

# Postgraduate Certificate

Infectious Diseases in the Emergency  
Department of the Pediatric Patient  
for Nursing





## Postgraduate Certificate Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 7 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/infectious-diseases-emergency-department-pediatric-patient-nursing](http://www.techtute.com/us/nursing/postgraduate-certificate/infectious-diseases-emergency-department-pediatric-patient-nursing)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

The care of children in the emergency department is a complex task that requires professionals with great skills, not only for their treatment, but also to provide personalized care to reassure the little ones. Pediatric infections require nurses with up-to-date knowledge, so that their intervention can promote patient recovery. In this case TECH offers a complete academic program for students to increase their training and give a boost to their profession.

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*This program will generate a sense of confidence in the performance of healthcare practice, which will help you grow personally and professionally”*

The objective of this Postgraduate Certificate in Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing is to train professionals who in their daily practice may encounter situations of this type. In this way, they will gain specific knowledge that will enable them to react appropriately to cases in which they will have to prove their worth, for their own sake and, above all, for the sake of their patients..

To this end, TECH has designed this complete training course aimed at specializing nurses in infectious diseases that affect children and that, due to their complexity or because they have symptoms that can be harmful to children, end up being treated in the Emergency Department. Thus, 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 that affect 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 a high level of specialization to train 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 the Emergency Department of the Pediatric Patient for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ Clinical 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
- ◆ Therapeutic developments on the intervention in Infectious Diseases
- ◆ Practical exercises where to carry out the self-assessment process to improve learning
- ◆ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ◆ Its 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



*Specialize with us and increase your training in the field of pediatric infections, achieving improvements in your patients”*



“

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

Its teaching staff includes professionals belonging to the nursing field, who contribute their work experience to this specialization, as well as renowned specialists belonging to 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.

The design of this program focuses on Problem-Based Learning, by means of which the nurse must try to solve the different professional practice situations that arise throughout 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 Postgraduate Certificate.*

*Take the opportunity to learn about the latest advances in Infectious Diseases in the Pediatric Patient for Nursing and improve the care of your patients.*



02

# Objectives

The Postgraduate Certificate in Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing is aimed at facilitating the performance of nurses dedicated to the treatment of urgent infectious pathology in all areas, but especially in the Emergency Department.





A close-up photograph of a baby's hand and foot, showing the skin texture and small fingers. The image is partially obscured by a diagonal green and white graphic overlay.

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*Our goal is achieve academic excellence  
and to help you achieve it too”*



## General Objectives

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- ♦ Provide the necessary theoretical knowledge to be able to understand the environment in which the professional activity is developed to care for patients with Infectious Diseases
- ♦ Provide the appropriate treatment in the different cases of infectious diseases
- ♦ In-depth study of each of the areas in which professionals must be trained to be able to practice with knowledge in the care of infectious pathologies

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*Update your knowledge through the program on Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing”*





## Specific Objectives

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- ◆ Describe the management of fever syndrome and exanthems in a pediatric patient in the Emergency Department
- ◆ 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 emergency diagnosis and treatment of the central nervous system and cardiovascular infections in pediatric patients
- ◆ Explain the therapeutics in pediatric infectious diseases

03

# Course Management

The program includes in its teaching staff reference specialists in Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing 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 from reference professionals, the latest advances in procedures in the field of Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing”*

## Management



### Dr. García del Toro, Miguel

- ♦ PhD in Medicine from the University of Valencia
- ♦ Head of the Infectious Diseases Unit at the General University Hospital Consortium of 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 of 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
- ♦ Main investigator of some twenty clinical trials and/or research projects



### Ms. 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





### **Ms. 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

04

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best hospitals and universities, aware of the relevance of this specialization in order to intervene in the diagnosis, treatment and monitoring of Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing and committed to quality teaching through new educational technologies.



A close-up photograph of a person's face, focusing on the eye and cheek area. Several water droplets are visible on the skin, suggesting a tearful or emotional moment. The image is partially obscured by a diagonal split into a dark teal and a light teal section.

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*You will have the most advanced  
teaching resources on the market”*



## Module 1. Infectious Diseases in the Emergency Department of the Pediatric Patient

- 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 symptoms
  - 1.2.8. Complementary Tests
  - 1.2.9. Treatment
- 1.3. Fever in a Traveling Child
  - 1.3.1. Medical history
  - 1.3.2. Physical Exploration
  - 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. Aetiopathogenesis
  - 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. Aetiopathogenesis
  - 1.7.3. Clinical Symptoms
  - 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 symptoms
  - 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 symptoms
    - 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 symptoms
    - 1.9.2.3. Diagnosis
    - 1.9.2.4. Treatment

- 1.10. Acute Mumps
  - 1.10.1. Epidemic Mumps
  - 1.10.2. Vaccines
  - 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 Symptoms
  - 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 Symptoms
  - 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. Aetiopathogenesis
  - 1.16.2. Clinical Symptoms
  - 1.16.3. Diagnosis
  - 1.16.4. Treatment
- 1.17. Viral Hepatitis
  - 1.17.1. Evaluation and Initial Management of Hepatitis in the Emergency Department
  - 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. Aetiopathogenesis
  - 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 symptoms
  - 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 academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

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







“

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

## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses 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 nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse 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 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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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 really 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.



### Nursing 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 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 them as many times as you want.



### 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 suggesting that observing third-party experts can be useful.

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 Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*Successfully complete this training and receive your university certificate without the hassle of travel or paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

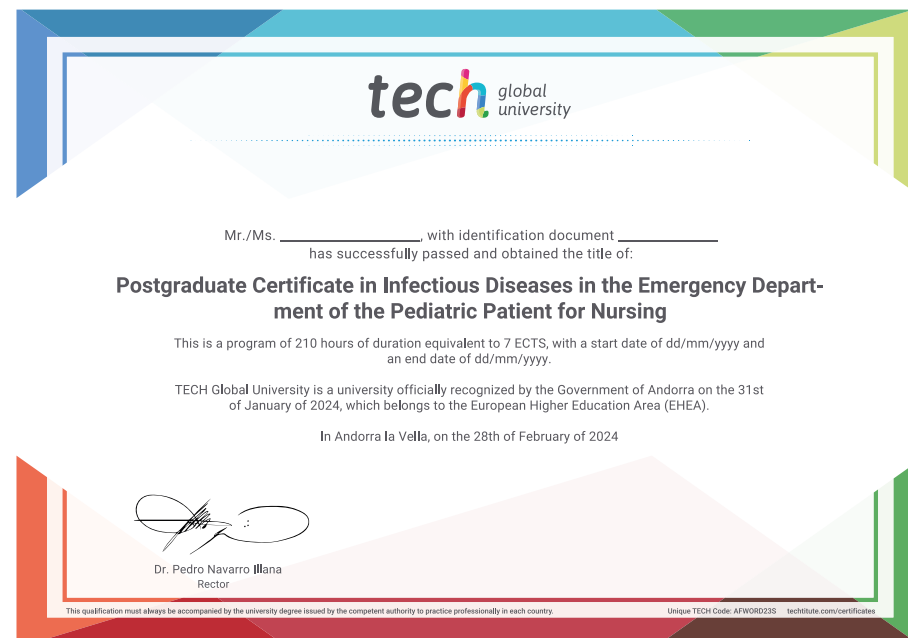
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Infectious Diseases in the Emergency Department of the Pediatric Patient for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **7 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University 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  
online training  
development languages  
classroom



**Postgraduate Certificate**  
Infectious Diseases in the  
Emergency Department of the  
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