

Postgraduate Certificate

Infectious Diseases in Pediatric Patient Emergencies





Postgraduate Certificate Infectious Diseases in Pediatric Patient Emergencies

- » 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/infectious-diseases-pediatric-patient-emergencies

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01

Introduction

When a patient with an infectious pathology comes to the Emergency Room, it is usually because the symptoms have failed to diminish with the indicated treatment or are so strong that they prevent a normal life. Therefore, the care of specialized physicians who are able to diagnose and treat infectious diseases effectively is required. On this occasion, we give you the opportunity to train in this field so that you can improve your daily practice and, therefore, also improve the health of your patients.





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The symptoms of infectious diseases can be very bothersome for patients, especially in the case of children. Increase your training with this Postgraduate Certificate and improve the health of your patients"

There are infectious diseases that affect children and that, due to their complexity or symptoms that can be harmful to children, end up being treated in the emergency room. In the case of these patients, they do not always understand what is happening to them, so it is necessary to provide personalized care, taking into account, in addition to their pathological problem, their state of mind at the time of the intervention. This requires healthcare professionals capable of adapting to changing situations that are difficult to manage due to their own interaction with the patient.

In order to train you for the care of pediatric patients with infectious diseases we offer you this course, with which you will be able to acquire the most updated knowledge of the moment about the main infectious pathologies that affect children and that can be treated in the emergency room. Only by having advanced knowledge in the field, professionals will be able to develop their own skills to improve their profession every day.

Specifically, the program includes the classic aspects in the management of infectious pathology by apparatus or organs, as well as new items essential for the correct management of infectious diseases in the current scenario of globalization of health. But, as it could not be otherwise, the main content is aimed at knowing the main infectious diseases affecting children in order to know the best way to take care of them. The fact is that the complexity that can be involved in the urgent care of pediatric patients with infectious diseases requires high-level training to qualify healthcare professionals.

On the other hand, being a 100% online training, the professional will have the ability to decide when and from where to study, without commitments or obligations, thus being able to combine their study time with the rest of their daily obligations.

This **Postgraduate Certificate in Infectious Diseases in Pediatric Patient Emergencies** contains the most complete and up-to-date scientific program on the market. The most important features of the course are:

- » Clinical symptom cases presented by experts in infectious diseases
- » 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.
- » Therapeutic developments on intervention in infectious diseases.
- » Practical exercises where the self-assessment process can be carried out to improve learning.
- » An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- » Special emphasis on research methodologies.
- » 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.



We offer you the best teaching methodology to train you with simulated cases that will allow you to improve your daily performance"

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This course is the best investment you can make in selecting an up-to-date program for two reasons: in addition to updating your knowledge in Infectious Diseases in Pediatric Patient Emergencies, you will obtain a Postgraduate Certificate from the leading online university in Spanish: TECH”

The teaching staff includes a professionals from the field of medicine., who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

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 an immersive training experience designed to train for real-life situations.

This program is designed around Problem Based Learning, whereby the physician 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 developed by recognized experts in the field of infectious diseases in pediatric patients with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge through this program.

Take the opportunity to learn about the latest advances in Infectious Diseases in Pediatric Patient Emergencies and improve your patient care.



02

Objectives

The Postgraduate Certificate in Infectious Diseases in Pediatric Patient Emergencies is designed to facilitate the performance of the professional dedicated to the treatment of infectious diseases in all areas , but , above all, in the emergency room.





Our goal is Reach academic excellence and to help you achieve it too"



General Objective

- » Provide the theoretical knowledge necessary to understand the environment in which professional care is given to patients with infectious diseases..
- » Provide the appropriate treatment in the different cases of infectious diseases.
- » Gain in-depth understanding of the areas in which professionals must be trained, in order for them to be able to provide the best practice when treating infectious diseases.





Specific Objectives

- » Describe the management of fever syndrome and exanthems in a pediatric patient in the emergency room.
- » Explain the emergency diagnosis and treatment of skin, soft tissue and skeletal system infections in pediatric patients.
- » Explain the emergency diagnosis and treatment of ENT and respiratory infections in pediatric patients.
- » Explain the emergency diagnosis and treatment of gastrointestinal, genitourinary and STI infections in pediatric patients.
- » Explain the diagnosis and treatment of CNS and CV infections in a pediatric patient in the emergency room.
- » Explain the treatment in pediatric infectious diseases.



03

Course Management

The program includes in its teaching staff reference specialists in Infectious Diseases in Pediatric Patient Emergencies and other related areas, who pour into this training the experience of their work. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.





