Postgraduate Certificate

Public Health Disease Prevention

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Postgraduate Certificate

Public Health Disease Prevention

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

Website: www.techtitute.com/us/medicine/postgraduate-certificate/public-health-disease-prevention

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01

Introduction

Disease prevention has become more relevant in recent decades due to demographic, environmental and behavioral changes affecting public health. In this sense, physicians play a crucial role in the implementation of preventive measures that not only address individual risk factors, but also consider social and structural determinants of health. It is therefore vital that physicians remain at the forefront of the most innovative prevention strategies, from clinical interventions to public health policies. To support them in this task, TECH implements a revolutionary university program focused on the Epidemiology of Communicable and Non-Communicable Diseases. In addition, it is taught under a convenient 100% online modality.

Through this Postgraduate Certificate, 100% online, you will design the most innovative programs to prevent diseases and optimize people's wellbeing"

A recent report published by the World Health Organization shows that Diabetes affects more than 422 million people on a global scale, at the same time that this figure is expected to increase in the coming years. Faced with this situation, health professionals have a responsibility to develop preventive programs aimed at reducing the likelihood of chronic diseases. To reduce this burden, practitioners need to implement techniques ranging from lifestyle changes to pharmacological interventions. However, this requires specialists to update their knowledge frequently in order to approach pathologies from a preventive perspective.

In this context, TECH has developed a pioneering and comprehensive program in Public Health Disease Prevention. Designed by experts in this field, the academic itinerary will delve into the risk factors of a wide range of pathologies, including cancer, cardiovascular diseases and even rare conditions. In this way, graduates will develop advanced skills to detect risk factors and evaluate the health status of citizens. Along the same lines, the syllabus will delve into emerging pathologies such as epidemic outbreaks, focusing on aspects such as the International Health Regulations and measures to deal with these situations. This will allow specialists to develop strategies to prevent diseases and carry out an evaluation of the effectiveness of Public Health programs.

On the other hand, the university program acquires greater dynamism thanks to the multimedia pills and the wide variety of didactic resources offered by TECH (such as specialized readings, interactive summaries or case studies). In addition, TECH's Relearning methodology will allow doctors to obtain a much more effective update in a shorter period of time. Therefore, their learning process will be completely natural and progressive, so they will not have to invest long hours of study.

This **Postgraduate Certificate in Public Health Disease Prevention**contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts in Public Health and Health Management
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- Practical exercises where the self-assessment process can be carried out 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

You will develop sophisticated strategies to prevent Cardiovascular Diseases through 150 hours of the best digital teaching"

You will delve into Neonatal Screening Programs to identify early metabolic, genetic and endocrine diseases"

