

# Postgraduate Certificate

## Infections Caused by Occupational Accidents





## Postgraduate Certificate Infections Caused by Occupational Accidents

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

Website: [www.techtitute.com/us/medicine/postgraduate-certificate/infections-caused-occupational-accidents](http://www.techtitute.com/us/medicine/postgraduate-certificate/infections-caused-occupational-accidents)

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01

# Introduction

Infections are becoming a global threat because the microorganisms that cause them are becoming resistant to certain drugs, making them difficult to cure. Infections caused by occupational accidents are of particular concern. It is important for health professionals to be updated with training courses such as this one in order to know the advances in their treatments and to avoid possible occupational accidents during their daily practice with infected people.





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*Improve your knowledge in Infections Caused by Occupational Accidents through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the specialty to be able to perform a quality medical practice.*

The cure of infectious diseases is one of the great societal challenges of today and, to achieve a reduction in the morbidity of affected persons, or to try to alleviate their symptoms, it is necessary for the healthcare professional to have a solid grasp of the subject, adjusted to the latest developments.

Malaria and tuberculosis are among the most prevalent infectious diseases worldwide. The former is endemic in more than 100 countries and the objective is to reduce mortality by at least 20% over that observed in 2005. In turn, the latter accounts for some 8 million new cases per year and more than 1 million deaths, with 20% of cases associated with HIV/AIDS infection, with problems of resistance to treatment and lack of compliance with it, facts that forced the WHO to consider tuberculosis a world health emergency since 1993.

It is especially important that medical professionals take the necessary precautions to treat patients who have some type of infection, since a simple occupational accident can cause infection. In these cases, it is crucial to take precautions, especially to avoid blood-borne infections.

Therefore, this Postgraduate Certificate focuses on providing physicians with the necessary knowledge of the main blood-borne infections and the best practice in the face of occupational accidents, with special emphasis on biosecurity measures and the role of the epidemiologist in the reduction of biological risks, offering the best and most updated content on the market.

This **Postgraduate Certificate in Infections Caused by Occupational Accidents** contains the most complete and up-to-date scientific program on the market. The most important features of the Postgraduate Certificate are:

- Firstly, Clinical features, in order to address the health-infectious disease process in a particular person through the study of the most prevalent and deadly infectious diseases and, secondly, in Epidemiologic features, to study the behavior of the same phenomenon in a particular population.
- Training and professional development in the indication, performance and interpretation of the main state-of-the-art diagnostic tests to complement clinical skills in the diagnostic process. Emphasizing the most up-to-date microbiological tests used to rapidly diagnose germs and study antimicrobial resistance.
- Training and professional development in the complex and determining pathophysiological relationships between immune response and infectious agents.
- Training and professional development in germs related to neoplasms and chronic non-communicable diseases.
- Training and professional development in the development and production of vaccines for the control of morbidity and mortality due to infectious diseases.
- Training and professional development in the important field of antimicrobial therapeutics, providing the best available information on the development and production of new antibiotics.



*Update your knowledge through the Postgraduate Certificate in Infections Caused by Occupational Accidents”*

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*This Postgraduate Certificate may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge of Infections Caused by Occupational Accidents, you will obtain a university degree from TECH Technological University”*

