Postgraduate Certificate
Pediatric Hip Orthopedics

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Postgraduate Certificate
Pediatric Hip Orthopedics

Course Modality: **Online**
Duration: **6 weeks**
Certificate: **TECH Technological University**
6 ECTS Credits
Teaching Hours: **150 hours.**
Website: www.techtitute.com/medicine/postgraduate-certificate/pediatric-hip-orthopedics

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01

Introduction

This course will delve into the developmental dysplasia of the hip, where you will learn its management (diagnosis, examination and treatment) adjusted to the different ages of the child at the time of diagnosis.

The knowledge of hip exploration is basic and essential in neonatal screenning, so any professional must be updated with the latest news regarding hip pathologies.

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 monographic hospital, with great experience in complex processes of Pediatric Orthopedics, is a unique opportunity today.

Knowledge of hip pathologies in adolescents is transcendental for their survival in adulthood. A late diagnosis of a hip epiphysiolysis 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 Children's 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 Pediatric Hip Orthopedics** is the most comprehensive and up-to-date educational program on the market. The most important features of the program include:

- Practical cases presented by experts in Obesity..
- The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- The latest information on Obesity.
- Practical exercises where the self-assessment process can be carried out to improve learning.
- A special emphasis on innovative methodologies in Obesity.
- 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 choosing a refresher program for two reasons: in addition to updating your knowledge in Pediatric Orthopedics, you will obtain a certificate endorsed by TECH"

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

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

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 during the academic year. 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.

02

Objectives

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

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

General Objectives

- Recognize and manage the major diseases of the hip that affect children
- Manage the examination and diagnosis of hip pathology in children according to their age and the prevalence associated with it
- To review the most important pathologies that occur in pediatric orthopedics, as knowledge of them is the fundamental pillar of this speciality
- To learn about the latest advances in the treatment of these classic pediatric orthopedics diseases

Specific Objectives

- Manage the diagnosis, examination and treatment of hip dysplasia, taking into account the different ages of children
- Delve into hip exploration, which is essential in neonatal screening
- Understand Perthes disease with clear management ideas, differentiating between outdated treatments and new perspectives on the disease
- Make an early diagnosis of adolescent hip pathology, which is crucial for the survival of the hip in adulthood, and learning how to manage it properly, including complex hip reduction surgeries
- Learn to recognize coxa vara and spring hip and assess their clinical implications for receiving proper treatment
- Differentiate fractures and know how and when to treat them, as well as the surgical indications versus conservative treatment of fractures

04

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.

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

Codirectors

Dr. Ramírez Barragán, Ana

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

Dr. Rosa Egea, María

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

Dr. Martínez Álvarez, Sergio

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

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. 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. Castañeda, Pablo

- 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. García Carrión, Alicia

- Degree in Medicine and Surgery. Castilla - La Mancha University.