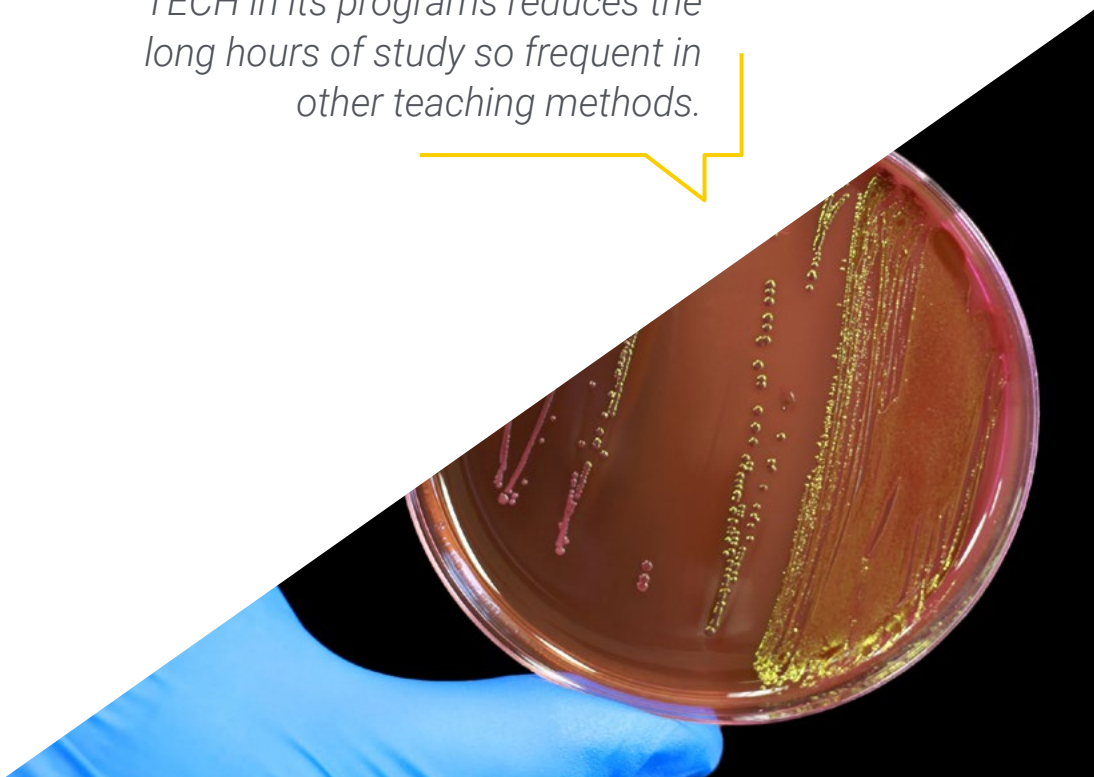
Are you looking to take a comprehensive approach to chronic disease prevention? Through this program you will acquire strategies to promote healthy and sustainable aging.

The Relearning system applied by TECH in its programs reduces the long hours of study so frequent in other teaching methods.

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing 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 education programmed to learn 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.



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Objectives

Through this Postgraduate Certificate, physicians will have the necessary knowledge to identify, prevent and control the main diseases affecting the population. In this sense, graduates will acquire skills to analyze both the risk factors and the routes of transmission of various pathologies (among which cardiovascular diseases, rare pathologies or cancer stand out). In this way, physicians will carry out programs for the prevention of diseases and will contribute to optimize the quality of life of people.

You will acquire advanced analytical skills with which you will interpret research results and apply the findings for strategic decision making"

General Objectives

- Develop a broad and comprehensive conceptual framework of the situation, challenges and needs of Public Health in the 21st century
- Examine the international and global framework of Public Health policies
- Determine the key factors for a correct communication in health crisis: crisis communication and communication crisis
- Identify the theoretical and methodological framework for evaluation in Public Health
- Identify the steps to be followed for disease assessment using epidemiological data
- Compile the research methodology related to disease surveillance
- Identify the main risk and protective factors in communicable and non-communicable diseases
- Analyze the importance of quality assessment of intervention studies
- Develop the fundamentals of clinical epidemiology, measurement of frequency and distribution of diseases
- Critically evaluate the efficacy and effectiveness of clinical interventions, pharmacological treatments, surgical interventions and prevention strategies
- Fundamentals of the principles of the epidemiological method
- Fundamentals of the principles of health promotion, social determinants of health, health-related behavioral theories, and strategies to promote healthy lifestyles and environments
- Analyze the main health risks for different vulnerable groups
- Implement a holistic and integrative vision in the impact assessment of environmental risks on health protection

Specific Objectives

- Analyze the epidemiology and risk factors of Cancer, as well as its primary and secondary prevention
- Support the epidemiology of Cardiovascular Diseases and their risk
- Promote the detection of rare diseases and neonatal screening programs
- Evaluate healthy and active aging programs
- Identify the main communicable diseases
- Determine the usefulness of vaccines in the prevention of Immunopreventable Infectious Diseases

You will have a wide range of learning resources at your disposal, accessible 24 hours a day, 7 days a week"