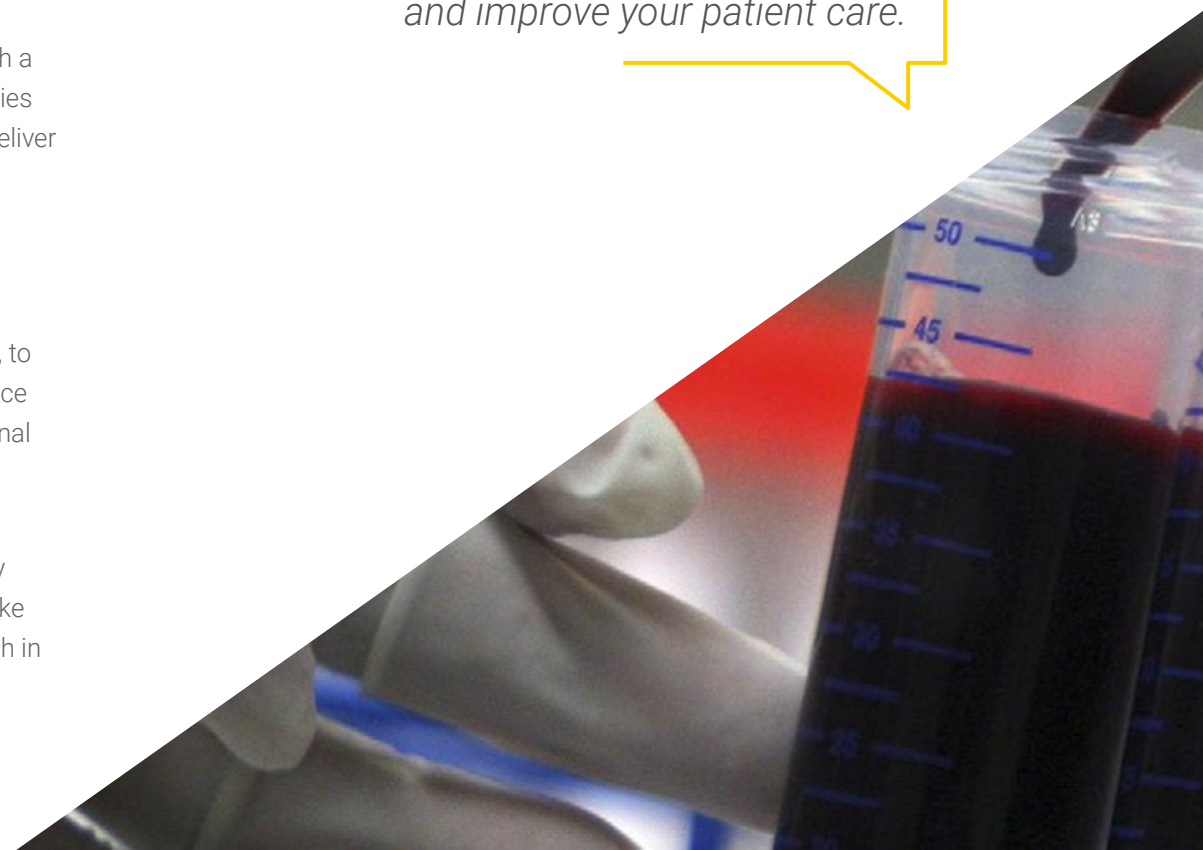
Its teaching staff is made up of prestigious and renowned Cuban professionals with a long career in health care, teaching and research, who have worked in many countries on several continents, developing professional and teaching experience that they deliver in an extraordinary way in this Postgraduate Certificate.

The methodological design of this Postgraduate Certificate, developed by a multidisciplinary team of e-learning experts, integrates the latest advances in educational technology for the creation of numerous educational multimedia tools that allow the professional, based primarily on the problem-based learning method, to address real problems in their daily clinical practice, which will allow them to advance by acquiring knowledge and developing skills that will impact their future professional work.

It should be noted that the contents generated for this Postgraduate Certificate, as well as the videos, self-evaluations, clinical cases and exams, have been thoroughly reviewed, updated, and integrated by the teachers and the team of experts that make up the working group, to facilitate the learning process with a step-by-step approach in order to achieve the teaching program objectives.

*Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.*

*Take the opportunity to learn about the latest advances in Infections Caused by Occupational Accidents and improve your patient care.*



02

# Objectives

The main objective of this Postgraduate Certificate is the improvement of health professionals, based on the acquisition of the most up-to-date and innovative scientific knowledge in the field of infectious diseases Caused by Occupational Accidents, enabling them to develop the skills that will turn their daily clinical practice into a bastion of the standards of the best scientific evidence available, with a critical, innovative, multidisciplinary and integrative focus.







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*This Postgraduate Certificate is designed to help you update your knowledge of Infections Caused by Occupational Accidents, with the use of the latest educational technology, to contribute quality and confidence to decision-making, diagnosis, treatment, and patient support.*



## General Objective

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- Guarantee professional improvement through up-to-date and in-depth knowledge of the best scientific evidence , for the prevention, diagnosis, and treatment of infectious diseases with a multidisciplinary and integrative approach that facilitates the control of these pathologies.



