

Postgraduate Certificate

Trauma Emergencies, Emergencies due to Physical Agents and Poisoning in the Outpatient Setting for Nursing





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Trauma Emergencies, Emergencies due to Physical Agents and Poisoning in the Outpatient Setting for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 4 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/nursing/postgraduate-certificate/trauma-emergencies-emergencies-physical-agents-poisoning-outpatient-setting-nursing

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01

Introduction

Trauma Emergencies and accidents due to Physical Agents are a highly critical component for nurses working in the Outpatient Setting. In this sense, experts may be faced with a variety of situations ranging from Bone Fractures to Severe Burns or Acute Poisoning. Faced with this, professionals need to know in depth the diagnostic implications of each condition, their most appropriate treatments and possible adverse effects. For this reason, TECH presents an innovative university program that will focus on comprehensive care for these emergencies and will help graduates develop advanced clinical skills to optimize patient outcomes. It is also taught in a flexible 100% online modality.





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Thanks to this 100% online Postgraduate Certificate, you will perform rapid and accurate assessments of Severe Trauma patients using advanced tools such as triage”

A new report by the World Health Organization reveals that more than 12.2 million people die each year from non-communicable diseases resulting from poisoning in their work environment. For example, exposure to environmental pollutants or chemicals such as asbestos causes critical conditions such as lung cancer, chronic obstructive pulmonary disease or pleural effusions. Given this reality, nurses play an important role in performing systemic assessments of patients to establish the nature and severity of exposures. Therefore, they need to incorporate state-of-the-art therapeutic methods into their clinical practice in order to stabilize patients efficiently.

In this context, TECH launches a revolutionary Postgraduate Certificate in Trauma Emergencies, Emergencies due to Physical Agents and Poisoning in the Outpatient Setting for Nursing. The academic itinerary will delve into issues ranging from the biomechanics of accidents to diagnostic evaluation methods. Therefore, graduates will obtain advanced clinical skills to identify the symptoms of a wide range of severe conditions, such as Abdominal Trauma, Stings or Hypovolemic Shock. In addition, the syllabus will delve into the safest immobilization techniques to avoid additional injuries such as Fractures, Tears or Cuts. In this way, professionals will carry out therapeutic procedures to stabilize patients during their transfer to the hospital.

On the other hand, this university program is taught in a 100% online mode, easily accessible from any device with Internet connection and without predetermined schedules. In addition, TECH is based on the cutting-edge Relearning teaching method, so that nurses can learn key concepts in depth without resorting to techniques that involve extra effort, such as memorization. In this sense, graduates will only need an electronic device with Internet connection to access the Virtual Campus and access the most complete didactic materials on the market.

This **Postgraduate Certificate in Trauma Emergencies, Emergencies due to Physical Agents and Poisoning in the Outpatient Setting for Nursing** 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 outpatient Emergencies and medical Emergencies
- ♦ 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 access the teaching materials from any electronic device with an Internet connection. Even from your cell phone!"

“*You will delve into the most frequent Intoxications and you will apply initial management measures such as gastric lavage or the provision of antidotes”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this 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.

Do you want to incorporate into your practice the most sophisticated immobilization techniques to prevent Traumatic Fractures? Achieve it with this university program in only a few hours.

TECH's disruptive Relearning method will allow you to get up to date in an autonomous and progressive way.



02 Objectives

The present Postgraduate Certificate will provide Nursing professionals with comprehensive knowledge on the management of Acute Traumatic Injuries and Emergencies due to Physical Agents and Poisonings in the Outpatient Setting. At the same time, graduates will develop advanced skills to recognize a variety of critical conditions such as Spinal Cord Injuries, Chest Trauma or Hypovolemic Shock. Thanks to this, experts will intervene quickly and apply the most appropriate therapeutic procedures to stabilize patients during their transfer to the hospital center. In this way, recovery prognoses will be considerably improved.



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You will acquire skills to perform therapeutic procedures such as the application of hemostatic bandages, Airway maintenance or administration of drugs to reduce the risk of complications”



General Objectives

- ♦ Analyze the management of multiple casualty incidents and catastrophes
- ♦ Identify diagnostic and therapeutic techniques in emergency situations
- ♦ Delve into the principles of pharmacology as applied to medical emergencies
- ♦ Examine the most innovative emergency protocols and procedures



You will update your knowledge through didactic formats such as explanatory videos, specialized readings or interactive summaries. You will enjoy a dynamic experience!"





