

Postgraduate Certificate

Tropical Bacterial Diseases





tech technological
university

Postgraduate Certificate Tropical Bacterial Diseases

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

6 ECTS Credits

Teaching Hours: 150 hours.

Website: www.techtitute.com/medicine/postgraduate-certificate/tropical-bacterial-diseases

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01

Introduction

As a result of globalization, people no longer suffer from diseases specific to their area, but from global pathologies whose repercussions depend to a large extent on the medical-health development of each region. The fact is that the population travels and with it the bacteria, which move from one continent to another at great speed. The approach to the diseases created by these external bacterial groups requires the professional to have an updated view, which is the basis of this **Postgraduate Certificate**, created to give the physician the possibility of increasing and updating his knowledge in this complex area of intervention, in just a few months of intensive and effective training.





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If you are looking to specialize in tropical bacterial diseases, this Postgraduate Certificate is for you"

Tropical diseases are those infections that mainly affect regions that have a warm and humid climate, and which are usually developing economically, socially and in terms of health. Its transmission by travelers must be controlled to prevent its spread, so its diagnosis is key to prevent its spread, as it can have fatal consequences at pandemic levels.

Similarly, global warming has allowed mosquitoes, ticks and other insects carrying viruses or bacteria to proliferate, adapt to different seasons and invade new territories across Europe over the last decade. Outbreaks of dengue fever have been reported in France and Croatia, malaria in Greece, West Nile fever in South-East Europe, and Chikungunya virus in Italy and France. Therefore, further research into a global immune response is needed.

Therefore, a specialization such as this **Postgraduate Certificate on Tropical Bacterial Diseases** is necessary to focus on research and the development of responses to prevent contagion. Thus, the student who attends this program will acquire the knowledge, protocols and skills necessary for the detection, diagnosis and treatment of this type of pathologies.

In addition, it is a 100% online program that provides the student with the ease of being able to study it comfortably, wherever and whenever he/she wants. You will only need a device with internet access to move one step further in your academic career. A modality according to the current times with all the guarantees to position the professional in a booming sector.

This **Postgraduate Certificate in Tropical Bacterial Diseases** is the most comprehensive and up-to-date educational program on the market. The most important features of the program include:

- ◆ The latest technology in online teaching software
- ◆ A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ◆ Practical cases presented by practising experts
- ◆ State-of-the-art interactive video systems.
- ◆ Teaching supported by telepractice
- ◆ Continuous updating and recycling systems
- ◆ Autonomous learning: full compatibility with other occupations
- ◆ Practical exercises for self-evaluation and learning verification
- ◆ Support groups and educational synergies: questions to the expert, debate and knowledge forums.
- ◆ Communication with the teacher and individual reflection work
- ◆ Availability of content from any fixed or portable device with internet connection
- ◆ Supplementary documentation databases are permanently available, even after the course



TECH Technological University offers you the opportunity to take this program in a comfortable way, being 100% online and without strict schedules"

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TECH Technological University offers you a Postgraduate Certificate with a multidisciplinary and integrative approach that facilitates the control and prevention of this type of pathologies”

