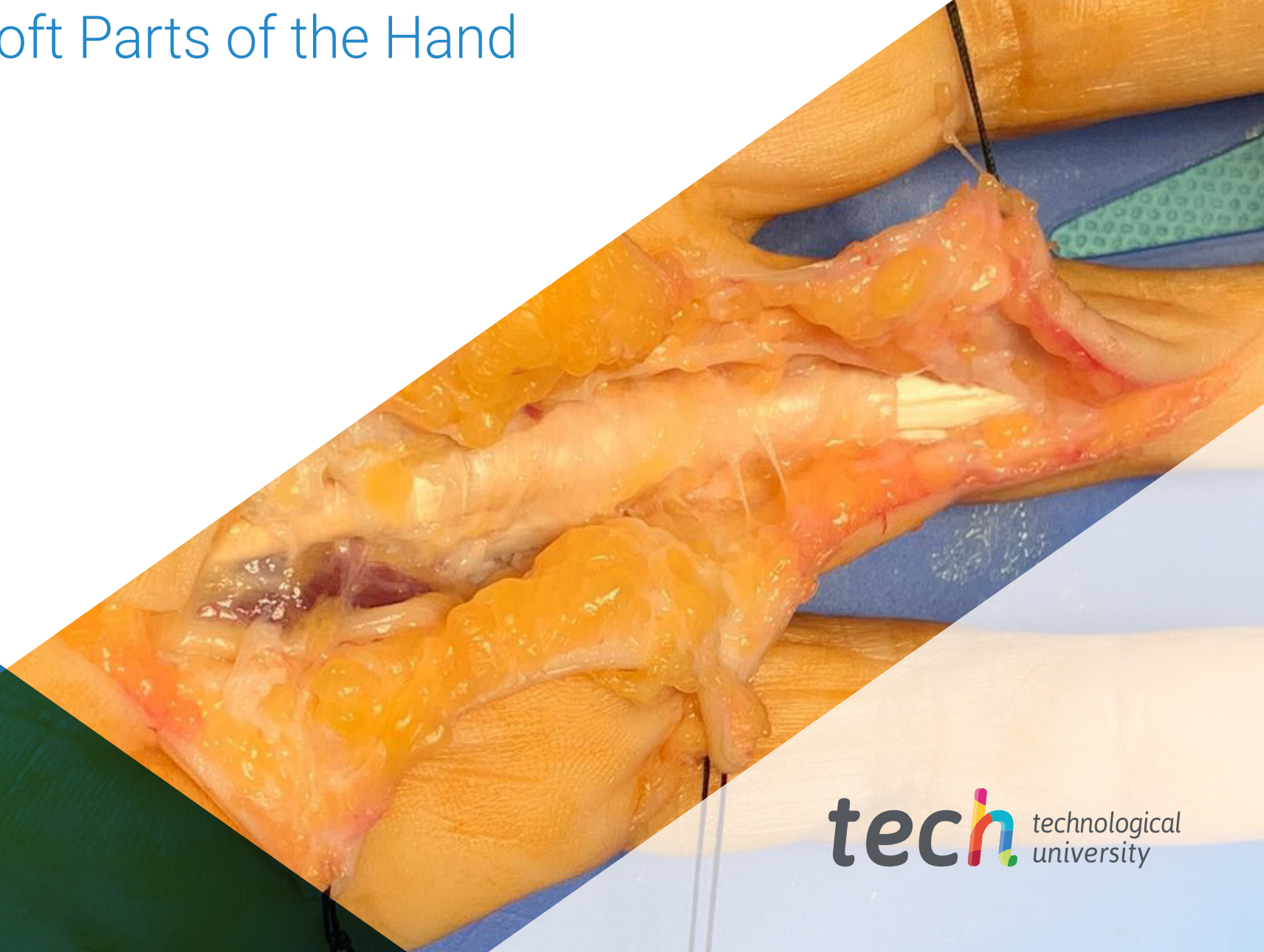


# Postgraduate Diploma

## Surgery of Soft Parts of the Hand





## Postgraduate Diploma

### Surgery of Soft Parts of the Hand

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-surgery-soft-parts-hand](http://www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-surgery-soft-parts-hand)

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# 01

# Introduction

Scientific research has found advanced surgical techniques that make it possible to treat lesions in the skin, subcutaneous tissue or nerves of the hand with great efficiency. Therefore, their less invasive nature contributes to the optimization of the patient's recovery periods, preserving excellent results that guarantee the recovery of functionality in a reduced time. Given the benefits they offer, knowledge of these advanced methods is essential for the specialist who wishes to keep up-to-date in their medical field. For this reason, TECH has created this program, which enables the student to delve into the sophisticated practices of microsurgery for nerve conditions or surgical advances in tendon pathologies, online and from home.



“

*Through this program, you will learn about the latest microsurgical techniques that allow you to deal with nerve disorders of the hand with maximum efficiency"*

Injuries to blood vessels, nerves or fascial structures of the hand have a serious impact on people's lives. They limit the performance of everyday movements such as writing, grasping household objects or performing manual work. As a result, the scientific society is committed to developing advanced surgical techniques that help to efficiently treat these conditions, guaranteeing full recovery of hand functionality in a short period of time. For this reason, specialists are obliged to have an in-depth knowledge of these advances in order to avoid falling behind in the evolution of their discipline.

Consequently, TECH has designed this program, which offers an excellent professional update to the physician in Soft Hand Surgery in only 450 hours. Throughout this academic period, you will be able to learn the latest techniques for finger reimplantation or the sophisticated methods for dealing with acute burns. Likewise, you will delve into the updated procedures for the conservative and surgical management of flexor stenosing tenosynovitis.

Since this program is developed through a revolutionary 100% online methodology, students will be able to develop their own study schedules to achieve effective learning. In the same way, you will have at your disposal didactic materials in formats such as readings, explanatory video or interactive summary. Thanks to this, you will have the possibility to update yourself by means of those supports that better adapt to your academic needs.