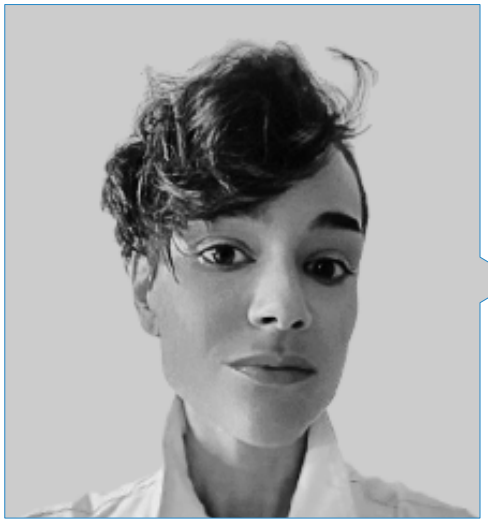
03

Course Management

In its firm commitment to offer the most complete programs in the academic panorama, TECH carries out a rigorous process to form its teaching staff. For this Postgraduate Certificate, it brings together prestigious professionals in the area of Public Health Disease Prevention. These experts have an extensive work experience, where they have worked in recognized health entities. Thanks to this, they have elaborated didactic materials that stand out for their quality and adaptation to the demands of the current labor market. Undoubtedly, this is an experience that will significantly raise the professional horizons of physicians.

You will have the support of a teaching staff made up of distinguished professionals in the field of Public Health"

Management



Ms. Ruiz Redondo, Julia María

- Coordinator of the National Working Group on Public Health 2.0 in the SEMG
- Coordinator of the General Directorate of Public Health in the Ministry of Health of Castilla-La Mancha
- Coordinator of the Regional Advisory Group on Immunization at the Regional Ministry of Health of Castilla-La Mancha
- Nurse Inspector in the Management of Coordination and Inspection of Castilla-La Mancha in the SESCAM
- Nurse of Specialized Care in the Hospital Emergency Area at the General Hospital of Tomelloso
- Master's Degree in Medical Management and Clinical Management by the UNED, ISCIII, National School of Health
- Master's Degree in Vaccines from the Catholic University of San Antonio de Murcia
- Master's Degree in Specialized Emergency Nursing Care, Critical Patient Area and Post-Anesthesia Care by the University of Valencia
- Master's Degree in Nursing Services Management from the UNED
- Senior Healthcare Management Program from San Telmo Business School
- Graduate in Nursing from the Catholic University of Avila
- Diploma in Nursing from the University of Jaén

Professors

Dr. Jimeno Sanz, Isabel

- Director and Family Physician at the Isla de Oza Health Center
- Collaborator with different groups of the Consejería de Sanidad de Madrid
- Responsible for the SEMG Vaccine Group
- Specialist in the CAM Vaccine Advisory Committee and in the VHP Platform of Madrid
- Principal Investigator in Clinical Trials
- Master's Degree in Epidemiology and Public Health Autonomous University of Madrid
- Master's Degree in Dietetics and Nutrition by the University of Navarra
- Degree in Medicine and Surgery from the Complutense University of Madrid
- Diploma in Leadership and Management of PC Teams, Autonomous University of Madrid
- Member of the Neumoexperto Group

Dr. Losada Salamanca, Diana Carolina

- Palliative Medicine Physician, Palliative Care Unit at Hospital Virgen de la Luz
- Emergency Physician at the Hospital Virgen de la Luz.
- Master's Degree in Bioethics by the Catholic University of Valencia
- Master's Degree in Palliative Care for Medicine by the CEU Cardenal Herrera
- Expert in Individualized Palliative Care for Medicine
- Expert in Clinical Management of the Palliative Care Patient For Medicine
- Expert in Psychosocial Aspects in the Palliative Patient For Medicine
- Medical Specialist in Family and Community Medicine (2020)
- Degree in Medicine and Surgery from the Pontifical Javeriana University

Dr. Silva Contreras, Javier

- Head of the Preventive Medicine Service of the Virgen de la Luz Hospital
- Master's Degree in Public Health and Healthcare Management, University of Valencia
- Master's Degree in Infectious Diseases and Antimicrobial Treatment by the Cardenal Herrera University
- Specialist in Vaccines by the University of Santiago de Compostela
- Specialist in Nosocomial Infections by the EUROINNOVA Postgraduate Training Center
- Specialist Doctor in Preventive Medicine and Public Health
- Degree in Medicine and Surgery from the Pontifical Javeriana University

Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"

04

Structure and Content

Through this program, physicians will have a comprehensive knowledge of Public Health Disease Prevention. The syllabus will focus on Cancer epidemiology, focusing on issues such as risk factors or data sources. Likewise, the syllabus will delve into the detection of rare diseases, communicable pathologies and cardiovascular conditions. Therefore, graduates will acquire advanced skills to identify risk factors and even disease patterns. The teaching materials will also provide specialists with the most innovative strategies to promote vaccination and raise public awareness of its importance.

