

Postgraduate Certificate

Foot and Ankle Soft Tissue Reconstruction





Postgraduate Certificate Foot and Ankle Soft Tissue Reconstruction

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/postgraduate-certificate/foot-ankle-soft-tissue-reconstruction

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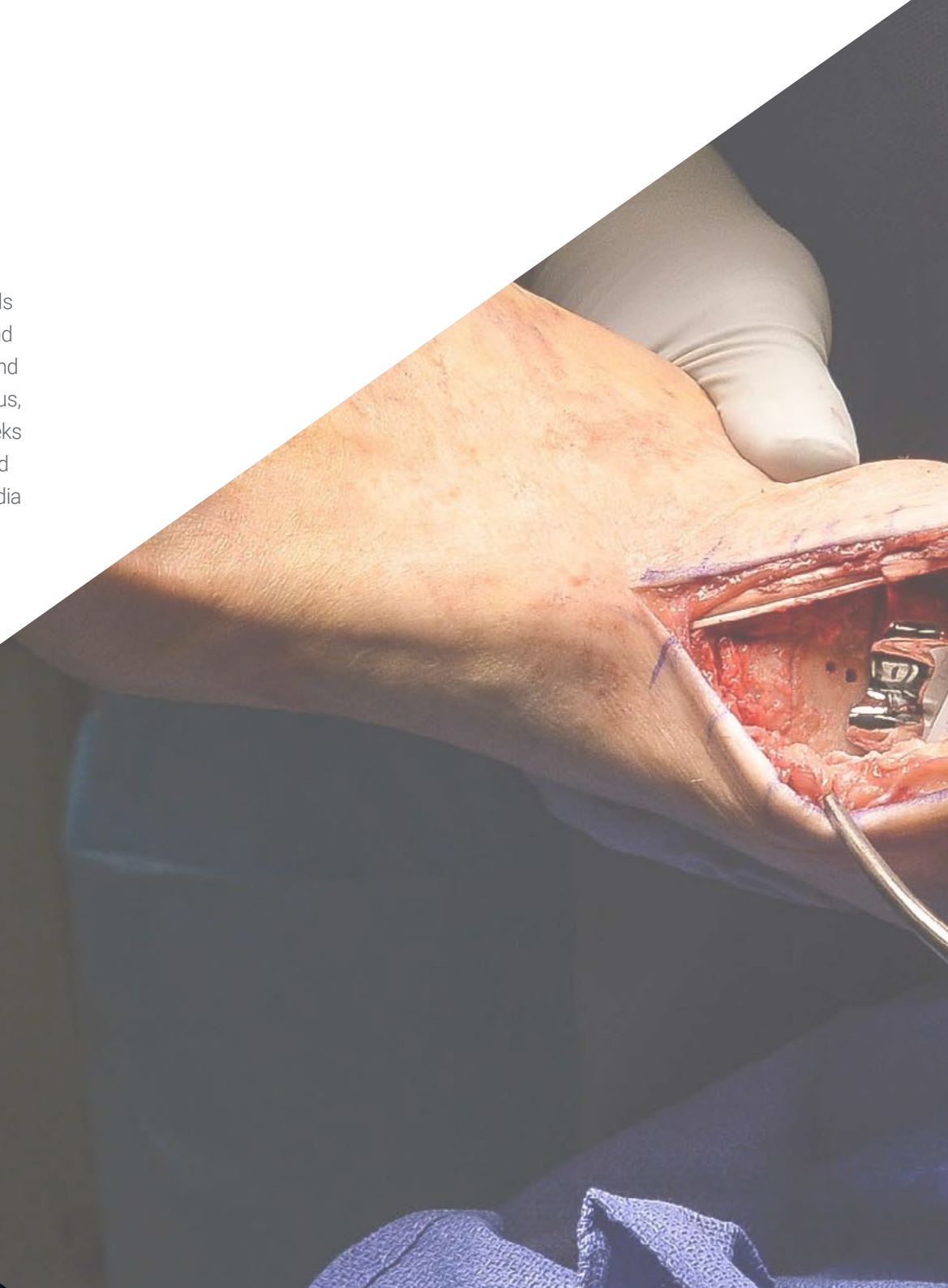
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01

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 cannot be oblivious, and that is why this 100% online high quality program is born. A program that in just 6 weeks will take the professional, 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 just 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 notable 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 that in just 6 weeks will lead you 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, the professional 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 and compatible Postgraduate Certificate with the most demanding responsibilities. All you need is an electronic device with 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 up-to-date scientific program on the market. The most important features include:

- Practical cases presented by experts in medicine
- 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
- The practical exercises where the self-evaluation 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



