

Postgraduate Diploma Pediatric Upper Limb and Spine Orthopedics

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Postgraduate Diploma Pediatric Upper Limb and Spine Orthopedics

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/physiotherapy/postgraduate-diploma/postgraduate-diploma-pediatric-upper-limb-spine-orthopedics

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01

Introduction

This program is designed to provide all the theoretical and practical knowledge in Pediatric Upper Limb and Spine Orthopedics, presented through high quality multimedia content, analysis of clinical cases prepared by experts, master classes and video techniques that allow the exchange of knowledge and experience, maintain and update the specialized level of its members, create protocols for action and disseminate the most important developments in the specialty. A unique opportunity for the physiotherapist to incorporate the latest physiotherapeutic techniques and innovations in the treatment or improvement of physical pathologies of the upper limbs and spine of the child.





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Physiotherapists at the highest level must update their knowledge with training courses such as this one, where they will find the main novelties in the field"

The field of physical therapy 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, the Postgraduate Diploma focuses on building the skills needed by the professional to specialize in this field, learning to both address some of the most common pathologies in childhood and the adaptability of the different techniques and treatments in the field of Pediatric Orthopedics.

This Postgraduate Diploma includes the specific education that will provide the Pediatric Rehabilitation professional (regardless of their basic specialization) with the necessary confidence to offer the patient the most appropriate physiotherapeutic solution.

This program addresses the different pathologies that occur due to poor differentiation of the musculoskeletal tissue. Bone dysplasias are primary or intrinsic anomalies in the development of the human skeleton, generally of genetic basis. The main pathologies that form the heterogeneous group of bone dysplasias will be developed, as well as their most current classifications.

The student will learn to differentiate bone dysplasias from congenital malformations, since in most of the latter cases, there is a primary intrauterine growth inhibition or secondary interruption by intrauterine destruction of normal embryonic tissues. Likewise, the student will develop the competences to be able to make a deep and early diagnosis and to guide the treatment in an adequate way in the main musculoskeletal injuries that appear in children. To achieve this, they will review the main bone and soft tissue injuries in children, focusing on their diagnosis and physiotherapeutic treatment.

The syllabus of this complete program covers the main current units in Pediatric Orthopedics, so that whoever masters them will be prepared to work in this field in any hospital in the world.

With this online training, 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 Pediatric Upper Limb and Spine Orthopedics** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development 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



You will specialize in the hands of professionals with extensive experience in Pediatric Orthopedics, who will guide you throughout the learning process"

“*To become one of the best physiotherapists specialized in Pediatric Orthopedics, you cannot miss the opportunity to study this program with us”*

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.

Its multimedia content, developed with the latest educational technology, will allow physiotherapists situated and contextual learning, i.e. a simulated environment that will provide immersive training programmed to train for 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, the physical therapist specialized in Pediatric Orthopedics will have the help of an innovative interactive video system made by recognized experts in the field of Pediatric Orthopedics and with great experience.

Physiotherapists at the highest level must update their knowledge with training courses such as this one, where they will find the main novelties in the field.

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



02 Objectives

The Pediatric Upper Limb and Spine Orthopedics program is designed to facilitate the professional's performance at the highest academic level, with this intensive education that features the latest advances and most innovative treatments in the field. A unique opportunity for the physiotherapy professional who wants to specialize and stand out in a sector with a high demand for professionals.





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To become one of the best professionals specialized in Children's Orthopedics you cannot miss the opportunity to study this Postgraduate Diploma with us"



General Objectives

- Become familiar with the management of the different congenital and/or acquired alterations affecting the upper limb of growing patients
- Delve into the complementary studies that help us diagnose and make decisions, as well as the appropriate moment to perform them
- Manage therapeutic options, as well as the treatment schedule
- Apply the different surgical techniques used to treat the various pathologies
- Become familiar with the pathology, clinical presentation and management of the most common benign and malignant tumors of the upper extremity affecting children
- Describe the main aspects of spinal pathology in pediatric patients
- Review advances and update knowledge on the management of spinal pathologies in pediatric patients
- Develop the necessary skills to appropriately diagnose and treat pediatric patients with spinal diseases
- Learn how to make a comprehensive and early diagnosis, and guide the treatment of the main musculoskeletal injuries that appear in children