You will be able to perform critical, data-driven analyses to address disease risk factors"

Module 1. Epidemiology and Prevention of Communicable and Non-communicable Diseases

1.1. Cancer Epidemiology: Risk Factors and Primary Prevention
- 1.1.1. Descriptive Epidemiology: Incidence, Mortality and Data Sources
- 1.1.2. Cancer Risk Factors: Environmental and Occupational
- 1.1.3. Other Factors: Ultraviolet Light, Infections, Radiation

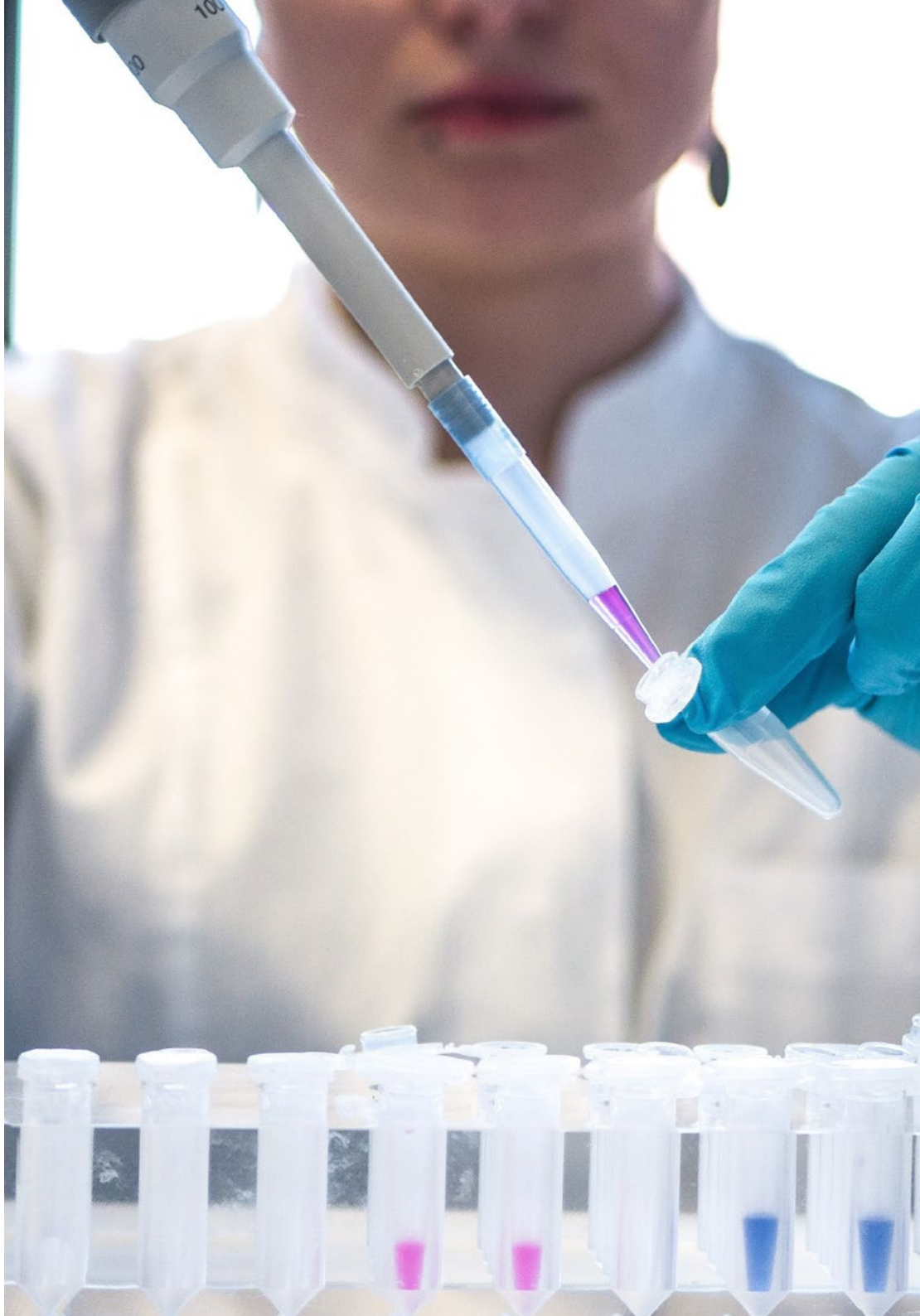
1.2. Risk Factors and Primary Prevention of Cancer: Lifestyle and Screening
- 1.2.1. Primary Prevention. Risk Factors and Prevention Strategies
- 1.2.2. Legislative Measures
- 1.2.3. Secondary prevention

