



Diagnosis and Treatment of Parasitic and Tropical Diseases

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

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

Index

 $\begin{array}{c|c} 01 & 02 \\ \hline & \\ \hline \\ 03 & 04 \\ \hline \\ \hline \\ Course Management & \\ \hline \\ \hline \\ p. 12 & \\ \hline \end{array}$

06 Certificate





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 diseases.

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 take into 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 conditioned that we should not consider any part of the planet reasonably isolated from the rest, nor impossible the appearance, reappearance or dissemination of imported or apparently eradicated infectious diseases in our environment.

This Postgraduate Certificate approaches this problem from a practical perspective, focusing on parasitic and tropical diseases and their most effective means of approach and treatment.

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:

- 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 on Diagnosis and Treatment of Parasitic and Tropical Diseases
- Practical exercises where self assessment can be used 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





This Postgraduate Certificate is the best investment you can make in a qualification for two reasons: you will obtain a Postgraduate Certificate from the largest digital university in Spain, TECH, and you will acquire the best and most up to date education in Diagnosis and Treatment of Parasitic and Tropical Diseases"

Its faculty 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 a professional and teaching experience that they deliver in an extraordinary way in this program.

The methodological design of this program, developed by a multidisciplinary team of e-learning experts, 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, which will allow them to progress in the acquisition of knowledge and the development of skills that will impact their future professional work.

It should be noted in this program that all of the contents generated, 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.

This program, recently updated due to the global pandemic situation, is the best in the educational landscape for tropical infections.

Do not miss the opportunity to learn about the advances in the treatment of infections to incorporate them into your daily pharmaceutical practice.





The fundamental purpose of the educational program is to specialize and improve the pharmacist to achieve a deep theoretical mastery of the latest and most current scientific knowledge in the area of clinical infectious diseases, as well as the development of skills that allow them to approach the complex process of health and infectious diseases in individuals and communities more comfortably and safely in practice.



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 pharmaceutical and health care of patients with infectious diseases, based on comprehensive care, the application of the clinical epidemiological method and the correct use of antimicrobials in accordance with the most up to date scientific evidence.





Specific Objectives

- Delve deeper into the study of the most important parasitic diseases
- Highlight the importance of morbidity and mortality due to infections in international travelers



Improve your daily practice as a pharmacist by taking advantage of the specialization offered with this Postgraduate Certificate in Diagnosis and Treatment of Parasitic and Tropical Diseases"





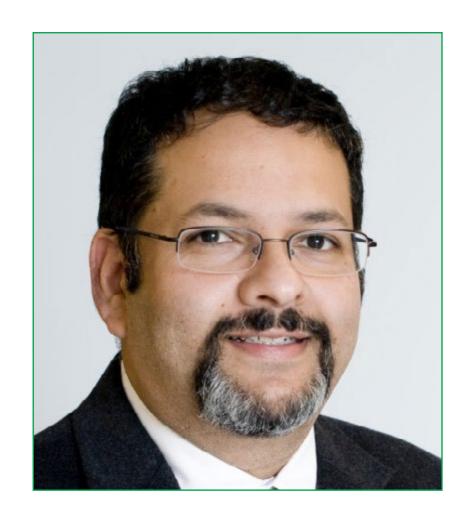


International Guest Director

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 Iowa
- 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. Amebiosis 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 y Mansonella Ozzardi
- 1.5. Leishmaniasis
 - 1.5.1. Cutaneous Leishmaniasis
 - 1.5.2. Deep Leishmaniasis
- 1.6. Trypanosomiasis
 - 1.6.1. African Trypanosomiasis
 - 1.6.2. American Trypanosomiasis:





Structure and Content | 19 tech

-	_	0 1 1 1		
1	/	Schistosom	10	CIO

- 1.7.1. Haematobium Schistosomiasis
- 1.7.2. Schitosomiosis Mansoni
- 1.7.3. Schitosomiosis Japonicum
- 1.7.4. Schitosomiosis Intercalatum
- 1.8. Intestinal Parasitism
 - 1.8.1. Epidemiology
 - 1.8.2. Ascaridiosis
 - 1.8.3. Oxiuriasis
 - 1.8.4. Hookworm and Necatoriasis
 - 1.8.5. Trichuriosis
- 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 Used 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

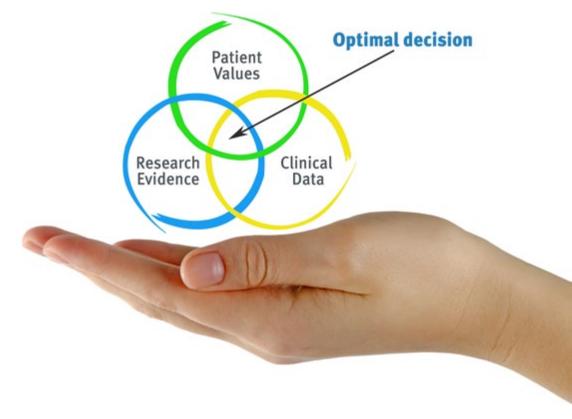


tech 22 | Methodology

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will be confronted with multiple simulated clinical cases based on real patients, in which they will have to investigate, establish hypotheses and ultimately, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Pharmacists learn better, more quickly 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, attempting to recreate the actual conditions in a pharmacist's professional practice.



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

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

- 1. Pharmacists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their 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.

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.

Pharmacists 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.



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 115,000 pharmacists have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. This pedagogical methodology is developed in a highly demanding environment, with a university student body with a high socioeconomic profile and an average age of 43.5 years.

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.

tech 26 | Methodology

This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is created specifically for the course by specialist pharmacists who will be teaching the course, so that the didactic development is highly specific and accurate.

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.



Video Techniques and Procedures

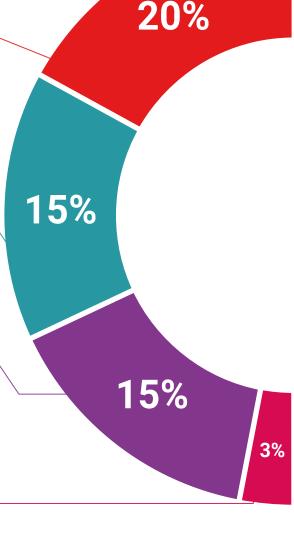
TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current pharmaceutical care procedures. All of this, first hand, and explained and detailed with precision to contribute to assimilation and a better understanding. And best of all, you can watch them as many times as you want.



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.

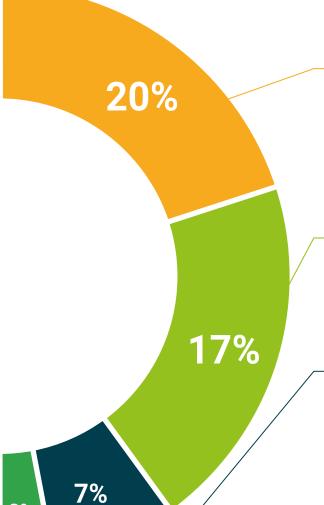
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





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, 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 & 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.







tech 30 | Certificate

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: 6 ECTS



, 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 180 hours of duration equivalent to 6 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



tech global university



Postgraduate Certificate

Diagnosis and Treatment of Parasitic and Tropical Diseases

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