Specific Objectives

Module 1. Upper Limb

- ♦ Delve into the knowledge of the origin and embryology of the different congenital malformations
- ♦ Become familiar with the different congenital malformations, studying the etiopathogenesis, clinical study, complementary studies, classifications and treatments of each pathology

Module 2. Spine

- ♦ Learn the characteristics of the different pathologies around the spine in pediatric patients
- ♦ Learn the most frequent causes of spine deformity
- ♦ Manage the urgency of pediatric patients with spinal pathology, torticollis, atlantoaxial instability
- ♦ Long-term management of patients diagnosed with spinal deformity in infancy.
- ♦ Long-term management of patients diagnosed with tumors / fractures during infancy
- ♦ Suspect and learn the management of tumors such as osteoid osteoma, aneurysmal bone cyst, etc
- ♦ Perform the necessary tests to diagnose the different entities

Module 3. Tumours

- ♦ Appropriately guide the diagnostic study of this lesion, and if a musculoskeletal biopsy is necessary, learn how to perform it
- ♦ Learn the latest treatments for the main musculoskeletal injuries in children



You will have innovative and the most up to date educational content, designed by experienced professionals in the sector"

03

Course Management

The program includes in its teaching staff renowned experts in Pediatric Orthopedics, who contribute their work experience to this training. 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

- 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 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
- 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. 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 Egea Gámez, Rosa María

- ♦ Attending Physician of the Orthopedics and Traumatology Department of the 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 of the 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 Alves, Cristina

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

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. 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 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. 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. 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. Chorbadjian Alonso, Gonzalo Andrés

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

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. 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. 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. Fernádes 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

Dr. García Fontecha, César Galo

- ♦ 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

Dr. González Díaz, Rafael

- ♦ 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

Dr. González Morán, Gaspar

- ♦ 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

Dr. González-Herranz, Pedro

- ♦ 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

Dr Martínez González, Carmen

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

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. 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 Pediatric Musculoskeletal Oncology Department of the Gregorio Marañón General University Hospital. Madrid

Dr Mediavilla Santos, Lydia

- ♦ 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 Surgery (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. 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 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

TECH provides students with the most innovative and up to date content on the market. 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 Diploma contains the most complete and up-to-date scientific program on the market”

Module 1. Upper Limb

- 1.1. Agenesis and Transverse Defects
- 1.2. Radial Longitudinal Deficiency. Hypoplasias and Agenesis of the Thumb
- 1.3. Ulnar Longitudinal Deficiency. Proximal Radioulnar Synostosis
- 1.4. Pre-axial and Post-axial Polydactyly
- 1.5. Syndactyly. Macrodactyly. Clinodactyly. Camptodactyly. Kirner's Deformity
- 1.6. Amniotic Band Syndrome
- 1.7. Madelung's Deformity
- 1.8. Arthrogryposis
- 1.9. Obstetric Brachial Palsy
- 1.10. Tumors Affecting the Pediatric Hand: Osteochondromatosis, Enchondromatosis and Soft Tissue Tumors

Module 2. Spine

- 2.1. Surgical Anatomy and Approaches to the Spine
- 2.2. Cervical Spine Pathology
 - 2.2.1. Congenital Torticollis
 - 2.2.1.1. Muscular Congenital Torticollis
 - 2.2.1.2. Kippel-Feil Syndrome
 - 2.2.2. Acquired Torticollis
 - 2.2.2.1. Atlantoaxial Dislocation
 - 2.2.2.2. Other Causes: Inflammatory, Infectious, Sandifer's Syndrome
 - 2.2.3. Cervical Instability: Os Odontoideo
- 2.3. Spine Pathology
 - 2.3.1. Spondylolisthesis
 - 2.3.2. Juvenile Herniated Disc
 - 2.3.3. Scoliosis
 - 2.3.4. Early Onset
 - 2.3.5. Teenage Idiopathic Scoliosis
 - 2.3.6. Congenital Scoliosis
 - 2.3.7. Neuromuscular Scoliosis
 - 2.3.8. Early Onset Scoliosis
 - 2.3.9. Congenital Scoliosis
 - 2.3.10. Neuromuscular Scoliosis
 - 2.3.11. Spine Deformity in Other Syndromes