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*Learn the latest advances in procedures
in Infectious Diseases in Pediatric Patient
Emergencies from leading professionals"*

Management



Dr. García Rodríguez, Magdalena

- ◆ Degree in Medicine and Surgery
- ◆ Specialist in Internal Medicine
- ◆ Attending Physician in the Infectious Diseases Unit and the Consorcio General Hospital Valencia
- ◆ Head of the International Health and Travel Advice Section
- ◆ Author of several publication and research projects
- ◆ Founding member and advisor of the Chagas Disease Association of the Valencian Community
- ◆ Member of a vaccine study group for the Spanish Society of Infectious Diseases and Clinical Microbiology.
- ◆ Member of a Malaria study group for the Spanish Society of Infectious Diseases and Clinical Microbiology.



Dr. Ricart Olmos, María del Carmen

- ◆ Degree in Medicine and Surgery
- ◆ Specialist in Internal Medicine
- ◆ Attending Physician in the Infectious Diseases Unit and the Consorcio General University Hospital, Valencia
- ◆ Author of several publication and research projects
- ◆ Editor of the Consensus Document on Age and Human Immunodeficiency Virus Infection Expert Group of the Secretariat of the National AIDS Plan (SPNS), Spanish Society of Geriatrics and Gerontology (SEGG).
- ◆ Master's Degree in Infectious Diseases in Intensive Care



Dr. García del Toro, Miguel

- PhD in Medicine from the University of Valencia
- Head of the Infectious Diseases Service at the Consortium General University Hospital in Valencia.
- 50 national and international publications in journals and books, 33 of them indexed in Pubmed and/or Scopus.
- President Congress of the National Group for the Study of Hepatitis of the Society for Infectious Diseases and Clinical Microbiology 2017
- More than 200 communications to National and International Congresses in the specialty of Infectious Diseases, HIV and Viral Hepatitis.
- Principal Investigator of some thirty Clinical Trials and/or Research Projects and collaborating researcher.

04

Structure and Content

The structure of the contents has been designed by a team of professionals from the best hospitals and universities in the country, aware of the relevance of the current training to intervene in the diagnosis, treatment and monitoring of Infectious Diseases in Pediatric Patient Emergencies and committed to quality teaching through new educational technologies.





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

Module 1. Infectious Diseases in Pediatric Patients in the Emergency Room

- 1.1. Fever Without Focus.
 - 1.1.1. Child With a Fever Without Focus and Poor Appearance.
 - 1.1.2. Fever Without Focus and Good General Appearance.
 - 1.1.3. Children from 3-36 Months Old With a Fever Without Focus and Good General Appearance.
 - 1.1.4. Breastfeeding Infant less than 3 Months Old With a Fever Without Focus and Good General Appearance.
- 1.2. Sepsis and Septic Shock.
 - 1.2.1. Concept.
 - 1.2.2. Current Definition of Shock and Septic Shock..
 - 1.2.3. Etiology and Epidemiology.
 - 1.2.4. Pathophysiology.
 - 1.2.5. Risk Factors.
 - 1.2.6. Differential Diagnosis.
 - 1.2.7. Clinical Presentation.
 - 1.2.8. Complementary Tests.
 - 1.2.9. Treatment.
- 1.3. Fever in a Traveling Child.
 - 1.3.1. Anamnesis
 - 1.3.2. Physical Examination
 - 1.3.3. Complementary Tests.
 - 1.3.4. Treatment.
 - 1.3.5. Malaria.
 - 1.3.6. Dengue.
- 1.4. Exanthem
 - 1.4.1. Etiology.
 - 1.4.2. Diagnosis.
 - 1.4.3. Differential Diagnosis.
- 1.5. Skin and Soft Tissue Infections.
 - 1.5.1. Etiopathogenesis.
 - 1.5.2. Diagnosis.
 - 1.5.3. Main Clinical Framework.
 - 1.5.4. Treatment.
 - 1.5.5. Community-acquired Methicillin-Resistant S. Aureus.
- 1.6. Cervical Adenitis
 - 1.6.1. Etiology.
 - 1.6.2. Clinical Evaluation
 - 1.6.3. Diagnosis and Treatment.
 - 1.6.4. Differential Diagnosis.
- 1.7. Osteoarticular Infections: Acute Osteomyelitis and Septic Arthritis.
 - 1.7.1. Epidemiology.
 - 1.7.2. Etiopathogenesis.
 - 1.7.3. Clinical Presentation.
 - 1.7.4. Diagnosis.
 - 1.7.5. Differential Diagnosis.
 - 1.7.6. Treatment.
- 1.8. Pharyngotonsillitis and Its Complications.
 - 1.8.1. Concept.
 - 1.8.2. Epidemiology and Etiology.
 - 1.8.3. Clinical Presentation.
 - 1.8.4. Diagnosis.
 - 1.8.5. Treatment.
- 1.9. Otitis Media and External Sinusitis.
 - 1.9.1. Concept of Otitis Media and External.
 - 1.9.1.1. Epidemiology and Etiology.
 - 1.9.1.2. Clinical Presentation.
 - 1.9.1.3. Complications.
 - 1.9.1.4. Diagnosis.
 - 1.9.1.5. Treatment.
 - 1.9.2. Concept of Acute Sinusitis.
 - 1.9.2.1. Epidemiology and Etiology.
 - 1.9.2.2. Clinical Presentation.
 - 1.9.2.3. Diagnosis.
 - 1.9.2.4. Treatment.
- 1.10. Acute Mumps.
 - 1.10.1. Epidemic Mumps.