1.3. Biological Mechanisms of Cardiovascular Disease Estimation of Cardiovascular Risk and Population Prevention
- 1.3.1. Ischemic Heart Disease and Stroke
- 1.3.2. Epidemiological Indicators
- 1.3.3. Classification of Cardiovascular Risk
- 1.3.4. Prevention and Control of Cardiovascular Diseases

1.4. Detection of Rare Diseases and Neonatal Screening
- 1.4.1. Rare Diseases
- 1.4.2. Newborn Screening Programs
- 1.4.3. Neonatal Screening for Congenital Metabolic and Endocrinologic Diseases

1.5. Comprehensive Approach to Chronic Disease Prevention for Healthy and Sustainable Aging
- 1.5.1. Healthy Aging
- 1.5.2. Active Aging
- 1.5.3. Integrated Prevention

1.6. Epidemiology of Communicable Diseases: Epidemiologic Surveillance Systems and Notifiable Disease Systems
- 1.6.1. Causative Agents
- 1.6.2. Time Periods
- 1.6.3. Transmission
- 1.6.4. Host and Susceptible Population
- 1.6.5. Epidemiological Surveillance Systems



1.7. Utility of Vaccines in the Prevention of Immunopreventable Infectious Diseases
- 1.7.1. Analysis of the Importance of Vaccination in the Prevention of Infectious Diseases at the Individual and Community Levels
- 1.7.2. Evolution of Vaccines: Types of Vaccines Currently Available
- 1.7.3. Mechanisms of Action of Vaccines and Their Impact on the Immune System
- 1.7.4. Efficacy and Safety of Vaccines in the Prevention of Infectious Diseases
- 1.7.5. Importance of Vaccination in Risk Groups and in the Prevention of Epidemics
- 1.7.6. Logistics and Vaccination Programs at the International Level
- 1.7.7. Economic and Social Impact of Vaccination in the Prevention of Infectious Diseases
- 1.7.8. Research and Analysis of Barriers and Challenges in the Implementation of Vaccination Programs
- 1.7.9. Strategies and Measures to Promote Vaccination and to Raise Public Awareness of its Importance
- 1.7.10. Evaluation and Critical Analysis of the Scientific Literature Related to Vaccines and their Usefulness in the Prevention of Infectious Diseases

1.8. Emerging diseases. Epidemic Outbreaks
- 1.8.1. Factors Favoring Emerging Diseases
- 1.8.2. New Agents and Diseases
- 1.8.3. International Health Regulations (IHR)
- 1.8.4. Epidemic Outbreaks. Study, Control and Measures: Chemoprophylaxis, Immunoglobulins and Vaccines

1.9. Viral Hepatitis, HIV infection, AIDS, Sexually Transmitted Infections (STIs) and Tuberculosis
- 1.9.1. Hepatitis A: Etiology, Epidemiology and Preventive Measures
- 1.9.2. Hepatitis B: Etiology, Epidemiology and Preventive Measures
- 1.9.3. Other Viral Hepatitis: Etiology, Epidemiology and Preventive Measures
- 1.9.4. HIV: Etiology, Epidemiology and Preventive Measures
- 1.9.5. Sexually Transmitted Infections (STIs): Etiology, Epidemiology, and Preventive Measures
- 1.9.6. Tuberculosis: Etiology, Epidemiology and Preventive Measures