Thanks to this university program you will be up to date in the management of secondary bone defects and 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 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.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on Problem-Based Learning, in which the professional will have to try to solve the different professional practice situations that will arise throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

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

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



02 Objectives

Upon completion of the 150 teaching hours of this Postgraduate Certificate, the professional 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 you 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 strengthen your skills in the use of high and low complexity techniques"



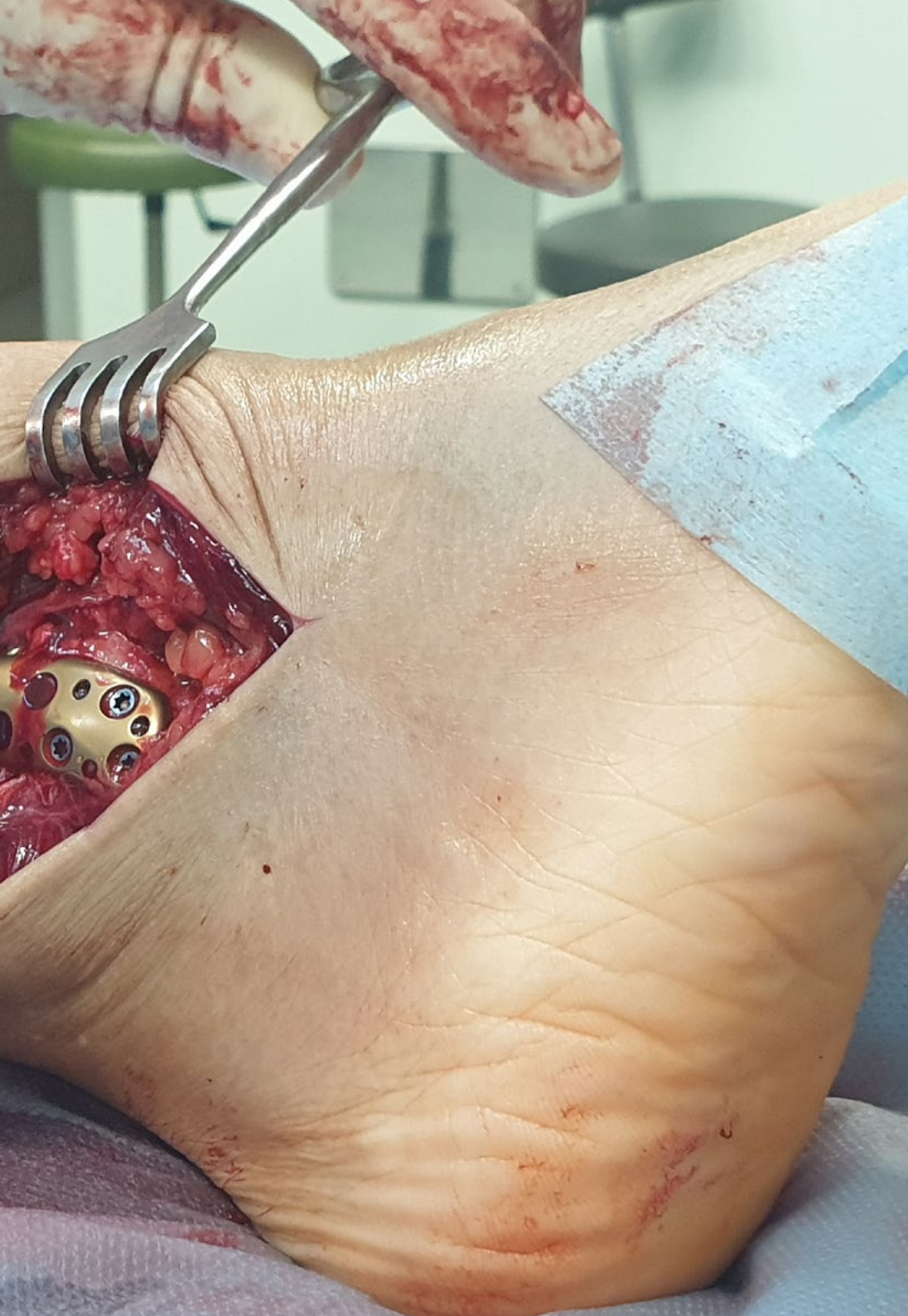
General Objectives

- ♦ 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 foot and ankle bones



This 100% online course will allow you to get the update you are looking for on Foot and Ankle Soft Tissue Reconstruction in just 6 weeks"





Specific Objectives

- 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. Additionally, its proximity will allow you to resolve any questions you may have about the content of the program, throughout the program.





