

# Professional Master's Degree Advances in Tropical Diseases





## Professional Master's Degree Advances in Tropical Diseases

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Credits: 60 ECTS
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/medicine/professional-masters-degree/advances-tropical-diseases](http://www.techtitute.com/us/medicine/professional-masters-degree/advances-tropical-diseases)

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# 01

# Introduction

Globalization and the frequency of international travel have increased exponentially in recent years, creating a new scenario in which Tropical Diseases have become much more common in the medical professional's practice. Vaccination is an indispensable prophylaxis measure, but it is not enough: foreign parasites, viruses, and bacteria cross continents, putting doctors' knowledge and skills to the test. This 100% online degree has been created to address this problem, providing the health professional with the latest advances in this field. This will allow students to access new content in the future challenges in patient care in cases of infections and resistance to some treatments





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*In a globalized world, tropical diseases are on the rise. Immerse yourself in this Professional Master's Degree in the most advanced and current knowledge in this area”*

The movement of people around the world and global warming have caused insects such as mosquitoes and ticks to proliferate by adapting to different seasons. Likewise, in recent years there have been outbreaks of Dengue or Nile fever in Western countries that had hardly any cases of this type of tropical disease

The increase in infections, as well as the coronavirus pandemic, have put the international spotlight on the relevance of research and health safety in these situations. In this scenario, this Professional Master's Degree was created to provide the medical professional with the latest knowledge in this area. To this end, students who take this degree will have a specialized teaching team with extensive experience in the approach and study of Tropical Diseases

A program that uses innovative multimedia didactic material, with which the professional will be able to delve into the most recent advances in microbiology, genetics and immunology of Tropical Diseases or the future challenges in the prevention, diagnosis and therapy of coronavirus infections. In addition, this degree will allow you to be updated on giardiasis and other infections by intestinal protozoa in the tropics or the challenge of health professionals in the face of neglected Tropical Diseases

Medical personnel are offered an advanced yet flexible university education that allows them to update their knowledge without neglecting other professional and personal responsibilities. Students only need a device with an Internet connection to access the complete syllabus at any time. In a comfortable way, therefore, the specialist will be able to keep informed about the latest developments in Tropical Diseases

This **Professional Master's Degree in Advances in Tropical Diseases** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in Tropical 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



*A specialized team will guide you for 12 months to provide you with the most up current knowledge on the management of patients with Tropical Diseases"*

“

*The proliferation of diseases such as the Zika virus, Dengue or coronaviruses have put the scientific community on alert. On this program, you will gain in-depth knowledge of the latest advances in this field”*

*With this Professional Master's Degree, you will have access to the most rigorous content on parasitic diseases and the vaccine development to counter them*

*Get an upgrade of your knowledge whenever and wherever you want. This is a flexible program that does not require attendance, fixed classes or schedules*

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

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive education programmed to prepare 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 throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned medical experts



# 02

# Objectives

The syllabus of this Professional Master's Degree has been designed with the main objective of ensuring that the medical professional obtains the most relevant and recent scientific information in the field of Tropical Diseases. For this purpose, TECH provides the necessary educational tools to achieve these goals in a more visual and dynamic way







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*This academic option provides you with the most advanced information on tropical pathology and the development of vaccines to deal with Tropical Diseases"*



## General Objective

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- ♦ Guarantee the professional improvement through the current and deep knowledge of the best scientific evidence for the prevention, diagnosis and treatment of Tropical Diseases, with a multidisciplinary and integrative approach that facilitates the control of these pathologies



*TECH employs the latest technology applied to academic teaching so you can benefit from a more successful knowledge update”*



## Specific Objectives

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### Module 1. Tropical Pathology and International Health

- ♦ Provide students with advanced, in-depth, updated, and multidisciplinary information that allows them to comprehensively approach the process of health-infectious diseases
- ♦ Create skills for the implementation of prophylactic plans for the prevention of Tropical Diseases
- ♦ Emphasize the future challenges of tropical medicine in reducing morbidity and mortality from tropical diseases and in international health
- ♦ Address the important role of microbiology and the infectologist in the control of Tropical Diseases

### Module 2. Microbiology, Genetics and Immunology of Tropical Diseases

- ♦ Deepen microbiological, genetic and immunological research in Tropical Diseases
- ♦ Highlight the development of vaccines for Tropical Diseases
- ♦ Emphasise the development of future antibiotics and other therapeutic modalities for infectious diseases

