

Postgraduate Certificate

Pediatric Mycobacterial Infections





Postgraduate Certificate Pediatric Mycobacterial Infections

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/pediatric-mycobacterial-infections

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01

Introduction

The condition of tuberculosis in pediatric patients is difficult to estimate, not only due to the non-specificity and the difficulty of its clinical diagnosis, but also due to under-reporting in many countries. In order for the graduate to be able to diligently recognize the most innovative medical strategies for recognizing this disease related to the child and adolescent patient, TECH has developed this program. This is a complete program specifically designed by specialists in Microbiology and Pediatrics that will allow you to get up to date on the clinical forms of infection, diagnosis and treatment guidelines for patients with mycobacteria. An online educational experience, perfectly compatible with your professional and personal life and adapted to the latest scientific evidence in medicine.



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TECH guarantees that, in just 6 weeks, you will have managed to update your knowledge of Mycobacterial Infections in Pediatrics in detail”

According to the World Health Organization, an estimated 1.1 million children become ill with tuberculosis each year. However, these figures are not valid, since, as various experts have pointed out, there are many cases in which their condition is not recognized, as are many countries that do not even notify it. Therefore, *their* condition is much greater.

In order for the graduate to be able to work on their diagnosis and treatment based on the latest scientific evidence, TECH has developed this complete program in Pediatric Mycobacterial Infections, a program aimed at updating their knowledge and improving their skills in the management of child and adolescent patient affected by tuberculosis.

In this way, through a 100% online agenda, the graduate will be able to delve into the clinical forms of the disease, as well as the most effective novelties and guidelines to work on its early diagnosis and treatment. Plus, you'll be up to date on the best prevention strategies through post-exposure prophylaxis and vaccination.

The degree also includes high-quality additional material in the form of detailed videos, research articles, additional readings, and dynamic summaries; all this, compacted in a comfortable and accessible 100% online format. Thanks to this, the specialist will be able to choose their own schedule and take this academic experience based on their own availability, without face-to-face classes and from the comfort of their home.

This **Postgraduate Certificate Mycobacterial Infections in Pediatrics** contains the most complete and up-to-date scientific program on the market. Its most outstanding features are:

- ♦ The development of practical cases presented by experts in Medicine and Microbiology
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions for 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



This is an updated review of the clinical forms of tuberculosis disease in the child and adolescent patient”



Do you know the direct identification tests for Mycobacterium tuberculosis complex? With this program you will delve into the innovations of the technique and the technical recommendations to take into account"

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

Its 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 an immersive education designed to learn in real situations.

The design of the program focuses on Problem-Based Learning, through which the professional must try to solve the different situations of professional practice that arise throughout the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

You will have the opportunity to update yourself on the latest diagnostic strategies, from immunological to radiological tests.

Thanks to its comfortable 100% online format, you can work from wherever and whenever you want, with a schedule adapted to your availability.



02 Objectives

The difficulty of diagnosing tuberculosis in the child and adolescent patient is what has led TECH to develop this program, whose objective is to review this condition in children and young people in depth, providing graduates with up-to-date and exhaustive knowledge about its characteristics. In this way, throughout the 150 hours in which this program is distributed, you will be able to update yourself on the most innovative and effective diagnostic, treatment and prevention strategies according to the latest scientific evidence in Pediatric Microbiology.





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*A program with a single objective:
your educational satisfaction”*



General Objectives

- Make available to the graduate the best educational tools that allow them to update their knowledge regarding the clinical management of pediatric patients affected by mycobacteria
- Allow the specialist to perfect their medical skills through the resolution of real clinical cases extracted from the consultations of experts in the area



You will be able to work on the latest developments related to monitoring during the treatment of tuberculosis in Pediatrics”





Specific Objectives

- Become familiar with the evolution and current problems of childhood mycobacterial infections
- Delve into the different clinical forms of tuberculous disease in this type of patients
- Know all the available diagnostic methods that can be used, from clinical history, immunology and others, which also help to carry out adequately the differential diagnosis
- Delve into the treatment of tuberculosis disease in pediatric patients, including resistant tuberculosis and monitoring during treatment

03

Course Management

TECH has selected for this program a faculty versed in the clinical management of child and adolescent patients with tuberculosis. These are specialists from the areas of Microbiology and Pediatrics who know in detail the ins and outs of the disease and its management in children and young people. In addition, as they are active professionals, they will be able to contribute a current, personal and critical character to the degree, which considerably increases the quality of this Diploma.