Specific Objectives

Module 1. Severe Trauma Care (Catastrophic or HSE)

- ♦ Understand the general concepts and biomechanics of accidents, analyzing how different types of trauma affect the human body to apply a comprehensive approach to their management
- ♦ Delve into effective primary and secondary assessment in patients with severe trauma, quickly identifying critical injuries and prioritizing in care
- ♦ Address the different mobilization and immobilization techniques using appropriate materials and methods, ensuring proper analgesia and sedation
- ♦ Delineate the basics of health care in special situations, such as confined and remote locations, as well as in pediatric and pregnant patients

Module 2. Other Important Aspects in Emergencies

- ♦ Differentiate patient safety practices and protocols, identifying and minimizing risks to ensure a safe and efficient environment in emergency situations
- ♦ Integrate new technologies in emergency management, assessing their impact and applicability to improve diagnostic accuracy, operational efficiency and clinical outcomes

Module 3. Toxicological Emergencies

- ♦ Evaluate the general aspects of the poisoned patient, including the identification of signs and symptoms of poisoning and the application of appropriate diagnostic methods to determine the toxic substance involved
- ♦ Identify the protocols for initial management and stabilization of the poisoned patient, ensuring the administration of appropriate treatments such as antidotes and advanced life support
- ♦ Prevent long-term complications in poisoned patients by providing education on poison prevention and safe handling of toxic substances in both the hospital setting and at home

03

Course Management

TECH's priority is to make available to anyone the most comprehensive and renewed university programs in the academic panorama, which is why it carries out a thorough process to select its teaching staff. Thanks to this effort, this Postgraduate Certificate has the participation of true experts in the field of Outpatient Medical Emergencies. These professionals have contributed to optimize the quality of life of many patients suffering from severe trauma and even accidents caused by Physical Agents and Poisoning. In this way, nurses will enter into an immersive experience that will significantly improve their clinical practice.





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You will have the support of a teaching team made up of highly specialized experts in the management of Medical Emergencies in the Outpatient Setting”

Management



Dr. Sendra Más, Juan Amaro

- ♦ Assistant Physician of the Emergency Service at the Vega Baja Hospital. Alicante, Spain
- ♦ Emergency Physician in the Specialized Medical Unit (UME 1)
- ♦ Doctor in the Emergency Medical Attention Service (SAMU)
- ♦ Medical Helicopter Doctor
- ♦ Degree in Medicine and Surgery from the University of Alicante
- ♦ Specialist in Family and Community Medicine
- ♦ Accredited Professor of the Spanish Society of Emergency Medicine
- ♦ Member of the Spanish Society of Emergency Medicine

Professors

Dr. Fernández Martínez, Maria Ángeles

- ♦ Biochemist-Nutritionist-Phytotherapist Responsible for Natural Life Nutrition Center
- ♦ Manager of the Parapharmacy, Dermopharmacy, Nutricosmetics and Phytotherapy Line
- ♦ Degree in Biochemistry from the University of Valencia
- ♦ University Expert in Nutrition, Dietetics and Diet Therapy
- ♦ Postgraduate Diploma in Microbiological Analysis of Foodstuffs
- ♦ Expert in Prevention and Treatment with Nutrition, Diet and Cancer
- ♦ Expert in Vegetarian, Clinical, and Sports Nutrition
- ♦ Specialist in Food Intolerances and the Study of the Intestinal Microbiota
- ♦ Numerous courses of study in Intestinal Microbiota, Analysis Methods and Applications
- ♦ Diploma in Natural and Orthomolecular Medicine
- ♦ Expert in the current use of Nutricosmetics and Nutraceuticals in general.
- ♦ Expert in Point of Sale Management in the Pharmacy and Parapharmacy Office
- ♦ Member of: Spanish Society of Probiotics and Prebiotics (SEPyP), Spanish Society of Dietetics (SEDCA) and Spanish Society of Nutrition (SEÑ)

