



Postgraduate Certificate

Diagnosis and Treatment Of Parasitic and Tropical Diseases

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 4 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/diagnosis-treatment-parasitic-tropical-diseases

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Update your knowledge in the Diagnosis and Treatment of Parasitic and Tropical Diseases, with this highly scientifically rigorous program. You will learn the latest techniques and innovations in the field from professionals with years of experience in the sector.

A unique opportunity to specialise in a high-demand professional field.



tech 06 | Introduction

Infectious diseases remain the leading cause of mortality and disability (loss of productive life years) in the world. In 2016, of the total 56.4 million deaths worldwide, 33% were due to infectious diseases, 30% to cardiovascular diseases and 10% to cancer. The fight against disease will have two simultaneous fronts: infectious diseases and chronic non-communicable.

Among the 17.3 million people who died from infections in 2016, the most frequent causes of death were lower respiratory infections (3.7 million), malaria (2.2 million), tuberculosis (1.3 million), diarrhea (1.4 million), and HIV/AIDS infection (1.1 million). The most important factors to a consideration in relation to infectious diseases are demographics and human behavior, technological and industrial development, economic development and variations in land use, intercontinental travelling and commerce, climate change, microbiotic adaptation and finally the disappearance or reduction of efficient public health measures.

These factors, interacting with each other, have meant that no part of the planet should be considered reasonably isolated from the rest of the world, nor should the appearance, reappearance or dissemination of imported or apparently eradicated infectious diseases be considered impossible.

The complex international epidemiological situation so far this century, exemplified by the deliberate release of Bacillus anthracis spores as a bioweapon to cause pulmonary anthrax in victims who inhaled them, the emergence of West Nile virus as a pathogen in the United States, the SARS epidemic, the zoonotic spread of monkeypox in the United States, the threat of pandemic influenza, the Ebola epidemic in Africa, the emergence of yellow fever cases in Angola, coupled with the re-emergence of Dengue and Cholera, the emergence of new arboviruses in the Americas region, such as Chikungunya and Chikungunya and more recently Zika. Together with morbidity from other endemic infectious diseases, such as HIV/AIDS, leptospirosis, tuberculosis, community-acquired pneumonia and the increase in antibiotic resistance with the development of multidrug-resistant bacteria, all of which highlight the unprecedented need to perfect the process of specialization and improvement of human capital in order to increase the competence and performance of all the personnel necessary to face the challenges involved in controlling and dealing with biological, hospital and public health emergencies that guarantee the quality and safety of health care for the population in any part of the world.

This **Postgraduate Certificate in Diagnosis and Treatment of Parasitic and Tropical Diseases** contains the most complete and up-to-date scientific program on the market.
The most important features include:

- The development of clinical cases presented by experts in Diagnosis and Treatment of Parasitic and 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
- New developments in the Diagnosis and Treatment of Parasitic and Tropical Diseases
- Practical exercises where the self-assessment process can be carried out to improve learning
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- 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



Don't miss the opportunity to learn about advances in the treatment of infections to incorporate them into your daily medical practice"

Introduction | 07 tech



This Postgraduate Certificate is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Diagnosis and Treatment of Parasitic and Tropical Diseases, you will obtain a degree from TECH Global University"

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

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

It should be noted that each of the contents generated in this Postgraduate Certificate, as well as the videos, self-tests, clinical cases and modular exams have been thoroughly reviewed, updated and integrated by the professors and the team of experts that make up the working group, in order to facilitate a learning process which is didactic and given in a gradual manner that allows the objectives of the teaching program to be achieved.

This program is the best available in the educational landscape in viral infections.

Seize the moment and gain up-todate knowledge on the management of coronavirus infections.







