

# Postgraduate Certificate

Dupuytren's Disease, Tumors  
and Vascular Diseases of the Hand





## Postgraduate Certificate

### Dupuytren's disease, Tumors and Vascular Vascular Diseases of the Hand

- » 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/dupuytren-s-disease-tumors-vascular-disease-hand](http://www.techtute.com/us/medicine/postgraduate-certificate/dupuytren-s-disease-tumors-vascular-disease-hand)

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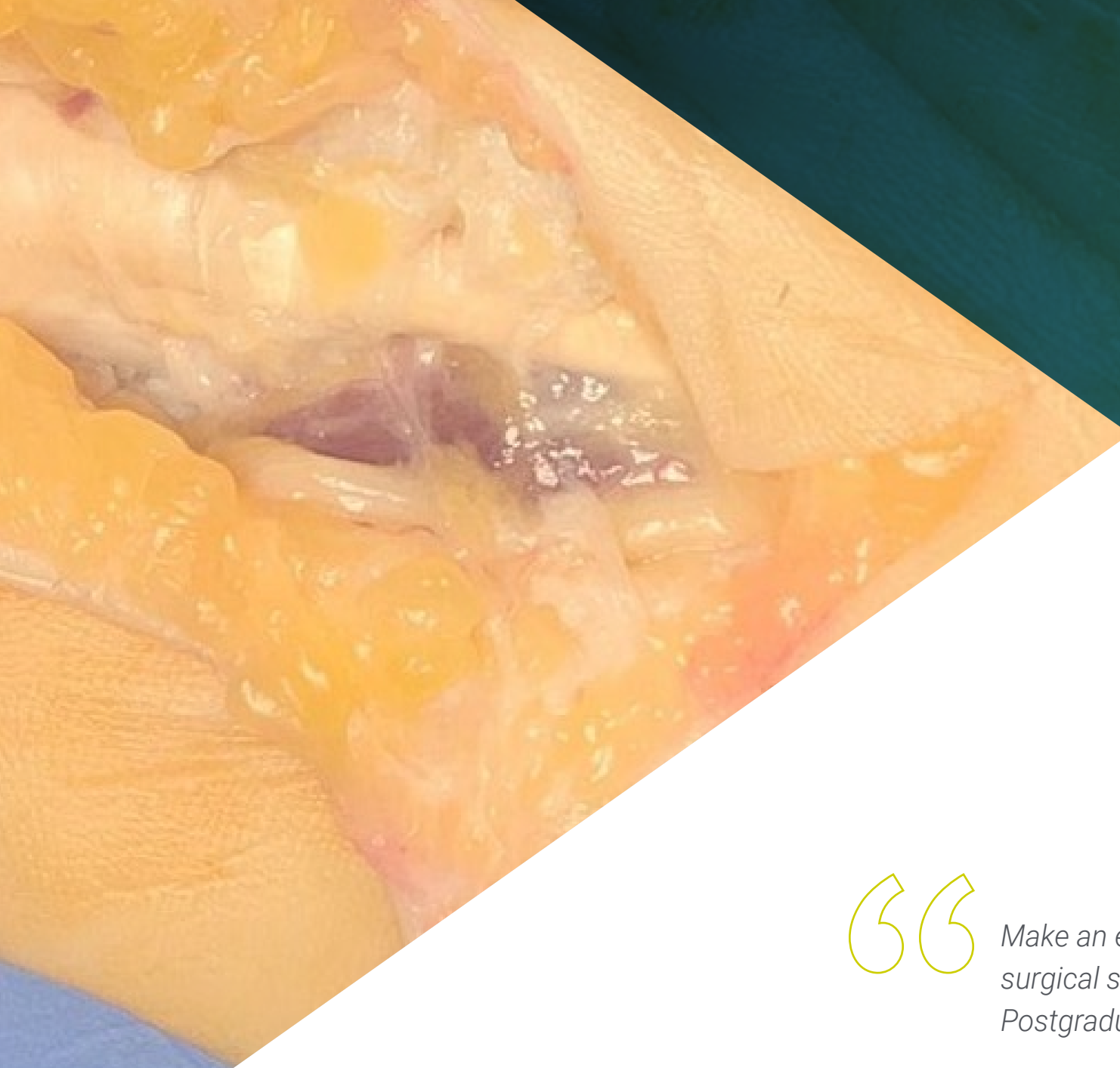
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# 01

# Introduction

Advances in technology and research have led to a better understanding of Dupuytren's Disease, Tumors and Vascular Diseases of the Hand. This has led to the development of new techniques and treatment alternatives for optimal results. Advances that lead professionals to be in a permanent updating of their knowledge. Therefore, in order to promote such updating, TECH has created this 100% online program that delves through a dynamic methodology in these pathologies, diagnostic procedures and existing therapeutic options. All this, in addition, with a syllabus developed by real experts in this specialty and with numerous first class teaching materials.





