

Postgraduate Certificate

Assessment of Children with Musculoskeletal Problems





Postgraduate Certificate Assessment of Children with Musculoskeletal Problems

- » Modality: online
- » Duration: 10 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/in/medicine/postgraduate-certificate/assessment-children-musculoskeletal-problems

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01

Introduction

This program will assess musculoskeletal problems in pediatrics together with the medical elite. Musculoskeletal diseases can cause pain and sometimes of an intensity that interferes with the daily life of younger patients. A situation that is an intense source of anxiety in the family environment and requires a very specific intervention from the professional that takes into account and knows how to manage all these aspects. All this through a correct assessment to diagnose the root of the problem. In this way, the student will acquire the most advanced diagnostic and intervention tools of the current scientific panorama focused on pediatric rheumatology.





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This Postgraduate Certificate in Assessment of Children with Musculoskeletal Problems will give you the keys to adequate care for each patient and the necessary support to their families"

Musculoskeletal problems are a constant concern for parents. There are children with problems of this nature, and it is for this reason that professionals have to update their knowledge in this field.

To this extent, professionals will update their knowledge in the comprehensive care of patients and their families, as a fundamental part of the process, is an essential condition in the approach to this group of diseases.

This Postgraduate Certificate offers a different view at the overall care that children with musculoskeletal problems may have, since it will delve into the patient's well-being and recovery, as well as the different pain and recovery treatments.

This program will also offer a different view of musculoskeletal diseases. An unparalleled opportunity to complete the medical knowledge with a view from the other side.

“*All aspects of the praxis of the Assessment of Children with Musculoskeletal Problems, with a global vision of the care of the affected patient, in the most complete Postgraduate Certificate on the online teaching market*”

This **Postgraduate Certificate in Assessment of Children with Musculoskeletal Problems** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The latest technology in online teaching software
- ♦ A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ♦ Practical cases presented by practising experts
- ♦ State-of-the-art interactive video systems
- ♦ Teaching supported by telepractice
- ♦ Continuous updating and recycling systems
- ♦ Autonomous learning: full compatibility with other occupations
- ♦ Practical exercises for self-evaluation and learning verification
- ♦ Support groups and educational synergies: questions to the expert, debate and knowledge forums
- ♦ Communication with the teacher and individual reflection work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection
- ♦ Supplementary documentation databases are permanently available, even after the program



The teachers of this Postgraduate Certificate have been selected on the basis of two fundamental criteria: their proven experience and knowledge of RD in pediatrics and their proven teaching skills"

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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 education 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 during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

With a methodological design based on proven teaching techniques, this Postgraduate Certificate will take you through different teaching approaches to allow you to learn in a dynamic and effective way.

Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: "learning from an expert"



02 Objectives

The objective of TECH is to prepare highly competent professionals who possess the most up-to-date knowledge and techniques in the medical field focused on the specialty of assessment of musculoskeletal problems in pediatrics. A goal that the student will be able to achieve thanks to this high intensity and precise Postgraduate Certificate and the best teaching methodology. In this way, you will be able to differentiate the other symptoms that indicate an RMD: gait disturbances, hyperlaxity or deformity.





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Learn to distinguish between different types of musculoskeletal problems in children, approach them and refer them if necessary”



General Objectives

- Distinguish between different types of musculoskeletal problems in children, approach them and refer them if necessary
- Treat them from different points of view, medical, psychological or physical, or at least to interpret the suitability of applied treatments
- Discuss whether a treatment was sufficiently effective
- Know which attitudes, treatments and strategies are inappropriate and should be avoided
- Prevent illness and complications
- Recognize basic needs and refer to specialized resources
- Identify social and environmental factors and reflect on the impact they have on the quality of life of patients and their families



Achieve your goals by updating in the latest techniques and medical advances in the field of rheumatology in pediatrics through a highly demanding educational and scientific Postgraduate Certificate"