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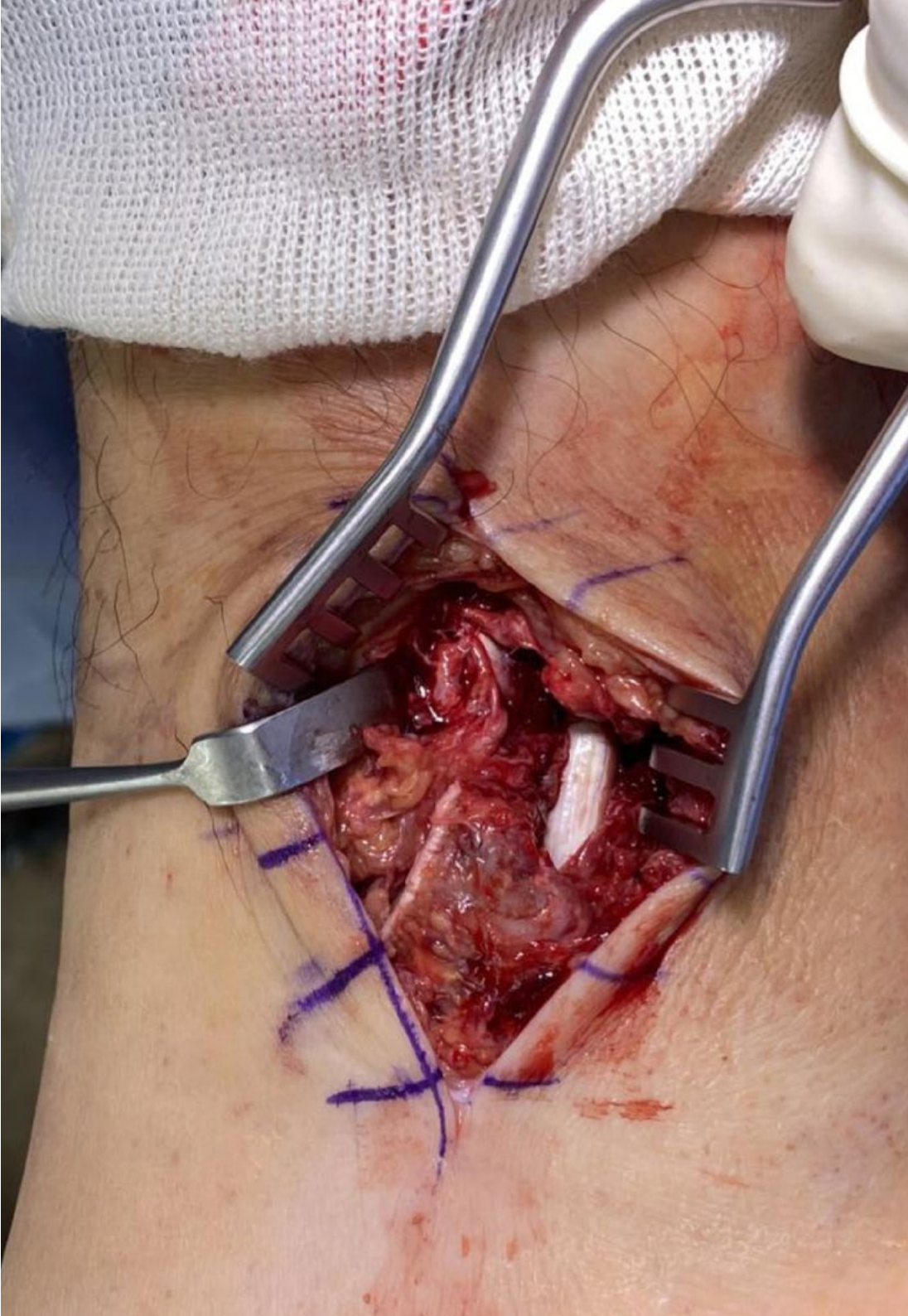
Specialists in Traumatology and Orthopedics with extensive professional experience make up the excellent teaching team that TECH has assembled for this Postgraduate Certificate"

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 Injuries
- ◆ Specialist in Hand Surgery and Reconstructive Microsurgery
- ◆ Graduate in Medicine and Surgery
- ◆ Traumatology and Orthopedics Specialty
- ◆ Subspecialty in Reconstructive Microsurgery at The Campbell Clinic, United States

Dr. López Guevara, Daniel

- ◆ Medical Sonographer and Specialist in Traumatology and Orthopedics
- ◆ Medical specialist in Traumatology and Orthopedic Surgery in various clinical centers in the city of Valencia
- ◆ Specialist in Reconstructive Microsurgery
- ◆ Graduate in Medicine and Surgery
- ◆ Traumatology and Orthopedics Specialty
- ◆ Fellowship in Orthopaedic 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
- ◆ Instructor in Microsurgery
- ◆ Graduate in Medicine and Surgery
- ◆ Traumatology and Orthopedics Specialty
- ◆ Microsurgical Technique at the Experimental Surgery Center, Sabadell

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. Additionally, the Relearning system will allow them to progressively advance through the content, reducing the long hours of study.