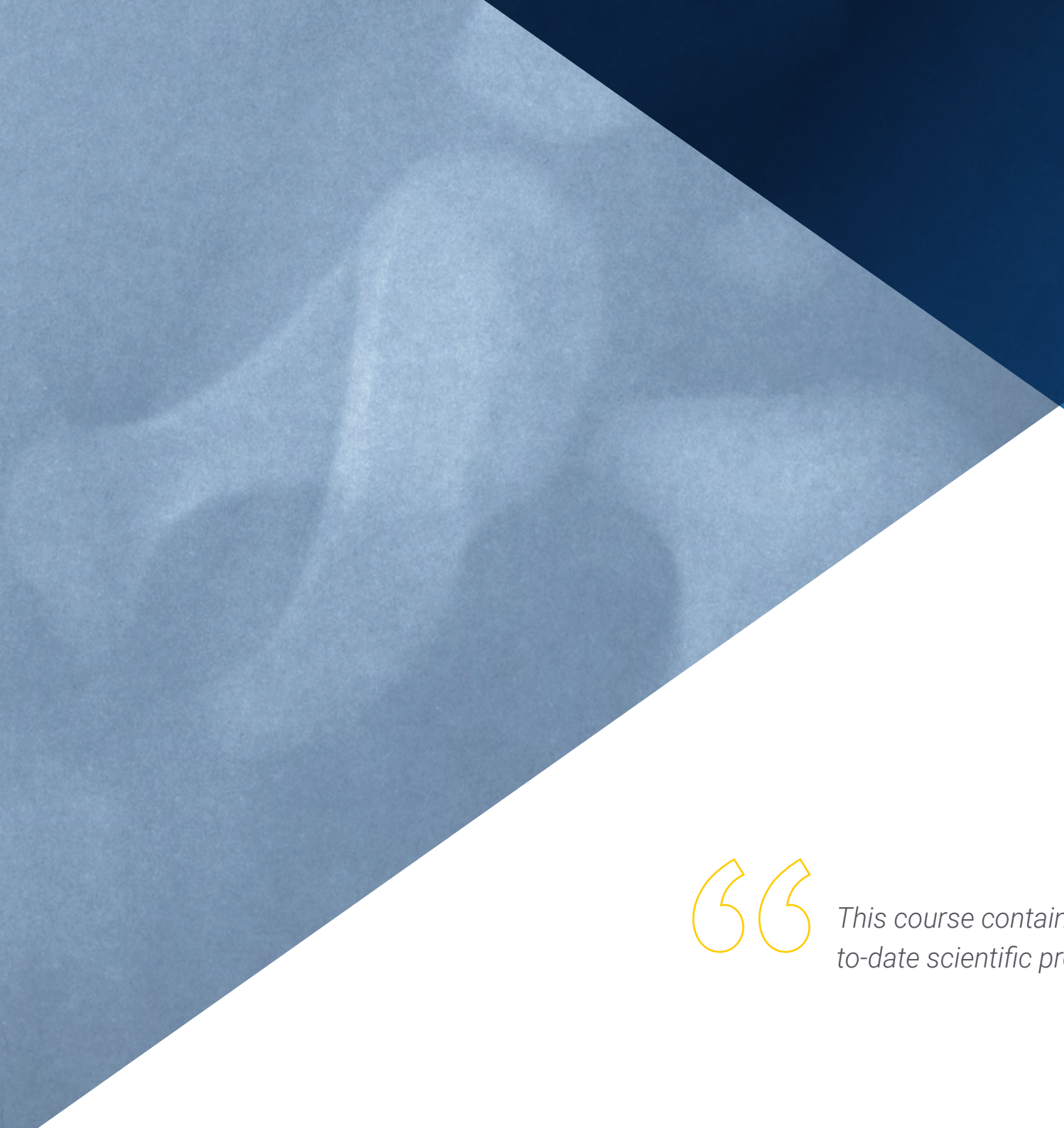
Dr. González Morán, Gaspar

- 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..

05

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. Hip

1.1. Embryology, Anatomy and Biomechanics of the Hip
1.2. Transient Synovitis of the Hip.
  1.2.1. Etiopathogenesis.
  1.2.2. Differential Diagnosis.
  1.2.3. Orthopedic Management
1.3. Developmental Dysplasia of the Hip in Children Under 18 Months of Age
  1.3.1. Concept. Historical Recollection.
  1.3.2. Dysplasia in Children Under 6 Months of Age.
    1.3.2.1. Diagnostic Examination.
    1.3.2.2. Hip Ultrasound. Methods and Interpretation.
    1.3.2.3. Therapeutic Guidance.
  1.3.3. Dysplasia in Children aged 6-12 Months.
    1.3.3.1 Clinical and Radiological Diagnosis.
    1.3.3.2. Treatment.
  1.3.4. Dysplasia in Walking Children (>12 Months)
    1.3.4.1. Late Diagnosis Errors.
    1.3.4.2. Treatment Management.
1.4. Developmental Dysplasia of the Hip in Children Over 18 Months of Age
  1.4.1. Definition and Natural History.
  1.4.2. Etiology and Clinical Manifestations.
  1.4.3. Clinical and Radiological Classification. Hip Risk Factors.
  1.4.4. Differential Diagnosis.
  1.4.5. Treatment.
1.5. Hip Dysplasia in Older Children and Teenagers
  1.5.1. Causes and Types.
  1.5.2. Diagnostic Guidance.
    1.5.2.1. Teenage Hip Dysplasia Radiology.
    1.5.2.2. Complementary Studies of Dysplasia: MRI, MRI Arthrography, CT Scan...
  1.5.3 Treatment:
    1.5.3.1 Arthroscopic Treatment.
    1.5.3.2. Open Surgery.
      1.5.3.2.1. Pelvic Osteotomies. Techniques and Guidelines

1.5.3.2.2. Femoral Osteotomies. Techniques and Guidelines.

1.6. Legg-Calvé-Perthes Disease
- 1.6.1. Perthes After-Effects
- 1.6.2. Syndromic Hip.
- 1.6.3. Chondrolysis.
- 1.6.4. Arthritis After-Effects (Sepsis, Rheumatic Diseases...)