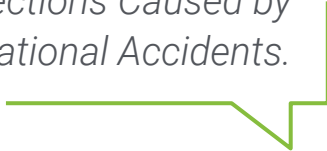


## Specific Objectives

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- ◆ Provide students with advanced, in-depth, updated, and multidisciplinary information that allows them to comprehensively approach the process of health-infectious diseases.
- ◆ Provide training and practical theoretical improvement that will enable a reliable clinical diagnosis supported by the efficient use of diagnostic methods to indicate an effective integral treatment.
- ◆ Describe the main elements that favour occupational accidents and the transmission of blood-borne pathogens.
- ◆ Substantiate the importance of the control of viral haemorrhagic diseases and the detailed study of the most frequent and deadly diseases for the reduction of morbidity and mortality worldwide.

*Update your knowledge through  
the Postgraduate Certificate  
in Infections Caused by  
Occupational Accidents.*



03

# Course Management

The program includes renowned and recognized medical specialists, who have numerous publications, teaching experience, and professional experience in countries where many of the diseases studied have a high morbimortality. The teaching staff is made up of a multidisciplinary team from various medical specialities, such as internal medicine, paediatrics, general surgery, gynaecology and obstetrics, microbiology, pathological anatomy, pharmacology, among others.



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*Learn from revered professionals the latest advances in procedures in the field of Infections Caused by Occupational Accidents.*

## Management



### Dr. Quintero Casanova, Jesús

- ♦ Degree in Medicine and Surgery from the Medical University of Havana. Cuba
- ♦ Specialist in Internal Medicine. "Héroes del Baire" Hospital
- ♦ Professional Master's Degree in Tropical Diseases and Clinical Infectious Diseases from the Pedro Kuori Institute, Havana. Cuba
- ♦ Head of the Infectious Diseases Department of the Héroes del Baire Hospital
- ♦ Member of the Cuban Society of Internal Medicine
- ♦ Member of the Cuban Society of Paediatricians
- ♦ Medical Specialist in Africa (Chad) and Venezuela in 2009, 2013-15.
- ♦ Professor on the Medicine Degree and Internal Medicine Speciality at the Faculty of Medical Sciences of Isla de la Juventud
- ♦ Main professor of the Professional Master's Degree in infectious diseases of the Faculty of Medical Sciences of the Isle of Youth.
- ♦ Member of state examining boards for the medicine degree and internal medicine
- ♦ National Research Prize in Cuba, 2002
- ♦ Medical Science Teaching Award. Cuba

## Professors

### **Dr. Batista Valladares, Adrián**

- ♦ Degree in Medicine and Surgery from the University of Havana. Cuba.
- ♦ Specialist in Family and Community Medicine.
- ♦ Master's Degree in Clinical Infectology.
- ♦ University Course in Diagnostic Ultrasound.
- ♦ University Course in Healthcare Management.
- ♦ Head of Senior Citizen Services in Isla de la Juventud. Cuba.
- ♦ Member of the Cuban Society of Family Medicine.
- ♦ Professor of the medicine and family medicine degrees at the Faculty of Medical Sciences in Isla de la Juventud.
- ♦ Professor of the Professional Master's Degree in Infectious Diseases in the Faculty of Medical Sciences in Isla de la Juventud.
- ♦ Member of state examining boards for the medicine degree and family medicine.
- ♦ Member of tribunals for national scientific events. Cuba

### **Dr. Laurence Carmenaty, Araelis**

- ♦ Professor on the Medicine Degree in the Faculty of Medical Sciences in Isla de la Juventud.
- ♦ Lic. In Microbiology from the University of Havana.
- ♦ Master's Degree in Infectious Diseases.
- ♦ Professor on the Medicine Degree in the Faculty of Medical Sciences in Isla de la Juventud.
- ♦ Member of the Cuban Society of Microbiology.
- ♦ Member of the Associations of Teachers.
- ♦ Worked in Caracas, Venezuela from 2012 to 2014.
- ♦ Participated in national and international Microbiology events in Cuba and Venezuela.

**Dr. Cantalapedra Torres, Alejandro**

- ♦ Director of the Subsidiaries of Medical Sciences in Juventud, Isla de la Juventud. Cuba.
- ♦ First Degree Specialist in Pediatrics.
- ♦ Assistant Professor of the Medical Sciences Branch in Isla de la Juventud, Cuba.
- ♦ Master's Degree in Infectious Diseases.
- ♦ Clinical Infectious Diseases Consultant at Héroes del Baire Hospital.
- ♦ University Course in Higher Medical Education from the University of Medical Sciences of Havana, Cuba.
- ♦ University Course in Management.
- ♦ Director of the Subsidiaries of Medical Sciences in Juventud, Isla de la Juventud. Cuba.