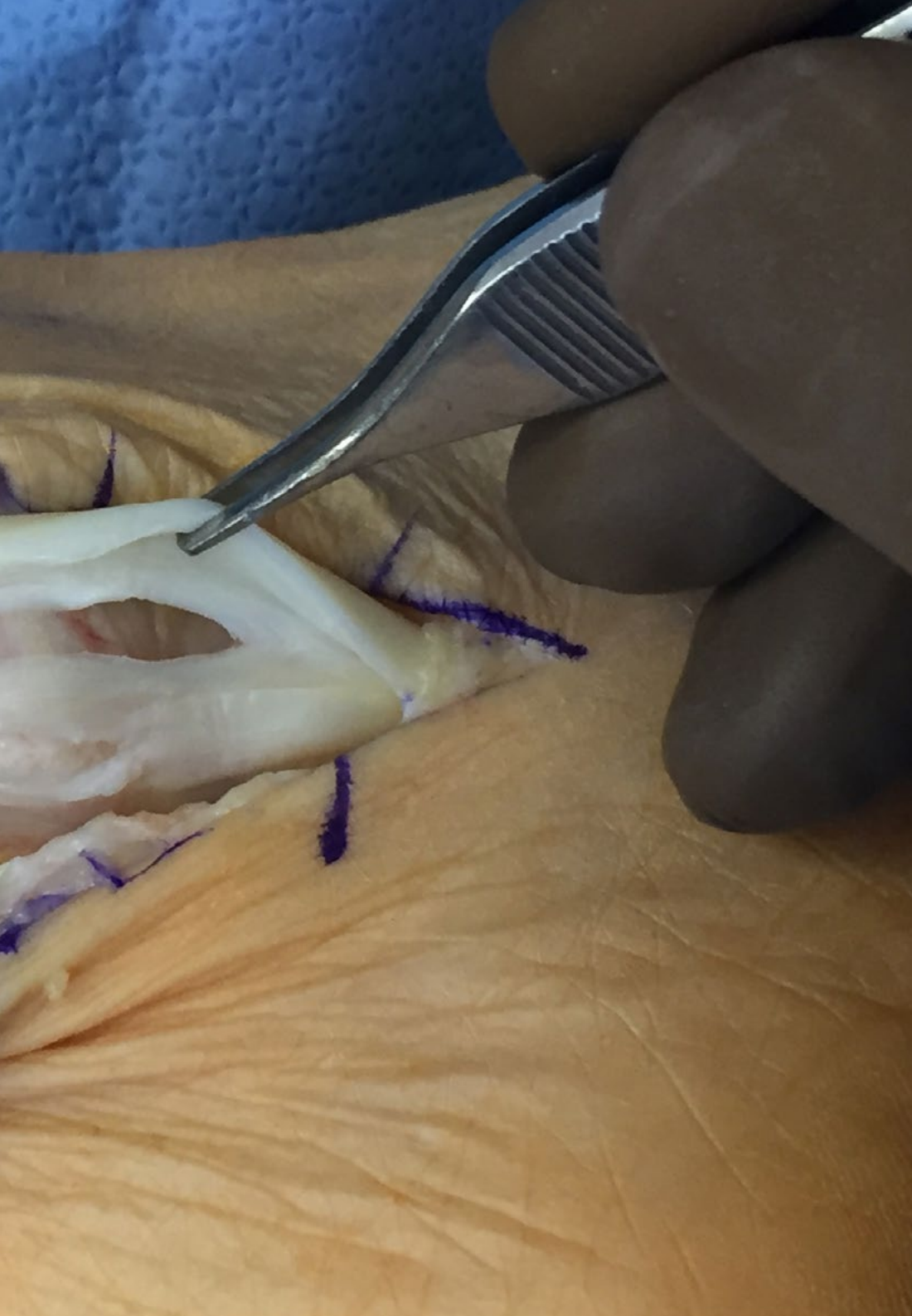
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Thanks to the Relearning method, used by TECH, you will reduce the long hours of study and memorization”

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 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.



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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 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.





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.



06 Certificate

The 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 Technological University.



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

This **Postgraduate Certificate in Foot and Ankle Soft Tissue Reconstruction** 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 Certificate** issued by **TECH Technological University** via tracked delivery*.

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

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

Official N° of Hours: **150 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.

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guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online training
development languages
virtual classroom



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