

Postgraduate Certificate

Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology





Postgraduate Certificate

Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

6 ECTS Credits

Teaching Hours: 150 hours.

Website: www.techtitude.com/medicine/postgraduate-certificate/postgraduate-certificate-subarachnoid-hemorrhage-intracranial-aneurysmal-pathology

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01

Introduction

Spontaneous subarachnoid hemorrhage is a specifically neurosurgical entity, but multiple specialties are involved in its management, such as Neurology, Emergency Medicine, Neuroradiology and Intensive Care Medicine. The study of cerebral aneurysms is directly related to subarachnoid hemorrhage and its treatment and prevention.

With this complete training you will learn the basic principles of diagnosis and treatment of subarachnoid hemorrhage, as well as the characteristics of cerebral aneurysms according to their location and size, correlating it with the clinical presentation and prognosis.



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A comprehensive program that will help you keep up to date with the latest techniques in Neurosurgery”

The Postgraduate Certificate in Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology I is an updated compilation of the pathologies that require study and treatment by Neurosurgery. The application of diagnostic and therapeutic algorithms enhances student learning and synthesizes the flow of information to facilitate its practical application in the student's environment.

The correct identification of the clinical features and diagnosis of subarachnoid hemorrhage, based on updated diagnostic diagrams that allow the identification of patients with suggestive clinical features and optimizing the performance of the diagnostic tests used, is the first step in the approach to this group of patients.

In a pathology with such a high morbimortality rate, it is essential to know and manage the diagnostic protocols of the main complications that may appear not only immediately, but also during the evolution of the disease, in order to treat and manage subarachnoid hemorrhage from a neurosurgical approach but coordinated with the Intensive Care Medicine services with the aim of minimizing complications and reducing neurological sequelae.

Rupture of intracranial aneurysms is the most frequent cause of spontaneous subarachnoid hemorrhage; however, in a percentage of patients other causes other than the presence of aneurysms are identified, among which non-aneurysmal perimesencephalic hemorrhage should be highlighted, which has specific characteristics in terms of prognosis and possibilities of recurrence that should be considered differentially.

The study of cerebral aneurysms is directly related to subarachnoid hemorrhage and its treatment and prevention. In the classification of aneurysms according to their location, both in anterior circulation aneurysms and posterior circulation aneurysms, the morphological characteristics of each location, the predominant clinical features and those features that may condition therapeutic decisions are summarized.

This **Postgraduate Certificate in Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology** is the most comprehensive and up-to-date educational program on the market. The most important features include:

- ◆ Practical cases presented by experts in Neurosurgery
- ◆ The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- ◆ The latest developments in Neurosurgery
- ◆ Practical exercises where the self-assessment process can be carried out to improve learning
- ◆ Special emphasis on innovative methodologies in neurosurgery
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work.
- ◆ Content that is Accessible from any Fixed or Portable device with an Internet Connection



Expand your knowledge through this Postgraduate Certificate that will allow you to specialize with a view to achieving excellence in this field"

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This Postgraduate Certificate is the best investment you can make when selecting a refresher program for two reasons: in addition to updating your knowledge of Neurosurgery, you will obtain a qualification endorsed by TECH"

The teaching staff includes medical professionals who bring their experience to this training 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 an immersive training experience designed to train for real-life situations.

The design of this program is centered around Problem-Based Learning, in which the medical professional will resolve professional practice situations that may arise throughout the program. For this purpose, the specialist will be assisted by an innovative interactive video system created by renowned experts in Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology.

Do not hesitate to take this training with us. You will find the best teaching material with virtual lessons.

This Postgraduate Certificate 100% online course will allow you to combine your studies with your professional work while increasing your knowledge in this field.



02

Objectives

The Postgraduate Diploma in Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology is aimed at aiding the professional Postgraduate Certificate performance with the latest advances and most innovative treatments in the sector.





