Postgraduate Diploma

Skeletal Dysplasias and Infections in Pediatric Orthopedics

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Postgraduate Diploma

Skeletal Dysplasias and Infections in Pediatric Orthopedics

Course Modality: **Online**

Duration: **6 months.**

Certificate: **TECH Technological University**

Teaching Hours: **450 hours.**

Website: **www.techtitute.com/physiotherapy/postgraduate-diploma/postgraduate-diploma-skeletal-dysplasias-iInfections-pediatric-orthopedics**

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01

Introduction

This is the only orthopedic-specific education for children in Skeletal Dysplasias and Infections in Pediatric Orthopedics 100% online. Through a comprehensive knowledge of the physiotherapeutic alternatives, it will be possible to maximize the results of orthopedic treatment, directly impacting the patient's quality of life. This program includes the specific education that will provide the professional in infant rehabilitation (regardless of their basic education), the necessary security to offer the patient the most appropriate physiotherapeutic solution.

Use the best educational methodology to continue your education in the field of Pediatric Orthopedics."

This high-level education will provide a chapter-by-chapter review of the most important units facing a physical therapist, offering a comprehensive specialty perspective for any professional who wishes to stay up to date in Skeletal Dysplasias and Infections in Pediatric Orthopedics.

The physical therapy professional will be able to update their knowledge on the most common pathologies in children's orthopedic patients, as well as on the musculoskeletal and neuromuscular alterations they present. In particular, the different orthoses and support products will be studied in depth, as well as their characteristics and their application objectives.

The field of physical therapy that seeks to promote the health and well-being of children by advising, treating and caring for those infants who have a general developmental problem or movement disorder, which may be caused by congenital or acquired disease. This field is also essential to prevent future ailments in infants who need a follow-up to ensure their proper development. Therefore, this program focuses on building the skills needed by the professional to specialize in this field, learning to address some of the most common pathologies in childhood and the adaptability of different techniques and treatments.

Throughout this education, the student will address the most common pathologies in the pediatric patient and the related risk factors. For this purpose, key elements such as etiology, pathophysiology, clinical manifestations and evolution will be described, together with some of the therapeutic intervention techniques. Likewise, the student will study in depth Infantile Cerebral Palsy, what this pathology is about and its prevalence. Several ways to classify the ICP will be shown, such as the Gross Motor Function Measure, the types according to the affectation of the muscle tone, etc. Finally, the anatomy, function and development of the Nervous System will be described, as well as plasticity, motor learning and its assessment.

With this online program, students can organize their time and pace of learning, adapting it to their schedules, in addition to being able to access the contents from any computer or mobile device.

This **Postgraduate Diploma in Skeletal Dysplasias and Infections in Pediatric Orthopedics** contains the scientific most complete and up-to-date scientific program on the market. Its most notable features are:

- 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 the self-assessment process can be carried out 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 program"

With this program you will have the opportunity to master new techniques and advances in Pediatric Orthopedics"

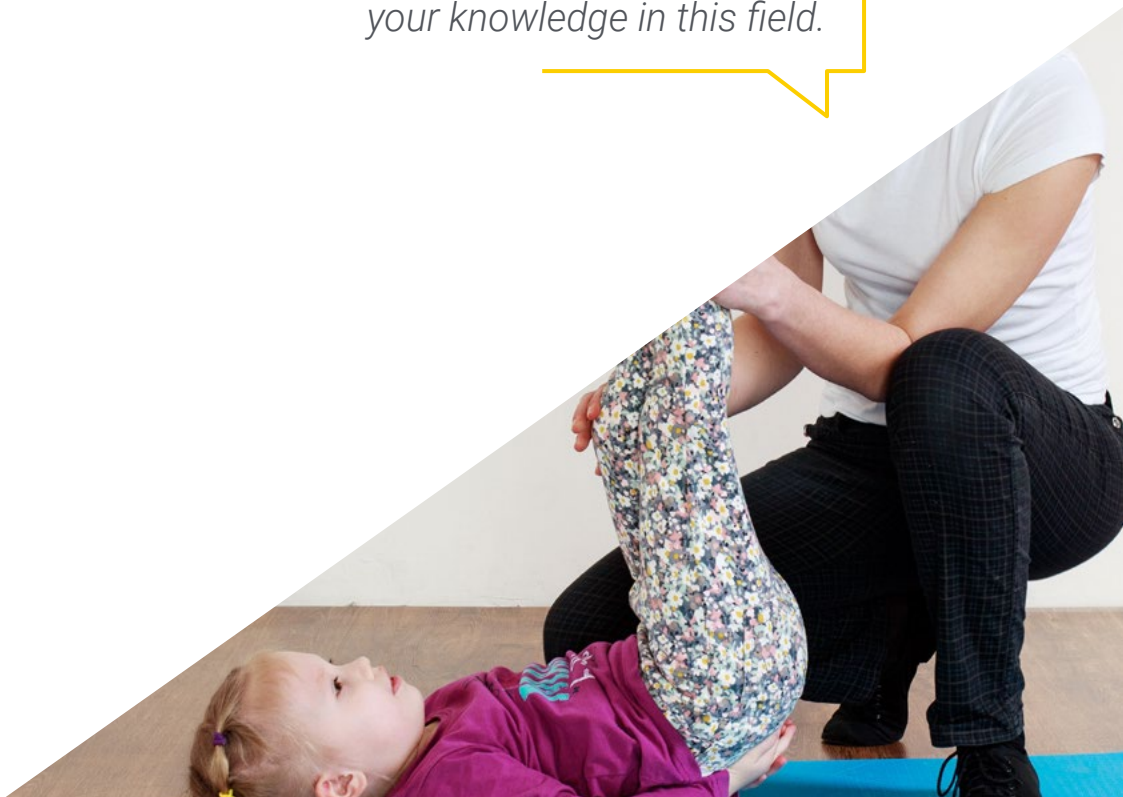
Cutting-edge training created to propel you toward greater competitiveness in the job market.