Dr. Medina Martínez, María Ángeles

- ♦ Medical Director and Cofounder of Healthy Blue Bits
- ♦ Family and Community Medicine Specialist of the Ministry of Universal Health of the Valencian Government
- ♦ Co-founder of Toubabs Team
- ♦ Degree in Medicine from the University of Miguel Hernández de Elche
- ♦ Postgraduate degree in Clinical Management from the Open University of Catalonia
- ♦ Postgraduate degree in Public and Community Health from the University of Murcia
- ♦ Member of: ASD (Vocal), SoVaMFIC (President) and Forum of Primary Care Physicians of the Valencian Region

Dr. Pérez Marín, Estefanía

- ♦ Medical Specialist in Mental Health
- ♦ Medical Specialist in Psychiatry at the General University Hospital of Elche
- ♦ Degree in Medicine and Surgery from Miguel Hernández University of Elche
- ♦ Expert in Mental Health Emergencies

Dr. Perales Cano, Raquel

- ♦ Specialist in Family and Community Medicine
- ♦ Primary Care Physician at La Loma Health Center
- ♦ Specialist of the Emergency Department at the Vega Baja Hospital
- ♦ Physician of the Emergency Medicalized Unit 1 of the Murcian Health Service
- ♦ Health Professional of Samu

Dr. Zazo Menargues, Juan Manuel

- ♦ Medical Coordinator of El Raval Health Center in Elche
- ♦ Primary Care Physician at the San Fermín Health Center
- ♦ Researcher of the Department of Clinical Medicine of CEU Cardenal Herrera University

Dr. Gavilán Martín, Cristina

- ♦ Assistant Physician of Pediatric Emergencies at Elche General University Hospital
- ♦ Specialist in Family and Community Medicine
- ♦ Doctor in Medicine by the Miguel Hernández University of Elche
- ♦ Degree in Medicine and Surgery from the University of Alicante
- ♦ APLS credential by the American Academy of Pediatrics and the American College of Pediatrics
- ♦ Professor of Master's Degrees and postgraduate courses
- ♦ Member of: The Spanish Society of Pediatric Emergencies (SEUP)

Dr. López Llames, Aurora

- ♦ Medical Specialist in Otorhinolaryngology
- ♦ Head of the Department of Otorhinolaryngology at the University Hospital of Torrevieja
- ♦ Specialist Physician in Menorca Ib-Salut
- ♦ Otorhinolaryngologist at Asturias Central University Hospital
- ♦ Master's Degree in Clinical Management from the Open University of Catalonia
- ♦ Graduate in Medicine and Surgery from the University of Oviedo

04

Structure and Content

Through this university program, nurses will be highly qualified to address Trauma Emergencies in the Outpatient Setting, as well as pathologies caused by Physical Agents and Poisoning. The study plan will thoroughly delve into the biomechanics of accidents, which will help graduates to prioritize care in an appropriate manner and apply the most appropriate immobilization and first aid techniques. In line with this, the syllabus will delve into the management of common injuries such as Locomotor Trauma, Hypovolemic Shock, stab wounds and even animal bites.





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You will develop clinical skills to quickly identify trauma emergencies, cases of exposure to physical agents and intoxications”

Module 1. Severe Trauma Care (Catastrophic or HSE)

- 1.1. Generalities
- 1.2. Biomechanics of Accidents
- 1.3. Primary and Secondary Assessment
- 1.4. TBI
- 1.5. Thoracic Trauma
- 1.6. Abdominal Trauma
- 1.7. Vertebral Trauma and Spinal Cord Injury
- 1.8. Trauma of the Locomotor System
- 1.9. Injuries
- 1.10. Hypovolemic Shock
- 1.11. Pediatric Trauma
- 1.12. Trauma During Pregnancy
- 1.13. Special Traumas
- 1.14. Injuries due to Physical and Environmental Agents
- 1.15. Bites and Stings
- 1.16. Analgesia and Sedation
- 1.17. Mobilization and Immobilization Materials and Techniques
- 1.18. Rescue and Medical Care in Confined and Remote Places

Module 2. Other Important Aspects in Emergencies

- 2.1. Communication Skills in Emergencies
- 2.2. Patient Safety
- 2.3. New Professional Skills in Accident and Emergency Care
- 2.4. New Technologies in Emergencies

Module 3. Toxicological Emergencies

- 3.1. General Aspects of an Poisoned Patient
- 3.2. Most Frequent Poisonings

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TECH has designed an intensive program that will allow you to reconcile your nursing activity with a first class qualification. 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.



