

Postgraduate Certificate Hospital-Acquired Infections





Postgraduate Certificate Hospital-Acquired Infections

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

Website: www.techtute.com/us/medicine/postgraduate-certificate/hospital-acquired-infections

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 18

05

Methodology

p. 22

06

Certificate

p. 30

01

Introduction

Promptness in the diagnosis of nosocomial infections is essential to increase the chances of contributing to the improvement of the patient's health, since their early identification will allow the medical specialist to apply the therapeutic strategies best suited to the case, preventing the emergence of associated consequences. To this end, these professionals must know in detail the latest developments related to in-hospital conditions caused by bacteria, fungi, viruses and parasites in the clinical setting, something that can be achieved with the course of this comprehensive program. Thanks to the effective teaching methodology that has been used for its development, as well as the exhaustiveness and austerity that define its syllabus, the graduate will surely be able to get up to date in this field through a 100% online educational program.





“

If you are looking for a program with which, in only 180 hours, you can learn in detail the latest developments related to nosocomial infections, this program is perfect for you, and TECH is your best alliance"

Millions of bacteria, viruses and parasites of different types coexist in the intrahospital environment, which is why, on many occasions, patients admitted for any other pathology or intervention are affected by an infection, which may occur during their stay or even once they have been discharged. As these are people who are going through a recovery process, any alteration in their organism can cause very serious consequences for their health, so specialists must always act quickly and safely when such cases arise.

For this reason, TECH has asked its team of experts to create a program that allows these professionals to know in detail the latest developments related to nosocomial infections. This is how this Postgraduate Certificate, a dynamic, austere and multidisciplinary program, was created, with which the graduate will be able to update on the advances that have been made in the clinical management of these patients and on the basis of the different areas of affection.

To this end, they will have 180 hours of the best theoretical, practical and additional content (detailed videos, images, research articles, complementary readings, real clinical cases and self-knowledge exercises) thanks to which they will be able to contextualize the information developed in the syllabus and delve into the aspects they consider most relevant. In addition, the content will be available in the virtual classroom from the beginning of the academic activity and during the 6 weeks in which the program is distributed, although it can be consulted for further consultation on any device with internet connection.

This **Postgraduate Certificate in Hospital-Acquired Infections** 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 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 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



Would you like to delve into the latest news related to nosocomial pneumonias associated with mechanical ventilation? Enroll in this program and do it 100% online"

“

An innovative and alternative academic opportunity to delve into aspects such as the different aspects of infection associated with non-tunneled peripheral and central venous catheters"

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.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will have a variety of high-quality additional material to delve into the different sections of the syllabus in a personalized way.

Thanks to its completeness, you will be able to work on the latest developments in the clinical management of the surgical wound, superficial and deep.



02

Objectives

Given the relevance of the exhaustive and effective management of nosocomial infections in hospital patients, TECH has developed this program with the aim that the graduate can learn in detail the latest developments related to this field. To this end, they will have not only the most innovative and cutting-edge information, but also the best tools to obtain from this academic experience a highly rewarding result for their professional performance.



“

*A program designed in such a way that
you can achieve even your most ambitious
academic goals in a guaranteed way"*



General Objectives

- ◆ Determine the novelties related to nosocomial diseases and the most innovative strategies for their treatment
- ◆ Know the latest scientific evidence in Infectious Diseases through the use of the most modern and effective academic tools

“

If one of your objectives is to perfect your skills in the hospital management of patients with Clostridium difficile infection, with this Postgraduate Certificate, you will achieve it in less than 6 weeks”





Specific Objectives

- ◆ Incorporate the latest diagnostic and therapeutic procedures for hospital-acquired or healthcare-associated infections into daily practice
- ◆ Determine infection control activities in the field of hospital surveillance and in-hospital control of nosocomial infection

03

Course Management

For TECH, that the graduate can get the most out of each academic experience is a priority. Hence its efforts to include in its programs the best teaching team, composed, in this case, by medical professionals specializing in the field of Infectious Diseases. This is a group of experts with years of experience in active work with infections and patients who have suffered from them. Therefore, this is a unique opportunity for the graduate to catch up with true experts in the field and to learn in detail the latest developments in the field in a dynamic and intensive way.