This 100% online Postgraduate Postgraduate Diploma will allow you to combine your studies with your professional work while expanding your knowledge in this field.

The program's teaching staff includes professionals from the sector who contribute their work experience to this training 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 courses 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 throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.



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Objectives

The program in Skeletal Dysplasias and Infections in Pediatric Orthopedics is designed to facilitate the professional's performance at the highest academic level, with this intensive education that includes the latest advances and most innovative treatments in the sector. After passing the program evaluations, the physiotherapist will have acquired the professional competencies necessary for a quality and up to date practice based on the most innovative didactic methodology.

Highly specialized objectives in an education created to train the best professionals in Physiotherapy".

General Objectives

- Learn the treatment by applying physiopathological principles
- Explore physical examinations integrated with three-dimensional movement analysis
- Manage functional and quality of life classifications and scales
- Study in depth the application of the lever arm concept in gait disorders
- Learn the principles of conservative and surgical treatment
- Recognize the different bone dysplasias, as well as the most frequent congenital malformations affecting the lower limbs, allowing an accurate diagnosis together with an adequate therapeutic approach
- 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

To become one of the best physiotherapists specialized in children's orthopedics, you cannot miss the opportunity to study this program with us".

Specific Objectives

Module 1. Orthopedic Alterations Associated with Neuromuscular Disease.

- Learn available knowledge on the prevention and management of hip dislocation
- Learn the management algorithms for each pathological gait pattern
- Make decisions using three-dimensional motion analysis
- Delve into surgical techniques by anatomical segments
- Learn the application of orthoses and rehabilitation after multilevel surgery

Module 2. Skeletal Dysplasias and Syndromic Diseases

- Specialize in the etiology and pathogenic theories of bone dysplasias and congenital malformations of the lower limbs
- Perform an accurate assessment of the different diagnostic tests
- Delve into the natural history and evolution expectancy of each process
- Gain in-depth knowledge of the different treatment methods and the best moment to carry them out, depending on the pathology

Module 3. Osteoarticular Infections

- Learn the microbiologic characteristics of the different infectious musculoskeletal pathologies in pediatric patients
- Study in depth the most frequent germs causing infectious pathologies.
- 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

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Course Management

The Program includes in its teaching staff leading experts in Pediatric Orthopedics, who pour into this specialization the experience of their work. In addition, other experts of recognized prestige participate in its design and elaboration, completing the program in an interdisciplinary way.

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

- 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

Thanks to TECH you will be able to learn with the best professionals in the world"

Management

Dr. Palazón Quevedo, Ángel

- Head of the Pediatric Orthopedics Service at the Niño Jesús University Hospital
- Medical specialist in Orthopedic Surgery and Traumatology with wide and recognized professional experience in the field of O.S.T. for children and adults
- Doctoral course in Pediatrics with the following Doctoral Thesis project: "Long-term follow-up of surgically repaired hip dysplasias in infancy"
- 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
- Meber of the SEOP since 2014
- Collaborator with the SECOT board of directors since 2004-06 for the interactive dissemination of the speciality

Professors

Dr Egea Gámez, Rosa María

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

Dr. Martínez Álvarez, Sergio

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

Dr Ramírez Barragán, Ana

- Attending physician at the Traumatology and Orthopedic Surgery Service of the Niño Jesús Hospital
- PhD in Medicine from the University of Salamanca
- Degree in Medicine and Surgery from the Complutense University of Madrid
- Specialist in Traumatology and Orthopedic Surgery
- Member of the Spanish Society of Pediatric Orthopedics (SEOP).
- Member of the Spanish Society of Orthopedic Surgery and Traumatology (SECOT).

Dr. Abad Lara, José Antonio

- Degree in Medicine and Surgery from the University of Córdoba
- Specialist in Pediatric Orthopedic Surgery and Traumatology, with exclusive dedication to the management of pediatric orthopedic conditions in the Pediatric Orthopedics Unit of the Hospital Universitario Reina Sofia
- Coordinator of the Children's Orthopedics Unit of the Hospital Universitario Reina Sofia until 2018

Dr. Abril Martín, Juan Carlos

- Graduate in Medicine and Surgery from the University of Valladolid
- Specialist in Traumatology and Orthopedic Surgery. Jiménez Díaz Foundation, Madrid
- Faculty Area Specialist of O.S.T. at Insalud hospitals

Dr. Alonso Hernández, Javier

- Medical specialist in Traumatology and Orthopedic Surgery
- Assistant to the Pediatric Orthopedics Service of the Niño Jesús Hospital in Madrid
- Head of the Pediatric Traumatology and Orthopedics Unit at the CEMTRO Clinic in Madrid
- Specialized in Pediatric Traumatology and Orthopedics and in Pediatric Sports Traumatology

Dr. Álvaro Alonso, Alberto

- Degree in Medicine from the Complutense University of Madrid.
- Medical specialist in Traumatology and Orthopedic Surgery. Gregorio Marañón General University Hospital. Madrid
- Neurosurgery coordinator at the Gregorio Marañón General University Hospital. Madrid