Specific Objectives

- ◆ Acquire the basic knowledge for the diagnosis of RMDs
- ◆ Discern the initial attitudes and actions to initiate in the diagnosis of RMD
- ◆ Learn how to rule out specific diseases
- ◆ Learn the usefulness of the different tests
- ◆ Know which procedures or attitudes to discard and why
- ◆ Recognize pain in children or adolescents with RMD as the most frequent problem
- ◆ Identify the manifestations of pain in the patient
- ◆ Recognize the consequences of the patient's pain in the family environment
- ◆ Distinguish the most common and the rarest causes of pain in the different body regions of the musculoskeletal system
- ◆ Identify inappropriate initial management
- ◆ Diagnose arthritis in childhood
- ◆ Determine arthritis versus ruling out other pathologies
- ◆ Apply the differential diagnosis in the suspicion of arthritis in its different forms of onset
- ◆ Outline the etiological treatment
- ◆ Recognize other musculoskeletal symptoms

03

Course Management

In its commitment to offer an elite education for all, TECH counts on renowned professionals so that the student acquires a solid knowledge in the field of musculoskeletal problems in pediatrics. Therefore, the program is composed of different professionals in rheumatology whose experience and skills will guide the student towards excellence during their learning. This is a unique opportunity to learn from the best, TECH's guarantee of quality..



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The best teaching staff for the best student. Studying with TECH will make a difference"

Management



Dr. Carmona, Loreto

- ♦ Rheumatologist and epidemiologist (LIRE). Medical Director InMusc
- ♦ PhD in Epidemiology and Preventive Medicine from the Autonomous University of Madrid
- ♦ University Research Professor at Camilo José Cela University



Dr. De La Torre Hervera, Elisenda

- ♦ Member of the Spanish Rheumatologic League
- ♦ Postgraduate in Patient Advocacy, UIC (International University of Catalonia), Barcelona, Spain
- ♦ Technical Engineering in Computer Management, (Polytechnic University of Mataró (UPC), Barcelona)
- ♦ Patients' Consultative Council of Catalonia (CCPC)
- ♦ CCPC Technical Communication Council
- ♦ Member of the executive board of administration of the healthcare quality agency (AQuAS)
- ♦ Member of the Pharmacotherapeutic Commission (CFT-SISCAT)



Dr. Clemente Garulo, Daniel

- ♦ Assistant Pediatric Physician at the Niño Jesús University Hospital, performing his healthcare activity in the Pediatric Rheumatology Unit
- ♦ Active member of the Spanish Society of Rheumatology (SER) and the Spanish Society of Pediatric Rheumatology (SERPE), participating in numerous studies and multicenter collaborative research projects promoted by different working groups of both societies
- ♦ Secretary of the ERNA-SER working group ("Rheumatologic diseases of childhood and adolescence")
- ♦ Professor at the Faculty of Health Sciences of the Lasalle Center for Higher University Studies
- ♦ Degree in Medicine and Surgery from the Faculty of Medicine of the Universidad de Alcalá
- ♦ Specialist in Rheumatology, after completing his MIR training at San Carlos Clinical University in Madrid (2002-2006) and in Pediatrics and specific areas, after completing his MIR training at the Infant University Hospital Niño Jesús
- ♦ PhD in Health Sciences from the Universidad Camilo José Cela

Professors

Dr. Graña, Jenaro

- ♦ Pediatric Rheumatologist

Dr. Bartolomé, Jon

- ♦ Patient Representative (LIRE-young)
- ♦ Member of the Board of Directors Responsible for LIRE-Joven

Dr. Nieto, Juan Carlos

- ♦ Pediatric Rheumatologist

Dr. Emperiale, Valentina

- ♦ Rheumatology Service at the Príncipe de Asturias University Hospital
- ♦ Physician-Surgeon, Pontificia Catholic University in Chile.

