

# Postgraduate Certificate Osteoarticular Infections in Pediatric Orthopedics





## Postgraduate Certificate Osteoarticular Infections in Pediatric Orthopedics

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Teaching Hours: 150 hours.

Website: [www.techtitute.com/medicine/postgraduate-certificate/osteoarticular-infections-pediatric-orthopedics](http://www.techtitute.com/medicine/postgraduate-certificate/osteoarticular-infections-pediatric-orthopedics)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 18*

05

Methodology

---

*p. 22*

06

Certificate

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*p. 30*

# 01

# Introduction

Infectious pathology in children, due to its frequency in the Emergency Department and Primary Care, is one of the main causes of consultation. For this reason, gaining knowledge and being up-to-date on this subject must be constant, both when initially recognizing and resolving the emergency, and in order to focus, guide and correctly direct its management.





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*Professionals must update their knowledge with specialization courses such as this one, where they will find the main novelties in the field"*

Adapting to our times, in Pediatric Orthopedics there is no high-level online specialization that makes it possible, in our language, to stay at the forefront of updates and access to the fundamental concepts of our speciality.

Although there are only a few one-off in-person courses, the possibility of having access to specialists from a top national and international hospital, with great experience in complex processes of Pediatric Orthopedics, is a unique opportunity today.

This course offers the physician up-to-date specialization on the diagnosis and treatment of different infectious pathologies at the musculoskeletal level in the pediatric patient. Aimed at facilitating the performance of children with suspected or diagnosed musculoskeletal infectious pathology, by updating their knowledge in epidemiology, clinical, diagnosis, antibacterial, antiviral and/or antifungal treatments.

The syllabus covers the main topics of current Pediatric Orthopedics in such a way that whoever masters them will be prepared to work in this field in any hospital in the world. Therefore, it is not just another diploma in your backpack, but a real learning tool to approach the topics of the specialty in a modern, objective way and with the ability to make a judgment based on today's most cutting-edge literature.

This Postgraduate Certificate in Osteoarticular Infections in Pediatric Orthopedics contains the scientific most complete and up-to-date educational program on the market. The most important features of the program include:

- ♦ Developing practical cases presented by experts in Pediatric Orthopedics
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional development.
- ♦ The latest developments in Pediatric Orthopedics.
- ♦ Practical exercises where self-assessment can be used to improve learning.
- ♦ Special emphasis on innovative methodologies in Pediatric Orthopedics.
- ♦ 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



*If you want to improve your daily practice, don't hesitate to broaden your knowledge with this intensive specialization"*

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*This Postgraduate Certificate may be the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Pediatric Orthopedics, you will obtain a Postgraduate Certificate issued by TECH Technological University"*

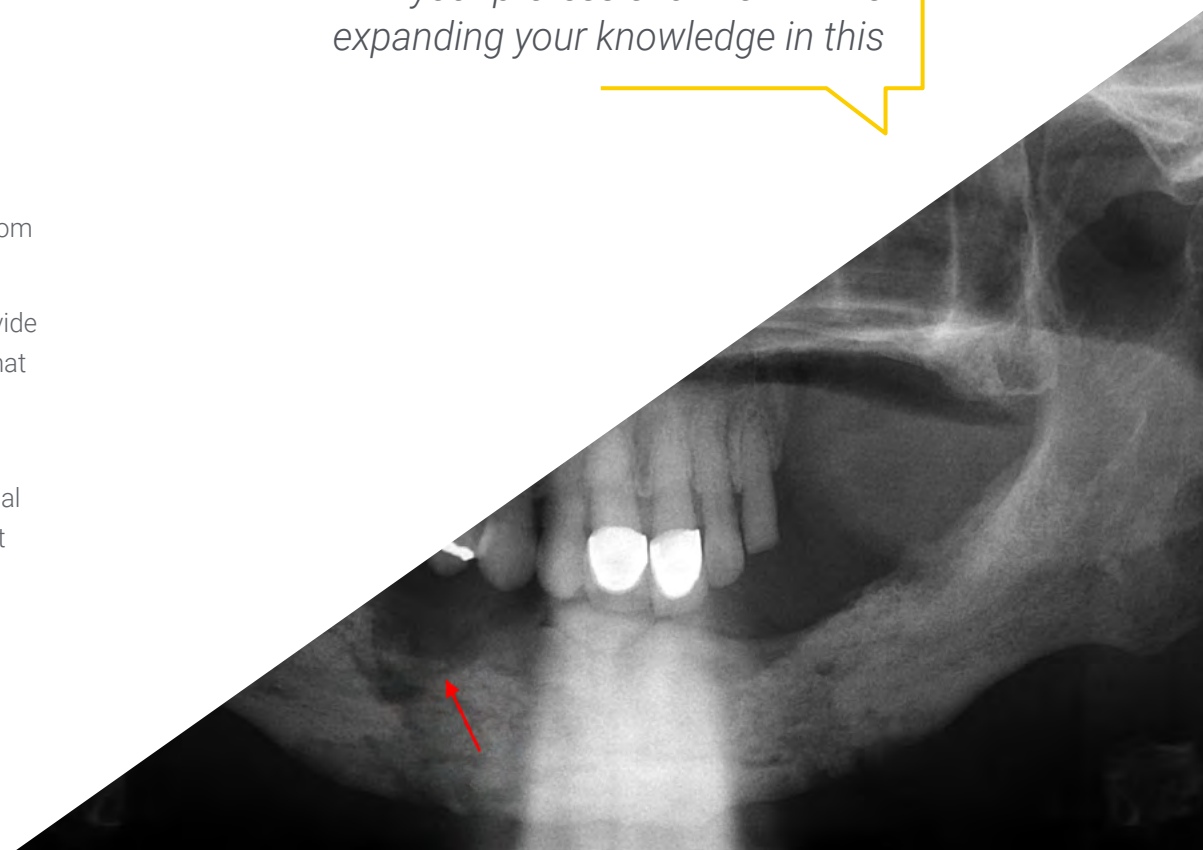
The teaching staff includes professionals from the field of Pediatric Orthopedics, who bring their experience to this specialization, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the physician with situated and contextual learning, i.e., a simulated environment that will provide immersive specialization that is programmed to train students 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 throughout the program. For this purpose, the medical specialist in pediatric orthopedics will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of Pediatric Orthopedics.