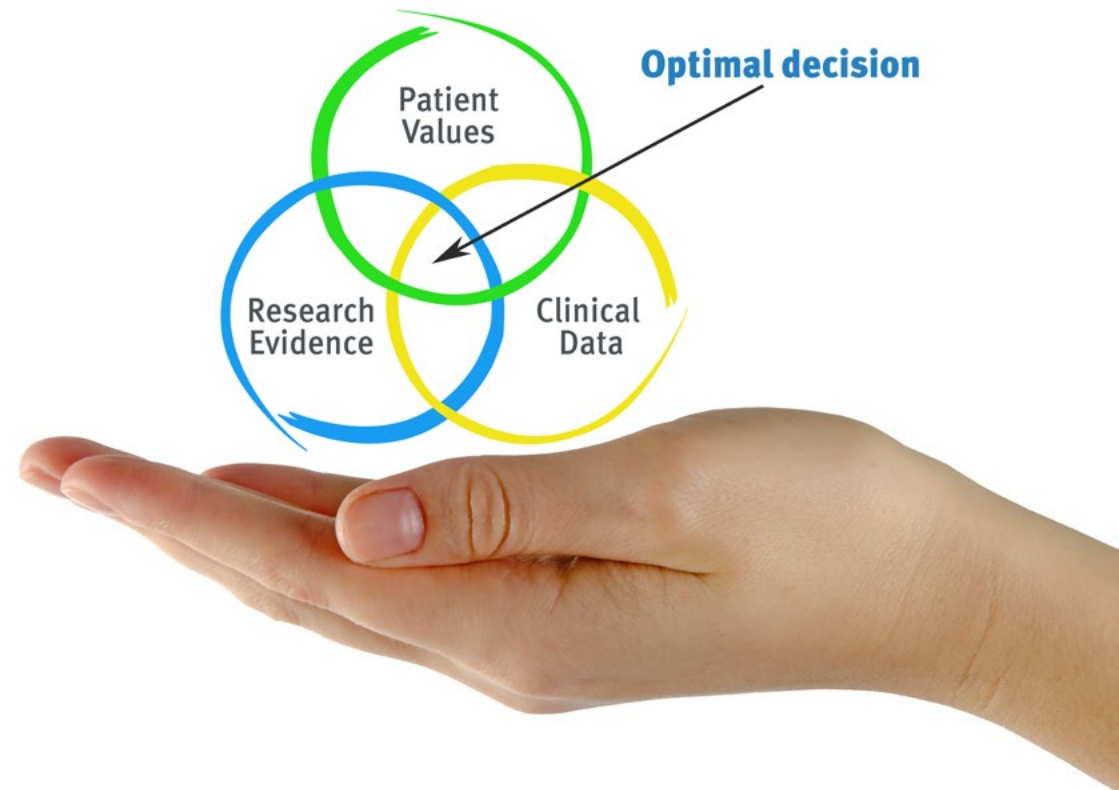
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

With TECH, nurses can experience a learning methodology 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, in an attempt to recreate the real conditions in professional nursing 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:

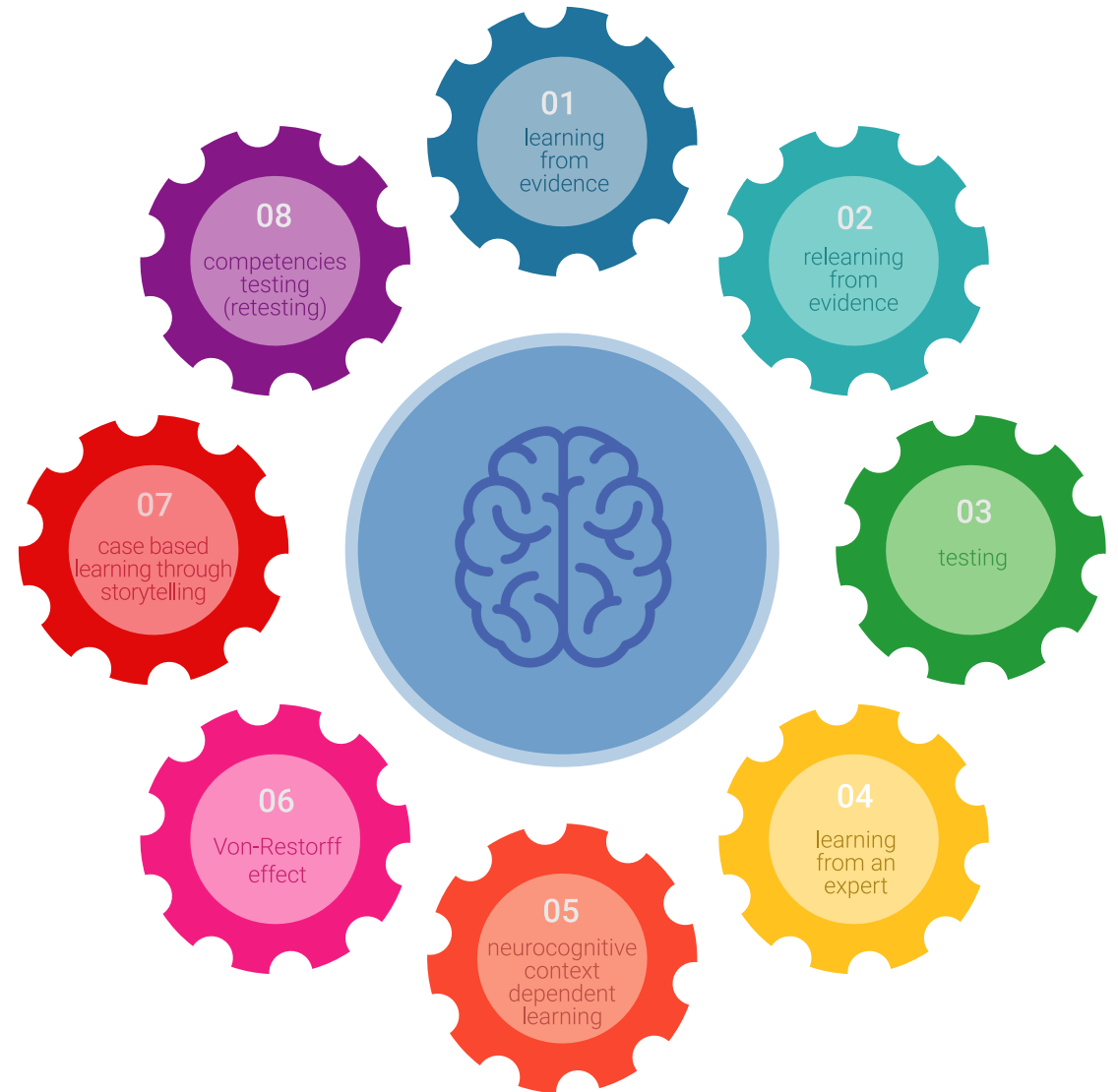
1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.