“

The best option to obtain a global and updated vision on infection in the critical patient admitted to the ICU in a dynamic and austere way”

International Guest Director

A pioneer in the use of **CD8+ T Cells** as a therapeutic tool for various **Viral Infections**, Dr. Otto Yang is a prestigious **Physician** highly specialized in **Cellular Immunology**. In addition, he has led multiple **scientific research** projects that have laid the groundwork for the development of innovative therapies and even vaccines.

In this sense, he has worked in health institutions of international reference such as **UCLA Health** in California. In this way, his work has been focused on the creation and implementation of modern treatments to manage conditions related to **HIV, AIDS or cancer**. Thanks to this, he has driven advances in the design of personalized immunological treatments adapted to the specific needs of each patient. As a result, he has managed to optimize the **overall well-being** of numerous patients in the long term.

Moreover, he has been a key figure in the conduct of **clinical trials** related to **COVID-19**. As such, he has conducted a variety of comprehensive analyses to evaluate the effects of therapies such as **Remdesivir, Baricitinib** and even **Monoclonal Antibodies**. Such work has been essential to identify the most effective therapeutic options and improve informed clinical decision making on a global scale in the face of the SARS-CoV-2 outbreak.

Throughout its 40-year history, its clinical excellence has been rewarded on several occasions in the form of **awards**. An example of this is the award he received from the American Association of Immunologists for his **CAR-T therapies** for the treatment of **leukemias**. In his strong commitment to advancing healthcare, he has led a wide range of projects that have received more than 30 million dollars in funding. These achievements reflect his strategic leadership in generating cutting-edge solutions that bring tangible value to society.



Dr. Yang, Otto

- Chief of the Division of Infectious Diseases at UCLA Health in California, United States
- Founder and Chief Medical Officer of CDR3 Therapeutics, California
- Director of Scientific Research at AIDS Healthcare Foundation, Los Angeles, Los Angeles
- Research Scientist with over 170 published papers
- Scientific Director of Ozymia, Los Angeles
- HIV Physician at MCI-Cedar Junction, Massachusetts
- Infectious Diseases Internship at Harvard Medical School
- Internal Medicine Residency at Bellevue Hospital, New York
- M.D. from Brown University
- Member of: Board of Directors at California Applied Medicine and Frontida Electronic Health Records Software



Thanks to TECH, you will be able to learn with the best professionals in the world"

Management



Dr. Díaz Pollán, Beatriz

- ♦ Faculty Specialist La Paz University Hospital
- ♦ Faculty Specialist at San Carlos Clinical Hospital
- ♦ Resident Physician in San Carlos Clinical Hospital
- ♦ Master's Degree in Clinical Medicine from the Rey Juan Carlos University
- ♦ Degree in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Master's Degree in Infectious Diseases and Antimicrobial Treatment from CEU - Cardenal Herrera University
- ♦ Postgraduate Diploma in Community and Nosocomial Infections from CEU - Cardenal Herrera University
- ♦ Postgraduate Diploma in Chronic Infectious Diseases and Imported Infections from CEU - Cardenal Herrera University
- ♦ Postgraduate Diploma in Microbiological Diagnosis, Antimicrobial Treatment and Research in Infectious Pathology from CEU - Cardenal Herrera University

Professors

Dr. Ramos, Juan Carlos

- ♦ Doctor at La Paz University Hospital. Madrid
- ♦ Official Doctoral Program in Medicine. University of Alcalá
- ♦ Degree in Medicine and Surgery. Complutense University of Madrid
- ♦ Master's Degree in Infectious Diseases in Intensive Care. University-Company Foundation Valencia
- ♦ Author of Several Scientific Publications