This **Postgraduate Diploma in Surgery of Soft Parts 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 Hand 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



*Identify, through this Postgraduate Diploma, the latest surgical techniques to treat acute burns of the hand"*

“

*Get up-to-date in Hand Soft Tissue Surgery from your own home thanks to the 100% online methodology presented in this program"*

*Delve into the latest surgical techniques to undertake finger reimplantation through this Postgraduate Diploma.*

*Get up-to-date in this medical field with specialists who actively practice in leading areas of Hand Surgery.*

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.



# 02 Objectives

The design of this Postgraduate Diploma has been carried out with the premise of providing the specialist with the most updated knowledge on Hand Soft Tissue Surgery. Thanks to this program, you will identify the most advanced techniques to deal with complex skin burns or delve into the use of microsurgery to treat nerve injuries. This update will be preserved through the achievement of the following general and specific objectives.





“

*Delve into up-to-date surgical techniques to treat severe hand skin burns through this program"*



## 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
- Structure the bony and ligamentous anatomy of metacarpals and phalanges of the hand
- 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
- Delve into the anatomical and pathophysiological knowledge of Dupuytren's disease through physical examination and accurate use of the classification of the disease, to determine the appropriate timing of surgical treatment
- Analyze the surgical techniques available in primary and relapsed Dupuytren's disease and the sequelae of previous treatments
- Show the advantages of ultrasound for daily practice in Traumatology.
- Explore occupational hand-wrist injuries
- Develop the latest technological advances in Hand Surgery



*In just 6 months, you will acquire a body of knowledge that will position you as a specialist at the forefront of Soft Hand Surgery"*



## Specific Objectives

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### Module 1. Hand Skin, Soft Parts and Infections

- ♦ Examine types of hand wounds, wound healing and types of sutures
- ♦ Delve into the knowledge of skin grafts
- ♦ Analyze the use of microsurgery for skin coverage in the Hand, as well as for reimplantation
- ♦ Analyze infections of the hand, cellulitis, tenosynovitis, arthritis and osteomyelitis
- ♦ Determine detailed management of the burned hand and its consequences

### Module 2. Tendon Injuries of the Hand

- ♦ Examine in detail the anatomy and vascularization of the flexor and extensor tendons and analyze their biomechanics
- ♦ Delve into the diagnosis and prognosis of flexor tenosynovitis of the fingers, as well as its complications
- ♦ Evaluate extensor tenosynovitis from its initial diagnosis to its conservative and surgical treatment
- ♦ Examine the different tendon suturing techniques in different flexor tendon areas, as well as types of post-surgical immobilization and initiation of rehabilitative therapy
- ♦ Identify extensor tendon rupture zones and their optimal treatment, as well as their rehabilitation protocol
- ♦ Delve into the complications of extensor tendon sutures and their treatment
- ♦ Analyze flexor suture failures and their treatment

### Module 3. Dupuytren's Disease, Tumors and Vascular Diseases

- ♦ 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 hypothernar 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

In order to guarantee the excellent educational level so characteristic of TECH programs, top specialists in Orthopedic Surgery and Traumatology have been selected to direct and teach this program. These doctors are great experts in the treatment of hand pathologies of various kinds and have developed their functions in leading hospitals in Spain. Consequently, the knowledge they will transfer to their students will be fully useful in daily practice.



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*Enjoy a Postgraduate Diploma taught by leading experts in Hand Surgery, who have worked in prestigious leading hospitals"*

## International Guest Director

Doctor David A. Kulber, is an internationally renowned personality in the field of Plastic and Hand Surgery. In fact, he has a distinguished career as a long-term member of the Cedars-Sinai Medical Group, his practice encompasses a wide range of plastic, reconstructive, cosmetic and hand procedures. He has served as Director of Hand and Upper Limb Surgery, and as Director of the Plastic Surgery Center, both positions at Cedars-Sinai Medical Center in California, United States.

His contribution to the medical field has been recognized nationally and internationally, and he has published nearly 50 scientific studies presented to prestigious medical organizations worldwide. In addition, he has been known for his pioneering work in bone and soft tissue regeneration research using stem cells, innovative surgical techniques for Hand Arthritis and advances in breast reconstruction. He has also received multiple awards and grants, including the prestigious Gasper Anastasi Award, given by the American Society for Aesthetic Plastic Surgery, and the Paul Rubenstein Award for Excellence in Research.

Beyond his clinical and academic career, Doctor David A. Kulber, has demonstrated a deep commitment to philanthropy through his co-founding of the Ohana One organization. This initiative has led him to undertake medical missions in Africa, where he has improved the lives of children who would not have access to specialized medical care, and trained local surgeons to replicate Cedars-Sinai's high level of care.

With impeccable academic preparation, he graduated with honors from the University of California and completed his medical training at the University of Health Sciences University/Chicago Medical School, followed by prestigious residencies and fellowships at Cedars-Sinai, New York Hospital-Cornell Medical Center and Memorial Sloan Kettering Cancer Center.