Dr. Lerma, Sergio

- ♦ Professor and Researcher at La Salle University Center
- ♦ Dean of the Faculty of Health Sciences. La Salle Higher Center for University Studies. UAM
- ♦ Researcher in the Biomedical Research Foundation of the Niño Jesús Children's University Hospital
- ♦ Certificate in Physiotherapy
- ♦ PhD in Physiotherapy

Dr. Diago Ortega, Rocío

- ♦ Dietitian-nutritionist and Health Sciences Director

Dr. Prada Ojeda, Alejandro

- ♦ Rheumatologist Torrejón de Ardoz University Hospital (Madrid)

Dr. Gómez, Alejandro

- ♦ Attending Rheumatology Physician. Infanta Sofía University Hospital

Ms. Boteanu, Alina

- ♦ Pediatric Rheumatologist Ramón y Cajal Hospital, Madrid

Ms. Ramírez, Ana

- ♦ Pediatric Traumatologist Orthopedic surgery and traumatology unit

Ms. Vázquez, Ana

- ♦ Occupational and Speech Therapist (LIRE)

Dr. Magallares López, Berta

- ♦ Specialist in Rheumatology. Hospital Santa Creu i Sant Pau Associate Professor

Ms. Galindo, Rocío

- ♦ Coordinator of the Pediatric Osteoporosis and Osteogenesis Imperfecta group

Dr. Enríquez Merayo, Eugenia

- ♦ Pediatric rheumatologist Infanta Leonor University Hospital, Madrid

Dr. Benavent, Diego

- ♦ Rheumatology Unit at Hospital La Paz

Dr. Calvo Aranda, Enrique

- ♦ Rheumatology Unit Infanta Leonor University Hospital

Ms. Núñez, Esmeralda

- ♦ Pediatric rheumatologist. Coordinator of the group of Prevention and Treatment of Infections in Pediatric Rheumatology of SERPE and member of the Spanish Society of Pediatric Infectious Diseases (SEIP)

Ms. Sánchez Manubens, Judith

- ♦ Head of Pediatric Rheumatology Unit- Parc TaulíSabadell University Hospital

Dr. Martín Pedraz, Laura

- ♦ Pediatric rheumatologist. UGC Pediatrics, Regional University Hospital of Malaga, Malaga, Spain

Dr. León, Leticia

- ♦ Doctor of Psychology. IdISSC Rheumatology. San Carlos Clinical Hospital, Madrid

Ms. Fernández Caamaño, Lucía

- ♦ Occupational Therapist

Dr. Salar Ibáñez, Luis

- ♦ Physician specializing in Rheumatology at the Torrejón Hospital.
- ♦ Coordinator of the Pediatric Rheumatology Unit at Hospital San Rafael



Dr. Redondo, Marta

- ◆ Psychologist. Camilo José Cela University

Dr. Greco, Martín

- ◆ Rheumatologist

Dr. Fernández Berrizbeitia, Olaia

- ◆ Rheumatologist Associate Professor

Dr. Diaz Valle, David

- ◆ Head of the Ophthalmology Department. San Carlos Clinical Hospital

Dr. Rodríguez Palero, Serafín

- ◆ Rehabilitation Physician at the Niño Jesús University Hospital
- ◆ Specialty at the 12 de Octubre University Hospital of Madrid
- ◆ University Specialist Course in Childhood Disability at the UCM
- ◆ Specialist in neurological rehabilitation, musculoskeletal pain and pathologies related to language and balance disorders. Speciality 12 de Octubre University Hospital, Madrid

04

Structure and Content

The contents of this program have been developed by the different experts on the course, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field. Structured into one module, the student will approach everything related to the assessment of musculoskeletal problems in pediatrics, distinguishing themselves in a specialty in continuous research.





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A comprehensive teaching program, structured in well-developed teaching units, oriented towards learning that is compatible with your personal and professional life"

