

# Postgraduate Certificate

## Foot and Ankle Soft Tissue Reconstruction





## Postgraduate Certificate Foot and Ankle Soft Tissue Reconstruction

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

Website: [www.techtitute.com/medicina/curso-universitario/reconstruccion-tejidos-blandos-pie-tobillo](http://www.techtitute.com/medicina/curso-universitario/reconstruccion-tejidos-blandos-pie-tobillo)

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Certificate

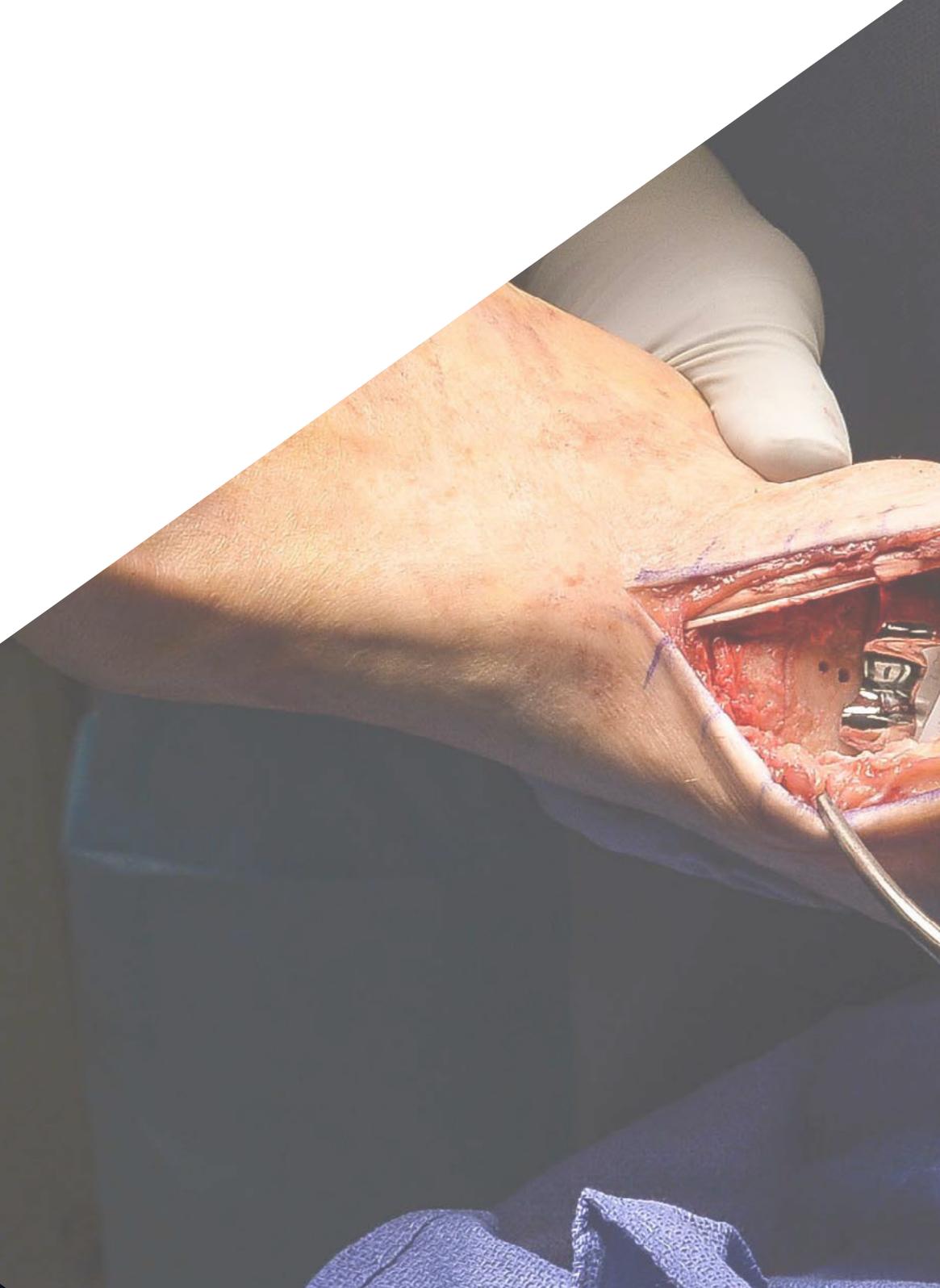
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# 01