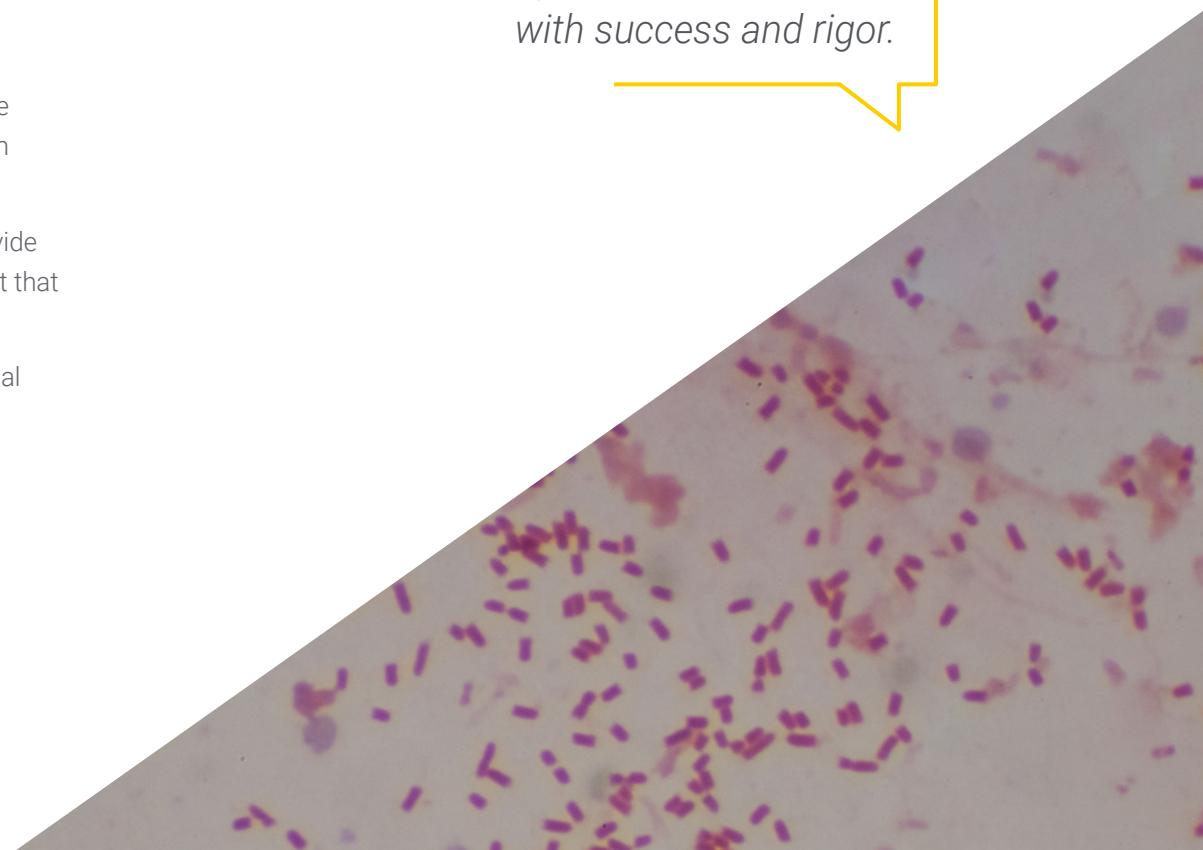
The program’s teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 training programmed to train 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 professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

The prevention, diagnosis and treatment of tropical bacterial diseases is key to global health and is a growing field of study.