**Dr. Dávila, Henry Luis**

- ♦ Degree in Medicine and Surgery from the University of Havana. Cuba.
- ♦ Specialist in Gynecology and Obstetrics at Héroes del Baire Hospital. Cuba.
- ♦ Professional Master's Degree in Comprehensive Care for Women.
- ♦ Head of the Neck Pathology Service at Héroes del Baire Hospital.
- ♦ Member of the Cuban Society of Gynecology and Obstetrics.
- ♦ Member of the Cuban Society of Teachers.
- ♦ Medical specialist in Guatemala, 2010-12.
- ♦ Professor on the Medicine Degree in the Faculty of Medical Sciences in Isla de la Juventud.
- ♦ Member of state examining boards medicine.
- ♦ Member of tribunals for national scientific events. Cuba
- ♦ National research award. Cuba
- ♦ Medical Science Teaching Award. Cuba.

**Dr. Dranguet Bouly, José Ismael**

- ♦ Degree in Medicine and Surgery from the University of Havana. Cuba.
- ♦ Specialist in Internal Medicine and Intensive Therapy. Héroes del Baire Hospital.
- ♦ Master's Degree in Infectious Diseases from the Pedro Kouri Institute of Cuba.
- ♦ Head of the Internal Medicine Department of the Héroes del Baire Hospital.
- ♦ Member of the Cuban Society of Internal medicine and the Cuban Society of Intensive Therapy.
- ♦ Member of the Cuban Society of Teachers.
- ♦ Medical specialist in Mozambique, 2008-10.
- ♦ Professor on the Medicine Degree and Internal Medicine Specialty at the Faculty of Medical Sciences of Isla de la Juventud.
- ♦ Professor of the Professional Master's Degree in Infectious Diseases in the Faculty of Medical Sciences in Isla de la Juventud.
- ♦ Member of state examining boards for the medicine degree and internal medicine.
- ♦ Member of tribunals for national scientific events. Cuba
- ♦ Medical Science Teaching Award. Cuba.
- ♦ Professor at the Catholic University of Santiago de Guayaquil Ecuador, 2018.

**Dr. González Fiallo, Sayli**

- ♦ Degree in Hygiene and Epidemiology
- ♦ Master's Degree in Epidemiology
- ♦ Head of the Health Surveillance Department of the Health Directorate of the Isle of Youth.. Cuba



**Dr. Jiménez Valdés, Erliván**

- ♦ Degree in Medicine and Surgery from the University of Havana. Cuba.
- ♦ Pediatrician. Héroes del Baire Hospital.
- ♦ Master's Degree in comprehensive childcare.
- ♦ Member of the Cuban Society of Pediatrics.
- ♦ Professor in the Medicine Degree and Pediatrics Specialty in the Faculty of Medical Sciences in Isla de la Juventud.
- ♦ Member of tribunals for national scientific events. Cuba.
- ♦ Medical specialist in Venezuela in 2017.

**Dr. Nimo Ruiz, Yeneidis**

- ♦ Attending Physician "Hermanos Ameijeiras" General Teaching Hospital
- ♦ Attending Physician "Hermanos Ameijeiras" General Teaching Hospital
- ♦ Currently studying second year of Postgraduate Degree in Allergology.

**Dr. Pérez Suárez, Yovany**

- ♦ Degree in Medicine and Surgery from the University of Havana. Cuba.
- ♦ Specialist in Internal Medicine. Héroes del Baire Hospital.
- ♦ Master's degree in comprehensive emergency care.
- ♦ University Course in Biochemical Medicine.
- ♦ Member of the Cuban Society of Internal Medicine.
- ♦ Medical specialist in Ecuador and professor at the Secular University Eloy Alfaro of Manabí in the years 2013-2018.
- ♦ Professor on the Medicine Degree and Internal Medicine Specialty at the Faculty of Medical Sciences of Isla de la Juventud.
- ♦ Member of tribunals for national scientific events. Cuba

**Dr. Robles Martínez-Pinillos, Julio Alberto**

- ♦ 1st and 2nd Degree Specialist in Internal Medicine.
- ♦ Doctor of Medicine
- ♦ 1st and 2nd Degree Specialist in Internal Medicine.
- ♦ Master's Degree in Education.
- ♦ Internal Medicine Specialist (Itinerant Assistance Group) Head of the State Medical Commission Venezuela.
- ♦ Internal Medicine Specialist in Intergral Diagnostic Medical Center Venezuela.