1.7. Epiphysiolysis of the Femoral Head.
- 1.7.1. Diagnosis. Mechanism of Production.
- 1.7.2. Etiopathogenesis.
- 1.7.3. Types of Epiphysiolysis. Pathophysiological Mechanism.
- 1.7.4. Surgical Treatment.
  - 1.7.4.1. In Situ Reduction.
  - 1.7.4.2. Modified Dunn Procedure.
  - 1.7.4.3. Late Treatment.

1.8. Coxa Vara.
- 1.8.1. Etiopathogenesis.
- 1.8.2. Differential Diagnosis
- 1.8.3. Treatment.

1.9. Musculoskeletal Pain Around the Hips in Children
- 1.9.1. Snapping Hip Syndrome.
  - 1.9.1.1. Types of Snapping (Internal, External)
  - 1.9.1.2. Treatment.
- 1.9.2. Enthesitis Around the Hips in Children
  - 1.9.2.1. Enthesitis of the Spines (AIIS, ASIS...), Diferential Diagnosis and Treatment
  - 1.9.2.2. Ischiatic and Iliac Crest Entheritis Diagnosis and Treatment

1.10. Hip Fractures in Children.
- 1.10.1. Biomechanical Implications of the Hip Fractures in Children
- 1.10.2. Types of Fractures. Classification
- 1.10.3. Diagnosis and Treatment. Treatment Management.
  - 1.10.3.1. Children With Open Physes
  - 1.10.3.2. Children With Skeletal Maturity.

05

Methodology

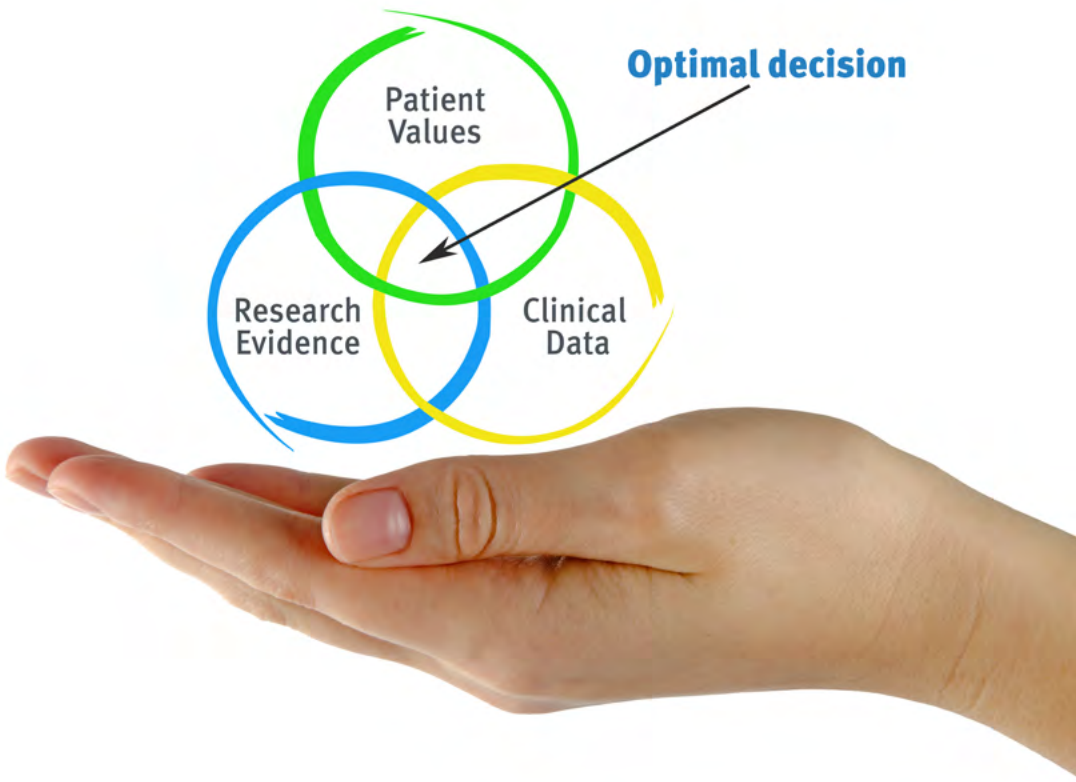
This training program provides you with a different way of learning. Our methodology follows a cyclical learning process***: Re-***learning.
This teaching system is used in the most prestigious medical schools in the world, and major publications have considered it to be one of the most effective, such as the ***New England Journal of Medicine.***

Discover Re-learning, 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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can 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 potential 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 professional medical 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:

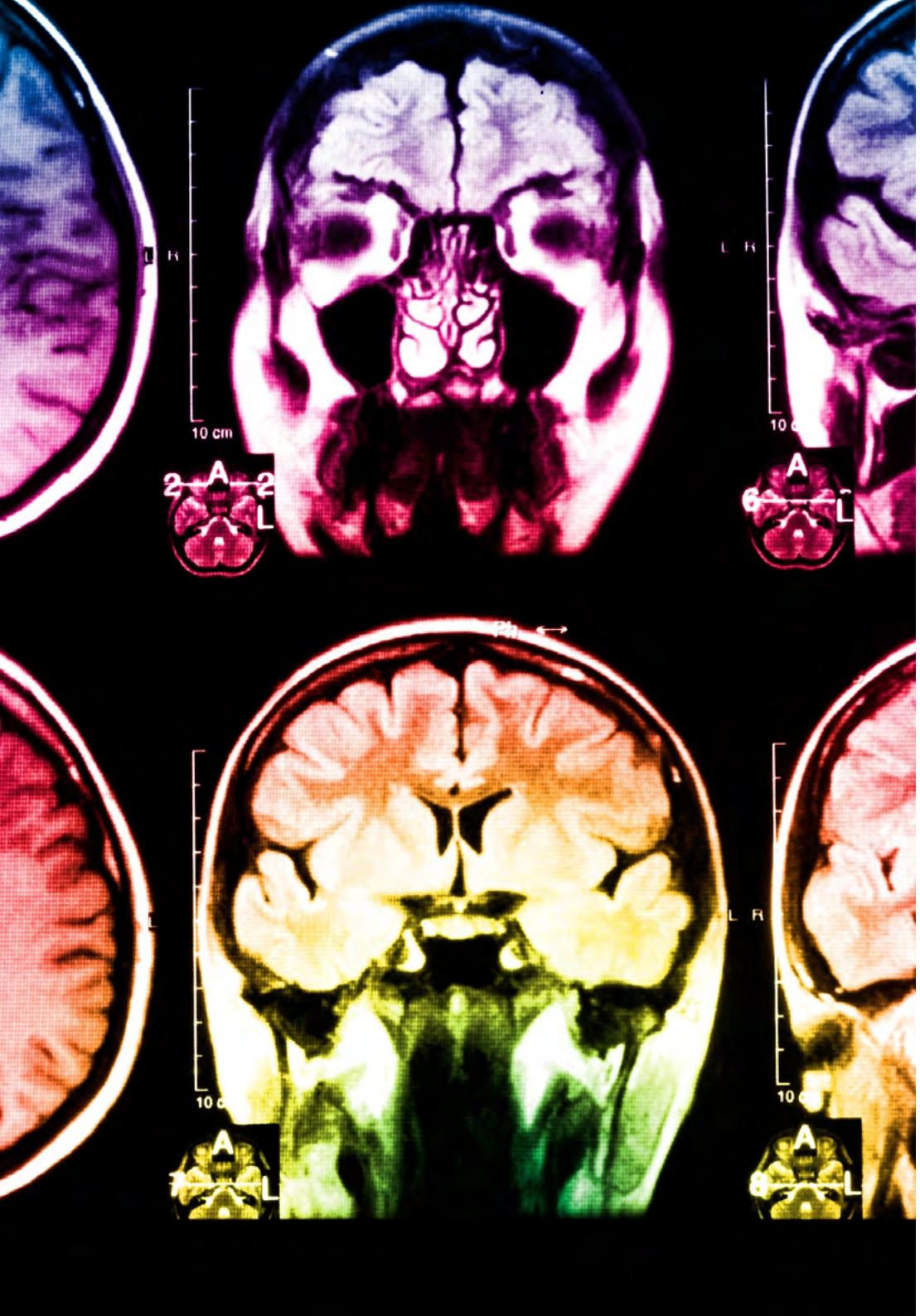
1. Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts 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.

Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.

The physician 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning 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 (we 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.

In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.

Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.