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*Make an effective update of your surgical skills through this 100% Postgraduate Certificate"*

The evolution of surgical techniques in Hand Surgery has allowed the reduction of patients' recovery times, as well as a greater effectiveness in the treatments used. Evidence of this is the use of the percutaneous needle technique to treat Dupuytren's disease, selective embolization for vascular tumors or bone reconstruction in patients with tumors.

These advances undoubtedly require constant updating of surgeons' theoretical and practical knowledge. For this reason, TECH has designed this Postgraduate Certificate in Dupuytren's Disease, Tumors and Vascular Diseases of the Hand of 180 teaching hours

An academic itinerary that compiles in just 6 weeks the latest scientific evidence on the use of certain intervention and diagnostic techniques, as well as the most effective processes to deal with the main complications that arise when managing these pathologies. An advanced syllabus that becomes even more attractive thanks to the video summaries, detailed videos, specialized readings and clinical case studies.

In addition, thanks to the Relearning method, based on the continuous reiteration of the most important concepts, the student will be able to consolidate them in a simple way and reduce the long hours of memorization so frequent in other pedagogical models.

It is a program that has also been planned to facilitate the reconciliation of professional and personal daily activities with a flexible academic proposal. Therefore, students only need a digital device with an internet connection to visualize, at any time of the day, the content hosted on the virtual platform.m. In this way, this program is an ideal option for medical specialists, without the need for classroom attendance or restricted class schedules.

This **Postgraduate Certificate in Dupuytren's Disease, Tumors and Vascular Diseases of the Hand** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in Upper Limb Surgery, Orthopedic Surgery and Traumatology
- ♦ 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



*A program that focuses on the most advanced technique to intervene patients with malignant soft tissue and bone tumors"*



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*TECH adapts its methodology to your needs and your motivation to continuously improve your knowledge”*

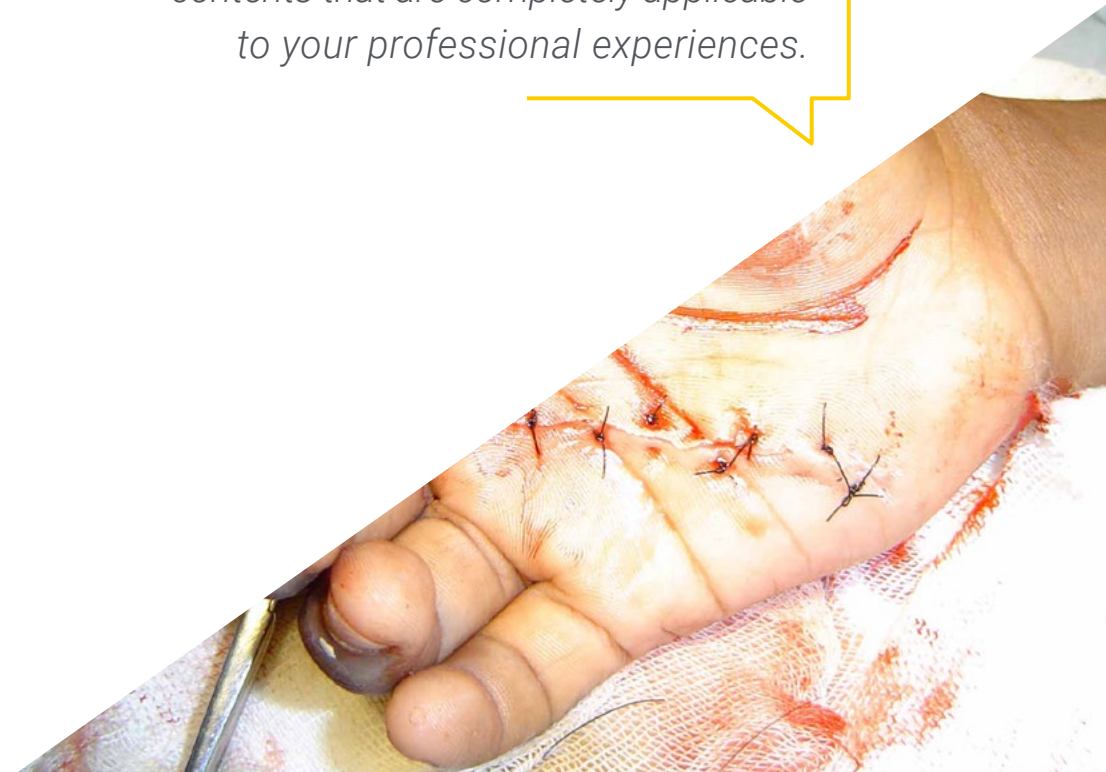
The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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.