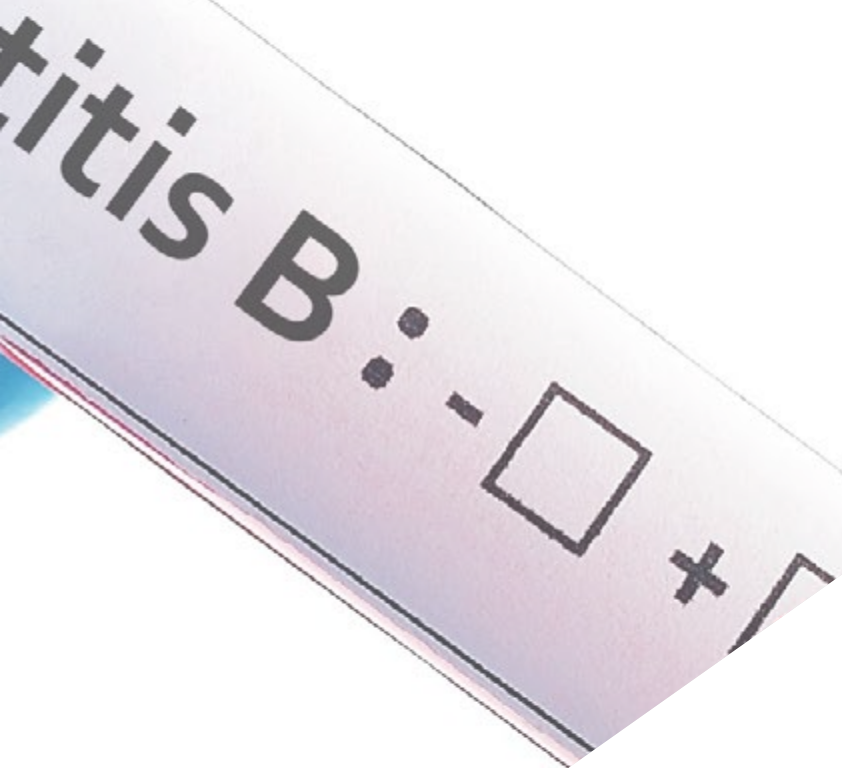
04

# Structure and Content

The teaching program has been created to provide healthcare professionals with the necessary tools for daily practice in the treatment of infections. Thus, the content of this Postgraduate Certificate comprises the most updated syllabus on the market, which has been developed by leading experts in the field at the international level, with the aim of making specialists more accurate in the diagnosis and treatment of this type of infections.

A close-up photograph of a hand wearing a blue nitrile glove, holding a white cylindrical object, likely a medical device or a tube. The word 'Hepat' is printed in black on the white surface. The background is a soft, out-of-focus blue and white gradient. The image is partially obscured by a dark blue diagonal shape in the bottom left corner.

Hepat



Hepatitis B:  +

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*This Postgraduate Certificate in Infections Caused by Occupational Accidents contains the most complete and up-to-date scientific program on the market.*

## Module 1. Occupational Accident and Blood-borne Pathogens

- 1.1. Epidemiology of Blood Borne Pathogen Infections
- 1.2. Main Blood-Borne Infections
  - 1.2.1. Hepatitis B Virus Infection
  - 1.2.2. Hepatitis C Virus Infection
  - 1.2.3. HIV/AIDS
- 1.3. Diagnostic and Therapeutic approach to Accidents Involving Blood
  - 1.3.1. Diagnostic Follow-up of Cases
  - 1.3.2. Treatment
- 1.4. Universal Precautions in the Prevention of Accidents in the Workplace
- 1.5. Biosafety Measures and the Role of the Epidemiologist in Reducing Biohazards
  - 1.5.1. Biological Risk
  - 1.5.2. Biosafety
  - 1.5.3. Biosecurity Plans for Biological Protection





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*A unique, key, and decisive  
Training experience to boost your  
professional development.*

05

# Methodology

Our **Postgraduate Certificate in Infections Caused by Occupational Accidents** offers you an innovative method to strengthen your clinical skills based on the study of clinical cases and content in a cyclical manner. This method has been the most widely used learning system by the most prestigious medical schools in the world and by relevant publications such as the New England Journal of Medicine.