Dr Alves, Cristina

- Orthopedic Physician in the Pediatric Orthopedics Service. Pediatric Hospital - CHUC, EPE

Dr. Budke Neukamp, Marcelo

- Degree in Medicine and Surgery from the Faculty of Medicine of the Federal De Pelotas University in Río Grande do Sul (Brazil)
- PhD in Surgery. Autonomous University of Madrid
- Neurosurgery Attending Physician. Niño Jesús Pediatric University Hospital

Dr. Cabello Blanco, Juan

- Specialist in Orthopedic Surgery and Traumatology. Residency at the La Paz University Hospital of Madrid
- Degree in Medicine from the Complutense University of Madrid.
- Private practice in Pediatric Traumatology and Orthopedics Internacional Ruber Clinic

Dr. Castañeda, Pablo G

- Professor of Orthopedic Surgery - New York University
- Head of the unit of pediatric orthopedic surgery. New York University. Hassenfeld Children's Hospital
- Medical Surgeon graduated from the Universidad Nacional Autonoma de Mexico through the Universidad Anahuac
- Specialized in Orthopedics and Traumatology from the National Autonomous University of Mexico
- Sub-specialized in hip and knee reconstructive surgery by the University of Oxford, Nuffield Orthopaedic Centre, Oxford, England
- Sub-specialized in Pediatric Orthopedics by the Baylor University, Houston, Texas, USA.

Dr. Chorbadjian Alonso, Gonzalo Andrés

- Surgeon at the Universidad de Santiago de Chile
- Specialist in Orthopedia and Traumatology at the Universidad de Chile
- Sub-speciality fellow in Neuro-Orthopedics. Hospital Infantil Universitario Niño Jesús, Universidad Autónoma de Madrid

Dr. Clemente Garulo, Daniel

- Attending physician at the Pediatric Rheumatology Unit of the Hospital Infantil Universitario Niño Jesús
- PhD in Health Sciences from the Universidad Camilo José Cela
- Degree in Medicine and Surgery from the Faculty of Medicine of the Universidad de Alcalá.
- Active member of the Spanish Society of Rheumatology (SER) and the Spanish Society of Pediatric Rheumatology (SERPE)

Dr. De Pablos Fernández, Julio

- Fellow in Pediatric Orthopedic Surgery at the Alfred I DuPont Institute, Wilmington, Delaware, USA.
- Associate Professor of Orthopedic Surgery and Traumatology at the Universidad de Navarra
- PhD in Medicine and Surgery from the Universidad de Navarra
- Author of the following books: "Growth cartilage lesions", "Bone elongation methods

and their uses" and "Angular deformities in children and teenagers"

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. (Universidad Autónoma de Madrid)

Dr. Downey Carmona, Francisco Javier

- Specialist in Orthopedic Surgery and Traumatology at the Hospital Universitario de Valme
- Graduate in Medicine and Surgery from the University of Seville
- Research proficiency obtained after completing the doctoral program

Dr. Duart Clemente, Julio

- Orthopedic Surgery and Traumatology assistant at the Complejo Hospitalario de Navarra
- PhD in Medicine and Surgery from the Universidad de Navarra
- Graduate in Medicine and Surgery from the Universidad de Navarra
- Resident Intern at the Universidad de Navarra clinic
- Associate Professor of Orthopedic Surgery and Traumatology. Navarra University

Dr Espinazo Arce, Olga

- Heat of the Pediatric Orthopedics unit of the O.S.T. Service of Basurto Hospital
- Degree from the Faculty of Medicine at the Basque Country University
- Orthopedic Surgery and Traumatology service of Basurto Hospital

Dr. Farrington Rueda, David M

- Degree in Medicine and Surgery. University of Seville
- Faculty specialist at the Department of Pediatric Orthopedic Surgery and Traumatology. Valme University Hospital
- Head of the Department of Orthopedic Surgery and Traumatology. Hospital San Juan de Dios del Aljarafe
- Head of the Pediatric Orthopedic Surgery and Traumatology Department. Virgen del Rocío University Hospital

Dr. Fernándes de Carvalho, Marcos António

- Degree in Medicine from the Faculty of Medicine at the University of Cantabria.
- Specific training in Orthopedics and Traumatology at the Hospital and University Center of Coimbra
- Specialized in Pediatric Orthopedics at the Pediatric Hospital CHUC, EP

Dr. Fernández Pineda, Israel

- Faculty area specialist in Pediatric Surgery at the Department of Pediatric Surgery of the Virgen del Rocío Pediatric University Hospital
- Fellowship in Pediatric Oncological Surgery at St. Jude Children's Research Hospital
- Degree in Medicine from the Complutense University of Madrid

Dr. Fraga Collarte, Manuel

- Attending Physician at the Department of Orthopedic Surgery and Traumatology
- Degree in Medicine from the University of Santiago de Compostela

Dr Galán Olleros, María

- Resident in Orthopedics and Traumatology. San Carlos Clinical Hospital, Madrid, Spain
- SECOT Foundation award winner for Clinical Research in 2020
- Best paper published in the Spanish Journal of Orthopedic Surgery and Traumatology in 2019
- SECOT Foundation award winner for Clinical Research in 2018

Dr García Carrión, Alicia

- Degree in Medicine and Surgery. University of Castilla-La Mancha
- Specialist in Orthopedic Surgery and Traumatology. San Carlos Clinical Hospital
- Medical specialist in Traumatology and Pediatric Orthopedic Surgery at the CEMTRO Clinic

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- Sant Joan de Déu hospital. Orthopedics / COTOrthopedics

Dr. Garríguez Pérez, Daniel
- Resident physician in Orthopedic Surgery and Traumatology at the San Carlos Clinical Hospital in Madrid
- Degree and Master's Degree in Medicine from the Autonomous University of Madrid

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- PhD in Medicine and Surgery from the University of Salamanca
- Specialist in Orthopedic Surgery and Traumatology at the Department of Traumatology and Orthopedic Surgery of the La Paz Hospital in Madrid
- Coordinator at the Rachis Unit of the Niño Jesús Pediatric University Hospital

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- Head of the Pediatric Orthopedics Unit. Service of Traumatology and Orthopedic Surgery. La Paz University Hospital, Madrid
- Degree in Medicine and Surgery. Navarra University
- Specialist in Traumatology and Orthopedic Surgery. La Princesa Hospital, Madrid.