*The multimedia pills will facilitate your update on the approach to Hypotenar Hammer Syndrome and Raynaud's Disease.*

*The teaching materials of this program, elaborated by these specialists, have contents that are completely applicable to your professional experiences.*



# 02 Objectives

The purpose of this academic option is to provide the surgeon with an update on diagnostic methods and surgical planning to treat Dupuytren's Disease, Tumors and Vascular Diseases of the Hand. To this end, the teaching team has developed quality multimedia content and proposes clinical case studies that will be of great use in the daily practice of specialists. A unique opportunity for updating that only TECH, the largest digital university in the world, can offer.







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*You will be able to integrate in your practice the most effective methodology to solve the main complications of Nerve Tumors"*



## General Objectives

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- ♦ Update knowledge in the different medical and basic specialties surrounding hand pathology
- ♦ Determine the types of wound healing, sutures and skin grafts to specify the treatment of less complex wounds; escalating to the management of complex wounds
- ♦ Analyze the basic anatomy of the wrist and hand to provide a starting point from which to recognize injuries that may occur after trauma or injury of any kind
- ♦ Analyze different surgical approaches to the hand
- ♦ Compile current arthroscopic treatment methods
- ♦ Establish general criteria for the anatomy and pathophysiology of osteoarthritis in the various joints of the wrist and hand
- ♦ Analyze in detail the anatomy of the flexor and extensor tendons of the hand, as well as the detailed development of their vascularization and the biology of tendon healing
- ♦ Homogenize knowledge and skills in the pathology of the peripheral nerve of the upper limb and brachial plexus
- ♦ Update diagnostic and therapeutic knowledge based on the fundamental principles of nerve and brachial plexus injuries
- ♦ Guide the different therapeutic options (conservative and surgical) as well as the appropriate time to perform them
- ♦ Examine the different surgical techniques used in the treatment of the different pathologies of the pediatric upper limb
- ♦ Develop the latest technological advances in Hand Surgery



*It delves into the different stages of Dupuytren's disease and its classification in a dynamic way thanks to the best didactic material"*



## Specific Objectives

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- ♦ Delve into the surgical anatomical knowledge of the palmar fascia
- ♦ Delve into the pathophysiological stages of Dupuytren's disease and the clinical classification of the disease
- ♦ Examine the different techniques for the treatment of Dupuytren's disease, both with collagenase (not available in Europe) and by selective regional fasciectomy
- ♦ Evaluate surgical incisions for primary surgery, complications and sequelae in Dupuytren's disease
- ♦ Develop vascular pathology in the hand, both tumors and malformations, as well as Raynaud's disease and hypothenar hammer syndrome
- ♦ Analyze soft tissue and bone tumors of the hand and establish the best diagnostic techniques
- ♦ Delve into the surgical treatment techniques adapted to the most common tumors, taking into account their prognosis of recurrence



# 03

## Course Management

TECH has gathered in this program a teaching team specialized in Traumatology, Hand Surgery with an accumulated surgical experience in Upper Limb. Their deep knowledge in this field is evident throughout the syllabus to which students will have access. Likewise, her excellent human qualities and closeness have been taken into account in TECH for her inclusion in this academic option. Thanks to it, students will be able to resolve any questions they may have about the content of the Postgraduate Certificate.