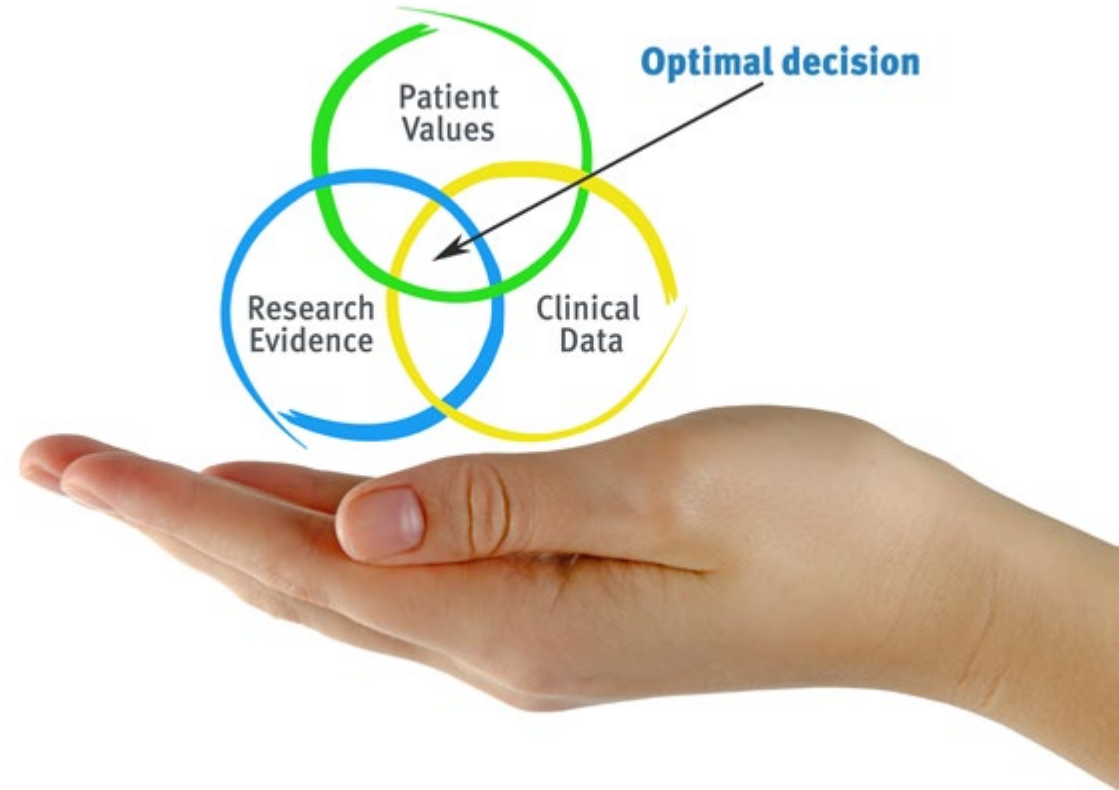
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*This type of teaching-learning encourages curiosity and skill development, as well as allowing physicians to feel they are an active part of the process.*

In a given situation, what would you do? Throughout these months, the Doctor will face multiple simulated clinical cases based on real patients in which they will have to investigate, establish hypotheses and, finally, resolve the situation. This method allows physicians to improve their learning as they accept more responsibility and get closer to the reality of their professional future.



*Did you know that this method was developed in 1912 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"*



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.

*It is a technique that develops critical skills and prepares the doctor to make decisions, defend their arguments, and contrast opinions.*



According to Reynolds, there are four fundamental reasons that support the effectiveness of the case method applicable to Medicine:

**01**

**Physicians develop their mental abilities best by evaluating real situations and applying concepts.**

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**02**

**Physicians will be better prepared for the development of their professional activity.**

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**03**

**Ideas and concepts are better assimilated when they are analyzed in situations that have arisen from reality.**

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**04**

**Physicians voluntarily devote more time to work because they find working with real cases more interesting.**

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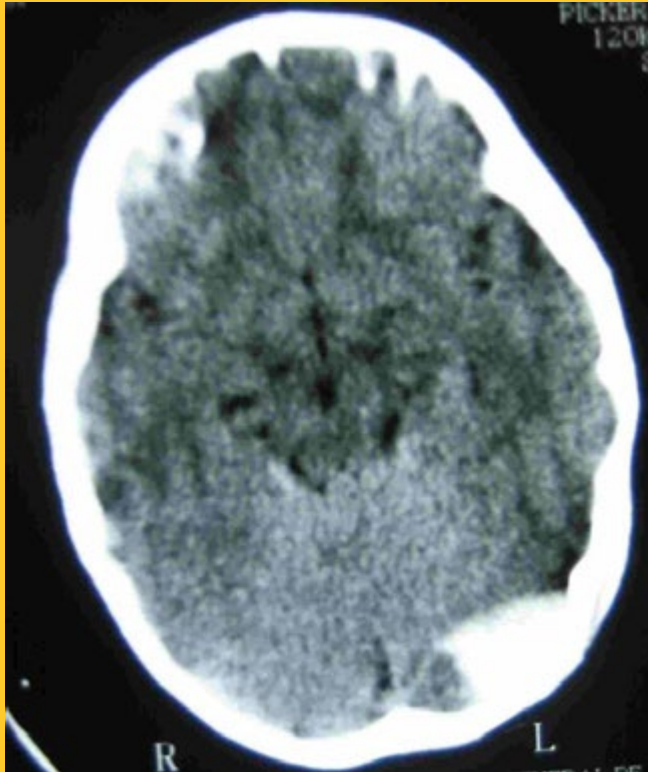


*The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

*...we enhance them with the best 100% online teaching method: Relearning...*

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 8 different elements in each lesson, which represent a revolution with respect to simply studying and analyzing cases.





This methodology, at the forefront of world teaching, is called Re-learning. Our school is the first in Spanish-speaking countries licensed to use this successful method, having achieved in 2015 improvement in overall satisfaction levels (teaching quality, quality of materials, course structure, and objectives) of the physicians who complete the Postgraduate Certificates with respect to the indicators of the best online university in Spanish-speaking countries.

*The overall score obtained by our learning system is 8.01, according to the highest international standards.*

In our **Postgraduate Certificate in Infections Caused by Occupational Accidents** learning is not a linear process, but happens in a spiral (we learn-unlearn (forget) and relearn); that is why we combine each of these elements in a concentric way.

Using this methodology, we have trained more than 40,000 physicians with unprecedented success, in areas such as pediatrics, surgery, infectious diseases, hepatology, etc. All this in a highly demanding environment, with a university student body belonging to a high socioeconomic profile and an average age of 42 years.

*... and all this with the best learning materials at the forefront of technology and pedagogy...*

In this Postgraduate Certificate you will have access to the best educational material, prepared with you in mind:



### Study Material

After a complex production process, we transform the best content into high-quality educational and audiovisual multimedia. We select the best syllabus and make it available to you. Everything you need to acquire in-depth knowledge of a discipline, from A to Z. Lessons written and chosen by specialists in each of the disciplines.



### Surgical techniques and clinical procedures on video

We bring you closer to the newest techniques, to the latest scientific advances, and to the forefront of medical news. 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.