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The teaching team has selected clinical cases from their own practices so that you can work on them and put your skills in managing pediatric patients with this disease into practice”

Management



Dr. Sánchez Romero, María Isabel

- ♦ Area Specialist in the Microbiology Department of the Puerta de Hierro Majadahonda University Hospital, Madrid
- ♦ PhD in Medicine and Surgery from the University of Salamanca
- ♦ Medical Specialist in Clinical Microbiology and Parasitology
- ♦ Member of the Spanish Society of Infectious Diseases and Clinical Microbiology
- ♦ Technical Secretary of the Madrid Society of Clinical Microbiology

Professors

Dr. González Ojeda, Virginia

- ♦ Head of the Pediatrics Department at NISA Pardo de Aravaca Hospital
- ♦ Head of the Pediatrics Service at La Zarzuela Hospital
- ♦ Responsible for the Pediatric ICU at QuirónSalud Madrid University Hospital
- ♦ Participant in several trials and research studies
- ♦ Author and co-author of several scientific articles and book chapters on Pediatrics
- ♦ Master's Degree in Medical Expertise and of Bodily Injury Assessment by the University of Alcalá de Madrid
- ♦ Teacher in university studies of Medicine and in training courses for doctors
- ♦ Doctor in Medicine by the Autonomous University of Madrid



04

Structure and Content

The Postgraduate Certificate in Pediatric Mycobacterial Infections has been developed by the teaching team taking into account two factors: the immediate current situation of the Microbiology sector related to tuberculosis in children and adolescent patients, and the demanding quality criteria that TECH imposes on each of their degrees. Thus, a novel, current, dynamic and perfect program arises for the specialist to catch up. In addition, its comfortable 100% online format gives you the flexibility and accessibility you need to adapt it to the complex agenda of your practice.



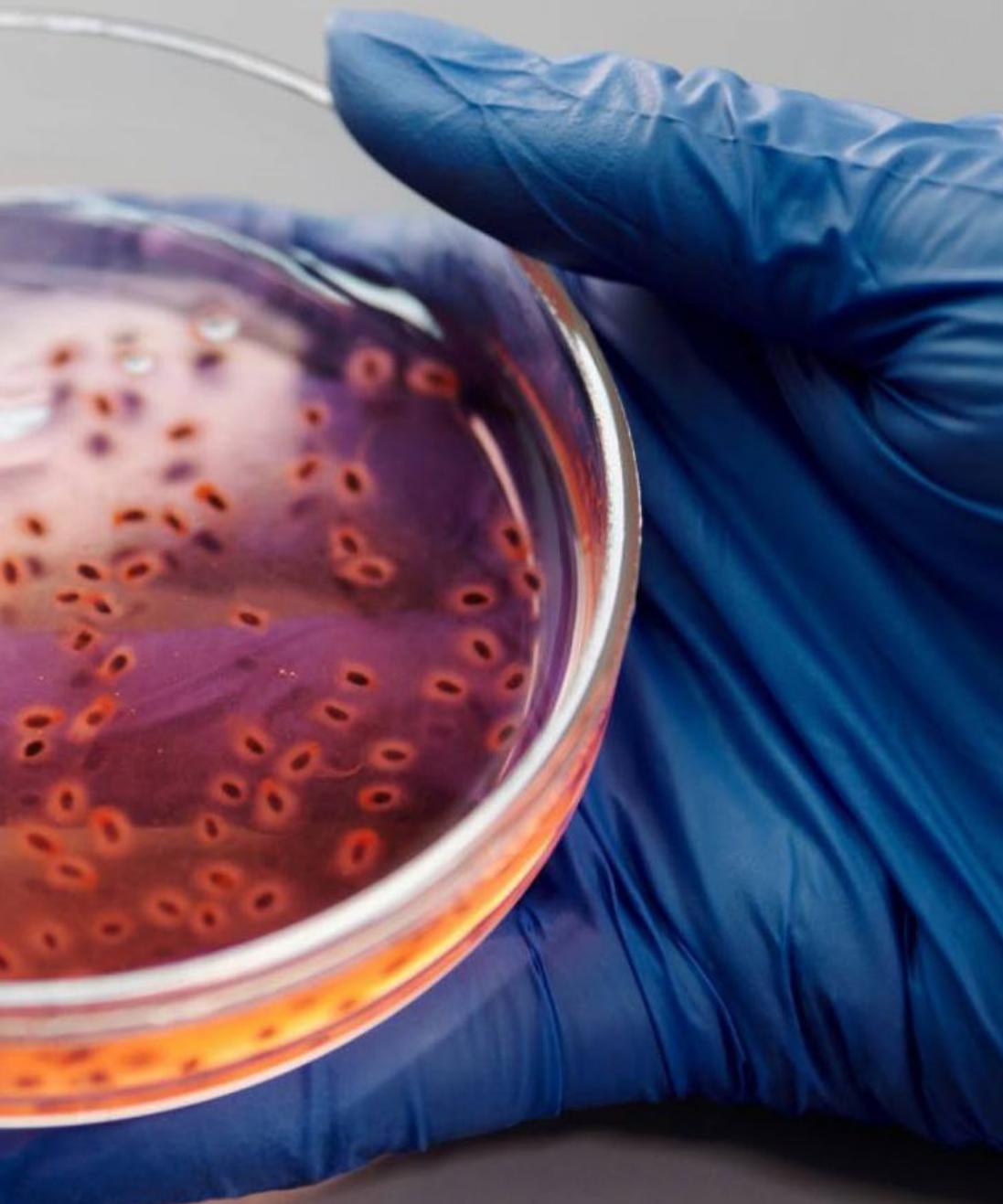
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This Postgraduate Certificate also includes a module dedicated to clinical manifestations and therapeutic management of atypical mycobacterial infections in pediatrics”