### Module 3. Tropical Viral Diseases I

- ♦ Assess and interpret the epidemiological, climatological, social, cultural, and sanitary characteristics and conditions of tropical countries that are conducive to the emergence and development of infectious diseases and their spread to other regions
- ♦ Support the importance in the control of viral hemorrhagic diseases and the detailed study of the most frequent and deadly diseases for the reduction of global morbimortality in tropical countries

**Module 4. Tropical Viral Diseases II**

- ♦ Address in detail and in depth the most current scientific evidence in the vast world of vector control and Tropical Viral Diseases
- ♦ Explain the pathogenic mechanisms and the most frequent neoplasms associated with infectious agents in the tropics
- ♦ Master the epidemiology of tropical diseases

**Module 5. Bacterial Tropical Diseases**

- ♦ Expose the crucial topic of super-resistant microbes and their relationship with the use of antimicrobials
- ♦ Identify the main germs involved in foodborne infections and their clinical significance in tropical regions
- ♦ Master the most modern methods for the prevention of bacterial meningitis in the tropics
- ♦ Analyze the particularities of sexually transmitted infections in tropical areas

**Module 6. Tropical Fungal Diseases**

- ♦ Explain the mycoses with the highest morbimortality in tropical regions
- ♦ Deepen in the main characteristics of paracoccidioidomycosis and coccidioidomycosis
- ♦ Manage the latest diagnostic and therapeutic methods for Blastomycosis and Cryptococcosis
- ♦ Apply the most advanced treatment for the patient suffering from Candidiasis

**Module 7. Parasitic Diseases**

- ♦ Delve into the study of the most important parasitosis and neglected diseases in tropical regions
- ♦ Highlight the role of Zoonoses as an important global health problem in tropical regions

**Module 8. Vector-Transmitted Parasitic Diseases**

- ♦ Explain the clinical, diagnostic and treatment elements of Neglected Tropical Diseases
- ♦ Identify the main methods available for the treatment of Malaria
- ♦ Delve into the problems caused by Chagas disease at present
- ♦ Highlight the role of vector control and clinical epidemiological study of arbovirosis

**Module 9. Non-Vector Parasitic Diseases**

- ♦ Explain the epidemiology, microbiology and clinical picture of non-vectorial parasitic diseases
- ♦ Describe the diagnosis and treatment of non-vectorial parasitic diseases
- ♦ Master the approach to Schistosomiasis or Amebiasis
- ♦ Delve into the most sophisticated procedures for the management of Giardiasis or Geohelminthiasis

**Module 10. Travel Medicine and International Health**

- ♦ Provide practical theoretical education and development that allows the execution of a clinical diagnosis of certainty supported by the efficient use of diagnostic methods to indicate an effective integral therapy
- ♦ To highlight the importance of morbidity and mortality from infections in the international traveller
- ♦ Explain the complex interrelationships between etiological germs and risk factors for the acquisition of these diseases

# 03 Skills

This Professional Master's Degree includes simulations of clinical cases that will be of great practical use for the medical professional seeking to update their knowledge. This, together with the theoretical framework, will be of great help to enhance their skills and abilities in the diagnosis and intervention of patients with Tropical Diseases







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*You are in front of an educational program that uses the Relearning system, which will save you long hours of study”*



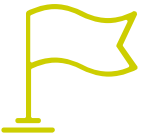
## General Skills

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- ♦ Increase their diagnostic and therapeutic capabilities for Tropical Diseases and the health care of their patients with infectious diseases in general, through the in-depth study of the epidemiological, clinical, pathophysiological, diagnostic and therapeutic elements of these diseases
- ♦ Improve skills to manage, advise or lead multidisciplinary teams for the study of Tropical Diseases and international health in communities or individual patients, as well as in scientific research teams
- ♦ Develop skills for self-improvement, in addition to being able to provide training and professional improvement activities due to the high level of scientific and professional preparation acquired with this program
- ♦ Educate the population in the field of tropical infectious diseases, allowing to acquire and develop a culture of prevention in the population, based on healthy lifestyles
- ♦ Perform outpatient or inpatient care activities in tropical and travel medicine
- ♦ Rehabilitation care for patients with sequelae of tropical diseases
- ♦ Epidemiology activities related to the surveillance and control of tropical diseases and their impact on the population
- ♦ Specialized nursing care to people with Tropical Diseases
- ♦ Direct and lead scientific research projects in the field of tropical medicine
- ♦ Serve as a consultant or coordinator of health programs in the field of tropical medicine
- ♦ Perform as a graduate expert in the diagnosis of Tropical Diseases
- ♦ Work in the dispensing, control or supply of antimicrobial drugs for Tropical Diseases
- ♦ Perform and conduct training and development activities in the field of Tropical Diseases and international health
- ♦ Collect, classify, disseminate, and manage scientific information for professionals working in the area of tropical medicine and international health