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*You are looking at a syllabus prepared by Traumatologists and Surgeons specialized in Upper Limb”*

## Management



### Dr. Ríos García, Beatriz

- ◆ Medical Specialist in Orthopedic Surgery and Traumatology in the Hand and Microsurgery Unit at the Monographic Hospital of Orthopedic Surgery and Traumatology ASEPEYO
- ◆ Medical Specialist in Orthopedic Surgery and Traumatology (Dr. Rayo and Amaya Team) at the Hospital San Francisco de Asís
- ◆ Resident Tutor at the Hospital ASEPEYO
- ◆ Medical Specialist in Hand Surgery (Dr. de Haro Team) at the San Rafael Hospital
- ◆ Teacher of Knee, Shoulder, Osteosynthesis, Locomotor System and Ultrasound Pathology Courses
- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid
- ◆ Member of:
  - ◆ Spanish Society of Orthopedic Surgery and Traumatology
  - ◆ Spanish Society of Occupational Traumatology
  - ◆ Spanish Society of Hand Surgery and Microsurgery



### **Dr. Valdazo Rojo, María**

- ◆ Traumatology and Orthopedic Surgery Service at the Hospital Universitario San Francisco de Asís
- ◆ Traumatology and Orthopedic Surgery Area Specialist at the Hospital Fundación Jiménez Díaz
- ◆ Specialist in Traumatology and Orthopedic Surgery at the Albacete University Hospital Complex
- ◆ Professor of Medicine at the Universidad Alfonso X el Sabio, Madrid
- ◆ Professor of Medicine at the Autonomous University of Madrid
- ◆ Professor of Medicine at the University of Albacete
- ◆ PhD in Medicine and Surgery from the Complutense University of Madrid
- ◆ Graduated from the Universidad Autónoma de Madrid

## Professors

### Mr. Dávila Fernández, Fernando

- ♦ Coordinator of the Upper Limb Unit at the Hospital del Bidasoa
- ♦ Medical specialist in the Hand, Peripheral Nerve and Ultrasound-guided Surgery Unit Sendagrup Associated Doctors
- ♦ Assistant Doctor in the Orthopedic Surgery and Traumatology Service of the Pakea Clinic of Mutualia
- ♦ Associate researcher in clinical trial: "A Multicenter, Open-label study of SI-6603 in Patients with Lumbar Disc Herniation (Phase III)"
- ♦ Associate researcher in clinical trial: A phase 2b, randomized, double-blind, placebo-controlled, study to evaluate the safety and efficacy of staphylococcus aureus 4-antigen (sa4ag) vaccine in adults undergoing elective posterior instrumented lumbar spinal fusion procedures
- ♦ Honorary Professor in the Faculty of Health Sciences at the Universidad Rey Juan Carlos, Madrid
- ♦ Degree in Medicine from the Complutense University of Madrid







**Dr. Pérez Abad, Miguel**

- ♦ Medical specialist in the Hand Unit of the Maresme Health Consortium of Mataró
- ♦ Physician at Institut Kaplan
- ♦ Medical Specialist in the Hand Unit of the San Joan de Deu Hospital in Manresa
- ♦ Resident tutor at Hospital San Joan de Deu Manresa
- ♦ Co-author of the book Dorsal capsulodesis for treatment of scapholunate injuries. Chapter 23 in: Operative techniques in Orthopaedic Surgery
- ♦ Graduate in Medicine and Surgery from the Universidad de Navarra
- ♦ PhD in Medicine and Surgery from the University of Barcelona

**Dr. Mena Rosón, Araceli**

- ♦ Specialist in Orthopedic and Trauma Surgery
- ♦ Specialist in Traumatology at the Hospital Universitario Príncipe de Asturias
- ♦ Author of numerous publications in scientific journals
- ♦ Speaker at congresses related to his specialty

# 04

## Structure and Content

This Postgraduate Certificate focuses on Dupuytren's Disease, Tumors and Vascular Diseases of the Hand. Therefore, over 6 weeks, it provides students with an update on diagnostic procedures, the most advanced techniques, as well as the results obtained with each of them and the possible complications. All from a theoretical-practical perspective and through the most innovative teaching material in the academic environment.