# Introduction

In recent years, it has been possible to unify criteria and establish management protocols for soft tissue reconstruction procedures in the foot and ankle. This has revolutionized and modified both the treatments and the prognosis of patients, very visible in osteomyelitis and skin defects in this area of the body. Advances, to which the specialist can not be oblivious, and that is why this 100% online program with high quality content is born. A program that will take the professional in just 6 weeks, to update their knowledge on the main surgical techniques and diagnostics used to perform a reconstruction. All this, in addition, with innovative multimedia didactic material and an expert teaching team in this specialty.





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*In only 6 weeks you will obtain the most advanced and innovative information on Foot and Ankle Soft Tissue Reconstruction".*

In recent years, thanks to greater specialization on the part of orthopedic professionals, the treatment of osteomyelitis and skin defects in the foot and ankle, especially of traumatic origin, has reduced the percentage of patients who suffer complications during the intervention and with a significant improvement in the postoperative period.

This is due, above all, to the advances in techniques, materials and instruments with which the interventions are performed. Therefore the field of reconstruction has grown in recent years with the adoption of unified criteria and better protocols in the treatments used. In view of these advances, TECH has created this 100% online university program, which offers the professional an update of knowledge on Foot and Ankle Soft Tissue Reconstruction.

A program, which will take them in just 6 weeks to obtain the latest and most recent information on the diagnosis, preparation and initial management of skin defects of the foot and ankle or low complexity procedures. For this, professionals will have multimedia didactic resources (video summaries, videos in detail), essential readings and case studies, which will provide a theoretical-practical vision of this area.

In addition, thanks to the Relearning system, based on the reiteration of content, the professional will be able to advance naturally and progressively through the syllabus. It will also reduce the long hours of study and memorization.

This academic institution therefore offers an excellent opportunity for professionals who wish to be up to date in Foot and Ankle Soft Tissue Reconstruction, through a flexible Postgraduate Certificate compatible with the most demanding responsibilities. They only need an electronic device with an Internet connection to be able to visualize, at any time of the day, the content hosted in the Virtual Campus.

This **Postgraduate Certificate in Foot and Ankle Soft Tissue Reconstruction** contains the most complete and updated scientific program on the market. Its most notable features are:

- The development of practical cases presented by experts in medicine.
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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



*Thanks to this university program you will be up to date in the management of secondary bone defects up to the approach to osteomyelitis".*

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*You will have at your disposal a library of multimedia resources, where you will be able to deepen in the criteria for the selection of patients according to each surgical technique”.*

*The Relearning method will not only allow you to progress through the syllabus in a progressive way, but will also reduce the number of hours of study.*

*In this university program you will learn the latest techniques used for the reconstruction of soft tissues with microsurgical techniques.*

The program's teaching staff includes professionals from the sector 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.