1.10. Meningococcal Disease (MD) and Zoonosis: Epidemiology Prevention and Control
- 1.10.1. Epidemiology of Meningococcal Disease
- 1.10.2. Prevention and Control of Meningococcal Disease
- 1.10.3. Epidemiology of Zoonoses
- 1.10.4. Prevention and Control of Zoonoses

Take a step forward in your career as a Physician with this high-level qualification, taught by experts with extensive experience in Public Health Disease Prevention. Enroll now!"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

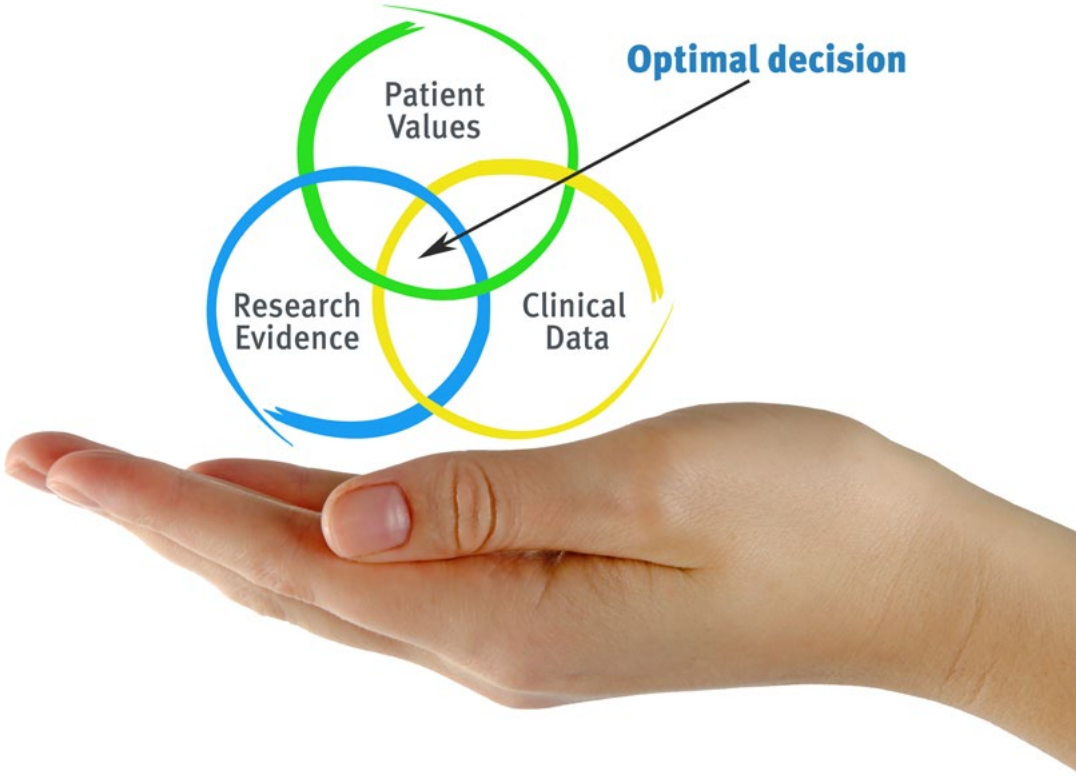
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

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. 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:

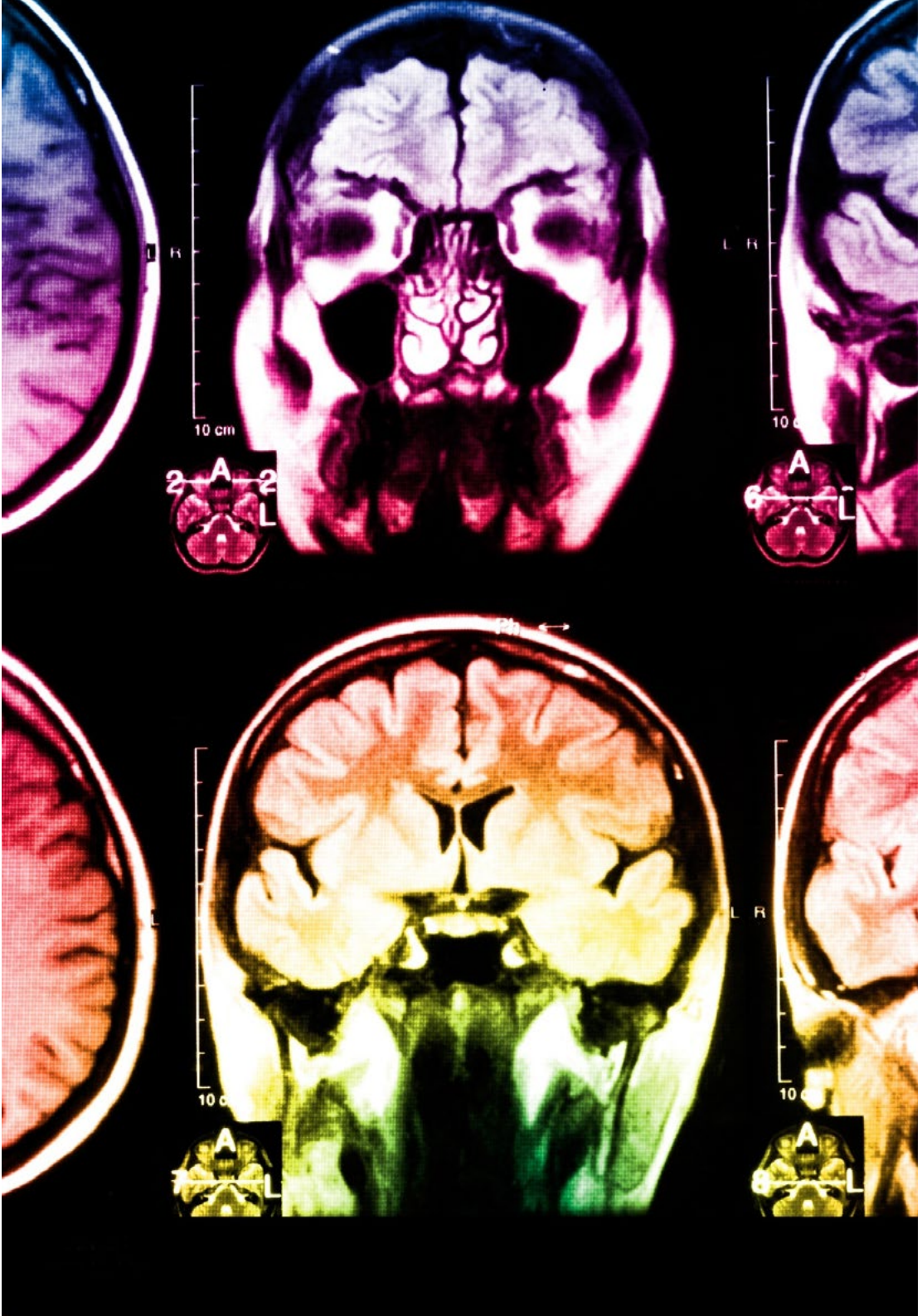
1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better 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.