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- Head of the Pediatric Orthopedics Unit - CSUR of the CHUAC
- Degree in Medicine and Surgery from the University of Navarra
- Specialist in Orthopedic and Trauma Surgery
- Trauma and Orthopedics professor at the University School of Physiotherapy of the ONCE"

Dr. Granado Llamas, Alberto
- Orthopedic Surgery and Traumatology resident at the Gómez Ulla Central Defense Hospital
- Medical Captain of the Military Health Corps on the Ordinary Officer Level
- Office of the Medical Lieutenant of the Military Health Corps on the Ordinary Officer Level, Specialist in Orthopedic Surgery and Traumatology

Dr Manzarbeitia Arroba, Paloma
- Specialist Physician at the Niño Jesus Hospital in Madrid
- MIR in Orthopedic Surgery and Traumatology: Toledo University Hospital Complex
- External Rotation Hand and Upper Limb Surgery Unit - Traumatology and Orthopedic Surgery Service of the HM Montepríncipe Hospital

Dr. Martí Ciruelos, Rafael
- Head of the Pediatric Orthopedics Department at the 12 Octubre Hospital
- Head of the Orthopedics and Pediatric Traumatology Unit at the Sanitas la Moraleja Hospital
- Degree in Medicine and Surgery from the Complutense University of Madrid
- Teacher of residents thanks to a MIR in Traumatology at teh 12 Octubre Hospital in Madrid

Dr. Martínez Caballero, Ignacio
- Head of a department within the Neuro-orthopedics Unit, Orthopedics and Traumatology Service, Niño Jesús Pediatric University Hospital
- PhD in Medicine and Surgery from the Autonomous University of Madrid.
- Medical Coordinator of the Movement Analysis Laboratory of the Niño Jesús University Pediatric Hospital in Madrid since 2007

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

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- Degree in Medicine and Surgery from the Complutense University of Madrid
- Medical specialist in Traumatology and Orthopedic Surgery. Gregorio Marañón General University Hospital. Madrid
- Musculoskeletal Oncology Faculty Specialist at the Gregorio Marañón General University Hospital. Madrid
- Pediatric Oncologic Musculoskeletal Faculty specialist at the Gregorio Marañón General University Hospital. Madrid

Dr. Miranda Gorozarri, Carlos

- Degree in Medicine and Surgery from the University of Alcalá, Madrid
- Specialist in Traumatology and Orthopedic Surgery. Asepeyo Monographic Hospital of Traumatology and Orthopedic Sugery (Madrid)
- Faculty Specialist for the pediatric traumatology and orthopedics service of the Niño Jesús Pediatric University Hospital

Dr. Muñoz Niharra, Borja

- Degree in Medicine from the Autonomous University Madrid.
- Infanta Elena Hospital. Pediatric Orthopedics and Hip-Knee Unit
- CEMTRO Clinic. Pediatric Orthopedics Unit

Dr. Nieves Riveiro, David

- General and Digestive System Surgery Resident Intern. A Coruña University Hospital Complex
- Degree in Medicine from the University of Cantabria

Dr. Ortega García, Francisco Javier

- Degree in Medicine and Surgery. Autonomous University of Madrid
- Orthopedic Surgery and Traumatology specialist at the Doce de Octubre Hospital in Madrid, Traumatology II Service
- Attending Orthopedic Surgery and Traumatology physician at the Doce de Octubre Hospital

Dr. Patiño Contreras, José Luis

- Degree and Master's Degree in Medicine from the Complutense University of Madrid
- Master's Degree in clinical Reasoning and clinical skills, Alcalá University, Madrid
- Resident in orthopedic surgery and traumatology at the Fundación Alcorcón University Hospital - OST service

Dr Penelas Abelleira, Natalia

- Attending physician of the children's traumatology service at the

  Teresa Herrera Materno Infantil Hospital in A Coruña
- Degree in Medicine from the University of Santiago de Compostela
- Resident Intern Physician in Orthopedic Surgery and Traumatology at the University Hospital Complex in A Coruña

Dr Pérez-López, Laura M

- Functional Unit of the Upper Extremity and Congenital Pathologies. Traumatology Unit. Department of Pediatric Orthopedic Surgery and Traumatology, Sant Joan de Déu Materno-Infantil Hospital, Barcelona, University of Barcelona
- Referent in Pediatric Orthopedic Surgery and Traumatology at Clínica Diagonal, MediFIATC

Dr. Pérez-Somarriba Moreno, Álvaro

- Physiotherapist at the Therapy Unit and Movement Analysis Laboratory of the Niño Jesús Pediatric University Hospital
- Degree in Physiotherapy from San Pablo CEU University
- Expert in Myofascial Therapy. European University of Madrid
- Expert in Craniomandibular Dysfunction. San Pablo CEU University