## Dr. Kulber, David A.

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- Director of Hand and Upper Limb Surgery, Cedars-Sinai Medical Center, California, United States
- Director of the Center for Plastic and Reconstructive Surgery at Cedars-Sinai Medical Center
- Director of the Center of Excellence in Plastic Surgery at Cedars-Sinai Medical Center
- Medical Director of the Hand Rehabilitation and Occupational Therapy Clinic at Cedars-Sinai Medical Center
- Vice Chair of the Medical Board at the Musculoskeletal Transplant Foundation
- Co-founder of Ohana One
- Specialist in General Surgery from Cedars-Sinai Medical Center
- Doctor of Medicine from the University of the Health Sciences/Chicago Medical College
- B.A. in European and Medical History from the University of California
- Member of:
  - American Society of Surgery of the Hand
  - American Society of Plastic Surgeons (American Board of Plastic Surgery)
  - Musculoskeletal Tissue Foundation
  - Grossman Burn Foundation
  - American Medical Association
  - American Society of Plastic and Reconstructive Surgeons
  - Los Angeles Plastic Surgery Society

“

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

## Management



### Dr. Ríos García, Beatriz

- 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 Orthopedic Surgery and 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

### Dr. Sánchez García, Alberto

- ♦ Specialist in Plastic, Reconstructive and Aesthetic Surgery at the Hospital Universitario y Politécnico La Fe de Valencia
- ♦ Teacher in courses of the University of Valencia and Spanish Anatomical Society
- ♦ Graduated in Medicine from the University of Castilla La Mancha (UCLM), Faculty of Albacete
- ♦ Doctor of Medicine and Surgery from the University of Valencia, with a grade of outstanding Cum Laude
- ♦ Master in Aesthetic Medicine and Surgery by the European University Miguel de Cervantes

### Dr. García Prieto, Alfonso Luis

- ♦ Specialist in the area of Orthopedic Surgery and Traumatology at the Regional Hospital San Juan de la Cruz de Úbeda
- ♦ Author and coordinator of the book "Traumatology for Emergency Doctors".Utility Model / Patent Inventor (55%) of the Utility Model "Osteotomy guide for surgery of the first metatarsal", approved by the Spanish Patent and Trademark Office
- ♦ Degree in Medicine from the University of Cadiz
- ♦ Postgraduate Diploma in Biostatistics applied to Health Sciences by the UNED
- ♦ Member of the teaching and research committee of the Hospital San Juan de la Cruz

### Dr. Palmero Sánchez, Beatriz

- ♦ Specialist Doctor in Plastic, Esthetic, and Reconstructive Surgery
- ♦ Degree in Medicine from the University of Cantabria

### Dr. Gómez Lanz, Carlos Arcadio

- ♦ Specialist in Plastic, Aesthetic and Reconstructive Surgery at the Burgos Hospital Complex
- ♦ Member of the reimplantation team of the CSUR center of the HUBU in catastrophic hand and upper limb reimplantation
- ♦ Member of the Sarcoma Treatment Unit of the Burgos Hospital Complex
- ♦ Member of the Head and Neck Tumor and Complex Pathology Treatment Unit of the Burgos Hospital Complex
- ♦ Graduate in Medicine and Surgery from the Complutense University of Madrid
- ♦ Master's Degree in Continuing Education in Aesthetic Medicine and Surgery from the European University Miguel de Cervantes

### Dr. Gallach Sanchís, David

- ♦ Specialist in Orthopedic Surgery and Traumatology in the specialized care area of Albacete
- ♦ Specialist in Hand Surgery Unit
- ♦ Degree in Medicine and Surgery from the Faculty of Medicine and Dentistry of Valencia

### Dr. Vallejo Aparicio, Eduardo

- ♦ Degree in Medicine from the Universidad Rey Juan Carlos
- ♦ Master in Clinical Medicine by UDIMA
- ♦ Member of Spanish Society of Plastic, Aesthetic and Reconstructive Surgery, Society of Plastic, Aesthetic and Reconstructive Surgeons of Asturias, Cantabria and Castilla, León

**Dr. Alfaro Micó, Joaquín**

- ♦ Area Specialist Physician at Hospital Quirón Salud Albacete
- ♦ Member of the teaching committee of Hospital General Albacete
- ♦ Master's Degree in Clinical and Medical Professionalism, Universidad de Alcalá, Spain
- ♦ Master's Degree in Update on Orthopedic Surgery and Traumatology. CEU Cardenal Herrera University
- ♦ Master's Degree in Clinical Management, Medical and Health Care Management. CEU Cardenal Herrera University
- ♦ Master in Traumatologic Emergencies by CEU Cardenal Herrera University
- ♦ Master's Degree in Hand Surgery from the International University of Andalusia
- ♦ Member of the Spanish Society of Orthopedic Surgery and Traumatology (SECOT)
- ♦ Member of the Sociedad Castellano-Manchega de Cirugía Ortopédica y Traumatología (SCMCOT), Sociedad Española de Cirugía de Mano (SECMA)

**Dr. Nevado Sánchez, Endika**

- ♦ Private activity in the Burgos Hand Unit and in the De Propios Nevado Clinic of Traumatology and Aesthetic and Reconstructive Plastic Surgery
- ♦ Coordinator of upper limb reimplantation through the national transplant organization
- ♦ Graduate in Medicine and Surgery from the University of the Basque Country
- ♦ Associate Professor at the University of Burgos
- ♦ Specialist in Aesthetic and Reconstructive Plastic Surgery
- ♦ Specialist in Hand Surgery
- ♦ Judicial Expert in valuation of bodily injury

**Mr. Dávila Fernández, Fernando**

- ♦ 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. Muñoz, Francisca**

- ♦ Nurse in the Mutua ASEPEYO Health Care Center
- ♦ Nurse in ICU, Emergency and Operating Room
- ♦ Course teacher at ASEPEYO Corporate University
- ♦ Member of the Nursing Advisory Committee of the Spanish Society of Occupational Traumatology

**Dr. Ortega Carnero, Álvaro**

- ♦ Doctor
- ♦ Master's degree in integration of medical knowledge and its application to clinical problem solving
- ♦ Degree in Medicine

**Dr. González-Cuevas, Javier Fernández**

- ♦ Specialist in Plastic, Aesthetic and Reconstructive Surgery at the University Hospital of Burgos
- ♦ Teacher in courses on Trauma for Pediatric Emergency and Plastic Surgery nurses
- ♦ Master's Degree in Advanced Care of Ulcers of the Lower Extremity
- ♦ Postgraduate Diploma in Surgical Anatomy of the Hand
- ♦ Degree in Medicine and Surgery, Faculty of Medicine, Oviedo University
- ♦ Member of Spanish Society of Reconstructive and Aesthetic Plastic Surgery, Spanish Association of Senology and Breast Pathology, Society of Aesthetic and Reconstructive Plastic Surgeons of Asturias, Cantabria and Castilla-León, International Society of Plastic and Aesthetic Surgery and Spanish Association of Microsurgery