*This program is designed so that you can comfortably learn about the diagnosis of Tropical Diseases from your computer"*



## Specific Skills

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- ♦ Master the biological, epidemiological and social determinants that favor the development of tropical diseases and their impact on morbidity and mortality rates
- ♦ Identify and analyze the latest scientific information in tropical medicine and international health in order to design plans and programs to control them
- ♦ Apply existing control measures to prevent the transmission of these diseases between countries in real and/or simulated situations
- ♦ Evaluate the epidemiological aspects related to Tropical Diseases allowing to exercise actions for their control in the community, in real and/or modeled conditions
- ♦ Identify in a timely manner the appearance of new diseases or the rise of emerging or re-emerging diseases, based on the application of the scientific method of the profession
- ♦ Establish timely diagnoses of the most frequent or new tropical infections based on clinical manifestations for their correct treatment, rehabilitation, and control
- ♦ Justify the importance of vaccination as an important public health measure for the control of Tropical Diseases, and in international travelers
- ♦ Identify the occupational, social and environmental risk factors that favor the development of these tropical diseases in the community
- ♦ Apply prevention and control measures to reduce morbidity and mortality caused by these pathologies in tropical regions and regions where they have spread
- ♦ Master the clinical, epidemiological, diagnostic, and therapeutic elements for the main epidemiological threats in the world population and tropical regions, such as Arbovirosis, HIV/AIDS infection, parasitosis, TB, and hemorrhagic diseases
- ♦ Educate the community in the prevention of the process of infection-disease
- ♦ Identify the fundamental aspects of the pathogenesis and the main clinical features of the diseases studied
- ♦ Stop the progression of antibiotic resistance, based on rational therapeutics and supported by the best scientific evidence
- ♦ Develop skills to provide care for international travelers, based on the mastery of the main risks and diseases in this vulnerable group
- ♦ Correctly use and interpret all microbiological studies and other diagnostic resources in patient care

04

# Course Management

TECH has brought together in this university degree a multidisciplinary teaching team, which will contribute its extensive knowledge on Tropical Diseases from the fields of Medicine, Surgery, Microbiology, Pathological Anatomy and Pharmacy. Likewise, students will have access to this group of professionals to resolve any doubts that may arise about the syllabus throughout the 12 months this online program lasts







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*A multidisciplinary faculty will be in charge of bringing to this degree the information on the progression of antibiotic resistance”*

## 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

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- 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 expert in Tropical Diseases
- ◆ Specialist in Internal Medicine at the High Level Isolation Unit of the Hospital La Paz-Carlos III
- ◆ Specialist in Internal Medicine at the Tropical and Travel Medicine Unit, Hospital La Paz-Carlos III
- ◆ Assistant Physician in the Infectious Diseases Service of the Ramón and Cajal Hospital
- ◆ Physician in the Internal Medicine Service of the Santa Cristina Hospital
- ◆ Author of numerous scientific publications
- ◆ Lecturer in courses on infectious diseases and tropical pathology
- ◆ Doctorate in Medicine from the Autonomous University Madrid
- ◆ Master's degree in HIV Infection at the Rey Juan Carlos University



## Professors

### **Dra. de Miguel Buckley, Rosa**

- ◆ Specialist in the Infectious Diseases, HIV and Tropical and Travel Medicine units at La Paz University Hospital
- ◆ Physician in the Digestive Service, Hepatology Section, at Cork University Hospital
- ◆ Professional Exchange of the International Federation of Medical Students' Associations
- ◆ Cardiology Service, at The Medical University of Bialystok Clinical Hospital
- ◆ Collaborator in Health Research Fund (FIS) projects
- ◆ Degree in Medicine, University of Seville