*You will be prepared by professionals with extensive experience in Pediatric Orthopedics, who will guide you throughout the educational process.*

*This 100% online course will allow you to combine your studies with your professional work while expanding your knowledge in this*



# 02 Objectives

The Postgraduate Certificate in Osteoarticular Infections in Pediatric Orthopedics is aimed at facilitating the performance of top tier professionals with the latest advances and most innovative treatments in the sector.







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*To become one of the best professionals specialized in pediatric orthopedics you can't miss the opportunity to study this Postgraduate Certificate with us"*



## General Objectives

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- Describe the main aspects of infectious musculoskeletal pathologies in pediatric patients
- Review advances and update knowledge on the management of infectious musculoskeletal pathologies in pediatric patients
- Develop the necessary skills to appropriately diagnose and treat pediatric patients with infectious musculoskeletal diseases and other arthropathies

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





## Specific Objectives

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- ◆ Learn the microbiologic characteristics of the different infectious musculoskeletal pathologies in pediatric patients
- ◆ Delve into the most prevalent germs that cause infectious pathology
- ◆ Be able to perform the necessary tests to diagnose the different infectious entities
- ◆ Develop a correct strategy for the differential diagnosis of diseases that cause lameness in pediatric patients
- ◆ Learn the emergency management of pediatric patients with infectious musculoskeletal pathologies
- ◆ Gain in-depth knowledge on the hospital management of patients admitted for musculoskeletal infections
- ◆ Apply the long-term management of patients diagnosed with musculoskeletal infections during infancy
- ◆ Manage and identify other non-infectious arthropathies, as well as their management in pediatric patients
- ◆ Suspect and learn how to manage recurrent multifocal osteomyelitis

03

# Course Management

The program includes in its teaching staff renowned experts in Pediatric Orthopedics, who contribute their work experience to this specialization. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.





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*Leading professionals in the field have come together to teach you the latest advances in Pediatric Orthopedics”*

## International Guest Director

Mininder Kocher is an internationally prominent pediatric orthopedic surgeon. His professional merits and results have been recognized with numerous awards, including the Kappa Delta award, considered the “Nobel Prize” in this surgical field. In addition, he practices as a specialist at Harvard Medical School.

The scientist also holds the program of Chief of the Division of Sports Medicine at Boston Children’s Hospital. From that entity, he deals with different complex pathologies such as **joint injuries, Osteomyelitis, Hip Labral Rupture, Osteochondritis Dissecans or Pigmented Villonodular Synovitis**, among others. His innovations in these areas of Orthopedic Medicine are reflected in more than 150 academic articles published in first impact indexed journals. He is also the author of more than 100 chapters in books and is the sole author of 4 books. His texts have become an indispensable reference for the medical community, highlighting his undeniable contributions to the field.

