



Postgraduate Certificate

Surgical and Endovascular Treatment of Vascular Diseases

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/surgical-endovascular-treatment-vascular-diseases

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Certificate





tech 06 | Introduction

Due to the constant evolution in surgical and endovascular treatments for diseases in this field, it has become necessary to take giant steps when updating techniques and the latest medical studies. Due to these modernizations, surgical and endovascular treatments are becoming less invasive and more effective, which leads to a further in-depth study in order to be able to master them and apply them in daily practice.

In the case of aortic aneurysm disease, for example, endovascular treatments in recent years have allowed faster and more effective treatment compared to open surgery. There has also been significant progress in the approach to complications such as embolism, hemorrhage or ischemia, so the specialist must be aware of the latest developments related to these cases.

With this in mind, TECH has developed a specific program in this area, delving into reinterventions in vascular surgery, management of perioperative complications and also those arising from vascular surgeries, with the help of an updated plan created by experts in the area. In this way, specialists will have access to a program in a 100% online format, being able to combine it with their daily and professional activities without having to sacrifice any aspect of their lives.

This Postgraduate Certificate in Surgical and Endovascular Treatment of Vascular Diseases contains the most complete and up-to-date scientific program on the market. The most important features include:

- Practical cases presented by experts in vascular surgery
- 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
- Content that is accessible from any fixed or portable device with an Internet connection



You will delve into the expert and up to date management of perioperative complications and those derived from vascular surgeries"



Incorporate into your daily practice the work methodology to be followed when facing complications in Vascular Diseases such as thrombosis, hemorrhages or infections"

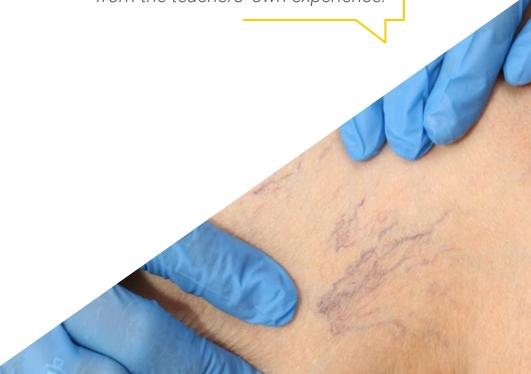
The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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

You will have total freedom to adapt all the content to your own pace, as there are no presential classes or fixed schedules.

You will be able to contextualize all the theory covered with numerous clinical cases and detailed analyses drawn from the teachers' own experience.







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General Objectives

- Learn about the structure and function of blood vessels, both arterial and venous, and the regulation of blood flow in the microcirculation
- Delve into the epidemiology and Risk Factors
- Update knowledge on the main risk factors for the development of vascular diseases and the strategies for primary and secondary prevention
- Gain in-depth understanding of the pathophysiology of vascular diseases
- Inquire into the different diagnostic methods
- Delve into the diagnostic techniques used in vascular pathology, including clinical examination and vascular semiology, imaging methods, laboratory diagnosis and study of vascular function and hemodynamics
- Explain the different research methods and advances in vascular pathology, especially those focused on vascular pathology, including the development of new drug therapies, genetics and genomics in vascular diseases, and the development of new imaging techniques for the diagnosis and follow-up of vascular diseases







Specific Objectives

- Delve into the concepts of vascular surgery, including surgical techniques and procedures used for the treatment of vascular diseases
- Delve into endovascular treatment, including the use of catheters, guidewires, and devices for the treatment of vascular diseases
- Select appropriate patients for different surgical and endovascular procedures
- Delve into the complications associated with surgical and endovascular procedures, as well as techniques for their management
- Interpret and use different imaging techniques, such as angiography, ultrasound and tomography, for the diagnosis and follow-up of vascular diseases



You will be able to take to your daily practice the most advanced techniques and surgical treatments in Vascular Diseases"





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Management



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- Specialist in Angiology and Vascular Surgery
- European Board in Vascular Surger
- Permanent Correspondents of the Royal Academy of Medicine and Surgery
- Professor at Miguel de Cervantes European University
- Associate Teacher in Health Sciences, University of Valladolid