### **Dr. Arsuaga Vicente, Marta**

- ◆ Specialist in the Tropical Medicine and Travel Medicine from the Medicine Unit at La Paz University Hospital
- ◆ High Isolation Unit (UANN) for highly lethal pathogens in La Paz-Carlos III Hospital, participating in the treatment of several patients admitted with hemorrhagic fevers (E. Ebola and E. Crimea-Congo)
- ◆ Temporary Advisor to WHO/PAHO during the Ebola virus disease crisis in Barbados, St. Lucia and Grenada
- ◆ Lecturer at the Tropical Medicine Unit of the UAN
- ◆ Doctorate in Medicine from the Autonomous University Madrid
- ◆ Degree in Medicine and Surgery from the University of Alcalá
- ◆ 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 by the Autonomous University of Navarra

### **Dr. Untoria Tabares, Yeray**

- ◆ Specialist in Internal Medicine expert in infectious pathologies
- ◆ Resident intern in Internal Medicine at the La Paz University Hospital
- ◆ Speaker at several Internal Medicine congresses
- ◆ Master's Degree in Infectious Diseases and Antimicrobial Treatment from CEU Cardenal Herrera University
- ◆ Master's Degree in Clinical Medicine from the Camilo José Cela University
- ◆ University Expert in Microbiological Diagnosis, Antimicrobial Treatment and Research in Infectious Pathology from CEU Cardenal Herrera University
- ◆ University Expert in Community and Nosocomial Infections from CEU Cardenal Herrera University
- ◆ University Expert in Chronic Infectious Diseases and Imported Infections from CEU Cardenal Herrera University

### **Dr. Trigo Esteban, Elena**

- ◆ Specialist in Internal Medicine expert in Tropical and Travel Medicine
- ◆ Specialist in Tropical and Travel Medicine at the Carlos III La Paz Hospital
- ◆ Attending doctor in the Emergency Department of the Infanta Cristina Hospital
- ◆ Clinical coordinator of a hospitalization facility for COVID 19 patients during the epidemic peak
- ◆ Author of several articles related to her medical specialty
- ◆ Master's Degree in Tropical and Health Medicine from the Autonomous University of Madrid

### **Falces Romero, Iker**

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

### **Dr. De la Calle Prieto, Fernando**

- ♦ Physician in the Tropical and Travel Medicine Unit of the Carlos III-La Paz Hospital
- ♦ High-Level Isolation Unit. La Paz University Hospital- Carlos III
- ♦ Emergency Department of Internal Medicine as an Assistant Physician at the 12 de Octubre Hospital
- ♦ On-call physician at the Gregorio Marañón General University Hospital
- ♦ Degree in Medicine and Surgery from the University of Alcalá de Henares
- ♦ Master's Degree in Tropical and Health Medicine from the Autonomous University of Madrid
- ♦ Collaborating physician in the Department of Internal Medicine, Faculty of Medicine, Complutense University of Madrid
- ♦ Member of the Spanish Society of Tropical Medicine and International Health
- ♦ Member of the Spanish Society of Infectious Diseases and Clinical Microbiology

### **Dr. Arribas López, José Ramón**

- ♦ Chief of Section of the Infectious Diseases and Clinical Microbiology Unit of the Internal Medicine Service of the La Paz University Hospital
- ♦ Coordinator of the High Level Isolation Unit at the Hospital La Paz - Carlos III
- ♦ Director of the Research Institute of La Paz University Hospital (IdiPAZ)
- ♦ Director of the Foundation of the La Paz University Hospital
- ♦ Physician at the Infectious Diseases Unit of Barnes Hospital in the USA
- ♦ Doctor of Medicine, UAM
- ♦ Member of: Inter-Ministerial Committee for the Management of the Ebola Crisis

### **Dr. Marcelo Calvo, Cristina**

- ♦ Specialist in Internal Medicine and researcher at the La Paz University Hospital
- ♦ 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 by CEU Cardenal Herrera
- ♦ University Expert in Chronic Infectious Diseases and Imported Infections by CEU Cardenal Herrera
- ♦ Degree in Medicine and Surgery from the University of Alcalá