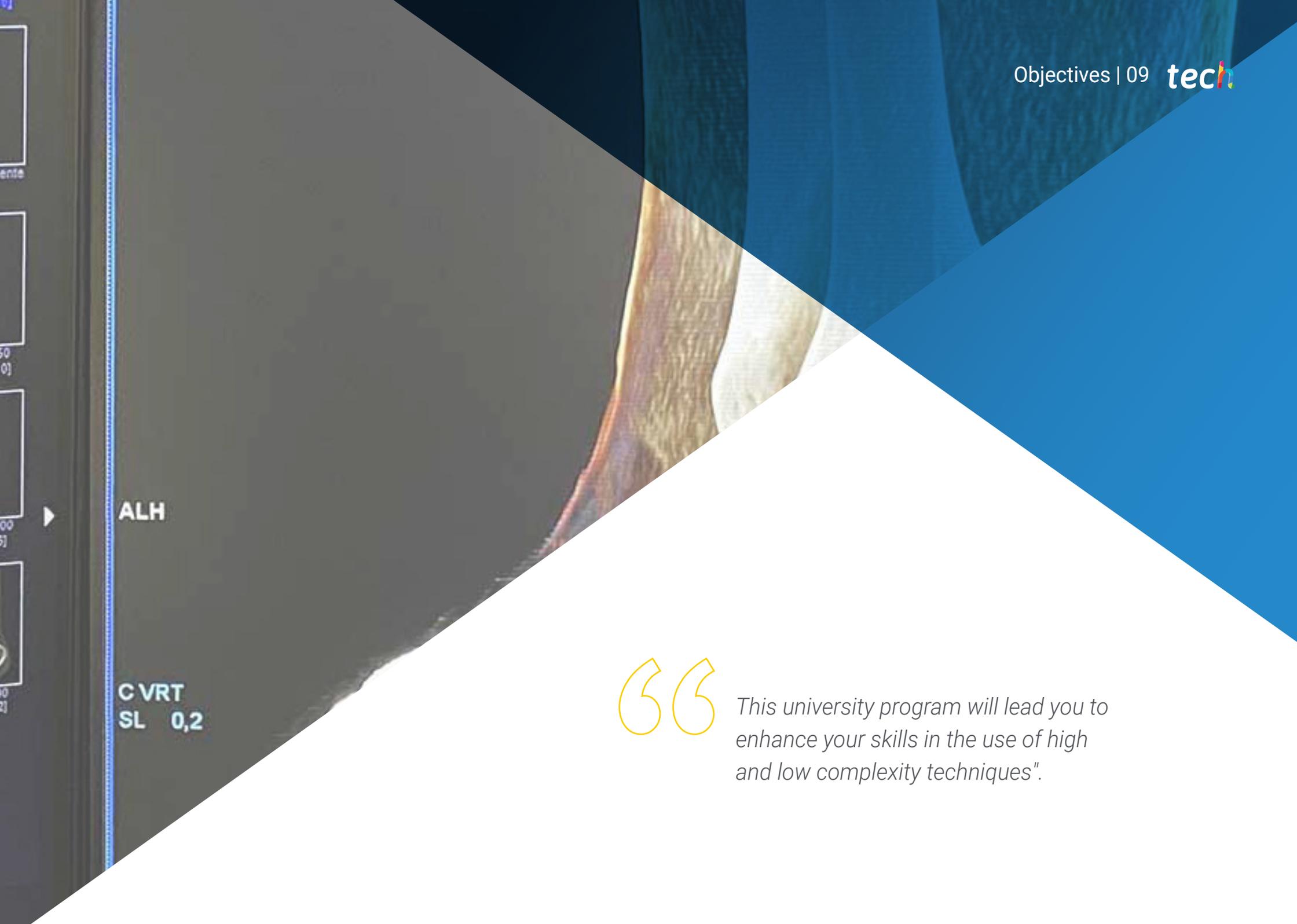
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02 Objectives

Upon completion of the 150 teaching hours of this Postgraduate Certificate, professionals will have managed to update their knowledge, even expanding their technical skills to perform Foot and Ankle Soft Tissue Reconstruction. This will be possible thanks to a quality content, including multimedia pills and simulations of clinical cases, with which they will get a much more practical vision and direct application in their daily practice.





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*This university program will lead you to enhance your skills in the use of high and low complexity techniques”.*



