation, hematology and immunology. He serves on committees of many of these organizations, where they discuss potential future therapies, clinical trials and efforts to further advance the field of pediatric transplantation and cellular therapies worldwide.

All his scientific contribution places him as a reference in his field, receiving several awards. These include two fellowships awarded by the Howard Hughes Medical Institute, one of the largest privately funded organizations for biological and medical research in the United States. He also received a fellowship in immunology from the Weizmann Institute of Science, considered one of the most advanced multidisciplinary research institutions in the world.



Dr. Hai Oved, Joseph

- Position: Pediatrician specialized in Hemato-Oncology at MSK Cancer Center - New York
- Member of the Scientific Advisory Board of Emendo Biotherapeutics
- Managing Partner of New World Health, LLC
- Observer on the board of BioTrace Medical Inc.
- Pediatrician specializing in hemato-oncology at the Children's Hospital of Philadelphia
- M.D. from NYU School of Medicine
- Fellowship in pediatric Hemato-Oncology at Children's Hospital of Philadelphia
- Residency in pediatrics at New York Presbyterian Weill Cornell Medical College



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

Guest Director



Dr. Martínez López, Joaquín

- ♦ Head of the Hematology Department of the 12th October Hospital
- ♦ President of Altum Sequencing
- ♦ Director of the Translational Research Group and the Early Clinical Trials Unit in Hematology at 12th October Hospital
- ♦ Director of the CRIS Foundation against Cancer
- ♦ PhD in Medicine from the Complutense University of Madrid
- ♦ Degree in Medicine from the University of Granada
- ♦ Practical Stay in Cell Therapy at the University of Toronto