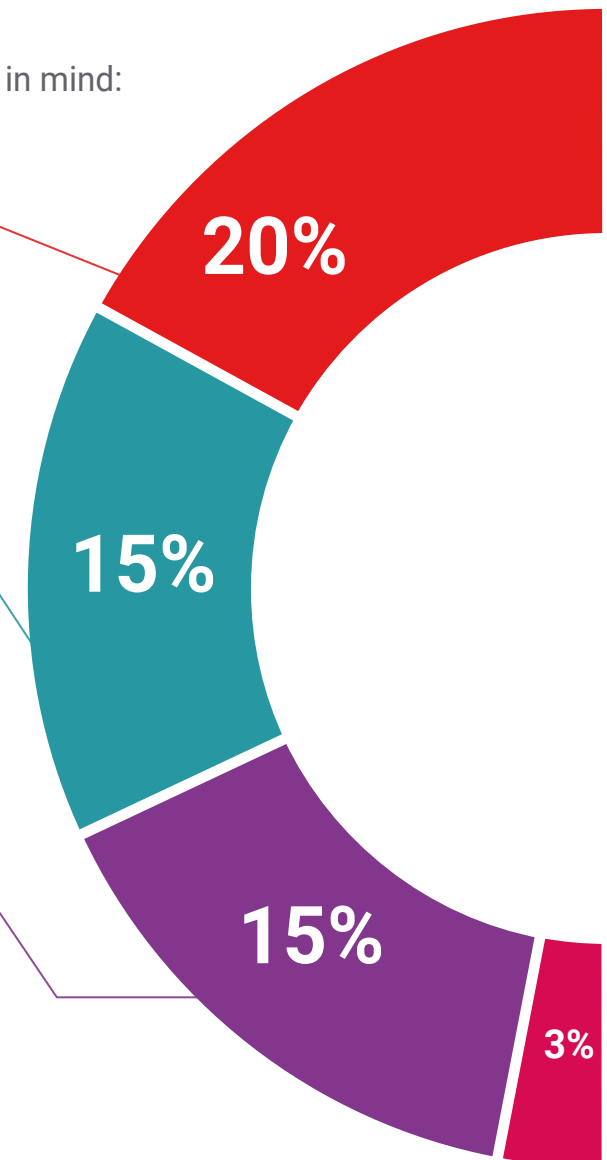
### Interactive Summaries

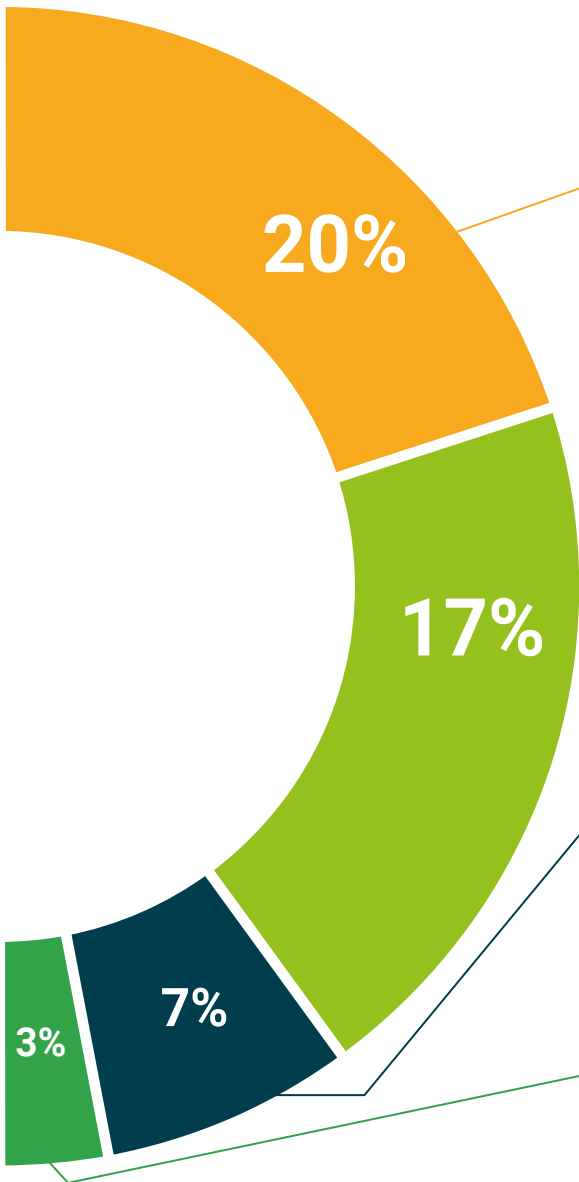
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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

Through the narratives of expert professionals, it is possible to acquire a high degree of understanding of the most frequent problematic situations. The professional's healthcare practice is not alien to the context in which it takes place. If we want to train ourselves to improve our professional practice, this training must be situated within the context in which it takes place.



#### Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout this program through activities and evaluative exercises.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful. Learning from an expert strengthens knowledge and recall, and generates confidence in our future difficult decisions.



#### Quick Action Guides

One of the most important functions of our team is to select those contents considered essential and present them in the form of worksheets or quick action guides to facilitate their understanding.



06

# Certificate

The Postgraduate Certificate in Infections Caused by Occupational Accidents guarantees, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Infections Caused by Occupational Accidents** contains the most complete and up-to-date scientific program on the market.

After students have passed the assessments, they will receive by certified mail their **Postgraduate Certificate** issued by TECH Technological University.

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 professionals career evaluation committees.

Title: **Postgraduate Certificate in Infections Caused by Occupational Accidents**

Official Number of Hours: **75**



\*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  
development languages  
virtual classroom



## Postgraduate Certificate Infections Caused by Occupational Accidents

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

# Postgraduate Certificate

## Infections Caused by Occupational Accidents