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*You have at your disposal an extensive library of teaching resources, accessible 24 hours a day, 7 days a week”*

## Module 1. Dupuytren's Disease, Tumors and Vascular Diseases

- 1.1. Dupuytren's disease. Homid diagnosis
  - 1.1.1. Epidemiology
  - 1.1.2. Anatomy of the Palmar Aponeurosis and Anatomy of the Digital Cords
    - 1.1.2.1. Clinical, Diagnosis: Classification
  - 1.1.3. Extra-Palmar Locations
- 1.2. Dupuytren's disease. Evolution
  - 1.2.1. Relapse
  - 1.2.2. Non-Surgical Treatment
  - 1.2.3. Progression
- 1.3. Dupuytren's disease surgical treatment
  - 1.3.1. Indications for surgical treatment
  - 1.3.2. Indications. Timing and surgical techniques
  - 1.3.3. Factors influencing long-term results
- 1.4. Dupuytren's disease. Surgical Planning
  - 1.4.1. Surgical Planning. Incisions
  - 1.4.2. Zetaplasty Modalities
  - 1.4.3. Rehabilitation
- 1.5. Treatment failures in Dupuytren's disease
  - 1.5.1. Complications of surgical treatment
  - 1.5.2. Recurrence
  - 1.5.3. Sequels







- 1.6. Vascular pathology in the hand
  - 1.6.1. Hypotenar Hammer Syndrome, Raynaud's disease
  - 1.6.2. Vascular Tumours
  - 1.6.3. Vascular Malformations
- 1.7. Benign Soft Tissue Tumors
  - 1.7.1. Classification of the most frequent tumors
  - 1.7.2. When to do surgery. Biopsy?
  - 1.7.3. Results and complications
- 1.8. Nerve Tumors
  - 1.8.1. Classification of the most common tumors
  - 1.8.2. When to operate and how
  - 1.8.3. Results and complications
- 1.9. Benign Bone Tumors. Pseudotumorous lesions
  - 1.9.1. Classification
  - 1.9.2. When to operate and how
  - 1.9.3. Results and complications
- 1.10. Malignant Tumors of Soft Parts and Bones
  - 1.10.1. Classification
  - 1.10.2. Surgical Management
  - 1.10.3. Results and complications

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*Delve through multimedia pills into the different incisions and surgical techniques in primary pathology of Dupuytren's disease”*

05

# Methodology

This academic program offers students a different way of learning. Our methodology follows a cyclical learning process: **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 assess 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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*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 prepared with unprecedented success in all clinical specialties regardless of surgical load. Our educational 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 adapted in 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 assess and re-assess 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 Dupuytren's Disease, Tumors and Vascular Diseases of the Hand 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 Dupuytren's Disease, Tumors and Vascular Diseases of the Hand** 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.

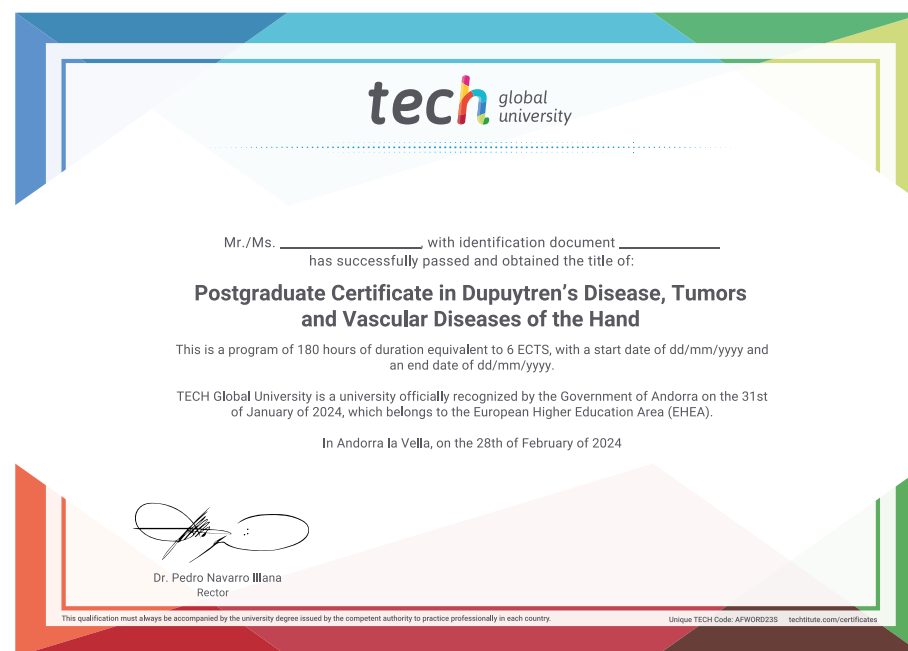
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Dupuytren's Disease, Tumors and Vascular Diseases of the Hand**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.





## Postgraduate Certificate

Dupuytren's disease,  
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# Postgraduate Certificate

Dupuytren's Disease, Tumors  
and Vascular Diseases of the Hand