**Dr. Gimeno García-Andrade, María Dolores**

- ♦ Specialist in Traumatology and Orthopedic Surgery at the Hospital Clínico San Carlos de Madrid
- ♦ Medical Director of Procion-Hathayama Medical Center
- ♦ Traumatology and Orthopedic Surgery Consultation Meditrafic
- ♦ Traumatology and Orthopedic Surgery Consultation at Vaguada Medical Center
- ♦ Traumatology and Orthopedic Surgery Consultation at Proción-Hathayama Medical Center
- ♦ Teacher and internship to MIR and students of the Complutense University of Madrid
- ♦ Teacher at the Hospital Clínico San Carlos
- ♦ Collaborator with the NGO Vicente Ferrer Foundation in Anantapur (India) with the Disability Treatment RDT Project
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid

**Dr. Font Bilbeny, Mercé**

- ♦ Assistant Doctor of Orthopedic Surgery and Traumatology in the Upper Extremity Unit at the Hospital de Mataró
- ♦ Primary Care Continuity of Care Assessment Coordinator - Orthopedic Surgery and Traumatology Specialist
- ♦ Medical specialist of the Orthopedic Surgery and Traumatology of the Gabinete de Especialidades Médicas (GEMA)
- ♦ Teacher collaborator at the Teaching Unit of the Hospital de Mataró
- ♦ Guidelines and Protocols for referral from Primary Care to the Orthopedic Surgery and Traumatology Service of the Consorci Sanitari Maresme
- ♦ Orthopedic Surgery and Traumatology Service of the Consorci Sanitari del Maresme
- ♦ Degree in Medicine and Surgery from the Universitat Autònoma de Barcelona
- ♦ Member of the Upper Extremity Unit of the Orthopedic Surgery and Traumatology Service of the Hospital de Mataró