Dr. Prato de Lima, Carlos Humberto

- Surgeon at the University of the Andes
- Traumatology and Orthopedics. Miguel Pérez Carreño Hospital in Caracas, Venezuela
- Pediatric Orthopedics, Children's Orthopedics Hospital, Caracas, Venezuela

Dr Quesada García, Belén

- Resident in Orthopedics Surgery and Traumatology at the Nuestra Señora del Prado Hospital in Talavera de la Reina
- Degree in Medicine from the Autonomous University Madrid.
- Basic Course on Traumatic Hand and Elbow Pathologies
- OST Speciality Initiation Course (SECOT)

Dr Rodríguez del Real, Maria Teresa

- Degree in Medicine from the Autonomous University Madrid
- Resident in Orthopedic Surgery and Traumatology at the Severo Ochoa University Hospital (Leganés)

Dr Rojas Díaz, Libardo Enrique

- Physician and Surgeon at the University of Santander
- Internal Medicine Physician. University Hospital of Santander

Dr Rojo Santamaría, Rita

- Degree in Medicine and Surgery. Complutense University of Madrid

- Specialist in Orthopedic Surgery and Traumatology

Dr Ron Marqués, Alejandra

- Graduate in Medicine and Surgery. Complutense University of Madrid
- Specialist in Orthopedic Surgery and Traumatology
- Faculty area specialist of the Pediatric Orthopedics and Traumatology Unit at the University Hospital of Getafe

Dr Salcedo Montejo, María

- Medical Specialist in Orthopedic Surgery and Traumatology
- Member of the Multidisciplinary Unit of skeletal dysplasias at the La Paz Hospital
- Orthopedic Surgery and Traumatology service of the Pediatric Orthopedics Unit. La Paz University Hospital (Madrid)

Dr Salom Taverner, Marta

- Degree in Medicine and Surgery from the University of Valencia
- Specialist in Orthopedic Surgery and Traumatology. La Fe University Hospital of Valencia
- Attending physician at the La Fe University Hospital as a specialist practitioner

Dr. Sanpera Trigueros, Ignacio

- Head of the Orthopedic Surgery and Pediatric Traumatology Service at the Son Espases University Hospital
- Professor and Head of the Department of Medical-Surgical Pathology-Locomotor System. Associate Professor of Human Anatomy. Faculty of Medicine. University of the Balearic Islands
- Doctor of Medicine
- Degree in Medicine from the Autonomous University of Barcelona
- Vice-President of the European Society of Pediatric Orthopedics (EPOS)

Dr. Soldado Carrera, Francisco

- Head of the Department of Orthopedic Surgery and Pediatric Traumatology. Barcelona Childrens University Hospital HM nens
- Director of the Hand, Plexus and Pediatric Microsurgery Unit. Vall Hebron Barcelona Hospital Campus
- Department of Orthopedic Surgery and Pediatric Traumatology. Vall Hebron Barcelona Hospital Campus

Dr. Sosa González, Guillermo

- Degree in Medicine from the Autonomous University Madrid.
- Medical specialist in Traumatology and Orthopedic Surgery. Gregorio Marañón General University Hospital. Madrid
- Faculty Specialist at the Department of Traumatology and Pediatric Orthopedics at the Gregorio Marañón General University Hospital. Madrid
- Pediatric Oncologic Musculoskeletal Faculty specialist at the Gregorio Marañón General University Hospital. Madrid

Dr Vara Patudo, Isabel

- Degree in Medicine from the University of Alcalá
- Specialist in Orthopedic Surgery and Traumatology at the Príncipe de Asturias University Hospital, Alcalá de Henares, Madrid

- Attending Physician of the Orthopedic Surgery and Traumatology Department of the Niño Jesús Pediatric Hospital

Dr Vilalta Vidal, Imma

- Assistant at the Orthopedic Surgery and Traumatology Department of the Sant Joan de Déu hospital. Esplugues de LLobregat. Barcelona
- Attending Physician at the Orthopedic Surgery and Traumatology Department of the Sant Joan de Déu Hospital in Barcelona
- Degree in Medicine and Surgery from the Autonomous University of Barcelona (UAB)
- Specialist in Orthopedic Surgery and Traumatology

Dr. Villa García, Ángel José

- Degree in Medicine and Surgery from the University of Salamanca.
- Medical specialist in Traumatology and Orthopedic Surgery. Gregorio Marañón General University Hospital. Madrid
- Head of the Department of Traumatology and Pediatric Orthopedics at the Gregorio Marañón General University Hospital. Madrid
- Coordinator of the Pediatric Hip and Pedaitric Musculoskeletal Oncology Department of the Gregorio Marañón General University Hospital. Madrid

Dr Yáguez Hernández, Marta

- Degree in Medicine and Surgery from the Autonomous University of Madrid
- MIR in Orthopedic Surgery and Traumatology in Majadahonda (Madrid)

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.

From module 1, students will see their knowledge broadened, which will enable them to develop professionally, knowing that they can count on the support of a team of experts.

This Postgraduate Diploma contains the most complete and up-to-date scientific program on the market"

Module 1. Orthopedic Alterations Associated with Neuromuscular Disease.

1.1. Pediatric Cerebral Palsy
1.2. Normal and Pathological Gait. Usefulness of the LAM in Gait Alterations
1.3. Orthopedic Management of PCI: Botulinum Toxin, Casts, Orthoses
1.4. Hip Pathology in PCI
1.5. Crouch Gait in PCI
1.6. Myelomeningocele
1.7. Spinal Muscular Atrophy
1.8. Muscular Dystrophies: Duchenne's Disease, Other Myopathies
1.9. Neurological Upper Limb: Spasticity
1.10. Foot Associated With Neurological Pathologies (Clubfoot...)