**Dr. Díaz Pollán, Beatriz**

- ◆ Specialist in Internal Medicine expert in Infectious Diseases
- ◆ FEA of Internal Medicine in the Department of Infectious Diseases of the La Paz University Hospital
- ◆ Assistant Physician of Internal Medicine in the Infectious Diseases Department of the San Carlos Clinical Hospital
- ◆ Sub-investigator in several research projects
- ◆ Author of dozens of scientific publications on Infectious Diseases
- ◆ Master's Degree in Infectious Diseases and Antimicrobial Treatment from CEU Cardenal Herrera University
- ◆ University Expert in Community and Nosocomial Infections from CEU Cardenal Herrera University
- ◆ University Expert in Chronic Infectious Diseases and Imported Infections from CEU Cardenal Herrera University
- ◆ Member of the Spanish Society of Infectious Diseases and Clinical Microbiology



# 05

# Structure and Content

The development of the contents of this Professional Master's Degree has been created by establishing an exhaustive tour through each and every one of the essential topics to be aware of the advances and challenges of Tropical Diseases. With a sequential process, the students will go into the generalities of tropical medicine and international health, to deepen in detail in diseases such as malaria, leishmaniasis, dengue or Zika. The Relearning system will favor this process, even reducing the hours of study so frequent in other academic methods







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*A university education oriented to show you the latest advances in international health and traveling patient care”*

## Module 1. Tropical Pathology and International Health

- 1.1. Tropical Medicine Today
- 1.2. One Health: Importance and Impact on Tropical Diseases
- 1.3. Conditioning Factors in Tropical Diseases
- 1.4. Emerging, Re-Emerging, and Imported Diseases: Concept and Implications
- 1.5. Epidemiological Strategies for Tropical Disease Control
- 1.6. Vector Control: Concept and Implications
- 1.7. Global programs for the prevention, diagnosis and treatment of tropical pathology
- 1.8. Epidemiological surveillance of tropical pathology. Information Sources
- 1.9. International Health Determinants. Health Indicators
- 1.10. Applying the Epidemiological Method to the Study of Tropical Diseases

## Module 2. Microbiology, Genetics and Immunology of Tropical Diseases

- 2.1. The Microbiology Laboratory in the Diagnosis of Tropical Diseases
- 2.2. Molecular Biology in the Diagnosis of Tropical Diseases
- 2.3. Rapid Diagnostic Methods in Tropical Diseases
- 2.4. Genomics in Tropical Diseases
- 2.5. Host Genetic Factors and Their Influence on the Severity of Imported Diseases
- 2.6. Immune Response to Tropical Diseases
- 2.7. Immunosuppression and its Implication in Tropical Diseases
- 2.8. Vaccines: Basic Concepts. Immunopreventable Diseases. Impact of Vaccination Programs
- 2.9. The Study of Antimicrobial Resistance in Tropical Diseases
- 2.10. The Role of Microbiology in Countries With Low Health Resources







### Module 3. Tropical ViralesDiseases I

- 3.1. Vector-Borne Viral Infections and their Global Spread
- 3.2. Hemorrhagic Fevers I: Ebola and Marburg Virus Disease
- 3.3. Hemorrhagic Fevers II: Lassa Disease
- 3.4. Hemorrhagic Fevers III: Crimean-Congo Hemorrhagic Fever
- 3.5. Dengue virus disease
- 3.6. Zika Virus Disease
- 3.7. Chikungunya Virus Disease and Other Viral other viral diseases with Joint Involvement
- 3.8. Yellow fever
- 3.9. Rift Valley Fever, Japanese E, *West Nile*
- 3.10. Nipah and Henipah Virus

### Module 4. Tropical viralesDiseases II

- 4.1. *Monkeypox* and Other Exanthematous Viral Diseases
- 4.2. Coronavirus Infections
- 4.3. Hantavirus Infections
- 4.4. HIV and other Retroviruses in the Tropics
- 4.5. Rabies Virus Disease
- 4.6. Poliomyelitis and Other Polioviruses
- 4.7. Viral Hepatitis
- 4.8. Other Emerging Viruses and Disease X
- 4.9. Prevention of Viral Diseases: General Measures and Available Vaccines
- 4.10. Pharmacological Treatment of Tropical Viral Diseases