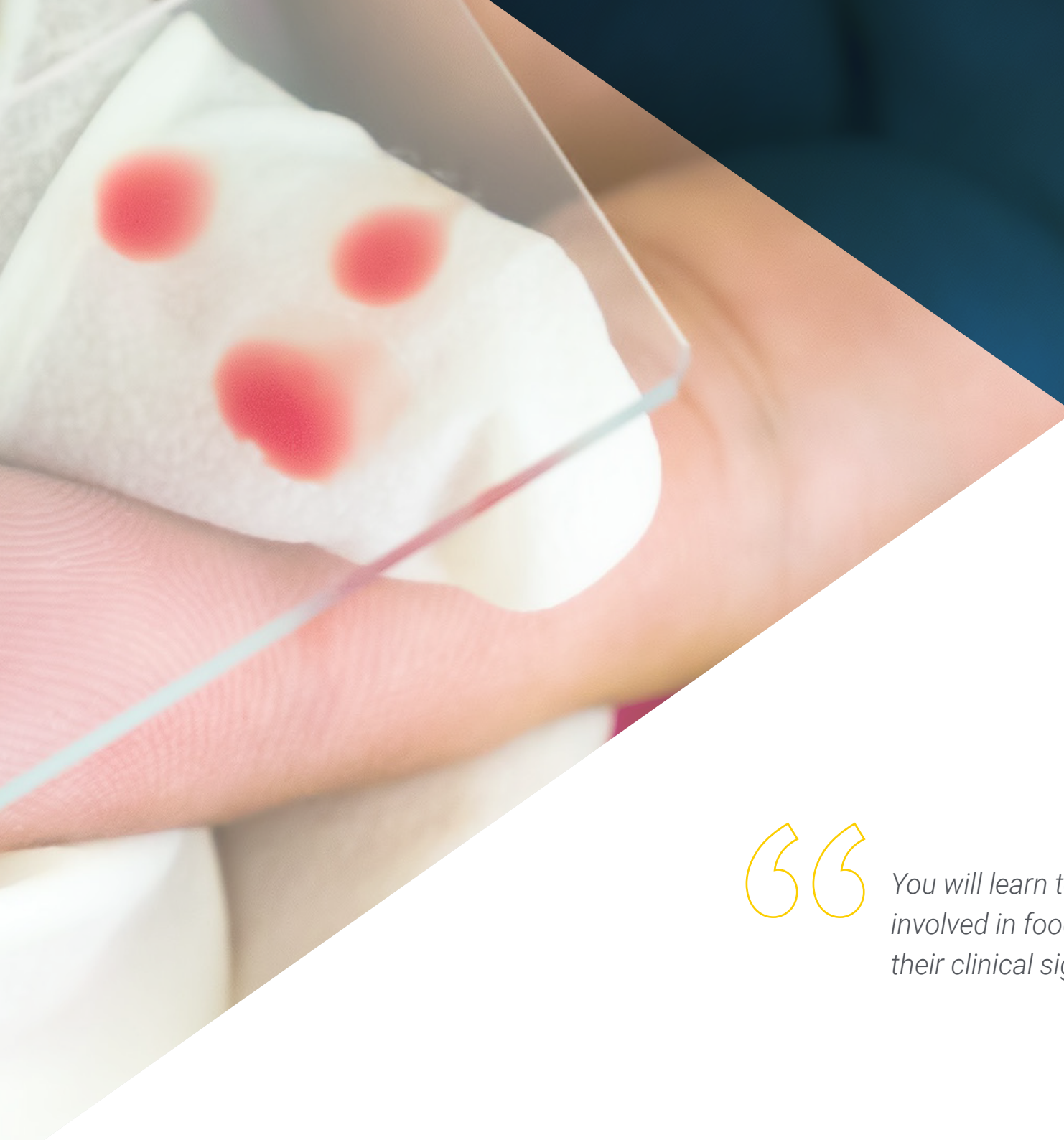
You will be able to expose the crucial topic of super-resistant microbes and their relationship to antimicrobial use with success and rigor.



02 Objectives

The design of this **Postgraduate Certificate** will allow students to acquire the necessary skills to update and deepen their knowledge in the field of tropical diseases of bacterial origin. Thus, **TECH Technological University** provides the tools for the training of the student in this medical sector, focusing on the symptoms that the patient may develop so that it can be diagnosed and addressed correctly, investigating the focus to prevent its transmission. In this way, the development of the study plan elaborated by the best experts will allow students to achieve the proposed objectives, guiding them towards excellence in their profession.





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You will learn to identify the main germs involved in foodborne infections, as well as their clinical significance in tropical regions"