## General Objectives

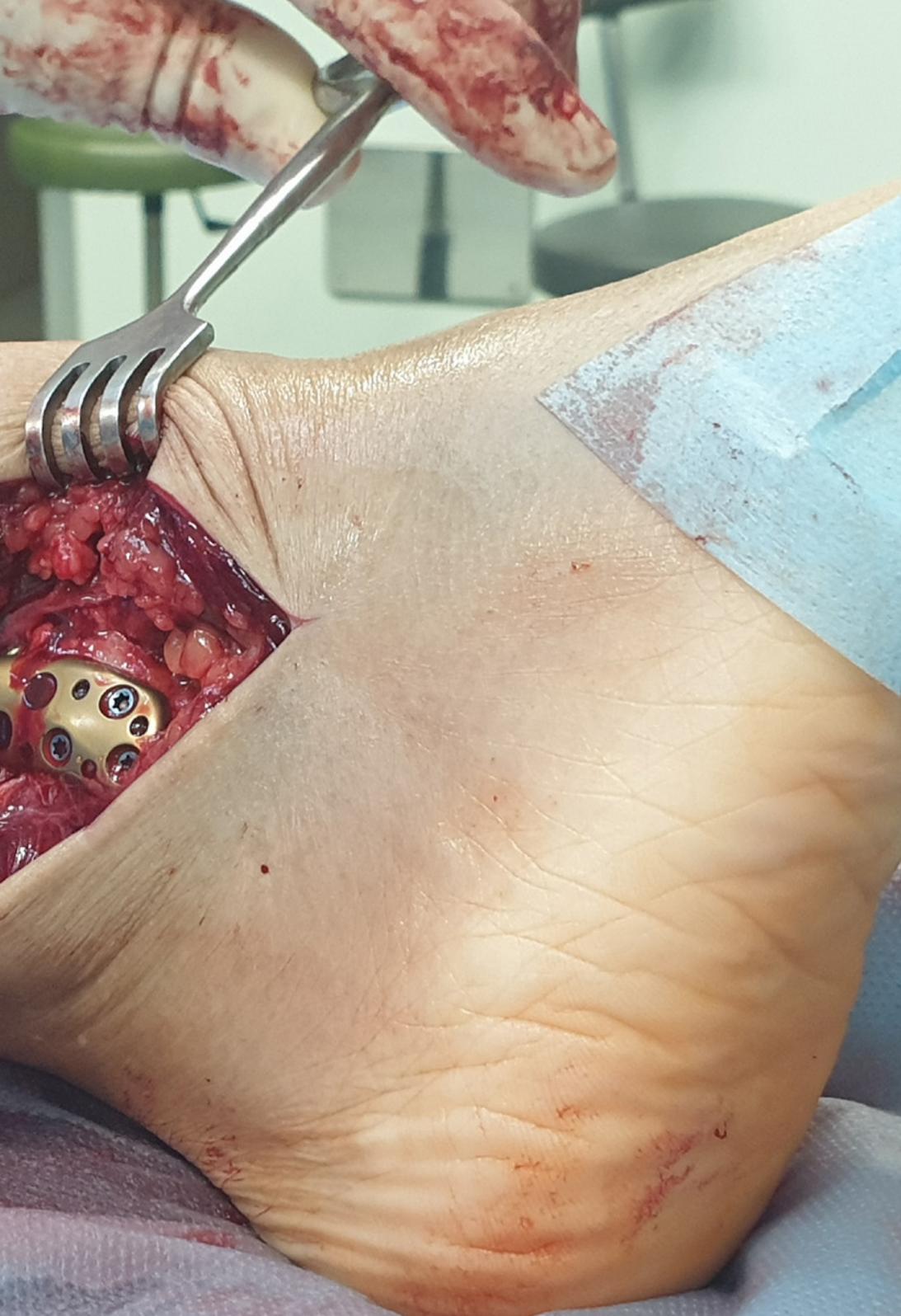
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- ◆ Address, in a comprehensive manner, the problem of skin defects in the foot and ankle.
- ◆ Develop key concepts of microsurgery, soft tissue grafting and osteomyelitis.
- ◆ Examine complex and simple techniques for reconstruction of the severely injured foot and ankle
- ◆ Implement a treatment and approach guide for this type of complications
- ◆ Compile the complementary tests and possible pre-treatment studies
- ◆ Develop treatment algorithms and description of the latest surgical techniques in the treatment of skin defects and infections in the bones of the foot and ankle.