**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

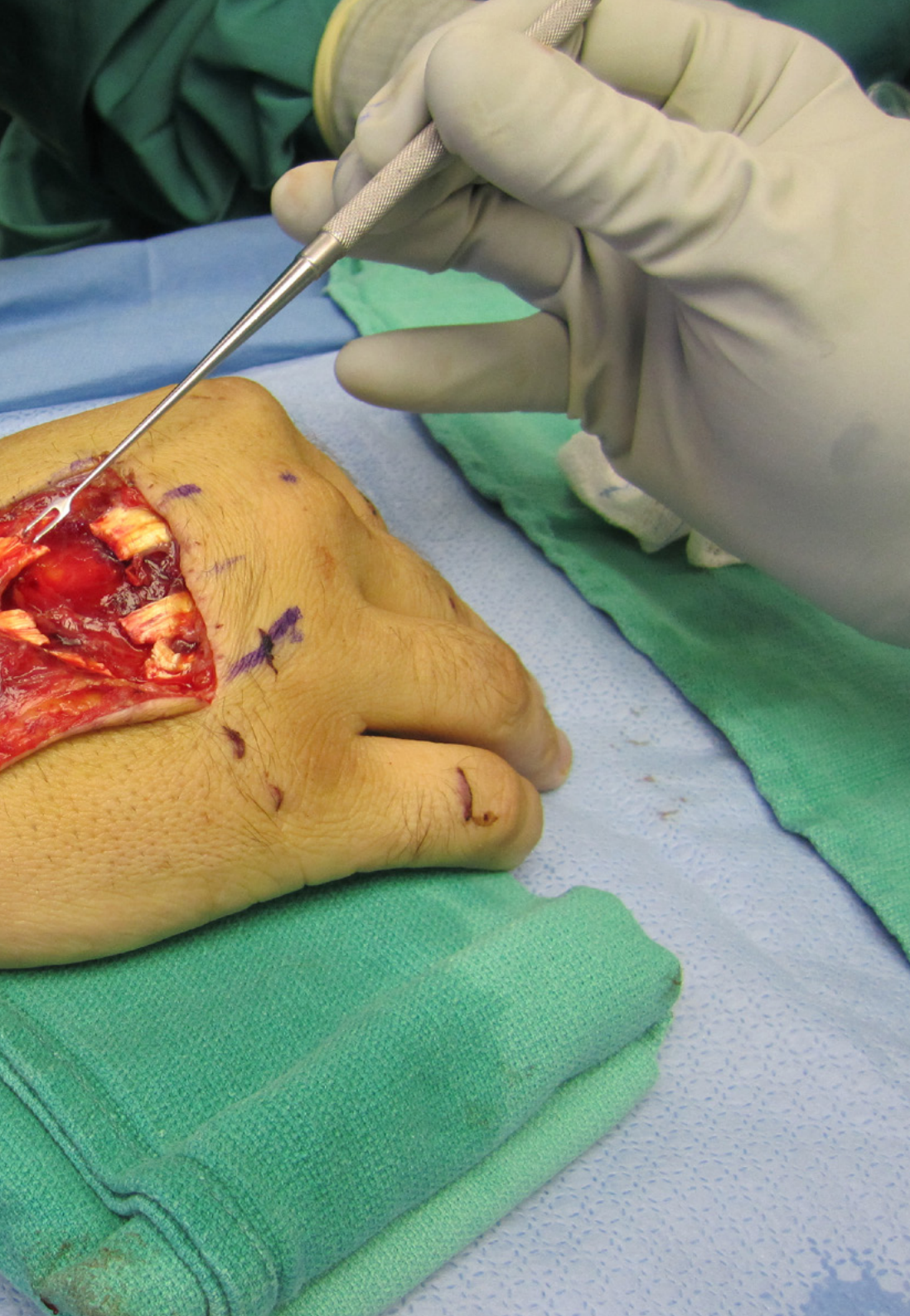
**Dr. Vanaclocha Saiz, María Nieves**

- ♦ Assistant Specialist in Plastic, Aesthetic and Reconstructive Surgery at the University and Polytechnic Hospital La Fe
- ♦ Second Assistant Surgeon in Cardiovascular Surgery at the St. Josefs-Hospital Wiesbaden
- ♦ Cooperative Campaign in the Reconstructive Surgery Project at the non-profit association Viva Makeni in Sierra Leone
- ♦ Doctor Cum Laude
- ♦ Applied Master in Quality of Care at the Universitat de Barcelona
- ♦ Master in Management and Organization of Hospitals and Health Services by the Polytechnic University of Valencia
- ♦ Member of Sociedad Española de Cirugía Plástica, Estética y Reconstructiva (SECPRE) y Sociedad Valenciana de Cirugía Plástica, Reparadora y Estética (SCPRECV)

**Dr. Losa Palacios, Sergio**

- ♦ Medical Specialist of the Hand Surgery Unit of the Albacete University Hospital Complex
- ♦ Orthopedic Surgery and Traumatology Physician at the General Hospital of Villarrobledo
- ♦ Honorary teaching collaborator of the University of Albacete
- ♦ Master in Hand Pathology by the International University of Andalusia
- ♦ Master's Degree in Patient Safety and Health Care Quality, Universidad Miguel Hernández
- ♦ Master's Degree in Health Law, Universidad de Castilla-La Mancha
- ♦ Postgraduate Certificate in Hand Surgery from the Spanish Society of Hand Surgery
- ♦ Member of the Spanish Society of Hand Surgery.





**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

“

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

04

# Structure and Content

The program's syllabus has been carefully designed to guarantee that the specialist is fully updated in the field of Hand Soft Tissue Surgery. Its 3 complete modules have excellent teaching materials in various formats, including lectures, explanatory videos and self-assessment exercises. In this way, following a 100% online methodology, you will be able to combine first class learning with your personal and academic obligations.





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*Enjoy a syllabus designed by experts in Hand Surgery, who will provide you with the didactic contents with the greatest applicability in daily practice"*

## Module 1. Hand Skin, Soft Parts and Infections

- 1.1. Wounds and types of healing. Sutures. Skin grafts
  - 1.1.1. Hand wounds and types of sutures
  - 1.1.2. Types of healing
  - 1.1.3. Skin Grafts
- 1.2. Basics of the vascular anatomy of the hand applied to the realization of flaps
  - 1.2.1. Vascular anatomy of the hand
  - 1.2.2. Pedicle Flaps
  - 1.2.3. Grafts, from where and for where
- 1.3. Complex Wound Management
  - 1.3.1. Initial Assessment
  - 1.3.2. Evolution of the event
  - 1.3.3. Advanced Cure Systems
- 1.4. Microsurgery
  - 1.4.1. Basics of microsurgery on the hand
  - 1.4.2. Microsurgical suturing of nerves and vessels
  - 1.4.3. Use of microsurgery for flaps
- 1.5. Reimplantation. Fingertip coverage
  - 1.5.1. Reimplants except thumb
  - 1.5.2. Fingertip coverage except for the thumb
  - 1.5.3. Reimplantation on the thumb, thumb tip coverage
- 1.6. Skin coverage with pedicled and free flaps on wrist and hand
  - 1.6.1. Pedicle flaps on the Wrist
  - 1.6.2. Pedicled flaps in hand
  - 1.6.3. Free flaps in hand and Wrist
- 1.7. Reconstruction of the Hand by Composite Free Flaps
  - 1.7.1. Neurocutaneous Flaps
  - 1.7.2. Osteocutaneous Flaps
  - 1.7.3. Toe-Hand
- 1.8. Infections of the hand. Cellulitis, tenosynovitis, arthritis, osteomyelitis
  - 1.8.1. Cellulitis
  - 1.8.2. Tenosynovitis
  - 1.8.3. Arthritis and osteomyelitis

- 1.9. Burns
  - 1.9.1. The acute burned hand: initial treatment
  - 1.9.2. Initial surgery in the burned hand
  - 1.9.3. Secondary surgeries and sequelae
- 1.10. High Pressure Injections and Extravasation Lesions
  - 1.10.1. High pressure injections in the hand
  - 1.10.2. Extravasation injuries
  - 1.10.3. High pressure sequelae

## Module 2. Tendon Injuries of the Hand

- 2.1. Anatomy and Biomechanics of the Extensor Tendons and Flexor Tendons
  - 2.1.1. Anatomy of the extensor tendons
  - 2.1.2. Anatomy of the flexor tendons
  - 2.1.3. Biomechanics of the extensor tendons
  - 2.1.4. Biomechanics of the flexor tendons
- 2.2. Intra and Extrasynovial Vascularization. Pathophysiology of Tendon Repair
  - 2.2.1. Vascularization of flexor tendons
  - 2.2.2. Vascularization of extensor tendons
  - 2.2.3. Pathophysiology of tendon repair
- 2.3. Stenosing tenosynovitis of flexor tendons
  - 2.3.1. Stenosing tenosynovitis of flexors. Diagnosis and Prognosis
  - 2.3.2. Stenosing tenosynovitis of flexors. Conservative treatment. Rehabilitation
  - 2.3.3. Stenosing tenosynovitis of flexors. Surgical Management
- 2.4. Extensor Tendinopathies. Clinical and ultrasound diagnosis  
Surgical Management
  - 2.4.1. Clinical diagnosis of extensor tendinopathies
  - 2.4.2. Ultrasound in the best diagnosis and therapeutic orientation
  - 2.4.3. Surgical Management
  - 2.4.4. Conservative treatment of extensor tendinopathies. Ultrasound assistance
  - 2.4.5. Surgical treatment of extensor tendinopathies. Ultrasound assistance