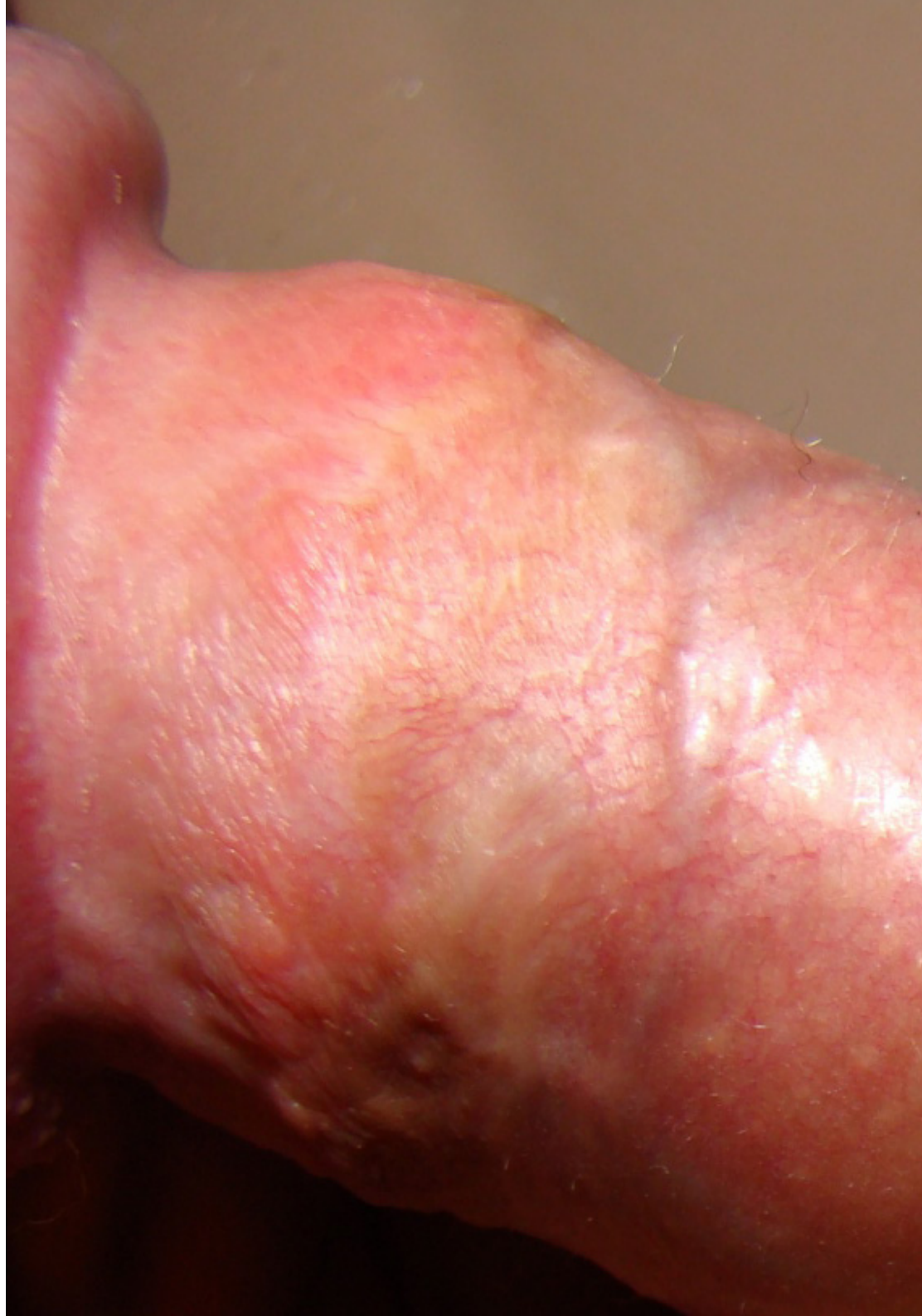


General Objective

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



Focus on your future and set yourself the goal of passing this program with great job prospects"





Specific Objectives

- ◆ To raise the crucial issue of super-resistant microbes and their relationship to the use of antimicrobials.
- ◆ Identify the main germs involved in foodborne infections and their clinical significance in tropical regions.



03

Course Management

This **Postgraduate Certificate** has prestigious teachers and renowned medical specialists whose extensive professional experience in tropical bacterial diseases have contributed to the development of this curriculum, bringing quality and excellence to the degree. It is a multidisciplinary team of teachers from various medical specialties involved in the care of patients affected after international travel, the main focus of these pathologies. All this results in a new and updated syllabus, which includes the essential knowledge on the approach to the associated symptoms.





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*Bet on excellence, bet on this
Postgraduate Certificate”*

International Guest Director

Dr. Daniel Caplivski is a leading specialist in Infectious Diseases with an extensive international clinical and academic career. As such, he has held high-ranking positions such as Director of the Travel Medicine Program at the Icahn School of Medicine, Mount Sinai Hospital, New York.

This outstanding professional has been recognized for his focus on Tropical and Travel Medicine, helping to prepare adults traveling to countries where Infectious Diseases, such as Malaria, Dengue and Yellow Fever, are common. He also has extensive experience in the application of vaccines of importance to travelers, such as Hepatitis, Tetanus and Japanese Encephalitis. In this regard, among his conscientious training, it is worth mentioning the prestigious Gorgas Postgraduate Certificate in Clinical Tropical Medicine, in Peru, a specialization in the diagnosis and treatment of diseases acquired abroad.

Likewise, throughout his career, Dr. Daniel Caplivski has been recognized for his medical excellence. So much so, that he has been included in the list of the Best Doctors in the New York Metropolitan Area, every year since 2013, by the publishing organization Castle Connolly, as well as in New York Magazine's Best Doctors list, since 2015. Likewise, among his numerous awards, the Physician Communication Excellence Award stands out, in addition to having been recognized as one of America's Most Honored Doctors.