*This 100% online Postgraduate Certificate will allow you to get up to date you are looking for on Foot and Ankle Soft Tissue Reconstruction in just 6 weeks".*





## Specific Objectives

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- Understand the pathophysiology of osteomyelitis
- Examine the anatomy of the leg, ankle, and foot area to develop anatomical guides
- Develop treatment guidelines to facilitate the understanding of reconstruction of soft tissue defects
- Determine high and low complexity techniques to provide a range of options
- Select the appropriate graft or flap based on the type of defect present
- List criteria for selection of ideal patients for each surgical technique
- Mention frequent complications and how to avoid them
- Detail indispensable principles for the realization of a graft or flap in the coverage of skin defects at the level of the foot and ankle

# 03

## Course Management

In this university program, TECH has brought together a management and teaching staff specialized in Traumatology, Injury Reconstruction and Orthopedic Surgery. Thanks to their extensive professional experience in reference hospitals and their extensive knowledge in this field, the specialist who enters this program will obtain the most updated and recent information on Foot and Ankle Soft Tissue Reconstruction. In addition, its proximity will allow them to resolve any questions they may have about the content of the program, throughout the program.





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*Specialists in Traumatology and Orthopedics with extensive professional experience make up the excellent teaching team that TECH has put together for this Postgraduate Certificate".*

## International Guest Director

Awarded by the American Orthopedic Foot and Ankle Society for his innovative clinical treatments, Dr. John Kwon is a renowned surgeon highly specialized in the approach to traumatic injuries of the lower limbs. In this line, he has carried out his work in health institutions of international reference, including the Massachusetts General Hospital or the Mercy Medical Center in Baltimore.

In this way, he has contributed to the optimal recovery of numerous patients suffering from pathologies such as complex fractures in the tibioperoneoastotalar joint, cartilage disorders and even ligament ruptures due to sports accidents. It should be noted that he is an expert in the application of external fixation techniques, which has allowed him to offer users comprehensive and personalized treatments to optimize their quality of life significantly.

On the other hand, he has balanced this work with his facet as a researcher. In this regard, he has published scientific articles in specialized medical journals on subjects such as the most sophisticated surgical procedures for the correction of deformities such as bunions, therapeutic methods for the management of bone infections or application of ultrasound processes to guide a wide range of interventions ranging from plantar fasciitis to retrocalcaneal bursitis.

In his unwavering commitment to medical excellence, he participates as a speaker at multiple conferences on a global scale. As such, he shares with the global medical community both his findings and his extensive work experience. This has led to significant advances in the healthcare field, greatly increasing practitioners' knowledge of cutting-edge therapies to effectively treat foot and ankle problems. Thanks to this, professionals have improved their care for users, while at the same time optimizing their results considerably.



## Dr. Know, Jhon

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- Head of the Foot and Ankle Service at Massachusetts General Hospital, United States
- Orthopedic Foot and Ankle Surgeon at Mercy Medical Center of Baltimore
- Chief Clinical Officer at Israel Deaconess Medical Center of Boston
- Combined Orthopedic Residency at Massachusetts General Hospital, Brigham Hospital and Boston Children's Hospital
- Internship in Internal Medicine at McGaw Medical Center of Northwestern University
- B.S. in Medical Sciences from New York Medical College
- B.S. in Biology from Wesleyan University