Module 1. Attitude Towards Children with Suspected RMD

- 1.1. Medical History
 - 1.1.1. Frequent Reasons for Consultation in Pediatric RMD
 - 1.1.2. Family Background
 - 1.1.3. Personal Background
 - 1.1.4. Key Questions in RMD
 - 1.1.5. Relevant Organs and Apparatus
 - 1.1.6. Growth and Development
- 1.2. Exploration of the Locomotor System in Pediatric Rheumatology
 - 1.2.1. Exploration of Upper Limbs
 - 1.2.2. Exploration of Lower Limbs
 - 1.2.3. Exploration of the Spine
 - 1.2.4. Exploration of Gait
 - 1.2.5. General Examination Adapted to Rheumatology
- 1.3. Complementary Tests
 - 1.3.1. Image
 - 1.3.1.1. Radiography
 - 1.3.1.2. Ultrasound
 - 1.3.1.3. Resonance
 - 1.3.1.4. Others
 - 1.3.2. Laboratory Tests
 - 1.3.2.1. Blood Count:
 - 1.3.2.2. Biochemistry
 - 1.3.2.3. Reactants of the Acute Phase
 - 1.3.2.4. Autoantibodies
 - 1.3.2.5. Serology and Supplementation
 - 1.3.2.6. Microbiology
 - 1.3.2.7. Genetic Studies
 - 1.3.2.8. Biomarkers
 - 1.3.3. Study of Synovial Fluid
 - 1.3.4. Clinical Neurophysiology

Module 2. Musculoskeletal Pain in Children and Adolescents

- 2.1. Pain Assessment
 - 2.1.1. Characteristics of Pain
 - 2.1.2. Measuring Pain
 - 2.1.3. Pain Localization
 - 2.1.3.1. Knee Pain
 - 2.1.3.2. Hip Pain
 - 2.1.3.3. Ankle and Foot Pain
 - 2.1.3.4. Cervical Pain
 - 2.1.3.5. Back Pain
 - 2.1.3.6. Shoulder, Elbow and Wrist Pain
 - 2.1.3.7. Generalized Pain
- 2.2. Musculoskeletal Pain in Children
 - 2.2.1. Expression of Pain
 - 2.2.2. Conduct
 - 2.2.3. The Impact of Pain
 - 2.2.3.1. Social Impact
 - 2.2.3.2. Family

Module 3. Musculoskeletal Alterations

- 3.1. Inflammatory Joint Pathology
 - 3.1.1. Monoarthritis
 - 3.1.1.1. Most Frequent Causes
 - 3.1.1.2. Diagnostic Attitude
 - 3.1.1.3. Therapeutic Approach
 - 3.1.2. Oligoarthritis
 - 3.1.2.1. Most Frequent Causes
 - 3.1.2.2. Diagnostic Attitude
 - 3.1.2.3. Therapeutic Approach



- 3.1.3. Polyarthritis
 - 3.1.3.1. Most Frequent Causes
 - 3.1.3.2. Diagnostic Attitude
 - 3.1.3.3. Therapeutic Approach
- 3.2. Non-Inflammatory Joint Pathology
- 3.3. Bone Pathology
 - 3.3.1. Osteomyelitis
 - 3.3.2. Osteoporosis
 - 3.3.3. Tumours

Module 4. Other Musculoskeletal Symptoms

- 4.1. Gait Disorders
 - 4.1.1. Movement Analysis
 - 4.1.2. Limping
 - 4.1.3. Convergent and Divergent Gait
- 4.2. Hyperlaxity
 - 4.2.1. Frequency (F)
 - 4.2.2. Assessment
 - 4.2.3. Management
- 4.3. Angular and Torsional Deformities in Children
 - 4.3.1. Scoliosis
 - 4.3.2. Contractures and Joint Retraction
 - 4.3.2.1. Infantile Valgus Flatfoot and Forefoot Deformities
 - 4.3.2.2. Clubfoot
 - 4.3.3. Hip Pathology in Growth
 - 4.3.3.1. Hip Dysplasia
 - 4.3.3.2. Perthes' Disease, Epiphysiolysis Capitisfemoris
- 4.4. Limb Length Discrepancy
 - 4.4.1. Frequency (F)
 - 4.4.2. Assessment
 - 4.4.3. Management

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



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

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

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

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



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



Interactive Summaries

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

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06 Certificate

The Postgraduate Certificate in Assessment of Children with Musculoskeletal Problems guarantees students, in addition to the most rigorous AND up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Assessment of Children with Musculoskeletal Problems** 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 certificate 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 Assessment of Children with Musculoskeletal Problems**

Official N° of Hours: **250 h.**



*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.

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



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Postgraduate Certificate

Assessment of Children with Musculoskeletal Problems