- 2.4. Spondylolisthesis
- 2.5. Alterations in the Sagittal Plane: Hyperkyphosis, Hyperlordosis
- 2.6. Back Pain in the Pediatric Age
- 2.7. Spinal Tumors
- 2.8. The Main Spine Fractures in Children

Module 3. Tumours

- 3.1. Overview and Staging of Musculoskeletal Tumors
 - 3.1.1. Epidemiology
 - 3.1.2. Clinical Presentation
 - 3.1.3. Imaging Tests
 - 3.1.4. Staging.
 - 3.1.4.1. Benign Tumors
 - 3.1.4.2. Malignant tumours
- 3.2. Biopsy and Treatment Principles
 - 3.2.1. Types of Biopsy
 - 3.2.2. How to Perform a Musculoskeletal Biopsy
 - 3.2.3. Types and Principles of Oncologic Resection
- 3.3. Cystic Lesions
 - 3.3.1. Simple Bone Cyst
 - 3.3.2. Aneurysmal Bone Cyst
- 3.4. Benign Tumors from Cartilage in Children
 - 3.4.1. Osteochondroma. Osteochondromatosis
 - 3.4.2. Enchondroma. Endochromatosis
 - 3.4.3. Chondroblastoma
 - 3.4.4. Chondromyxoid Fibroma
- 3.5. Benign Tumors from Bones in Children
 - 3.5.1. Osteoma Osteoid
 - 3.5.2. Osteoblastoma
- 3.6. Benign Tumors from Fibrous Tissue in Children
 - 3.6.1. Non-Ossifying Fibroma
 - 3.6.2. Fibrous Dysplasia
 - 3.6.3. Osteofibrous Dysplasia
 - 3.6.4. Langerhans Cell Histiocytosis



- 3.7. Other Tumours. Miscellaneous
 - 3.7.1. Langerhans Cell Histiocytosis. Eosinophilic Granuloma
 - 3.7.2. Giant Cell Tumor
- 3.8. Benign Tumors From Soft Tissue in Children
 - 3.8.1. Ganglion. Popliteal Cysts
 - 3.8.2. Giant cell tumour of the Tendon Sheath. Villonodular Synovitis
 - 3.8.3. Hemangioma
- 3.9. Malignant Bone Tumors of the Pediatric Skeleton
 - 3.9.1. Ewing Sarcoma
 - 3.9.2. Osteosarcomas
 - 3.9.3. Surgical Treatment Options for Unformed Skeletons
- 3.10. Malignant Tumors in Soft Tissue in Children
 - 3.10.1. Rhabdomyosarcoma
 - 3.10.2. Synovial Sarcoma
 - 3.10.3. Congenital Fibrosarcoma

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*This will provide 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.