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Thanks to this Postgraduate Certificate you will be able to specialize in Neurosurgery and learn about the latest advances in the field”



General Objectives

- ◆ Acquire more in-depth knowledge of the speciality, with a practical approach to help professionals apply the information learned in their clinical practice, focusing on the latest diagnostic and therapeutic guidelines and the most recent scientific evidence.
- ◆ Learn the latest surgical techniques that have been implemented in recent years along with the knowledge of technological development in multiple areas of Neurosurgery



Thanks to this Postgraduate Certificate you will be able to specialize in Neurosurgery and learn about the latest advances in the field"





Specific Objectives

- ◆ Specialize in the basic principles of diagnosis and treatment of subarachnoid hemorrhage, both from a neurosurgical perspective and from the perspective of the intensivist. Identify the most important complications, their timeline, and basic tools for preventing and treating them.
- ◆ Learn the clinical characteristics of cerebral aneurysms according to their location and size, correlating it with the clinical presentation and prognosis. Understand the differential characteristics of certain types of aneurysms according to their etiology
- ◆ Discuss the advantages and disadvantages of surgical and endovascular treatment in the treatment of cerebral aneurysms, and know the main indications of each of the therapeutic alternatives depending on the location and shape of the aneurysm
- ◆ Gain in-depth knowledge of the main multicenter studies whose results and conclusions have determined the management of unruptured cerebral aneurysms, and how they have modified the choice of the type of treatment

03

Course Management

The program includes in its teaching staff leading experts in Neurosurgery, who bring to this training the experience from their work. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.



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*Leading experts in Neurosurgery have
joined forces to share all their knowledge
in the field with you”*

Management



Dr. Fernández Carballal, Carlos

- ◆ Head of the Spinal Pathology Section. Neurosurgery Service
- ◆ Gregorio Marañón General University Hospital
- ◆ Associate Neurosurgery Professor. Faculty of Medicine. Complutense University of Madrid
- ◆ PhD in Surgery from the Autonomous University of Madrid Faculty of Medicine, obtaining the qualification of outstanding cum laude.
- ◆ Member of the Spanish Society of Neurosurgery, Member of the Neurorachis Society, Member of the Spanish Society of Functional Neurosurgery (SENE)
- ◆ Master's Degree in Medical and Clinical Management from the Spanish Distance University (UNED).
- ◆ Degree in Medicine (University of Navarra, 1999)

Professors

Dr. Poveda, José Manuel

- ◆ Neurosurgery Department. Gregorio Marañón General University Hospital
- ◆ Degree in Medicine. Central University of Venezuela

Dr. Sierra, Olga Mateo

- ◆ Neurosurgery Professor. Complutense University of Madrid
- ◆ Neurosurgery Department. Gregorio Marañón General University Hospital
- ◆ Degree in Medicine and Surgery, Autonomous University of Madrid



04

Structure and Content

The structure of the content has been designed by the best professionals in the Neurosurgery sector, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and with extensive knowledge of new technologies applied to teaching.