## Module 5. Bacterial Tropical Diseases

- 5.1. Typhoid Fever. Diarrhea of bacterial origin: cholera, Shigella and Campylobacter
- 5.2. Relapsing Fever (Borreliosis), Melioidosis, Bartonellosis
- 5.3. Leptospirosis
- 5.4. Bacterial Meningitis in the Tropics
- 5.5. Rickettsiosis
- 5.6. Endemic Treponematoses
- 5.7. Tuberculosis and Buruli Ulcer
- 5.8. Plague: Historical Overview and Current Situation
- 5.9. Leprosy: Historical Overview and Current Situation
- 5.10. Sexually Transmitted Infections in the Tropics

## Module 6. Tropical Fungal Diseases

- 6.1. Mycology in Tropical Regions
- 6.2. Superficial Mycoses: Dermatophytosis and Tinea Pedis
- 6.3. Mycetoma
- 6.4. Sporotrichomycosis and Chromoblastomycosis
- 6.5. Histoplasmosis
- 6.6. Paracoccidioidomycosis and Coccidioidomycosis
- 6.7. Blastomycosis and Zygomycosis
- 6.8. Cryptococcosis
- 6.9. Candidiasis: Relevance of Resistance to Antifungal Agents
- 6.10. Aspergillosis

## Module 7. Parasitic Diseases

- 7.1. Current status of Tropical Parasitic Diseases
- 7.2. Parasites: Classification and General Concepts
- 7.3. Epidemiology of Parasitic Diseases
- 7.4. Parasitic Disease Control
- 7.5. Neglected Tropical Diseases. Concept and Classification
- 7.6. Neglected Tropical Diseases (NTDs): Global Initiatives in NTD Control
- 7.7. Antiparasitics I
- 7.8. Antiparasitics II
- 7.9. Antiparasitic Drug Resistance: Management of Resistant Malaria
- 7.10. Vaccines in Development against Parasites





## Module 8. Vector-Transmitted Parasitic Diseases

- 8.1. Malaria
- 8.2. Babesiosis
- 8.3. Leishmaniasis
- 8.4. American Trypanosomiasis: Chagas Disease
- 8.5. African Trypanosomiasis: Sleeping Sickness
- 8.6. Loasis
- 8.7. Onchocerciasis
- 8.8. Mansonellosis and lymphatic filariasis
- 8.9. Miscellaneous I: cutaneous pathology: pediculosis, scabies and myiasis
- 8.10. Miscellaneous II: animal bites and stings

## Module 9. Non-Vector Parasitic Diseases

- 9.1. Schistosomiasis
- 9.2. Amoebiasis
- 9.3. Giardiasis
- 9.4. Geohelminthiasis
- 9.5. Taeniasis
- 9.6. Fascioliasis
- 9.7. Hydatidosis
- 9.8. Dracunculiasis
- 9.9. Toxocariasis
- 9.10. Trichinosis

## Module 10. Travel Medicine and International Health

- 10.1. Travel and Health. International Health Regulations
- 10.2. Travel Advice. General Recommendations
- 10.3. Vaccination and Antimalarial Prophylaxis
- 10.4. Travelers with Special Conditions
- 10.5. General Assessment upon Return from International Travel
- 10.6. Febrile Syndrome upon Return from International Travel
- 10.7. Diarrheal Syndrome upon Return from International Travel
- 10.8. Skin Lesions upon Return from International Travel
- 10.9. Eosinophilia upon Return from International Travel
- 10.10. Other Common Diseases upon Return from International Travel