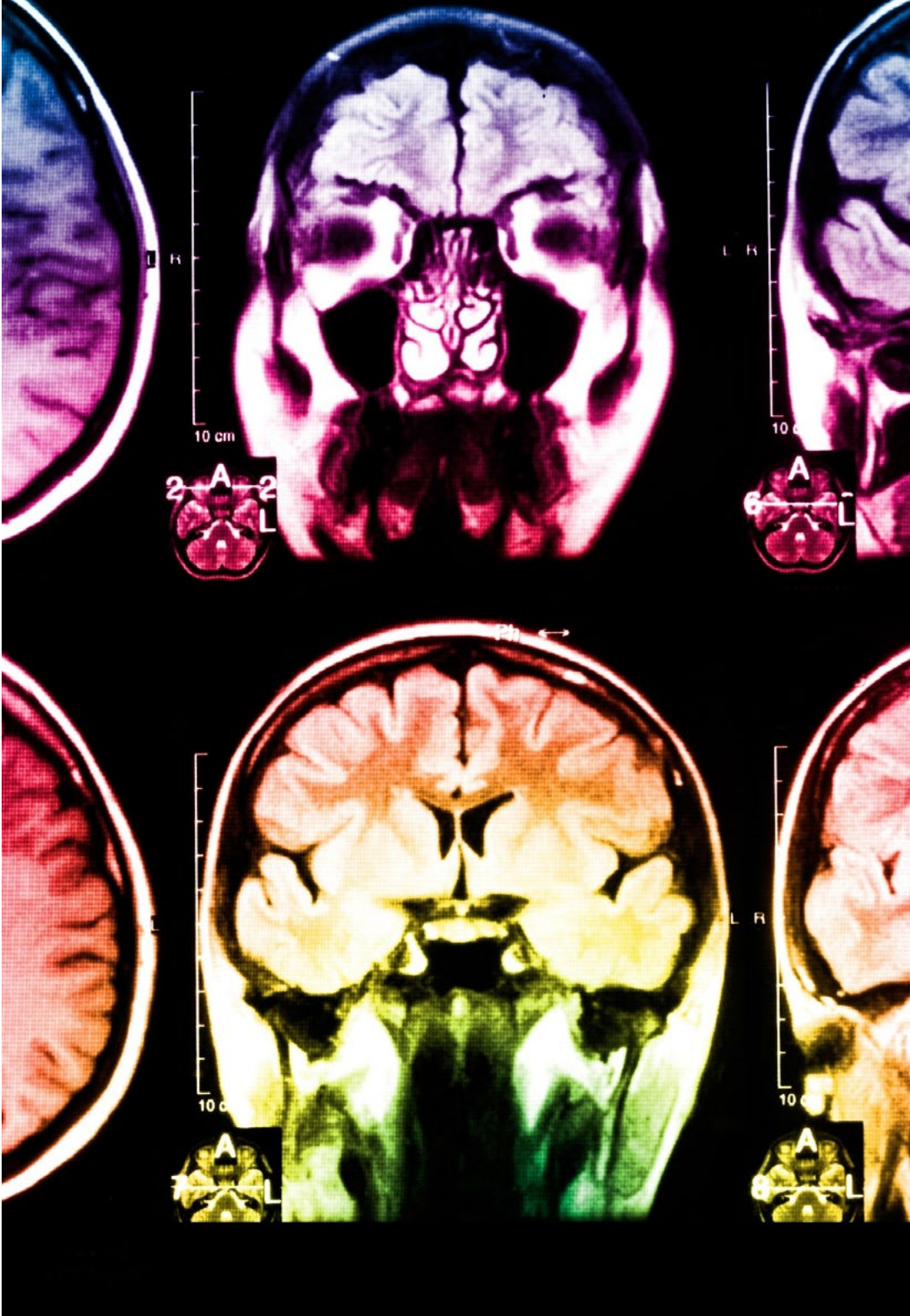
At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialties regardless of practical workload. 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 really specific and precise.

These contents are then adapted in 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.



Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All 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 them as many times as you want.