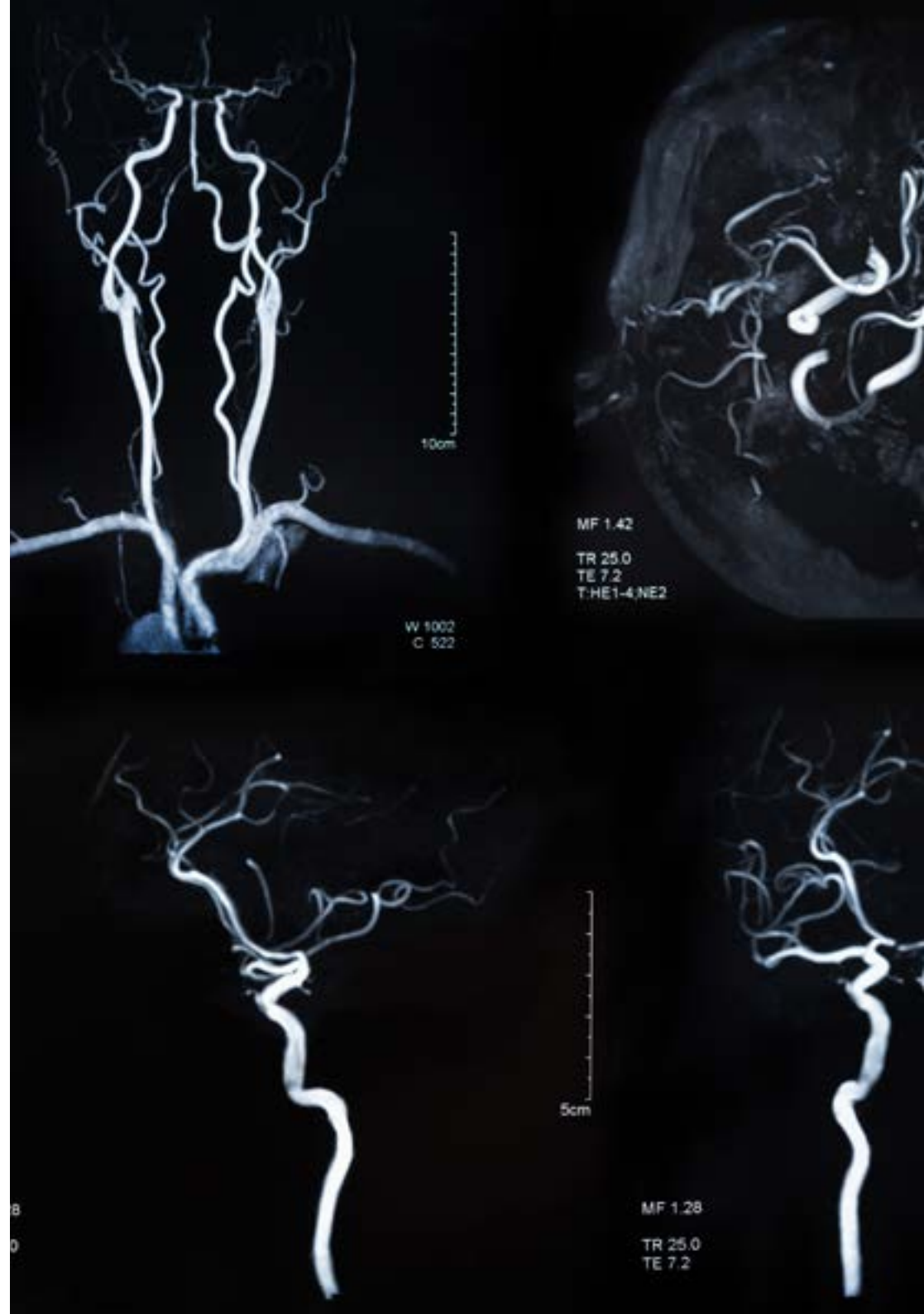


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This Postgraduate Certificate in Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology is the most comprehensive and up-to-date scientific program on the market”

Module 1. Vascular Pathology I. Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology

- 1.1. Subarachnoid Hemorrhage: Clinical, Diagnostic, and Neurological Prognosis
- 1.2. Subarachnoid Hemorrhage Complications
- 1.3. Treating and Managing Patients with Subarachnoid Hemorrhage
- 1.4. NonAneurysmal Subarachnoid Hemorrhage
- 1.5. Anterior Circulation Aneurysms
- 1.6. Posterior Circulation Aneurysms
- 1.7. Natural History and Treatment of Unruptured Brain Aneurysm
- 1.8. Surgical Treatment of Intracranial Aneurysms
- 1.9. Endovascular Treatment of Intracranial Aneurysms
- 1.10. Mycotic and Traumatic Aneurysms





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This will provide key training to advance your career”

05 Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

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 Re-learning, 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 abundant 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.



Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking 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 high socioeconomic profile and an average age of 43.5 years old.

Re-learning 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 multimedia content presentation training Exclusive system 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 & Re-testing

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 your goals.



Classes

There is scientific evidence on the usefulness of learning by observing experts: The system termed Learning from an Expert strengthens knowledge and recall capacity, and generates confidence in the face of difficult decisions in the future.



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 Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology** guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by **TECH Technological University**.





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*Successfully complete this training program
and receive your university certificate without
travel or laborious paperwork”*

This **Postgraduate Certificate in Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology** is the most comprehensive and up-to-date scientific program on the market.

After passing the evaluation, the student will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery.

This diploma contributes to the academic development of the professional and adds a high university curricular value to their training. It is 100% valid in all competitive examinations, labour exchanges and professional career evaluation committees.

Title: **Postgraduate Certificate in Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology**

ECTS: **6**

Official N° of Hours: **150 hours**.



*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
development languages
virtual classroom



Postgraduate Certificate
Subarachnoid Hemorrhage
and Intracranial
Aneurysmal Pathology

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

6 ECTS Credits

Teaching Hours: **150 hours.**

Postgraduate Certificate

Subarachnoid Hemorrhage and Intracranial Aneurysmal Pathology