Module 2. Skeletal Dysplasias and Syndromic Diseases

2.1. Achondroplasia. Hypoachondroplasia and Pseudoachondroplasia
2.2. Congenital Malformations of the Lower Limb
2.3. Other Dysplasias: Spondyloepiphyseal Dysplasia, Multiple Epiphyseal Dysplasia, Diastrophic Dysplasia, Kniest Dysplasia, Osteopetrosis, Infantile Cortical Hyperostosis, Cleidocranial Dysostosis
2.4. Mucopolysaccharidosis
2.5. Osteogenesis Imperfecta
2.6. Hyperlaxity Syndromes
  2.6.1. General Hyperlaxity Syndrome
  2.6.2. Marfan and Ehlers Danlos Syndromes
2.7. Neurofibromatosis. Congenital Pseudoarthrosis of the Tibia
2.8. Arthrogryposis
2.9. Down Syndrome
2.10. Children's Bone Alterations
  2.10.1. Rickets
  2.10.2. Transient Osteoporosis

Module 3. Osteoarticular Infections

3.1. Septic Arthritis.
3.2. Osteomyelitis
3.3. Discitis and Vertebral Osteomyelitis
3.4. Orthopedic Pathology in Rheumatoid Arthritis
3.5. Other Arthropathies: Psoriatic Arthritis Reiter's Syndrome, Psoriatic Arthritis.
3.6. Chronic Recurrent Multifocal Osteomyelitis. CRMO

This will provide key training to advance your career."

05

Methodology

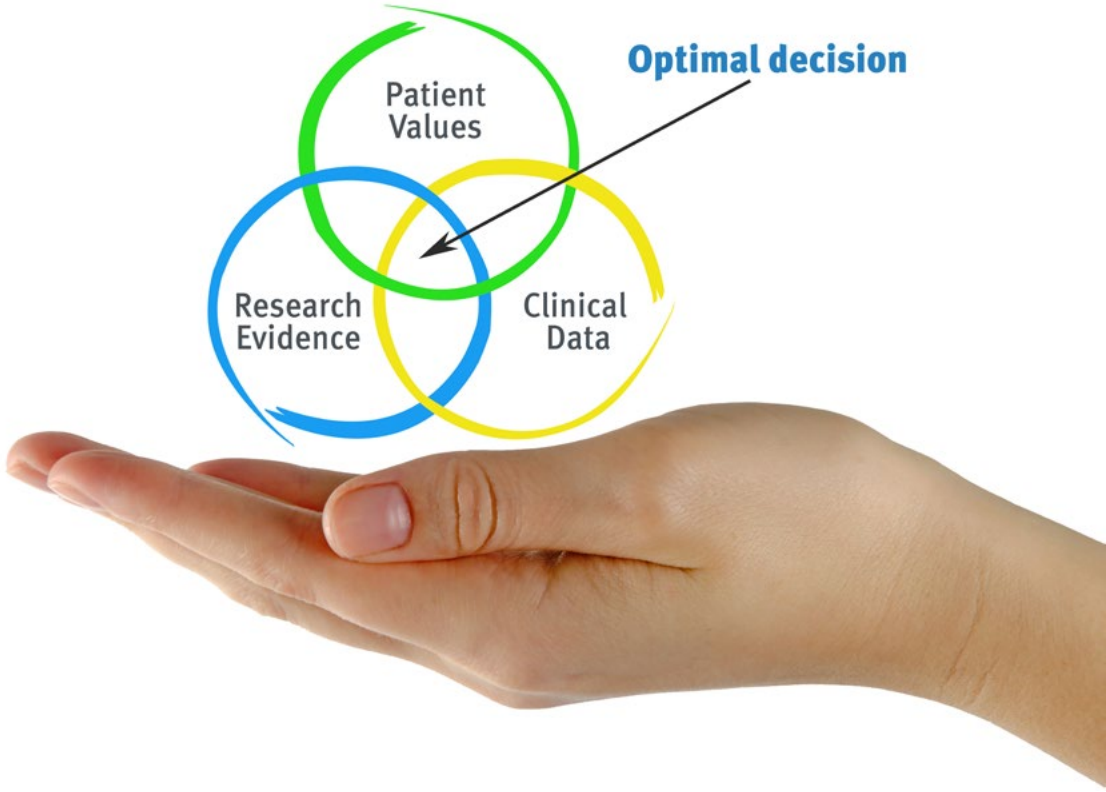
This academic program offers students a different learning methodology. Our methodology uses a cyclical learning approach: ***Relearning***.
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the ***New England Journal of Medicine*** which consider 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. Physiotherapists/kinesiologists 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 of professional physiotherapy 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:

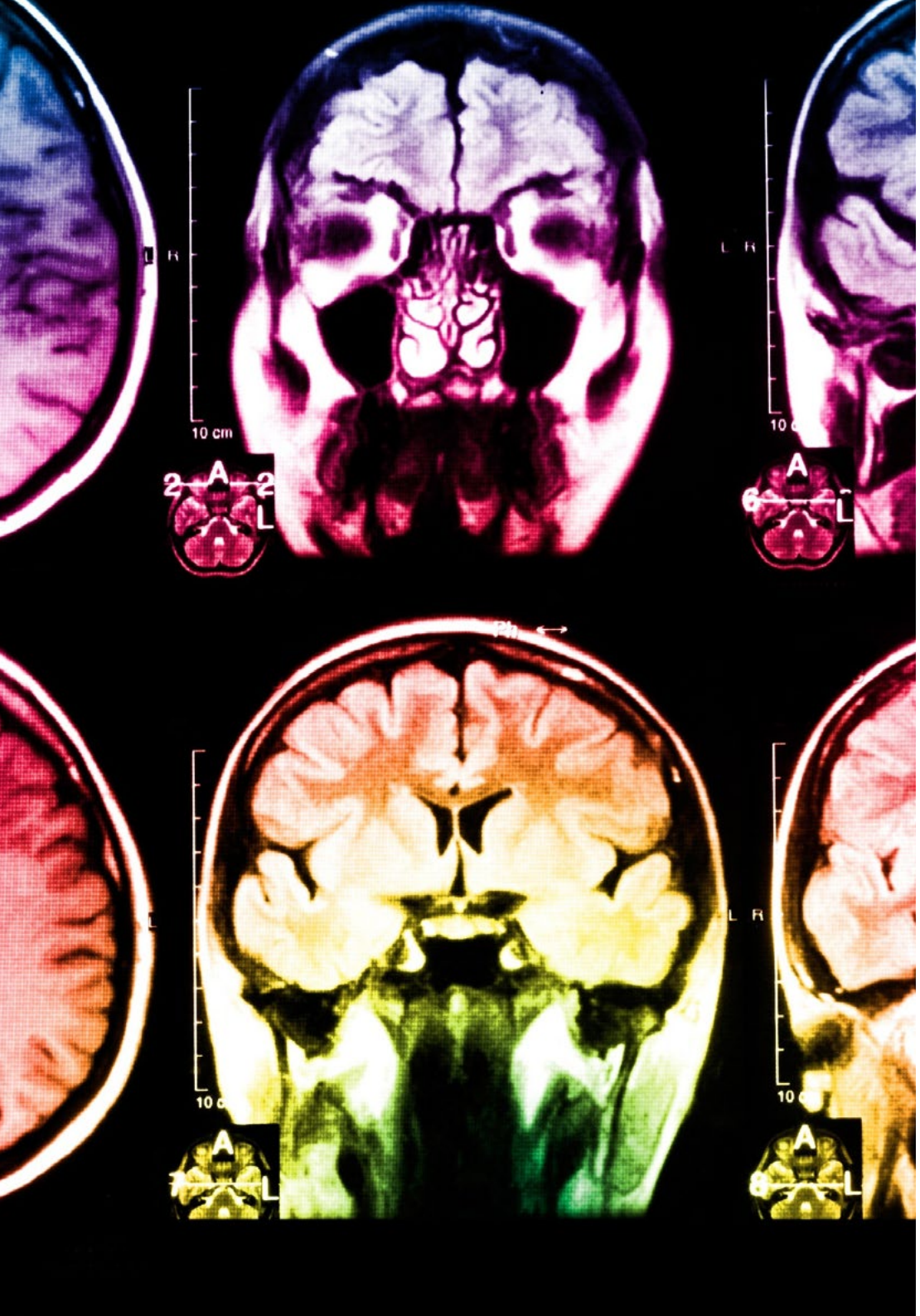
1. Physiotherapists/kinesiologists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the physiotherapist/kinesiologist to better integrate 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.

The physiotherapist/kinesiologist will learn through real cases and by solving 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 we trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical specialties, regardless of the workload. 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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 our 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 really 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.

Physiotherapy Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, students can watch them as many times as they want.