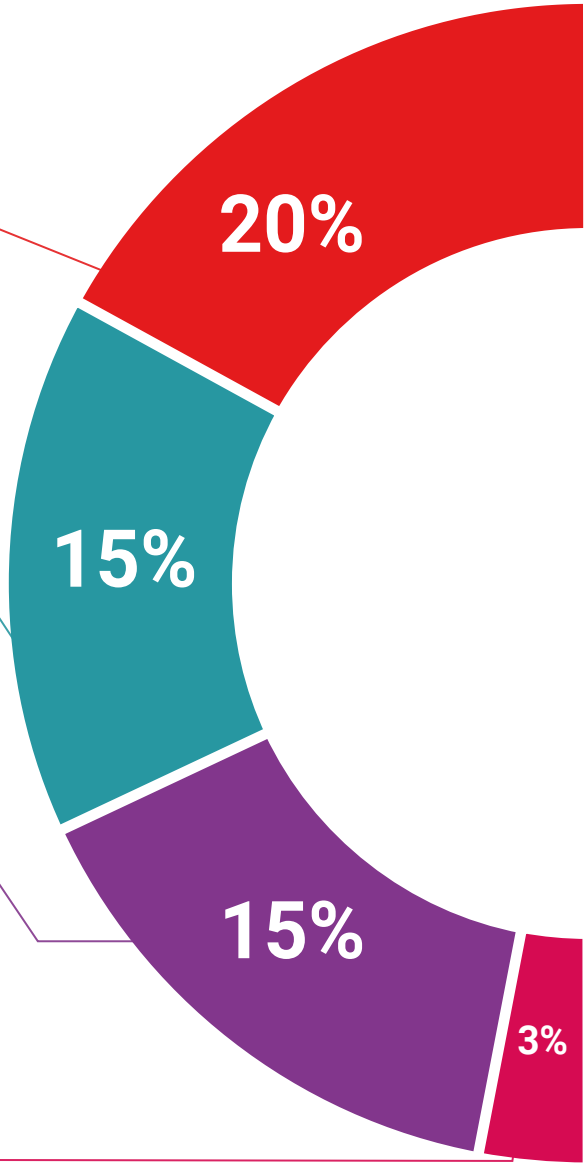
Interactive Summaries

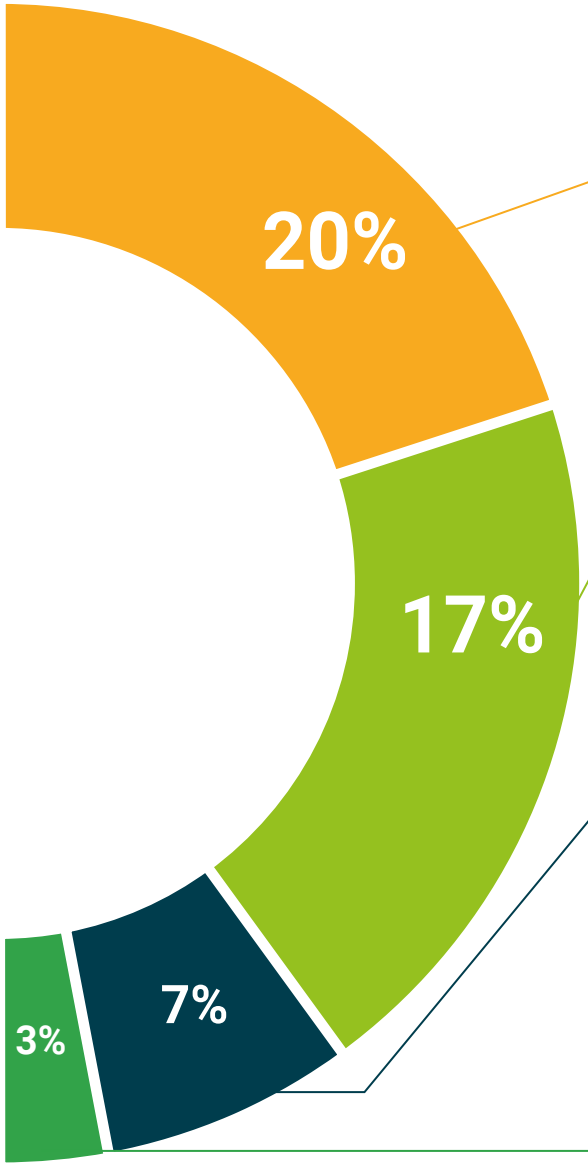
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.

Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.

Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.

Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.

06

Certificate

The **Postgraduate Certificate in Pediatric Hip Orthopedics** guarantees you, in addition to the most rigorous and updated training, access to a certificate issued by **TECH Technological University.**

Successfully complete this training and receive your university degree without travel or laborious paperwork"

This **Postgraduate Certificate in Pediatric Hip Orthopedics** is the most comprehensive and up-to-date scientific program on the market.

After the student has passed the evaluations, they will receive by mail with acknowledgment of receipt their corresponding Postgraduate Certificate issued by **TECH Technological University.**

The certificate issued by **TECH Technological University** will specify the qualification obtained through the course, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Pediatric Hip Orthopedics**

ECTS: **6**

Official Number of Hours: **150**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Awards the following

DIPLOMA

to

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

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Pediatric Hip Orthopedics

This is a qualification awarded by this University, with 6 ECTS credits and equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

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

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.

Unique TECH Code: AFWORD23S techtitute.com/certificates

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

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Pediatric Hip Orthopedics

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