In short, he has been a reference in the research, diagnosis and treatment of rare and complex infections, contributing to the field of Infectious Diseases at a global level. His dedication and commitment to his patients have positioned him as one of the most recommended and respected physicians in his field.



Dr. Caplivski, Daniel

- Director of the Travel Medicine Program at Mount Sinai Hospital, New York, USA
- Physician at Mount Sinai Hospital, New York
- Gorgas Postgraduate Certificate in Clinical Tropical Medicine, Peru
- Specialist in Internal Medicine and Infectious Diseases at Mount Sinai Hospital, Mount Sinai, New York
- Doctor of Medicine, Yale University
- B.A. in History and Literature from Harvard University

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

Management



Dr. Díaz Menéndez, Marta

- ◆ Specialist in Internal Medicine in the Department of Infectious/Tropical Medicine at Carlos III-La Paz Hospital.
- ◆ Degree in Medicine and Surgery from the University of Alcalá de Henares
- ◆ Specialty in Internal Medicine at La Paz University Hospital, Madrid.
- ◆ Doctorate in Medicine from the Autonomous University Madrid
- ◆ Teaching placements in Equatorial Guinea and Ethiopia as complementary training in tropical medicine.
- ◆ Master's Degree in HIV Infection at the Rey Juan Carlos University
- ◆ Diploma in Nursing from the Autonomous University of Madrid.

Professors

Dra. de Miguel Buckley, Rosa

- ◆ F.E.A. Internal Medicine- Infectious Diseases Unit/ HIV Unit/Tropical and Travel Medicine Unit. La Paz University Hospital (Madrid)
- ◆ Degree in Medicine, University of Seville
- ◆ Medical Elective in the Digestive Service, Hepatology Section, at Cork University Hospital
- ◆ Professional Exchange of the International Federation of Medical Students' Associations, Cardiology Department, en The Medical University of Bialystok Clinical Hospital
- ◆ Collaborator in Health Research Fund (FIS) projects.
- ◆ Collaborating researcher in clinical trials TANGO, SALSA (multicenter, simplification of antiretroviral treatment), Hospital registry of patients affected by bacterial resistance (SEIMC).

Dr. Arsuaga Vicente, Marta

- ◆ F.E.A. Tropical Medicine and Travel Medicine Unit at La Paz University Hospital
- ◆ Degree in Medicine and Surgery from the University of Alcalá de Henares.
- ◆ Doctorate in Medicine from the Autonomous University Madrid
- ◆ Specialist in Internal Medicine from the Autonomous University Madrid
- ◆ Master's Degree in Tropical Medicine and International Health from the AUM
- ◆ Expert in Emerging Viruses from UAN

Dr. Untoria Tabares, Yeray

- ◆ Resident Intern, Internal Medicine La Paz University Hospital - Madrid
- ◆ Degree in Medicine from the Complutense University of Madrid.
- ◆ Master's Degree in Clinical Medicine from the Camilo José Cela University
- ◆ Master's Degree in Infectious Diseases and Antimicrobial Treatment from CEU Cardenal Herrera University.
- ◆ Specialist Diploma in Microbiological Diagnosis, Antimicrobial Treatment and Research in Infectious Pathology from CEU Cardenal Herrera University
- ◆ Specialist Diploma in Community and Nosocomial Infections from CEU Cardenal Herrera University
- ◆ Specialist Diploma in Chronic Infectious Diseases and Imported Infections from CEU Cardenal Herrera University

Dr. Trigo Esteban, Elena

- ◆ Physician in the Department of Tropical and Traveler's Diseases at the Carlos III Hospital La Paz.
- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid
- ◆ Master's Degree in Tropical and Health Medicine from the Autonomous University of Madrid
- ◆ Degree in Emerging Viruses from the Autonomous University of Madrid.
- ◆ Course in Tropical and Infectious Diseases by the Oswaldo Cruz Foundation. Evandro Chagas Clinical Research Institute

Falces Romero, Iker

- ◆ Specialist in the Microbiology and Parasitology Department at La Paz University Hospital.
- ◆ Degree in Pharmacy from the University of Salamanca
- ◆ Master in Tropical Diseases from the University of Salamanca
- ◆ Professor of Special Microbiology on the Degree in Medicine at the Autonomous University of Madrid.