Module 1. Pediatric Mycobacterial Infections

- 1.1. Tuberculosis in Childhood
- 1.2. Current Problem of Tuberculosis Infection in Childhood
- 1.3. Clinical Presentation. Classification of Risk Status in *Mycobacterium Tuberculosis Complex* Infection
 - 1.3.1. Clinical Forms of Tuberculosis Disease
 - 1.3.2. Exposure to Tuberculosis without Infection
 - 1.3.3. Latent Tuberculosis Infection (LTBI)
 - 1.3.4. Tuberculous Disease
- 1.4. Diagnosis of Tuberculosis in Pediatrics
 - 1.4.1. Medical History
 - 1.4.2. Immunological Tests
 - 1.4.3. Direct Tests to Identify *Mycobacterium Tuberculosis Complex*
 - 1.4.4. X-Ray Tests
 - 1.4.5. Other Diagnostic Tests
 - 1.4.6. Differential Diagnosis
- 1.5. Treatment of Tuberculosis in Pediatrics
 - 1.5.1. Latent Tuberculosis Infection (LTBI)
 - 1.5.2. Tuberculous Disease
 - 1.5.3. Resistant Tuberculosis
 - 1.5.4. Monitoring During Treatment
 - 1.5.5. Other Therapeutic Measures
- 1.6. Prevention of Tuberculosis in Pediatrics
 - 1.6.1. Post-Exposure Prophylaxis
 - 1.6.2. Vaccines





- 1.7. Special Tuberculosis Situations in Pediatrics
 - 1.7.1. Immunosuppressed Patients
 - 1.7.2. History of BCG Vaccination
 - 1.7.3. Extrapulmonary Tuberculosis
 - 1.7.4. Perinatal Tuberculosis
- 1.8. Epidemiology of Atypical Mycobacterial Infections in Pediatrics
- 1.9. Diagnosis of Atypical Mycobacterial Infections in Pediatrics
- 1.10. Clinical Manifestations and Therapeutic Management of Atypical Mycobacterial Infections in Pediatrics
 - 1.10.1. Lymphadenitis
 - 1.10.2. Pulmonary Infections
 - 1.10.3. Disseminated disease

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Do not think twice and enroll in a program that, with full guarantee, will live up to your most demanding expectations”

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 Pediatric Mycobacterial Infections guarantees, in addition to the most rigorous and up-to-date training, access to a Diploma title 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 Pediatric Mycobacterial Infections** 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 Pediatric Mycobacterial Infections**

Official N° of hours: **150 h.**



*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.

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



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