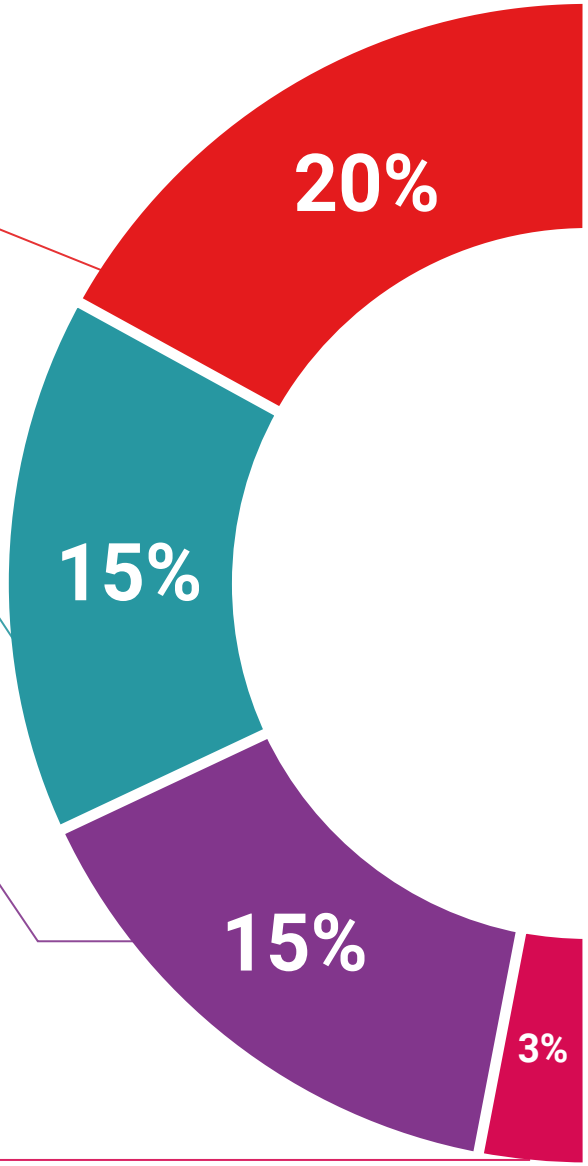
Interactive Summaries

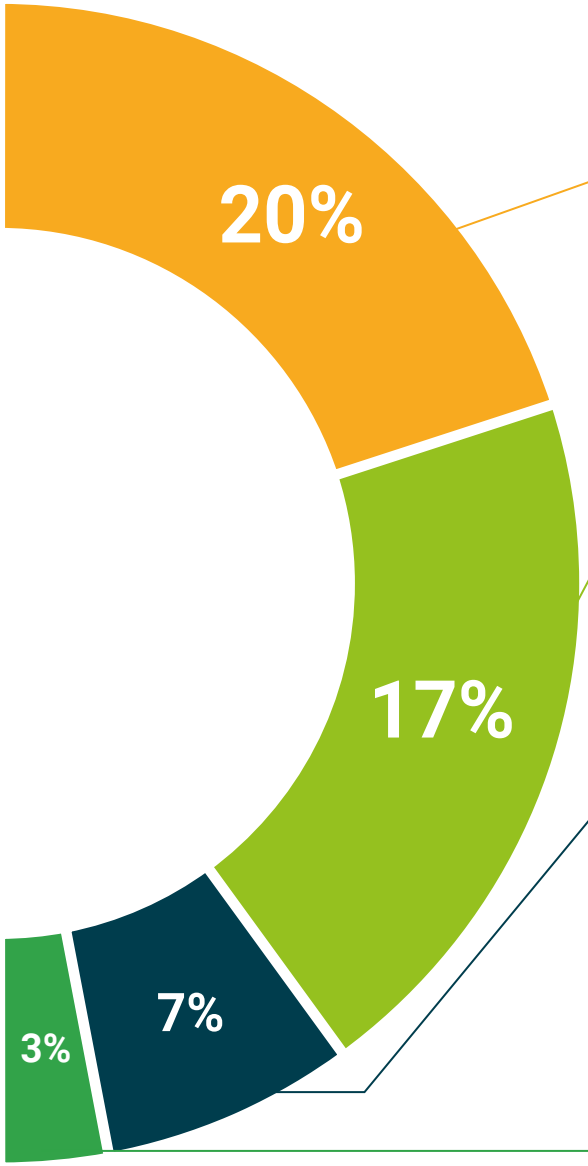
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 suggesting that observing third-party experts can be useful. 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 Diploma in Skeletal Dysplasias and Infections in Pediatric Orthopedics 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"

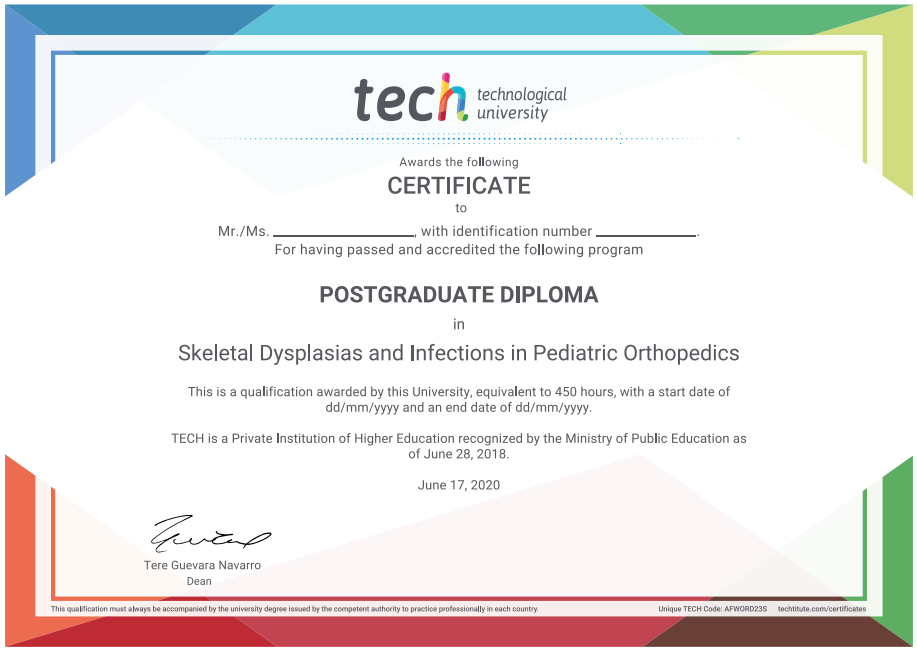
This **Postgraduate Diploma in Skeletal Dysplasias and Infections in Pediatric Orthopedics** contains the scientific most complete and up-to-date scientific program on the market.

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

The certificate 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 Diploma in Skeletal Dysplasias and Infections in Pediatric Orthopedics**

Official Nº of Hours: **450 hours.**


tech technological university

Awards the following

CERTIFICATE

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE DIPLOMA

in

Skeletal Dysplasias and Infections in Pediatric Orthopedics

This is a qualification awarded by this University, equivalent to 450 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

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

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Postgraduate Diploma

Skeletal Dysplasias and Infections in Pediatric Orthopedics

Course Modality: **Online**

Duration: **6 months.**

Certificate: **TECH Technological University**

Teaching Hours: **450 hours.**

Postgraduate Diploma

Skeletal Dysplasias and Infections in Pediatric Orthopedics

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