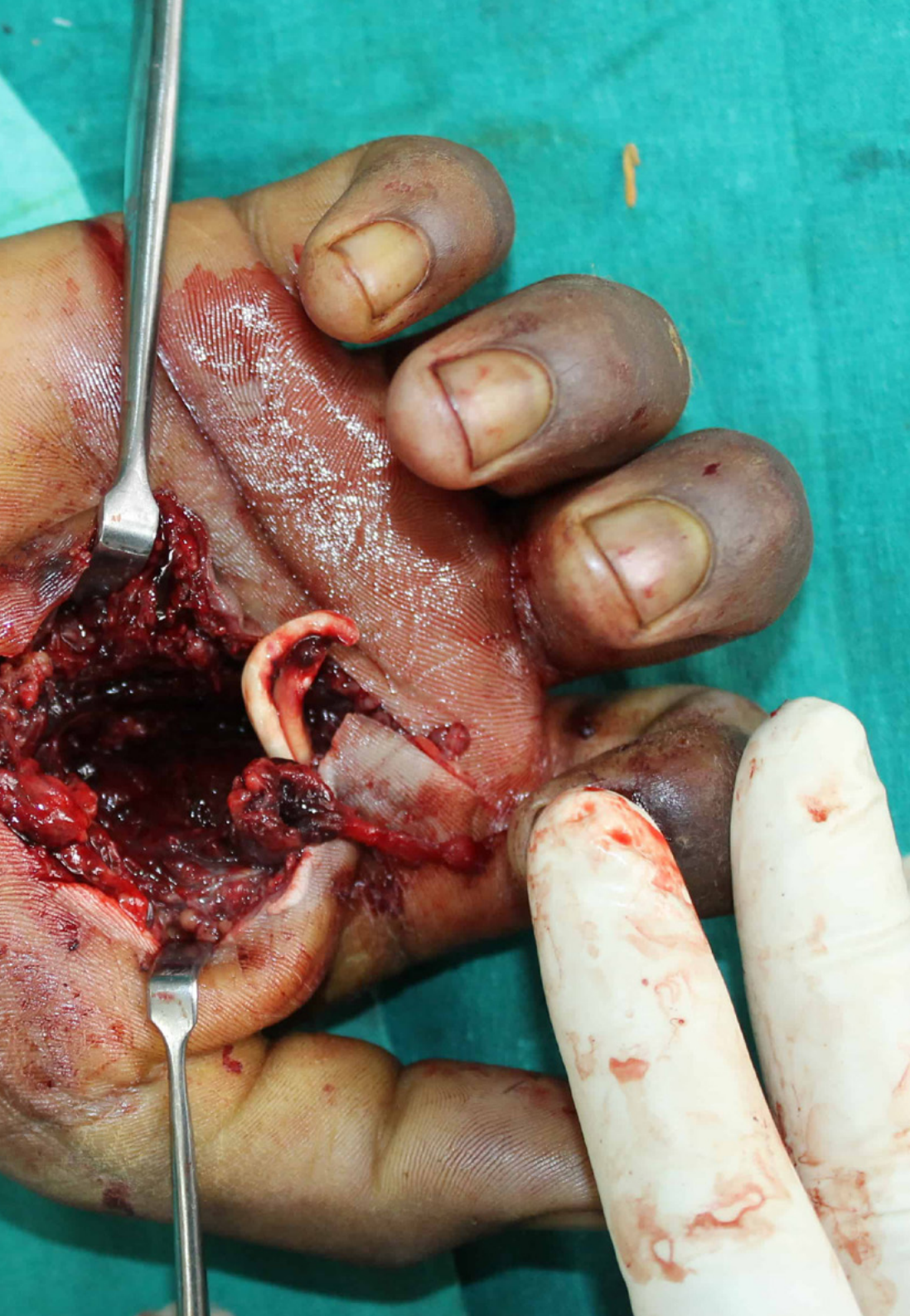


- 2.5. Flexor tendon ruptures. Treatment in acute and chronic phase
  - 2.5.1. Flexor tendon rupture and prognosis according to zone
  - 2.5.2. Flexor tendon rupture diagnosis. Treatment in acute phase
  - 2.5.3. Flexor tendon rupture diagnosis. Treatment in chronic phase
- 2.6. Extensor tendon ruptures. Treatment in acute and chronic phase
  - 2.6.1. Flexor tendon rupture and prognosis according to zone.
  - 2.6.2. Flexor tendon rupture diagnosis. Treatment in acute phase
  - 2.6.3. Flexor tendon rupture diagnosis. Treatment in chronic phase
- 2.7. Sutures. Types and Forms. Tension. Scientific Evidence
  - 2.7.1. Sutures, types and materials.
  - 2.7.2. Tension according to type of sutures. Available evidence
  - 2.7.3. Applications according to cases of the different sutures
- 2.8. Rehabilitation Protocols
  - 2.8.1. Rehabilitation of flexor tendon ruptures treated in acute phase
  - 2.8.2. Rehabilitation of extensor tendon ruptures treated in the acute phase
  - 2.8.3. Rehabilitation of extensor tendon ruptures treated in the acute phase
- 2.9. Complications in extensor ruptures. Diagnosis and Treatment Repair Techniques
  - 2.9.1. Complications of extensor tendon ruptures. Diagnosis. How to predict them
  - 2.9.2. Surgical treatment of these complications
  - 2.9.3. Postoperative rehabilitation after surgical resolution of the complication
- 2.10. Complications in flexor ruptures. Diagnosis and Treatment Repair Techniques
  - 2.10.1. Complications of flexor tendon ruptures. Diagnosis. How to predict them
  - 2.10.2. Surgical treatment of these complications
  - 2.10.3. Postoperative rehabilitation after surgical resolution of the complication