tech 10 | Objectives

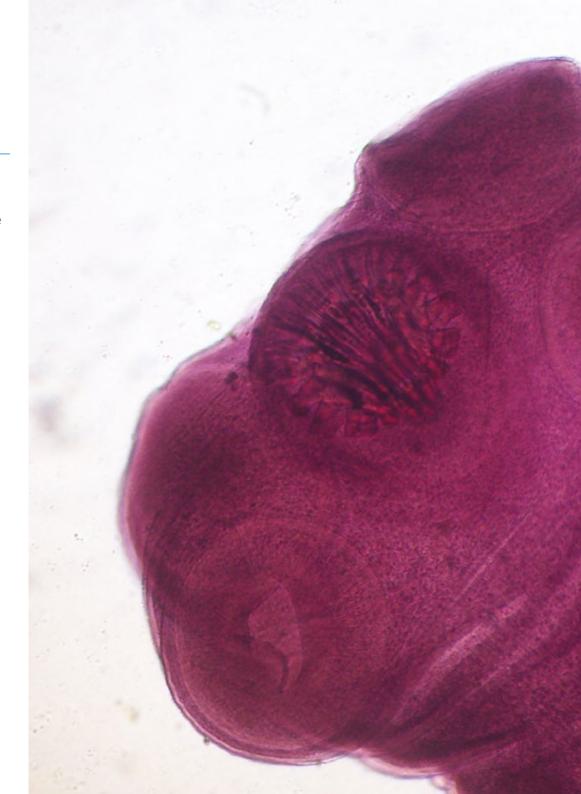


General Objectives

- Update or deepen your knowledge and develop your skills for daily clinical practice in healthcare, teaching or research roles in the field of infectious diseases in order to provide individual or group population care that allows for the improvement of health indicators
- Improve the medical attention and the overall health of patients with infectious diseases based on integral care, the application of the epidemiological clinical method and the correct use of antimicrobials in correspondence with the most up to date scientific evidence



Improve your patients' care by taking advantage of the knowledge offered by the Postgraduate Certificate in Diagnosis and Treatment of Parasitic and Tropical Diseases"





Objectives | 11 tech



Specific Objectives

- Recognize the general concepts used in parasitology and the classification of parasites
- Identify the diagnosis, pathogenesis, diagnosis and treatment of diseases such as malaria or intestinal protozoan diseases
- Assess the epidemiology and global situation of filarial diseases, describing their main types
- Apply pharmacokinetics and pharmacodynamics to different parasitic and tropical diseases such as antiprotozoal or helminth antiparasitic drugs





International Guest Director

Dr. Jatin Vyas is a prestigious physician specializing in Microbial Infectious Pathologies and Fungal Immunology. His work philosophy is based on providing holistic care to his patients, with an empathetic approach to pain management. Likewise, his work, code of ethics and values have been recognized on multiple occasions in the form of awards, including the Kass Award for "Clinical Excellence in Infectious Diseases".

It should be noted that, after completing his residency in Anesthesiology at Case Western Reserve University in Cleveland, he obtained a fellowship in Interventional Pain Management from the University of Iowa. In line with this, he has combined this work with his role as a Research Scientist, focusing on immune responses to pathogenic fungi. In this sense, he has published a wide production of specialized articles in areas such as viral elimination and evolution of SARS-CoV-2, differentiation of functional airway microfold cells or epithelial defects of the respiratory tract associated with the TAT3 mutation in Job's Syndrome. On the other hand, he has been in charge of leading multiple research projects focused on infectious conditions and innovative treatments. Likewise, he has contributed significantly to the understanding and management of several contagious bacterial diseases.

In his commitment to clinical excellence, he regularly participates in the most renowned scientific congresses and medical symposia worldwide. He shares his extensive experience and knowledge on subjects such as antibiotic resistance, the adaptation mechanisms of pathogenic fungi or the most cutting-edge therapies to combat different viral infections. Thanks to this, Dr. Jatin Vyas has contributed cutting-edge strategies to raise awareness of these conditions in both the healthcare community and society at large.



Dr. Vyas, Jatin

- Director of Internal Medicine at Massachusetts General Hospital, United States
- Researcher funded by the National Institutes of Health of the United States Government.
- Research Fellow in Interventional Pain Management at the University of lowa
- Research Fellow in Chemistry at the Welch Foundation, California.
- Residency in Anesthesiology at Case Western Reserve University, Cleveland, Ohio
- Doctorate in Medicine, University of Arkansas
- Bachelor of Science in Forensic Science
- Board Certification in Infectious Diseases by the American Board of Internal Medicine
- Board Certification in Internal Medicine by the American Board of Internal Medicine