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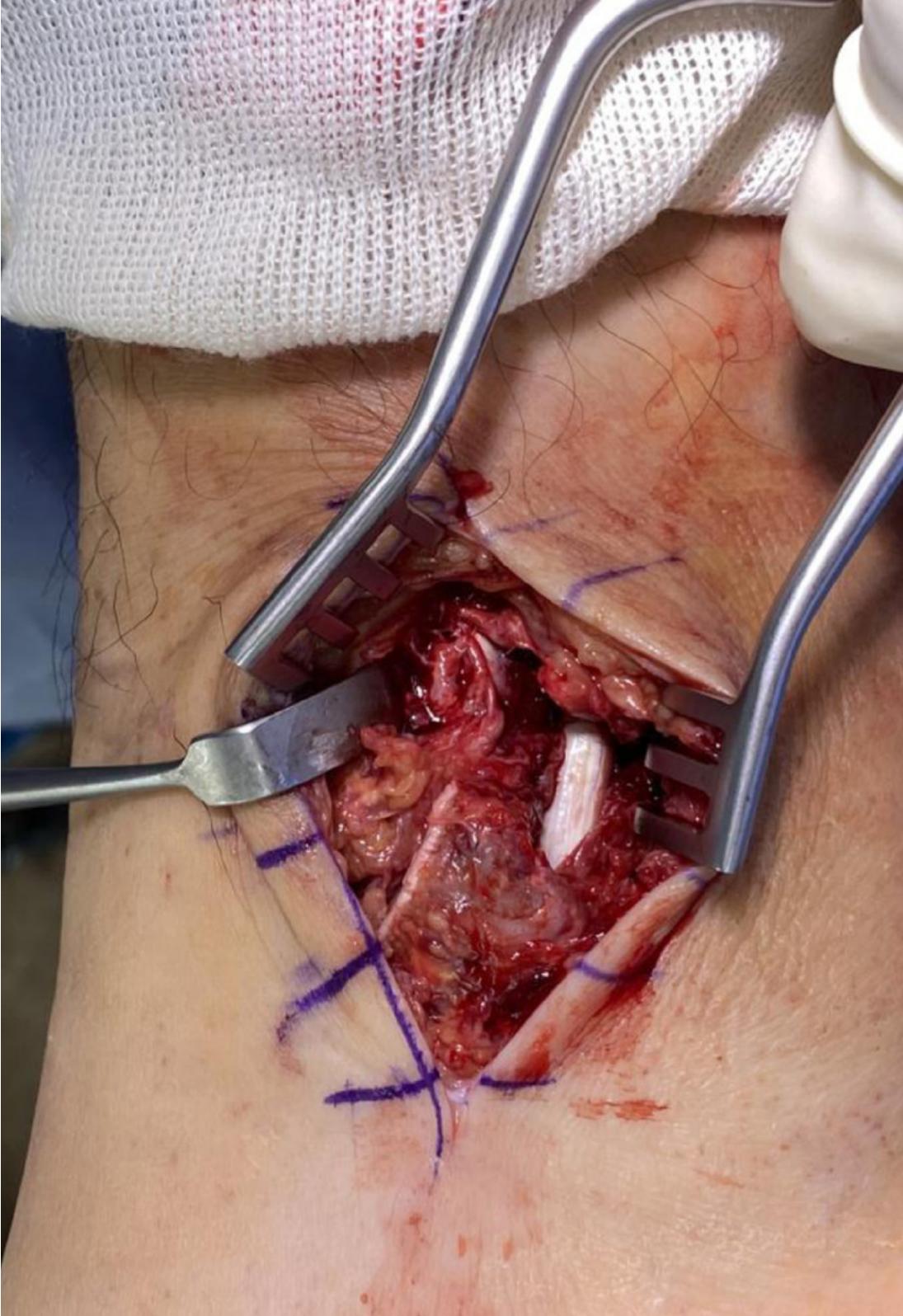
*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### Dr. Pacheco Gutiérrez, Victor Alexander

- ◆ Surgeon Specialist in Orthopedics and Sports Medicine at the Dr. Sulaiman Al Habib Hospital in Dubai
- ◆ Medical advisor for baseball, boxing and cycling teams
- ◆ Specialty in Orthopedics and Traumatology
- ◆ Degree in Medicine
- ◆ Sports Medicine Fellowship in Sportsmed
- ◆ Member of the American Academy of Orthopedic Surgeons



## Professors

### Dr. Díaz Figueroa, Omar

- ◆ Specialist in Reconstruction of Complex Extremity Injury Reconstruction
- ◆ Specialist in Hand Surgery and Reconstructive Microsurgery
- ◆ Graduate in Medicine and Surgery
- ◆ Specialty in Traumatology and Orthopedics
- ◆ Subspecialty in Reconstructive Microsurgery at The Campbell Clinic, USA.

### Dr. López Guevara, Daniel

- ◆ Ultrasound specialist and specialist in Traumatology and Orthopedics
- ◆ Specialist in Traumatology and Orthopedic Surgery in several clinical centers in the city of Valencia
- ◆ Specialist in Reconstructive Microsurgery
- ◆ Graduate in Medicine and Surgery
- ◆ Specialty in Traumatology and Orthopedics
- ◆ Fellowship in Orthopedic Trauma at Harborview Medical Center, University of Washington
- ◆ Fellowship at Wake Forest Baptist Health, U.S.A.