### Module 3. Dupuytren's Disease, Tumors and Vascular Diseases

- 3.1. Dupuytren's disease. Homid diagnosis
  - 3.1.1. Epidemiology
  - 3.1.2. Anatomy of the Palmar Aponeurosis and Anatomy of the Digital Cords
    - 3.1.2.1. Clinical, Diagnosis: Classification
  - 3.1.3. Extra-Palmar Locations
- 3.2. Dupuytren's disease. Evolution
  - 3.2.1. Relapse
  - 3.2.2. Non-Surgical Treatment
  - 3.2.3. Progression
- 3.3. Dupuytren's disease surgical treatment
  - 3.3.1. Indications for surgical treatment
  - 3.3.2. Indications. Timing and surgical techniques
  - 3.3.3. Factors influencing long-term results
- 3.4. Dupuytren's disease. Surgical Planning
  - 3.4.1. Surgical Planning. Incisions
  - 3.4.2. Zetaplasty Modalities
  - 3.4.3. Rehabilitation
- 3.5. Treatment failures in Dupuytren's disease
  - 3.5.1. Complications of surgical treatment
  - 3.5.2. Recurrence
  - 3.5.3. Sequels
- 3.6. Vascular pathology in the hand
  - 3.6.1. Hypotenar Hammer Syndrome, Raynaud's disease.
  - 3.6.2. Vascular Tumours
  - 3.6.3. Vascular Malformations
- 3.7. Benign Soft Tissue Tumors
  - 3.7.1. Classification of the most frequent tumors
  - 3.7.2. When to do surgery. Biopsy?
  - 3.7.3. Results and complications





- 3.8. Nerve Tumors
  - 3.8.1. Classification of the most common tumors
  - 3.8.2. When to operate and how
  - 3.8.3. Results and complications
- 3.9. Benign Bone Tumors. Pseudotumorous lesions
  - 3.9.1. Classification
  - 3.9.2. When to operate and how
  - 3.9.3. Results and complications
- 3.10. Malignant Tumors of Soft Parts and Bones
  - 3.10.1. Classification
  - 3.10.2. Surgical Management
  - 3.10.3. Results and complications



*Enroll in this Postgraduate Diploma and be able to optimize your updating through didactic contents in formats such as video or self-assessment exercises"*

# 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.



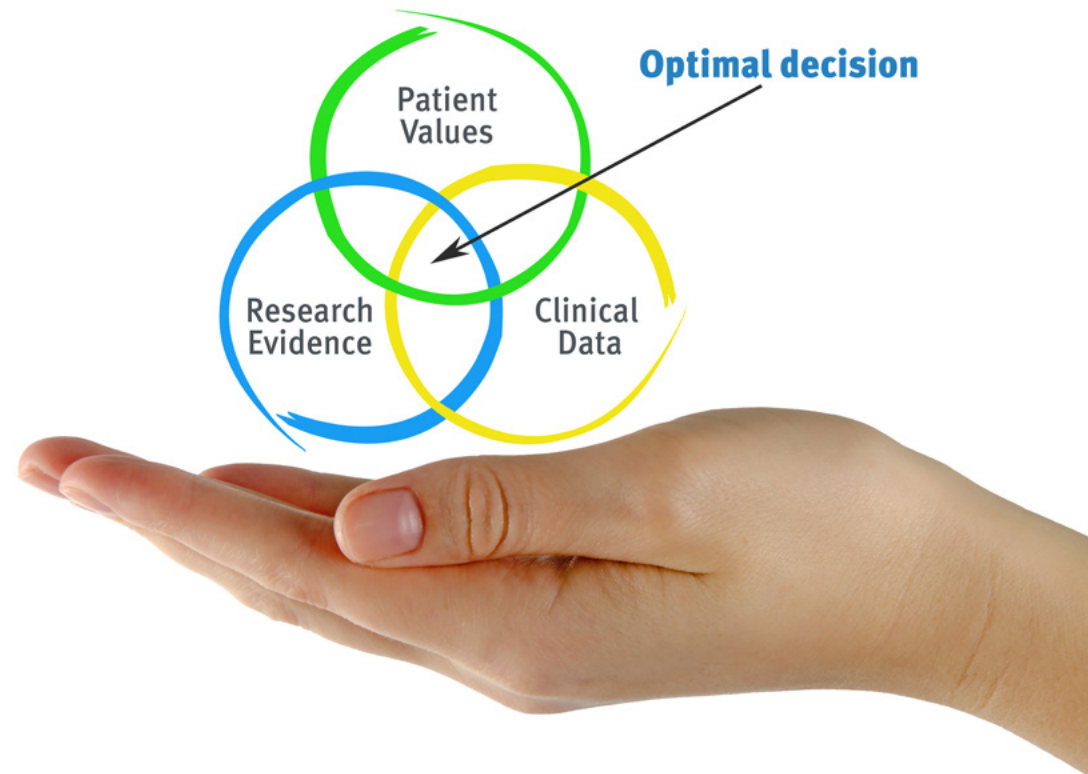
“

*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. 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.

“

*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.

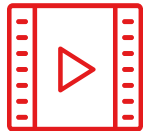
*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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