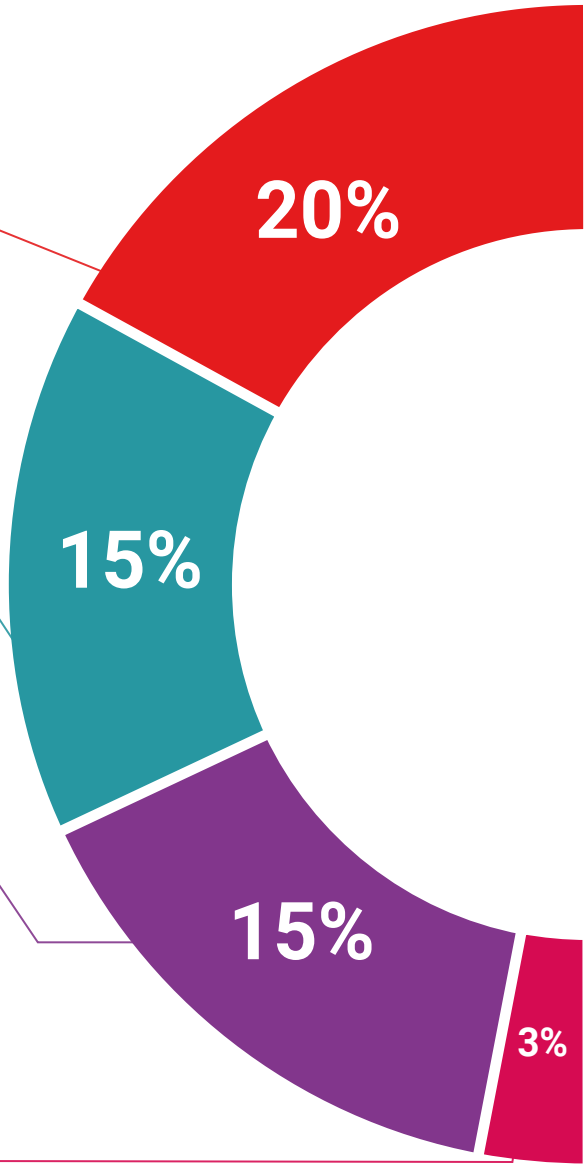
Interactive Summaries

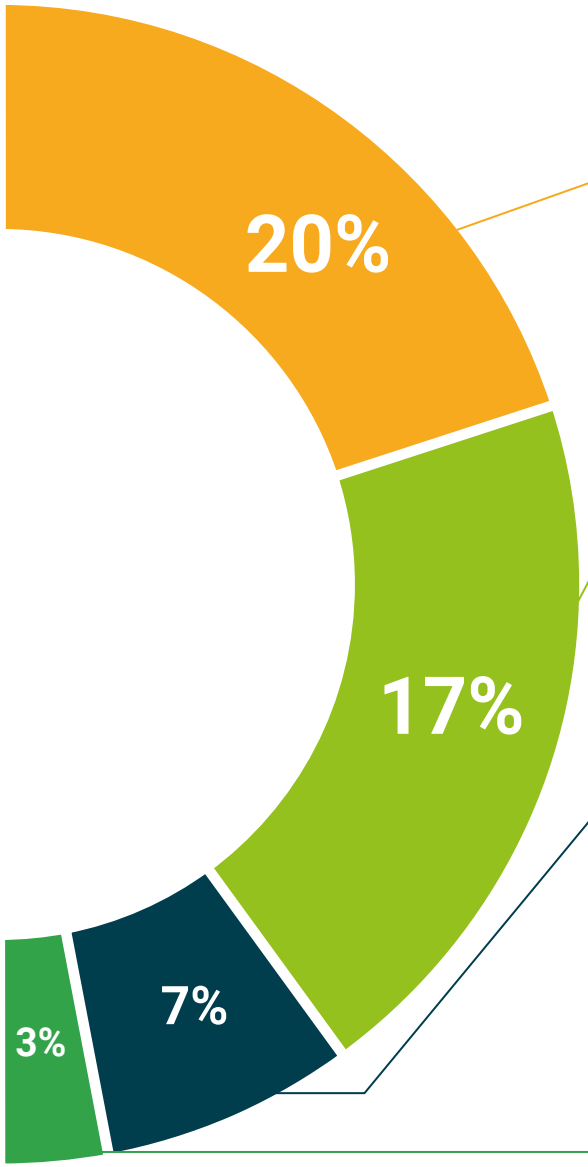
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.

06

Certificate

The Postgraduate Certificate in Public Health Disease Prevention guarantees students, in addition to the most rigorous and up-to-date education program, access to a Postgraduate Certificate issued by TECH Global University.

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This private qualification will allow you to obtain a **Postgraduate Certificate in Public Health Disease Prevention** 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** private qualification 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 Public Health Disease Prevention**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**


tech global university

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

Postgraduate Certificate in Public Health Disease Prevention

This is a private qualification 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

Dr. Pedro Navarro Illana
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

*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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