### Dr. Morrillo, Francisco

- ◆ Medical Specialist in Traumatology and Orthopedics
- ◆ Postgraduate Professor of Traumatology and Orthopedics
- ◆ Microsurgery Instructor
- ◆ Graduate in Medicine and Surgery
- ◆ Specialty in Traumatology and Orthopedics
- ◆ Microsurgical Technique at the Experimental Surgery Center, Sabadell, Spain

# 04

## Structure and Content

The syllabus of this Postgraduate Certificate is designed to offer an intensive update to professionals on Foot and Ankle Soft Tissue Reconstruction. For this purpose, TECH provides the most innovative pedagogical tools, which will lead them to enter in an attractive way in the most innovative and effective surgical techniques to reconstruct skin defects, as well as the approach to osteomyelitis. In addition, the Relearning system will allow them to progressively advance through the content, reducing the long hours of study.





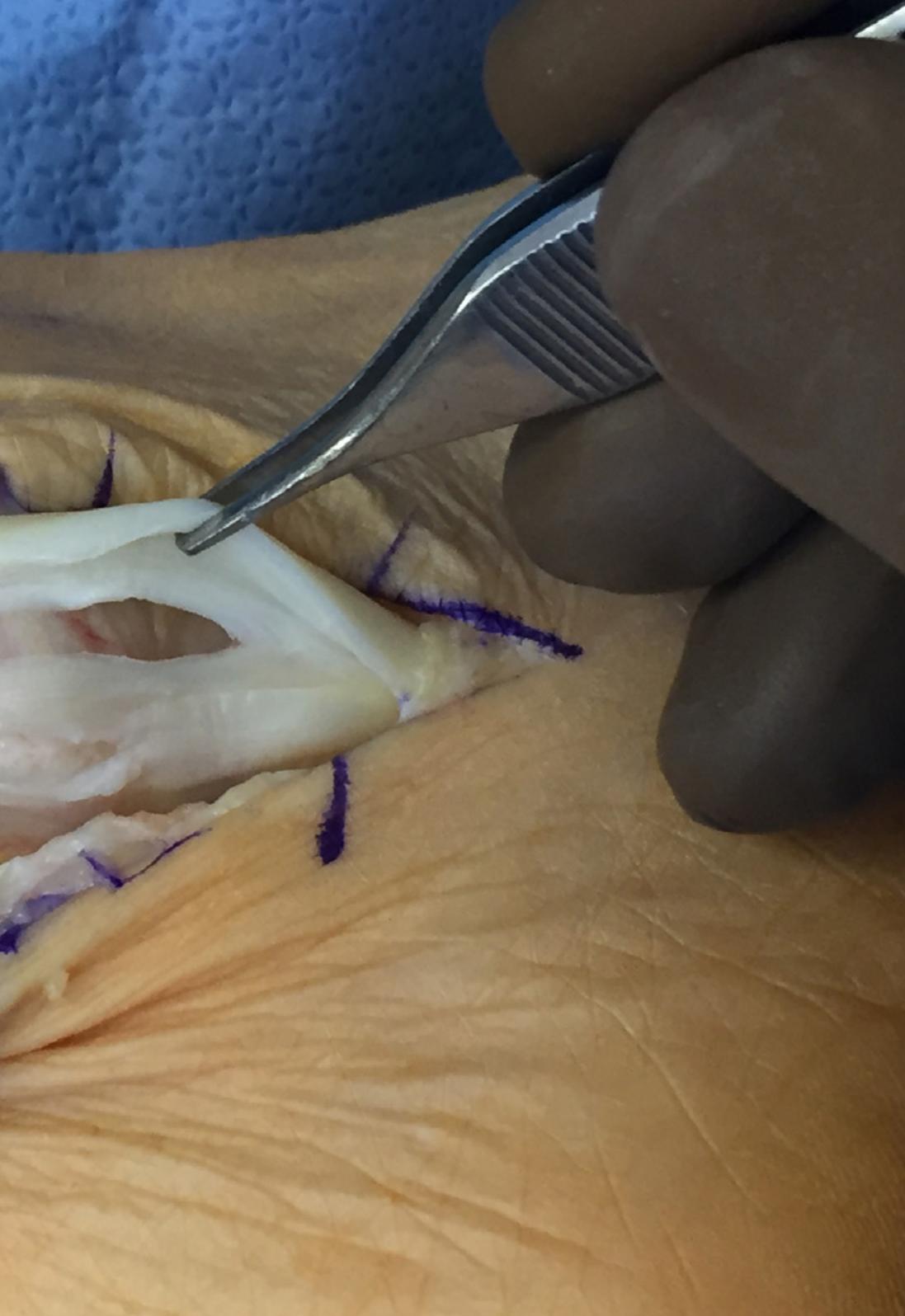
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*Thanks to the Relearning method, used by TECH, you will reduce the long hours of study and memorization".*