De la Calle Prieto, Fernando

- ◆ Physician in the Tropical and Travel Medicine Unit of the Carlos III-La Paz Hospital
- ◆ Collaborating physician in the Department of Internal Medicine, Faculty of Medicine, Complutense University of Madrid.
- ◆ Degree in Medicine and Surgery from the University of Alcalá de Henares
- ◆ Master's Degree in Tropical Medicine and International Health from the Autonomous University of Madrid

Dr. Arribas López, José Ramón

- ◆ Head of the Infectious Diseases Department at La Paz University Hospital.
- ◆ Coordinator of the High-Level Isolation Unit La Paz - Carlos III Hospital
- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid
- ◆ Doctorate in Medicine from the Autonomous University Madrid





Dr. Marcelo Calvo, Cristina

- ◆ F.E.A. of Internal Medicine at La Paz University Hospital
- ◆ Degree in Medicine and Surgery from the University of Alcalá.
- ◆ Master's Degree in Infectious Diseases and Microbiological Diagnosis from CEU Cardenal Herrera University.
- ◆ Master's Degree in Integration and Clinical Problem Solving in Medicine from the University of Alcalá, Spain.
- ◆ Expert in community and nosocomial infections from the CEU Cardenal Herrera University
- ◆ Specialist Diploma in chronic infectious pathologies and imported infections from CEU Cardenal Herrera University

Dr. Díaz Pollán, Beatriz

- ◆ Specialist in the area of Infectious Diseases at La Paz University Hospital.
- ◆ 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.
- ◆ Specialist Diploma in community and nosocomial infections from the CEU Cardenal Herrera University
- ◆ Specialist Diploma in Microbiological Diagnosis, Antimicrobial Treatment and Research in Infectious Pathology from CEU Cardenal Herrera University
- ◆ Specialist Diploma in chronic infectious pathologies and imported infections from CEU Cardenal Herrera University

04

Structure and Content

The content of this **Postgraduate Certificate** has been designed with a focus on tropical bacterial diseases, an essential aspect nowadays. The symptomatology of typhoid fever, which can lead to cholera, recurrent fever and how to associate it with a tropical bacterial infection, or diseases such as meningitis, tuberculosis, plague or leprosy are studied in detail. A section on STIs in the tropics is also included. Thus, a curriculum has been established that offers a broad perspective of the most frequent pathologies of this type, from a medical and sociocultural point of view, incorporating all the fields of work that intervene in the development of the professional's functions in this field.





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You will learn the types of fever related to tropical bacterial diseases, such as typhoid fever or Lyme disease”

Module 1. Tropical Bacterial Diseases

- 1.1. Typhoid Fever. Bacterial Diarrhea: Cholera, Shigella, and Campylobacter
- 1.2. Relapsing Fever (Borreliosis), Meliodosis, Bartholomosis
- 1.3. Leptospirosis.
- 1.4. Bacterial Meningitis in the Tropics
- 1.5. Rickettsiosis
- 1.6. Endemic Treponematosi
- 1.7. Tuberculosis and Buruli Ulcer
- 1.8. Plague: Historical Overview and Current Situation
- 1.9. Leprosy: Historical Overview and Current Situation
- 1.10. Sexually Transmitted Infections in the Tropics





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You will delve into sexually transmitted infections in the tropics and their consequences”

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. Gervas, 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 Tropical Bacterial Diseases** guarantees you, in addition to the most rigorous and updated training, access to a Certificate issued by **TECH Technological University**.



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Successfully complete this Postgraduate Certificate and receive your university certificate without travel or laborious paperwork"

This **Postgraduate Certificate in Tropical Bacterial Diseases** is the most comprehensive and up-to-date educational program on the market.

After the student has passed the evaluations, they will receive by mail with acknowledgment of receipt his/her corresponding **Postgraduate Certificate** issued by **TECH Technological University**.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the course, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional from career evaluation committees.

Title: **Postgraduate Certificate in Tropical Bacterial Diseases**

ECTS: **6**

Official Number of Hours: **150**



*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 quality
development languages
virtual classroom



Postgraduate Certificate
Tropical Bacterial
Diseases

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

6 ECTS Credits

Teaching Hours: **150 hours.**

Postgraduate Certificate Tropical Bacterial Diseases