Dr. Arribas López, José Ramón

- ♦ Head of the Infectious Diseases and Clinical Microbiology Unit. La Paz University Hospital
- ♦ Coordinator of the High-Level Isolation Unit. La Paz University Hospital- Carlos III
- ♦ Member of the Interministerial Committee for the management of the Ebola crisis
- ♦ Head of the AIDS and Infectious Diseases research group at IdiPAZ
- ♦ Doctor of Medicine. Autonomous University of Madrid
- ♦ Degree in Medicine and Surgery. Complutense University of Madrid

Dr. Rico, Alicia

- ◆ Specialist in the Microbiology and Parasitology Department at La Paz University Hospital
- ◆ Assistant and co-founder of the Infectious Diseases and Clinical Microbiology Unit at La Paz University Hospital
- ◆ Team Member of PROA (Programs of reinforcement, Orientation and Support)
- ◆ Teaching Collaborator of the Department of Medicine at UAM
- ◆ Member of the Infection and Policy Committee of La Paz University Hospital.
- ◆ Member of SEIMC (the Spanish Society of Infectious Diseases and Clinical Microbiology)
- ◆ Participation in several research projects
- ◆ Degree in Medicine from the Complutense University of Madrid.
- ◆ Doctorate Courses at the Complutense University of Madrid

Dr. Loeches Yagüe, María Belén

- ◆ Specialist in the area of Infectious Diseases at La Paz General University Hospital
- ◆ Professor of Infectious Diseases at the Infanta Sofía University Hospital in Madrid. European University of Madrid
- ◆ Doctor of Medicine. Autonomous University of Madrid
- ◆ Degree in Medicine. Complutense University of Madrid
- ◆ Master in Theoretical and Practical Learning in Infectious Diseases. Complutense University of Madrid
- ◆ Specialised Training in Microbiology and Infectious Diseases. Gregorio Marañón General University Hospital

Dr. Mora Rillo, Marta

- ◆ Specialist in the field of Infectious Diseases at La Paz University
- ◆ Clinical Teaching Collaborator in the Department of Medicine. Autonomous University of Madrid
- ◆ Doctor of Medicine. Autonomous University of Madrid
- ◆ Degree in Medicine and Surgery. University of Zaragoza
- ◆ Master's Degree in Infectious Diseases in Intensive Care. University of Valencia
- ◆ Online Masters in Infectious Diseases and Antimicrobial Treatment CEU Cardenal Herrera University. 2017
- ◆ Master's Degree in Tropical Medicine and International Health. Autonomous University of Madrid
- ◆ Expert in Emerging and High-Risk Virus Pathology. Autonomous University of Madrid
- ◆ Expert in Tropical Medicine. Autonomous University of Madrid

04

Structure and Content

Graduates of this Postgraduate Certificate will find 180 hours of the best theoretical, practical and additional content presented in different formats: detailed videos, graphic images, research articles, complementary readings, self-knowledge exercises and much more! In short, everything the specialist needs to get up to date on Hospital-Acquired Infections in a guaranteed and 100% online way, from any device with internet connection and with a schedule fully adapted to your availability.



“

Thanks to the comprehensiveness with which the program has been designed, you will be able to get up to speed on antimicrobial combinations, as well as their pros and cons"

Module 1. Nosocomial Infections

- 1.1. Infections Associated with Medical Procedures
 - 1.1.1. Infection of the Surgical Wound: Superficial and Deep
 - 1.1.2. Nosocomial Pneumonia Associated with Mechanical Ventilation
 - 1.1.3. Infection Associated with Non-Tunneled Peripheral and Central Venous Catheters
 - 1.1.4. Infections Associated with Urinary Catheter
 - 1.1.5. Clostridium Difficile Infection
 - 1.1.6. Global Vision of the Infection in Critical Patients in the ICU





“

An educational program that adapts to you: with a personalized schedule and the possibility of accessing the virtual classroom from any device with an internet connection"

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 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.

“

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 Hospital-Acquired Infections guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



“

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

This program will allow you to obtain your **Postgraduate Certificate in Hospital-Acquired Infections** 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 Hospital-Acquired Infections**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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.



Postgraduate Certificate Hospital-Acquired Infections

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

Postgraduate Certificate Hospital-Acquired Infections