Professors

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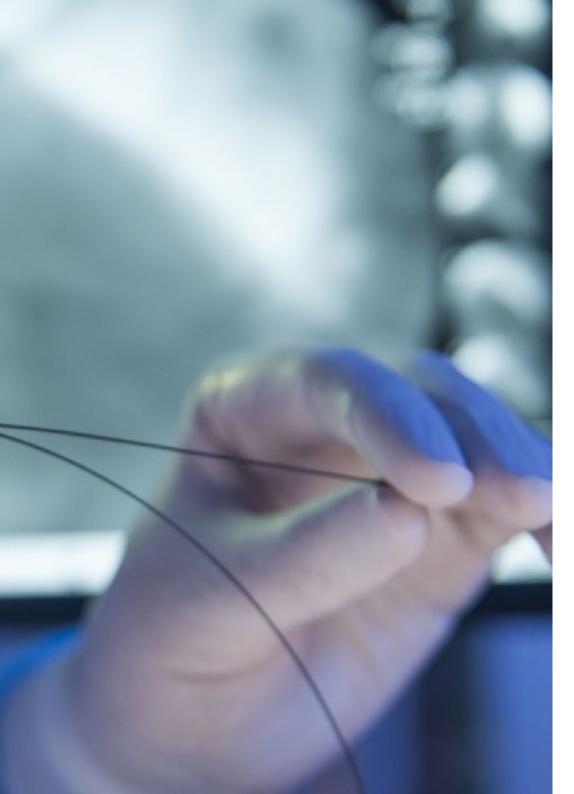


tech 18 | Structure and Content

Module 1. Surgical and Endovascular Treatment of Vascular Diseases

- 1.1. Vascular Surgery
 - 1.1.1. Vascular anatomy: structures and function of the circulatory system
 - 1.1.2. Vascular pathologies: diseases and disorders affecting the blood vessels
 - 1.1.3. Revascularization surgery: surgical procedures to restore blood flow
- 1.2. Principles of Endovascular Surgery
 - 1.2.1. Vascular access: techniques to reach the site of intervention inside the body
 - 1.2.2. Device selection: choice of appropriate materials and tools for each procedure
 - 1.2.3. Imaging techniques: use of technology to guide the procedure and monitor the outcome
- 1.3. Selection of the treatment method: criteria and decisions
 - 1.3.1. Severity of the disease: determination of the severity of the pathology and its impact on the patient's health
 - 1.3.2. Location of the lesion: consideration of the location of the vascular problem and surgical accessibility
 - 1.3.3. Patient's health status: assessment of the patient's general medical condition, including possible contraindications
- 1.4. Surgical techniques: description and application
 - 1.4.1. Bypass surgery
 - 1.4.2. Endarterectomy
 - 1.4.3. Aneurysmectomy
- 1.5. Endovascular techniques: description and application
 - 1.5.1. Angioplasty: dilation of a narrowed artery by means of an inflatable balloon
 - 1.5.2. Vascular stent: placement of a metallic device to keep an artery open
 - 1.5.3. Embolization: deliberate obstruction of a blood vessel to treat a lesion or malformation
- 1.6. Vascular Surgery Complications
 - 1.6.1. Thrombosis: formation of blood clots
 - 1.6.2. Hemorrhage: excessive bleeding during or after the procedure
 - 1.6.3. Infection: development of an infection at the site of the procedure





Structure and Content | 19 tech

- .7. Management of Perioperative Complications
 - 1.7.1. Monitoring of vital signs: constant monitoring of the patient's health during surgery and recovery
 - 1.7.2. Pharmacological treatment: administration of drugs to prevent or treat complications
 - 1.7.3. Additional surgical intervention: performance of rescue surgery to solve a complication
- 1.8. Reinterventions in Vascular Surgery
 - 1.8.1. Revision of anastomosis: correction of a junction between two blood vessels previously surgically joined
 - 1.8.2. Vascular prosthesis replacement: substitution of a previous vascular implant that has failed or generated complications
 - 1.8.3. Treatment of late complications: resolution of complications that arise after an initial vascular surgery



Enroll now and access a high quality multimedia library with a multitude of interactive resources and practical working guides"





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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.



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:

- 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.



Methodology | 25 tech

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.

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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.









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This program will allow you to obtain your **Postgraduate Certificate in Surgical and Endovascular Treatment of Vascular Diseases** 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 Surgical and Endovascular Treatment of Vascular Diseases

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



has successfully passed and obtained the title of:

Postgraduate Certificate in Surgical and Endovascular Treatment of Vascular Diseases

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



health confidence people
leducation information tutors
guarantee accreditation teaching
institutions technology learning



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