- 1.10.2. Vaccination.
- 1.10.3. Prevention of Epidemic Outbreaks.
- 1.11. Laryngitis and Epiglottitis.
 - 1.11.1. Concept.
 - 1.11.2. Epidemiology and Etiology.
 - 1.11.3. Clinical Presentation.
 - 1.11.4. Diagnosis.
 - 1.11.5. Treatment.
 - 1.11.6. Admission Criteria
- 1.12. Syndrome Pertusoids
 - 1.12.1. Concept.
 - 1.12.2. Epidemiology and Etiology.
 - 1.12.3. Clinical Presentation.
 - 1.12.4. Complications.
 - 1.12.5. Diagnosis.
 - 1.12.6. Treatment.
 - 1.12.7. Prevention.
- 1.13. Bronchiolitis and Recurrent Wheezing Episodes.
 - 1.13.1. Acute Bronchiolitis
 - 1.13.2. Recurrent Wheezing
- 1.14. Pneumonia and Complications.
 - 1.14.1. Epidemiology.
 - 1.14.2. Etiology.
 - 1.14.3. Clinical Characteristics.
 - 1.14.4. Diagnosis.
 - 1.14.5. Treatment.
 - 1.14.6. Prevention.
 - 1.14.7. Complications.
- 1.15. TB.
 - 1.15.1. Manifestations.
 - 1.15.2. Diagnosis.
 - 1.15.3. Treatment.
- 1.16. Acute Gastroenteritis.
 - 1.16.1. Etiopathogenesis.
 - 1.16.2. Clinical Presentation.
 - 1.16.3. Diagnosis.
 - 1.16.4. Treatment.
- 1.17. Viral Hepatitis
 - 1.17.1. Evaluation and Initial Management of Hepatitis in the Emergency Room.
 - 1.17.2. Classic Viral Hepatitis.
- 1.18. Appendicitis (Need for Antibiotic or Not) and Perirectal Abscesses.
 - 1.18.1. Acute Appendicitis
 - 1.18.2. Perirectal Abscess
- 1.19. Urinary Infection
 - 1.19.1. Definition.
 - 1.19.2. Etiopathogenesis.
 - 1.19.3. Clinical. When to suspect a urinary tract infection in the pediatric age?
 - 1.19.4. Diagnosis.
 - 1.19.5. Management
- 1.20. CNS Infections in Pediatrics: Acute Meningitis.
 - 1.20.1. Etiology.
 - 1.20.2. Clinical Presentation.
 - 1.20.3. Diagnosis.
 - 1.20.4. Treatment.
 - 1.20.5. Chemoprophylaxis.
 - 1.20.6. Complications and Prognosis.
- 1.21. Endocarditis, Myocarditis and Pericarditis.
 - 1.21.1. Infectious Endocarditis
 - 1.21.2. Myocarditis
 - 1.21.3. Pericarditis.
- 1.22. Treatment in Pediatric Infectious Diseases.
 - 1.22.1. Bacterial Infections in the Pediatric Emergency Department: Diagnosis and Antibiotic Treatment of Choice, Depending on the Resistance of the Pathogens Responsible for the Disease.
 - 1.22.2. Delayed Antibiotic Prescribing Strategy.
 - 1.22.3. When is the Association of Amoxicillin with Clavulanic Acid and Macrolides Indicated in Pediatrics?
 - 1.22.4. Do I Also Have to be Careful with Topical Antibiotherapy to Avoid Bacterial Resistance?

05

Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: *Re-learning*.

This teaching system is used 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 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.

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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 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 Infectious Diseases in Pediatric Patient Emergencies guarantees you, in addition to the most accurate and up-to-date specialization, access to a Postgraduate Certificate issued by TECH - Technological University.



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Successfully complete this training and receive your diploma without the hassle of travel or paperwork"

This Postgraduate Certificate in Infectious Diseases in Pediatric Patient Emergencies contains the most complete and up-to-date scientific program on the market.

After students have passed the evaluations, they will receive their corresponding Postgraduate Certificate issued by TECH - Technological University via tracked delivery.

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

Title: Postgraduate Certificate in Infectious Diseases in Pediatric Patient Emergencies

ECTS: 7

Nº Hours: 175



*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.

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



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in Pediatric Patient
Emergencies

- » Modality: **online**
- » Duration: **6 weeks**
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Postgraduate Certificate

Infectious Diseases in Pediatric Patient Emergencies