## Module 1. Reconstruction of Cutaneous Defects of the Foot and Ankle Osteomyelitis of Bones of the Foot and Ankle

- 1.1. Anatomy of the Foot and Ankle Applied to the Reconstruction of Skin and Bone Defects
  - 1.1.1. Functional Anatomy
  - 1.1.2. Anatomical Guide to Soft Tissue Reconstruction
  - 1.1.3. Anatomical Guide for Bone Tissue Reconstruction
- 1.2. General Principles of Soft Tissue Reconstruction
  - 1.2.1. Surgical Equipment
  - 1.2.2. Patient Assessment and Decision-Making
  - 1.2.3. Preparation and Initial Management of Skin Defects of the Foot and Ankle
- 1.3. Soft Tissue Reconstruction with Low Complexity Procedures
  - 1.3.1. Negative Pressure Therapy
  - 1.3.2. Acellular Dermal Matrix
  - 1.3.3. Skin Grafts
- 1.4. Soft Tissue Reconstruction with Pedicled Regional Flaps
  - 1.4.1. Indications
  - 1.4.2. Preoperative Planning and Most Commonly Used Flaps
  - 1.4.3. Complications
- 1.5. Soft Tissue Reconstruction with Microsurgical Techniques
  - 1.5.1. Indications
  - 1.5.2. Preoperative Planning and Most Commonly Used Free Flaps
  - 1.5.3. Complications
- 1.6. Reverse Sural Flap
  - 1.6.1. Anatomy
  - 1.6.2. Flap Design
  - 1.6.3. Surgical Dissection Technique





- 1.7. Supramalleolar Flap
  - 1.7.1. Anatomy
  - 1.7.2. Flap Design
  - 1.7.3. Surgical Dissection Technique
- 1.8. Anterolateral Thigh Flap
  - 1.8.1. Anatomy
  - 1.8.2. Flap Design
  - 1.8.3. Surgical Dissection Technique
- 1.9. Antebrachial Radial Artery Flap
  - 1.9.1. Anatomy
  - 1.9.2. Flap Design
  - 1.9.3. Dissection Technique
- 1.10. Osteomyelitis of Bones of the Foot and Ankle
  - 1.10.1. Osteomyelitis
  - 1.10.2. Management of Bone Defects Secondary to Osteomyelitis
  - 1.10.3. Role of Soft Tissue Reconstruction in the Management of Foot and Ankle Infections



*An academic option that gives you the flexibility you need to combine a high-level program with the most demanding responsibilities".*

05

# Methodology

This program offers students a different way of learning. Our methodology uses a cyclical learning approach: Relearning.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the New England Journal of Medicine have considered it to be one of the most effective.



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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization”*

## At TECH, we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. 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

This Postgraduate Certificate in Foot and Ankle Soft Tissue Reconstruction guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.





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

This private qualification will allow you to obtain a **Postgraduate Certificate in Foot and Ankle Soft Tissue Reconstruction** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University**, is an official European University publicly recognized by the Government of Andorra (**official bulletin**). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

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

Title: **Postgraduate Certificate in Foot and Ankle Soft Tissue Reconstruction**

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 Global University will make the necessary arrangements to obtain it, at an additional cost.



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