

Postgraduate Certificate Orthopedic Alterations Linked to Neuromuscular Diseases





Postgraduate Certificate Orthopedic Alterations Linked to Neuromuscular Diseases

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Teaching Hours: **150 hours.**

Website: www.techtute.com/in/medicine/postgraduate-certificate/orthopedic-alterations-linked-neuromuscular-diseases

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01

Introduction

This course is focused on the acquisition of knowledge required for the management of the sequelae of encephalopathy in the locomotor system, and integrates training in the focal and global treatment of spasticity, indication and adjustment of orthoses, and learning new surgical techniques.

The knowledge offered of the most common classifications will allow the development of therapeutic roadmaps and the establishment of functional autonomy prognoses necessary to set realistic goals.



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Professionals must update their knowledge with training 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 training 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.

The knowledge of the pathology of Orthopedic Alterations Linked to Neuromuscular Diseases in adolescents is transcendental for their survival in adulthood. A late diagnosis of an epiphysiolysis of Orthopedic Alterations Linked to Neuromuscular Diseases can lead, for example, to loss of function and require total arthroplasty at an inappropriately early age. That is why this course will teach how to diagnose it early and manage it properly, including complex reduction surgeries.

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 Orthopedic Alterations Linked to Neuromuscular Diseases** contains the 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 training"

“

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 certificate endorsed by: TECH”

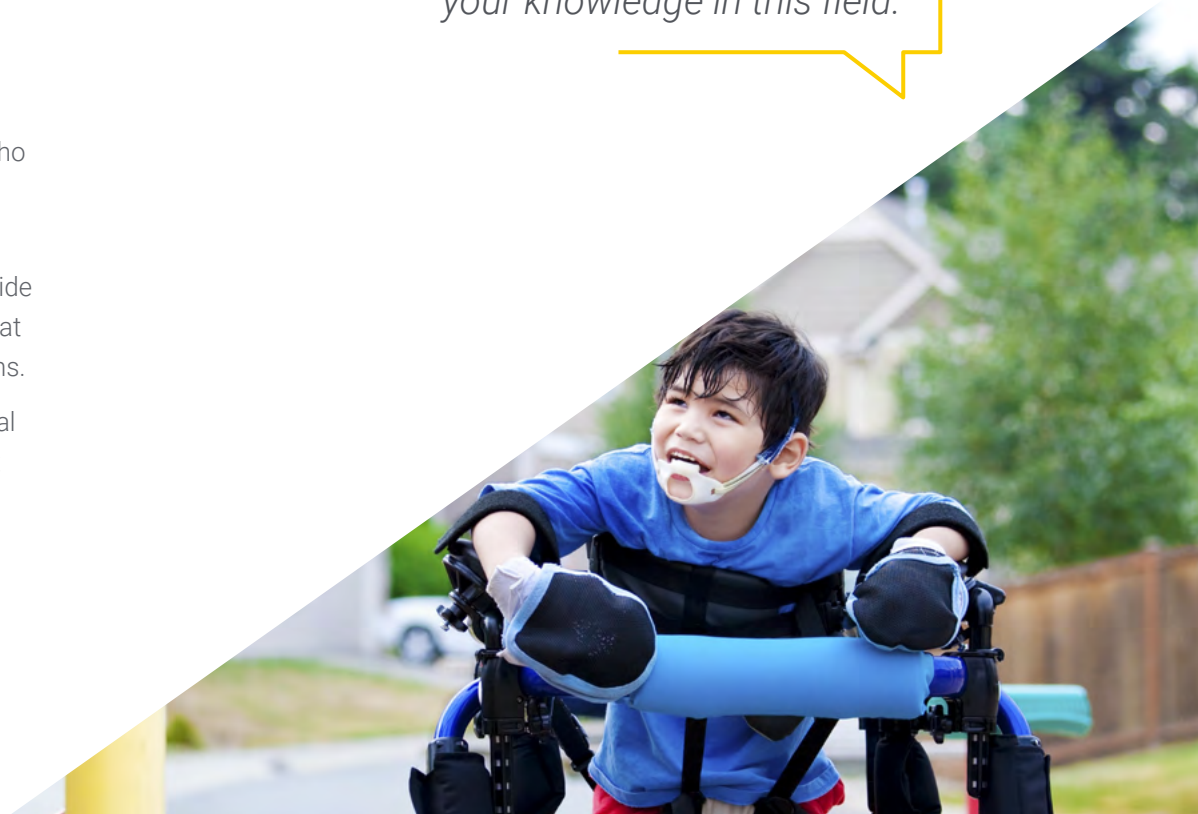
The teaching staff includes professionals from the field of Pediatric Orthopedics, who bring their experience to this training, as well as renowned specialists from leading societies and prestigious universities.

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 training 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 train with the first-hand help of 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 field.



02 Objectives

The Postgraduate Certificate in Orthopedic Alterations Linked to Neuromuscular Diseases 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 Objective

- Learn the treatment by applying physiopathological principles
- Delve into physical examination integrated with three-dimensional movement analysis
- Manage functional and quality of life classifications and scales
- Delve into the application of the lever arm concept in gait disorders
- Learn the principles of conservative and surgical treatment





Specific Objectives

- ◆ Learn available knowledge on the prevention and management of hip dislocation
- ◆ Manage spasticity, locally and globally, as well as other movement disorders
- ◆ 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



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

“

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. 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. 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 Sofía.
- ♦ Coordinator of the Children's Orthopedics Unit of the Hospital Universitario Reina Sofía 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 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

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Dr. Álvaro Alonso, Alberto

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

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- ♦ 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
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- ♦ Resident Intern at the Universidad de Navarra clinic
- ♦ Associate Professor of Orthopedic Surgery and Traumatology. Navarra University

Dr. Espinazo Arce, Olga

- ♦ Head 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
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- ♦ Degree in Medicine and Surgery. University of Seville
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Dr. Fernandes 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
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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

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- ♦ Degree in Medicine and Surgery. University of Castilla-La Mancha
- ♦ Specialist in Orthopedic Surgery and Traumatology. San Carlos Clinical Hospital
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- ♦ Sant Joan de Déu hospital. Orthopedics / COTOrthopedics

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- ♦ 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.

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 Montepíncipe 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

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- ♦ 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. 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
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- ♦ 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. 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

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- ♦ 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

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

Dr. Yáñez 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.



“

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

Module 1. Orthopedic Alterations Linked to Neuromuscular Diseases

- 1.1. Pediatric Cerebral Palsy
- 1.2. Normal and Pathological Gait. Usefulness of the LAN In Gait Disturbances.
- 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...)





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This will provide key training to advance your career.”

06

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. 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.

“

Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method.

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Relearning Methodology

At TECH, we enhance the 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 Orthopedic Alterations Linked to Neuromuscular Diseases guarantees you, in addition to the most rigorous and up-to-date training, 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 laborious paperwork”

This **Postgraduate Certificate in Orthopedic Alterations Linked to Neuromuscular Diseases** 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 Orthopedic Alterations Linked to Neuromuscular Diseases**

Official N° of Hours: **150 hours**.



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



Postgraduate Certificate
Orthopedic Alterations Linked
to Neuromuscular Diseases

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Teaching Hours: 150 hours.

Postgraduate Certificate
Orthopedic Alterations
Linked to Neuromuscular
Diseases