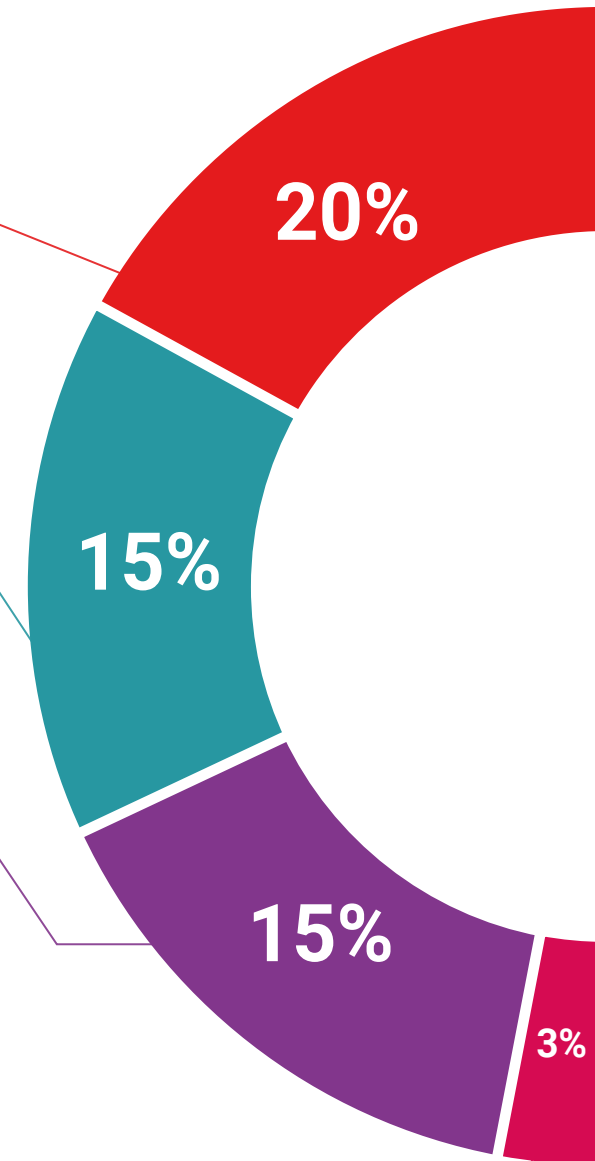
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

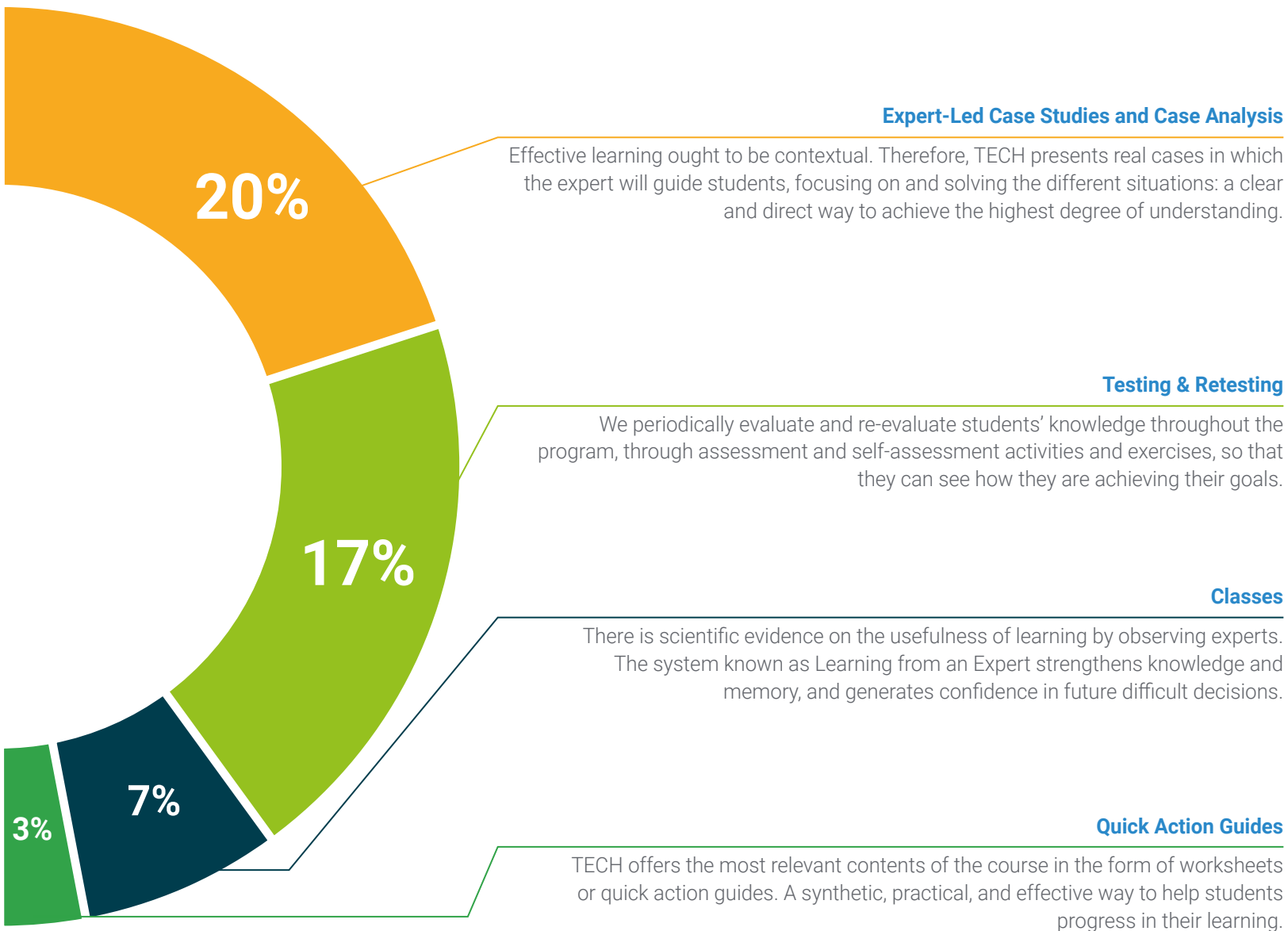
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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 Diploma in Surgery of Soft Parts of the Hand guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.



“

*Successfully complete this program  
and receive your university qualification  
without having to travel or fill out  
laborious paperwork”*

This **Postgraduate Diploma in Surgery of Soft Parts of the Hand** contains the most complete and up-to-date scientific on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Surgery of Soft Parts of the Hand**

Official N° of hours: **450 h.**



\*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.



## Postgraduate Diploma

Surgery of Soft Parts  
of the Hand

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Surgery of Soft Parts of the Hand