06

# 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





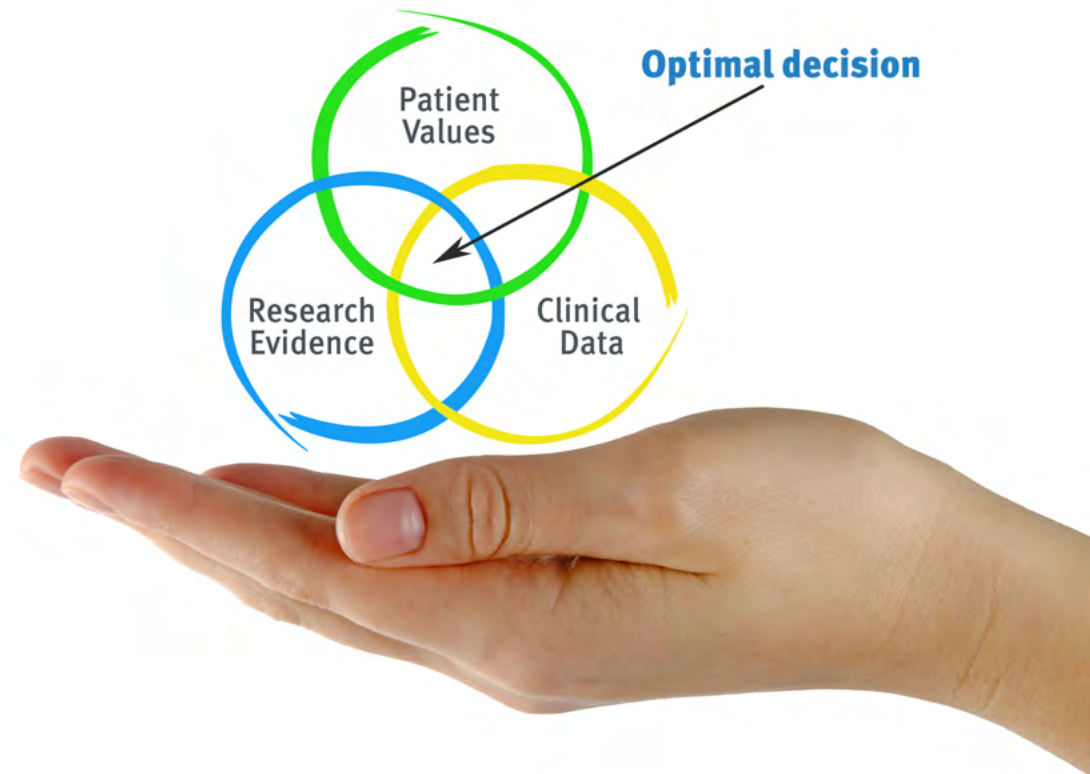
“

*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. 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 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



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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 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



07

# Certificate

The Professional Master's Degree in Advances in Tropical Diseases guarantees students, in addition to the most rigorous and up-to-date education, access to a Professional Master's Degree issued by TECH Global University.



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*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 **Professional Master's Degree diploma in Advances in Tropical Diseases** 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.

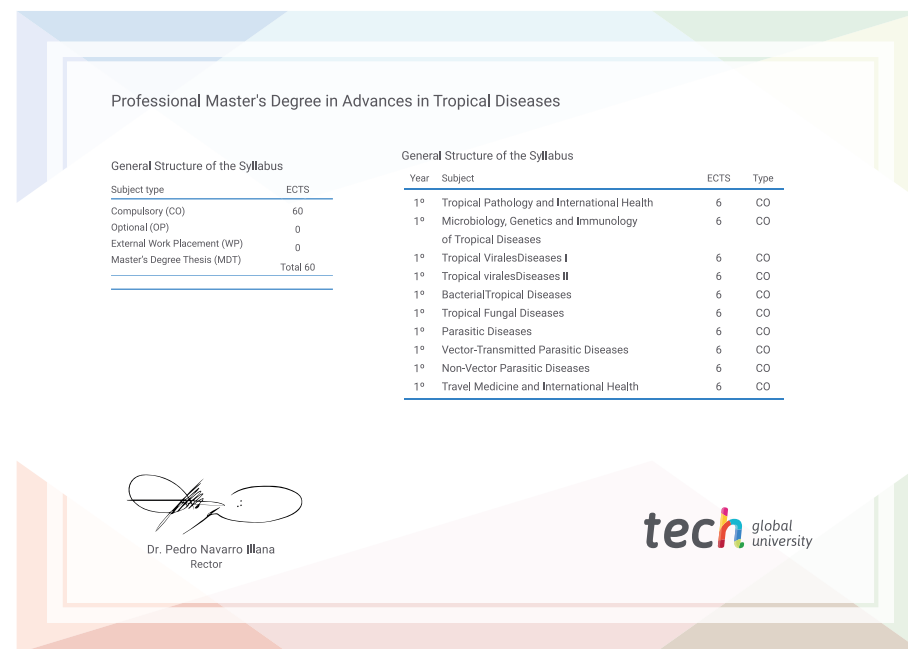
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Professional Master's Degree in Advances in Tropical Diseases**

Modality: **online**

Duration: **12 months**

Accreditation: **60 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.



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virtual classroom



## Professional Master's Degree Advances in Tropical DiseasesI

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Credits: 60 ECTS
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Professional Master's Degree Advances in Tropical Diseases