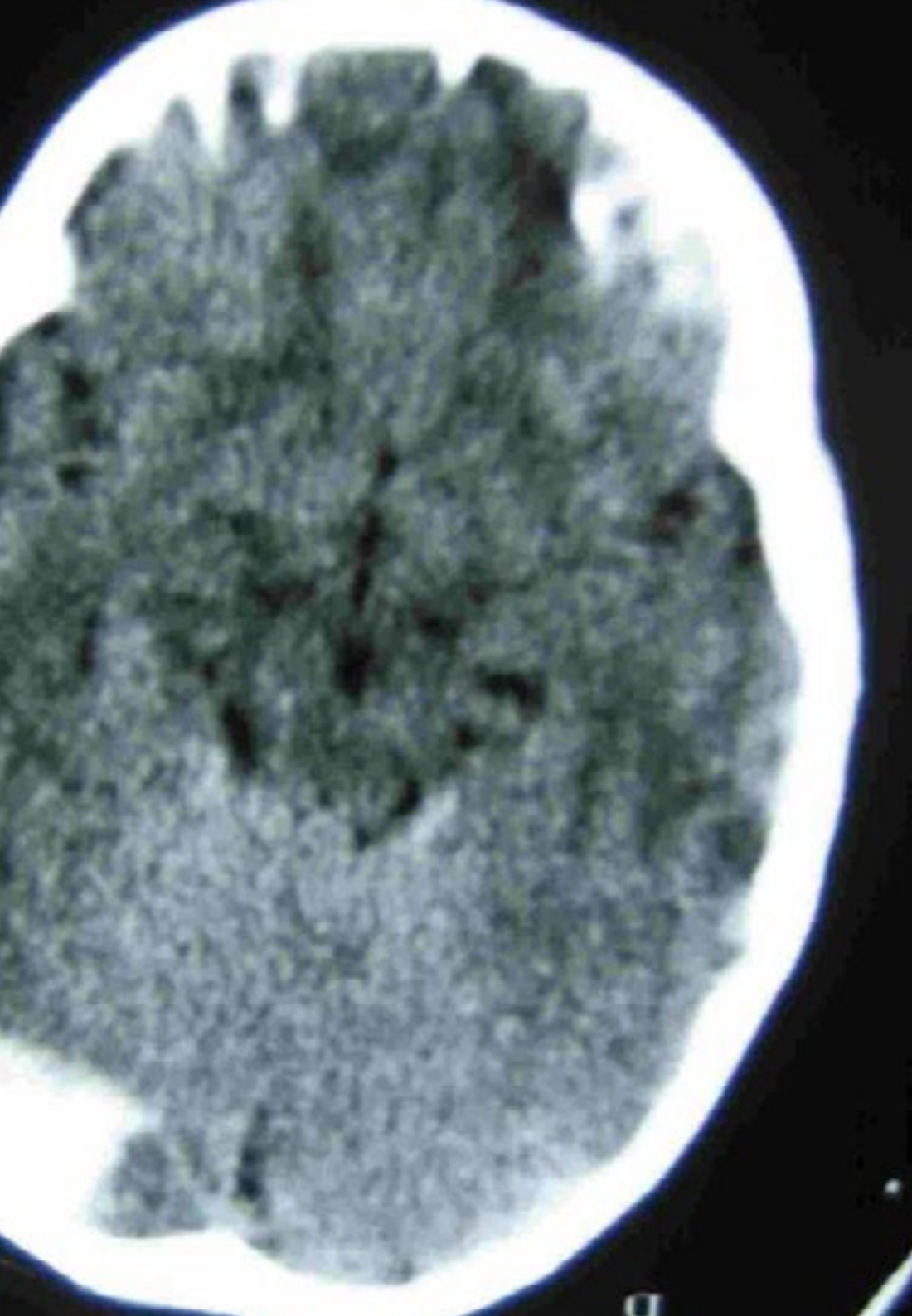
Professors

Dr. Rodríguez Rodríguez, Mario

- ♦ Specialist in Thrombophilia and Hemostasis at the University Hospital 12 de Octubre
- ♦ Specialist in Thrombophilia and Hemostasis and in the Basic and Special Coagulation Laboratory at the 12th October University Hospital
- ♦ Participation in quality work for ENAC accreditation in the coagulation laboratory at the 12th October University Hospital
- ♦ Graduate in Medicine and Surgery from the Complutense University of Madrid
- ♦ Specialty in Hematology and Hemotherapy at the 12th October University Hospital

Dr. Sánchez Pina, José María

- ♦ Specialist in Hospitalization and Hematopoietic Transplantation at the 12th October University Hospital
- ♦ Member of the Cell Therapy Group at 12th October Hospital
- ♦ Degree in Medicine from the University of Alcalá
- ♦ Specialty in Hematology and Hemotherapy at the 12th October University Hospital
- ♦ Master's Degree in Hematopoietic Transplantation 4th Edition by the University of Valencia



Dr. Carreño Gómez-Tarragona, Gonzalo

- ♦ Hematology and Hemotherapy Service of the 12th October University Hospital
- ♦ Researcher Specializing in Molecular Etiopathogenesis of Hematological Neoplasms
- ♦ Degree in Medicine from the Autonomous University of Madrid
- ♦ Master's Degree in Hematopoietic Transplantation from the University of Valencia
- ♦ Member of the Clinical Research Ethics Committee of the 12th October University Hospital

Dr. Paciello Coronel, María Liz

- ♦ Specialty in Hematology and Hemotherapy at the 12th October University Hospital
- ♦ Hematology resident tutor at 12th October Hospital
- ♦ Collaborator in clinical trials as principal investigator and sub-investigator
- ♦ Graduated in Medicine and Surgery from UNA
- ♦ Specialty in Hematology and Hemotherapy at the La Fe University Hospital



*A unique, key, and decisive
educational experience to boost
your professional development"*

04

Structure and Content

The teaching program has been created by a group of professors and medical professionals from various specialties, with extensive medical, research, and teaching experience in several countries in Africa, Central and South America, interested in integrating the latest and most current scientific knowledge in hematology and hemotherapy to ensure training and professional development to improve the daily clinical practice of professionals.



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We have the most complete and up-to-date academic program in the market. We strive for excellence and for you to achieve it too"

Module 1. Scientific Developments in Spinal Cord Disorders

- 1.1. Medullary Aplasia
 - 1.1.1. Definition
 - 1.1.2. Epidemiology and Etiology
 - 1.1.3. Clinical Manifestations
 - 1.1.4. Clinical and Staged Diagnosis according to Diagnostic Tests
 - 1.1.5. Latest Treatment Recommendations
- 1.2. Myelodysplastic Syndromes: Latest Classifications
 - 1.2.1. Definition
 - 1.2.2. Epidemiology
 - 1.2.3. Clinical Manifestations
 - 1.2.4. Diagnosis and Current Classifications
 - 1.2.5. Current Review of the Treatment and Use of Hypomethylating Therapy
- 1.3. Updated Approach to Agranulocytosis
 - 1.3.1. Definition
 - 1.3.2. Epidemiology and Etiology
 - 1.3.3. Clinical Manifestations
 - 1.3.4. Diagnostic Complexities
 - 1.3.5. New Scientific Developments in Therapeutics
- 1.4. Polycythemia Vera
 - 1.4.1. Definition
 - 1.4.2. Epidemiology
 - 1.4.3. Clinical Manifestations
 - 1.4.4. Diagnosis
 - 1.4.5. Current Treatment Alternatives
- 1.5. Essential Thrombocythemia
 - 1.5.1. Definition
 - 1.5.2. Epidemiology
 - 1.5.3. Clinical Manifestations
 - 1.5.4. Diagnosis
 - 1.5.5. Treatment Review





- 1.6. Chronic Idiopathic Myelofibrosis
 - 1.6.1. Definition
 - 1.6.2. Epidemiology
 - 1.6.3. Clinical Manifestations
 - 1.6.4. Diagnosis
 - 1.6.5. Therapeutic Approaches
- 1.7. Hypereosinophilic Syndrome
 - 1.7.1. Definition
 - 1.7.2. Epidemiology
 - 1.7.3. Clinical Manifestations
 - 1.7.4. Diagnostic Complexities
 - 1.7.5. Treatment: Literature Review
- 1.8. Mastocytosis
 - 1.8.1. Definition
 - 1.8.2. Epidemiology
 - 1.8.3. Clinical Manifestations
 - 1.8.4. Use of Diagnostic Tests
 - 1.8.5. Alternative Treatments



Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"

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. Gérvás, 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.





06 Certificate

The Postgraduate Certificate in Scientific Developments in Spinal Cord Disorders 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 private qualification will allow you to obtain a **Postgraduate Certificate in Scientific Developments in Spinal Cord Disorders** 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** private qualification 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 Scientific Developments in Spinal Cord Disorders**

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Accreditation: **5 ECTS**





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