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

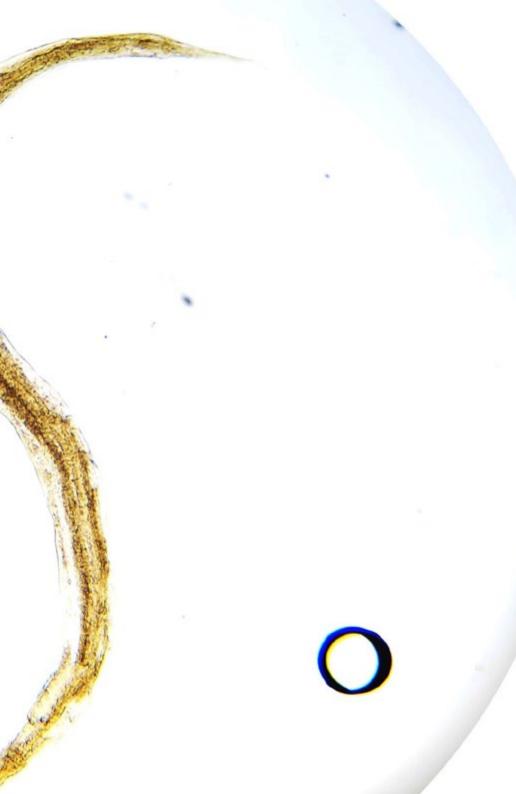




tech 18 | Structure and Content

Module 1. Parasitic and Tropical Diseases

- 1.1. Introduction to Parasitology
 - 1.1.1. General Concepts Used in Parasitology
 - 1.1.2. Epidemiology of the Main Parasitosis and Tropical Diseases
 - 1.1.3. Classification of Parasites
 - 1.1.4. Tropical Diseases and Fever Syndrome in the Tropics
- 1.2. Malaria
 - 1.2.1. Epidemiology
 - 1.2.2. Etiological Agent
 - 1.2.3. Pathogenesis
 - 1.2.4. Clinical Picture
 - 1.2.5. Complications
 - 1.2.6. Diagnosis
 - 1.2.7. Treatment
- 1.3. Diseases from Intestinal Protozoas
 - 1.3.1. Main Intestinal Protozoa
 - 1.3.2. Diagnosis of Intestinal Protozoa
 - 1.3.3. Amebiasis and Giardiasis
- 1.4. Filarial Diseases
 - 1.4.1. Epidemiology and the Worldwide Situation
 - 1.4.2. Clinical Syndromes
 - 1.4.3. Main Filarial Diseases: Wuchereria Bancrofti, Brugia malayi, Brugia timori, Onchocerca volvulus, Loa loa, Mansonella Perstans, Mansonella Streptocerca and Mansonella Ozzardi
- 1.5. Leishmaniasis
 - 1.5.1. Cutaneous Leishmaniasis
 - 1.5.2. Leishmaniasis Disease
- 1.6. Trypanosomiasis
 - 1.6.1. African Trypanosomiasis
 - 1.6.2. American Trypanosomiasis:



Structure and Content | 19 tech

- 1.7. Schistosomiasis
 - 1.7.1. Schistosoma Haematobium
 - 1.7.2. Schistosoma Mansoni
 - 1.7.3. Schistosoma Japonicum
 - 1.7.4. Schistosoma Intercalatum
- 1.8. Intestinal Parasitism
 - 1.8.1. Epidemiology
 - 1.8.2. Ascariasis
 - 1.8.3. Oxiuriasis
 - 1.8.4. Hookworm and Necatoriasis
 - 1.8.5. Tricuriasis
- 1.9. Tapeworm Infections
 - 1.9.1. Intestinal Tapeworms
 - 1.9.2. Tissue Tapeworms
- 1.10. Antiparasitics II
 - 1.10.1. General concepts
 - 1.10.2. Main Definitions Used in the Management of Antiparasitics
 - 1.10.3. Classifications by: Chemical Structure, Mechanism of Action, or Antiparasitic Action
 - 1.10.4. Mechanisms of Action
- 1.11. Antiprotozoals
 - 1.11.1. Classification
 - 1.11.2. Mechanisms of Action
 - 1.11.3. Antiparasitic Spectrum
 - 1.11.4. Pharmacokinetics and Pharmacodynamics
 - 1.11.5. Dose and Presentation
- 1.12. Antiparasitic for Helminths
 - 1.12.1. Classification
 - 1.12.2. Mechanisms of Action
 - 1.12.3. Antiparasitic Spectrum
 - 1.12.4. Pharmacokinetics and Pharmacodynamics
 - 1.12.5. Dose and Presentation





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At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.



Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method"

The effectiveness of the method is justified by four fundamental achievements:

- 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.



Methodology | 25 tech

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.

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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

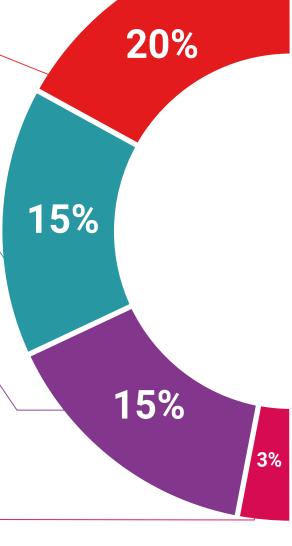
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many 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.

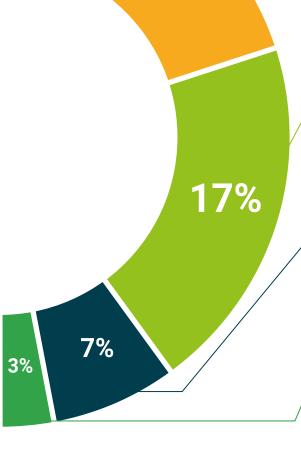
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.









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This program will allow you to obtain your **Postgraduate Certificate in Diagnosis and Treatment of Parasitic and 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: Postgraduate Certificate in Diagnosis and Treatment of Parasitic and Tropical Diseases

Modality: online

Duration: 6 weeks

Accreditation: 4 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Certificate in Diagnosis and Treatment of Parasitic and Tropical Diseases

This is a program of 120 hours of duration equivalent to 4 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



^{*}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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