Dr. Mininder Kocher’s impact extends beyond the borders of the United States, as he serves as a **consultant and advisor to hospitals and universities in more than 20 countries**. Moreover, he has been listed as one of the top surgeons in the world on platforms such as US News & World Report, Castle Connelly, Top Doctors and Boston Magazine. Likewise, his skills and experiences have been the subject of attention in reference media such as the New York Times, Wall Street Journal, USA Today, Boston Globe, Chicago Tribune, Scientific American, among others.

Especially committed to the rehabilitation of children and adolescent athletes, his exhaustive work in this area has been decorated with awards as prominent as the **Von Meyer, Richard Kilfoyle, Angela Kuo or Arthur Heune awards**.



## Dr. Kocher, Mininder

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- Orthopaedic Surgery Specialist at Harvard Medical School
- M.D. from Harvard University
- Board Certified in General Practice by the American Board of Orthopaedic Surgery
- Board Certified in Sports Medicine by the American Board of Orthopedic Surgery
- Member of: Board of Directors of the American Academy of Orthopaedic Surgeons, American Orthopaedic Society for Sports Medicine, Pediatric Orthopaedic Society of North America, Herodicus Society, International Pediatric Orthopaedic Think Tank

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

## Management



### Dr. Palazón Quevedo, Ángel

- ♦ Head of the Neurology Service
- ♦ Medical specialist in Orthopedic Surgery and Traumatology with wide and recognized professional experience in the field of O.S.T. for children and adults.
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid and Medical Specialist in O.S.T. via MIR at the San Juan Clinical University Hospital (Alicante-Valencian Community)
- ♦ Permanent member of the SECOT since 1999.
- ♦ Member of the SEOP since 2014.
- ♦ Collaborator with the SECOT board of directors since 2004-06 for the interactive dissemination of the speciality.

## Professors

### Dr. Ramírez Barragán, Ana

- ♦ Attending physician at the Traumatology and Orthopedic Surgery Service of the Niño Jesús Hospital
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid.
- ♦ Specialist in Traumatology and Orthopedic Surgery.

### Dr. Rosa Egea, María

- ♦ Attending Physician of the Orthopedics and Traumatology Department of the Niño Jesús Pediatric University Hospital
- ♦ Specialist in Orthopedic Surgery and Traumatology.
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid.





**Dr. Martínez Álvarez, Sergio**

- ◆ Attending Physician of the Orthopedics and Traumatology Department of the Niño Jesús Pediatric University Hospital
- ◆ Head of the Pediatric Upper Limb and Hand Unit
- ◆ Specialist in Pediatric Orthopedic Surgery and Traumatology. La Princesa University Hospital

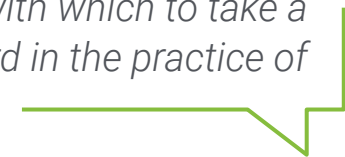
**Dr. Del Cura Varas, Marisol**

- ◆ Attending Physician of the Orthopedic Surgery and Traumatology Department of Hospital Ramón y Cajal (Madrid)
- ◆ Degree in Medicine at the U.A.M. (Autonomous University of Madrid).

**Dr. Martínez González, Carmen**

- ◆ Degree in Medicine and Surgery. Autonomous University of Madrid
- ◆ Spine Unit. Pediatric Spine Deformation.

*An opportunity created for professionals who are looking for an intensive and effective course with which to take a significant step forward in the practice of*



# 04

## Structure and Content

The structure of the content has been designed by the best professionals in the Pediatric Orthopedics sector, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and with extensive knowledge of new technologies applied to orthopedics.





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*This Postgraduate Certificate contains the most complete and up-to-date scientific program on the market”*

## Module 1. Osteoarticular Infections

- 1.1. Septic Arthritis
- 1.2. Osteomyelitis
- 1.3. Discitis and Vertebral Osteomyelitis
- 1.4. Orthopedic Pathology in Rheumatoid Arthritis
- 1.5. Other Arthropathies: Psoriatic Arthritis Reiter's Syndrome, Psoriatic Arthritis.
- 1.6. Chronic Recurrent Multifocal Osteomyelitis. CRMO





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*This will be a key specialization to advance your career”*

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

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 Harvard 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 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 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 Osteoarticular Infections in Pediatric Orthopedics guarantees you, in addition to the most rigorous and up-to-date specialization, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Osteoarticular Infections in Pediatric Orthopedics** contains the most complete and up-to-date scientific program 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 Osteoarticular Infections in Pediatric Orthopedics**

Official N° of Hours: **150 hours**.





health future  
confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
development language  
virtual classroom



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