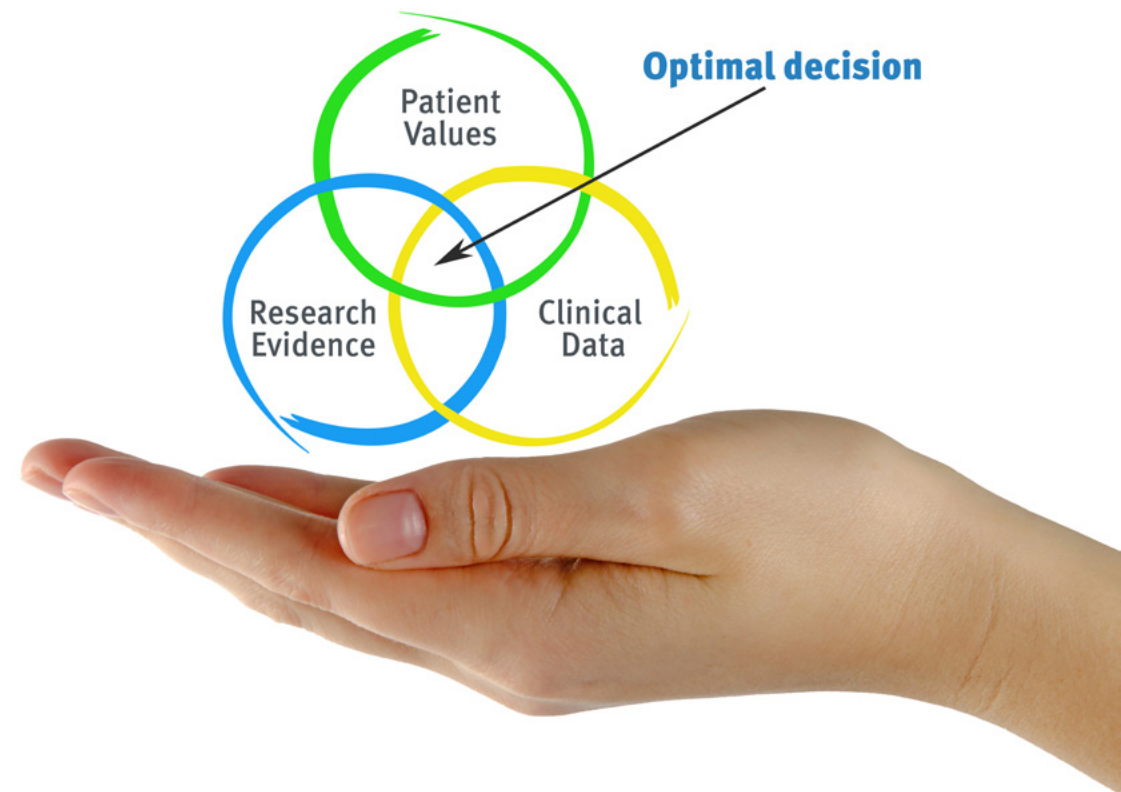
“

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. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions of professional physiotherapy 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. 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

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.



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 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.



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, you can watch them as many times as you 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.

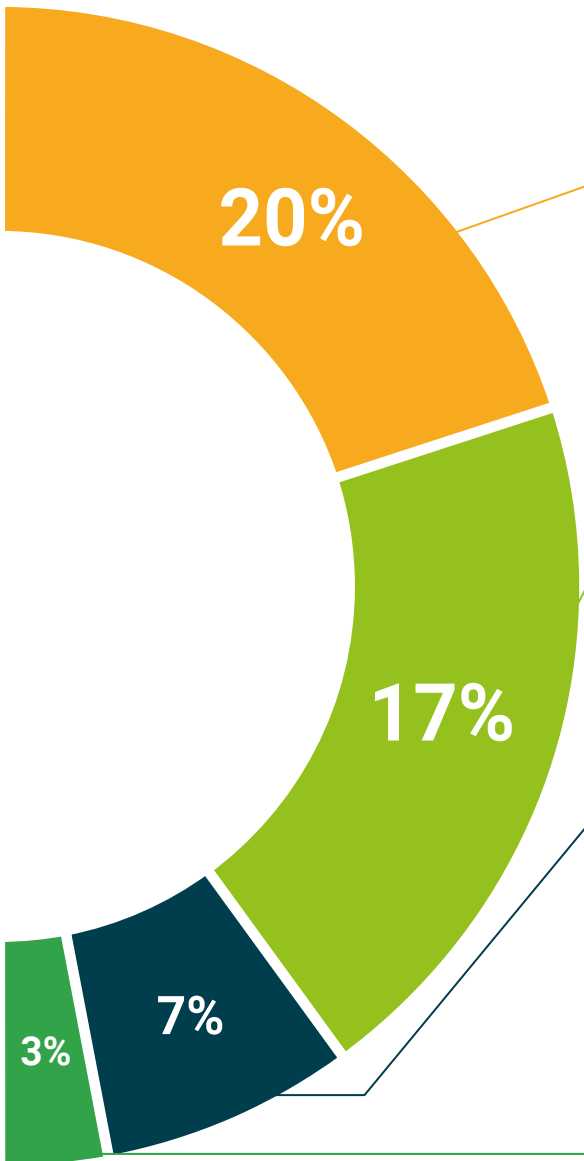
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



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 Diploma in Pediatric Upper Limb and Spine Orthopedics guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.



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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 Diploma in Pediatric Upper Limb and Spine Orthopedics** 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 Diploma in Pediatric Upper Limb and Spine Orthopedics**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



*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.

future

confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present quality

online training

development languages

virtual classroom

tech global
university

Postgraduate Diploma
Pediatric Upper Limb
and Spine Orthopedics

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma Pediatric Upper Limb and Spine Orthopedics

Endorsed by the NBA