Interactive Summaries

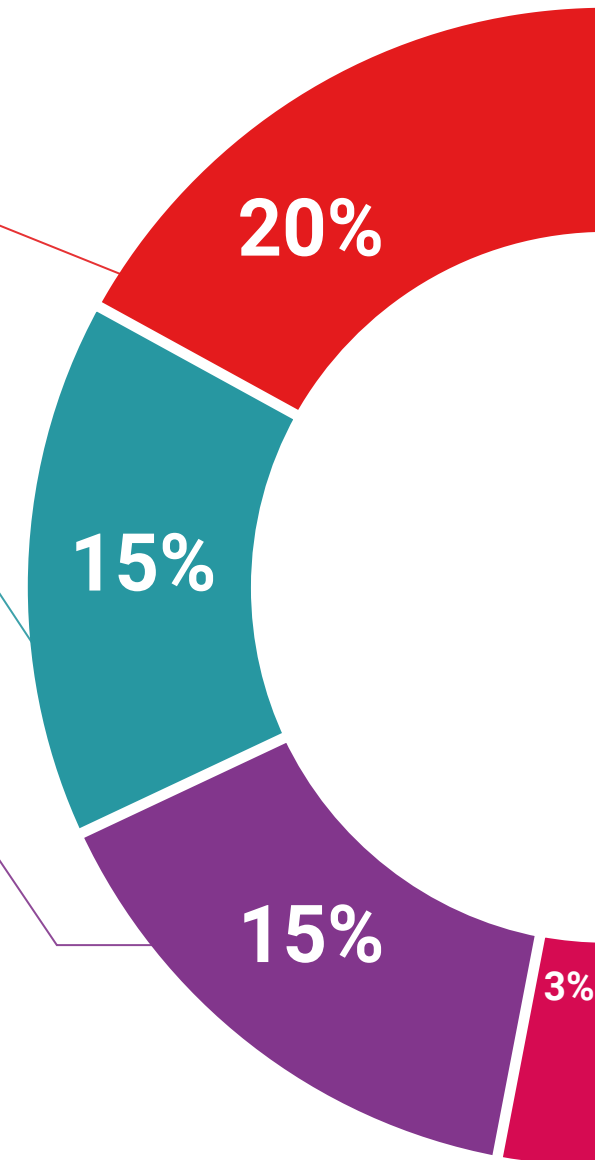
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

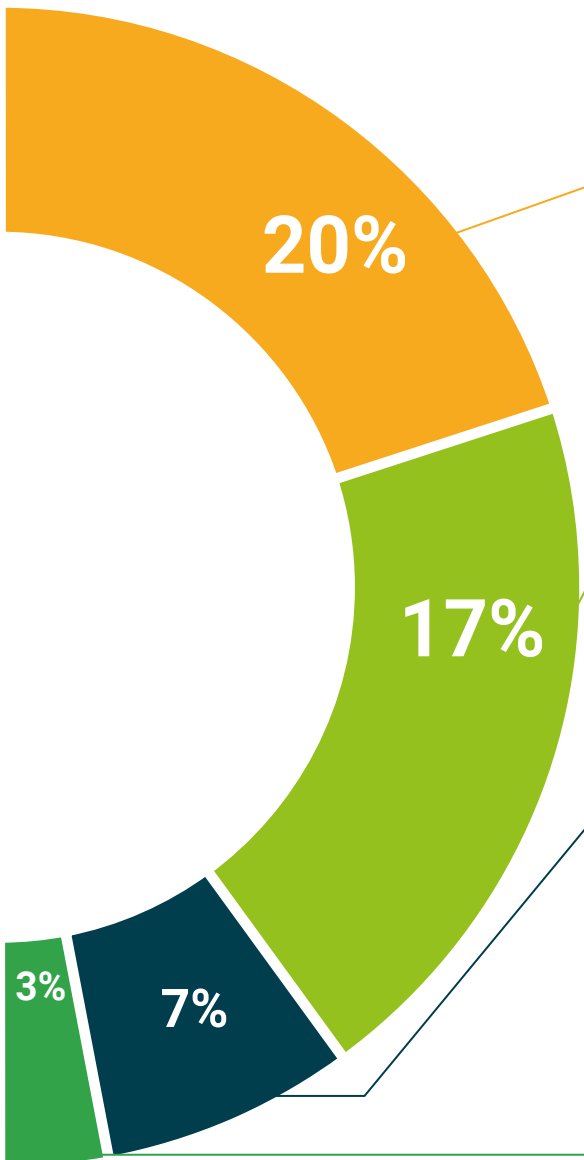
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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

The student's knowledge is periodically assessed and re-assessed throughout the program, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of achieving their goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.
Learning from an Expert strengthens knowledge and memory, and generates confidence in 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 Trauma Emergencies, Emergencies due to Physical Agents and Poisoning in the Outpatient Setting for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 private qualification will allow you to obtain a **Postgraduate Certificate in Trauma Emergencies, Emergencies due to Physical Agents and Poisoning in the Outpatient Setting for Nursing** 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 Trauma Emergencies, Emergencies due to Physical Agents and Poisoning in the Outpatient Setting for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **4 ECTS**



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