

# Postgraduate Certificate

Nursing in Trauma and Vascular  
Emergencies in Primary Care





## Postgraduate Certificate Nursing in Trauma and Vascular Emergencies in Primary Care

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/pk/nursing/postgraduate-certificate/nursing-trauma-vascular-emergencies-primary-care](http://www.techtute.com/pk/nursing/postgraduate-certificate/nursing-trauma-vascular-emergencies-primary-care)

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01

# Introduction

The Postgraduate Certificate in Nursing in Trauma and Vascular Emergencies in Primary Care is designed to update nursing procedures for patients with trauma and vascular etiology pathologies, which nursing professionals must frequently face in their daily clinical practice, to identify, treat and correctly refer the patient.







*This Postgraduate Certificate addresses the main aspects of trauma and vascular emergencies in Primary Care, so as to enable you to face situations that may compromise patient health. Learn how to identify, initially treat and eventually transfer patients with osteoarticular and vascular problems from primary health care to the hospital”*

This Postgraduate Certificate in Nursing in Trauma and Vascular Emergencies in Primary Care is a complete program that includes comprehensive plans of systematized action in the face of musculoskeletal emergencies and those of neurosurgical etiology that primary care nurses must face in their daily clinical practice, helping them to make prompt and precise decisions.

The program includes various approaches to trauma and its systemic consequences in different parts of the body, as well as patient care for polytrauma, cerebral hemorrhages, arterial ischemia, DVT or aneurysmal disease. It also offers workshops designed to update nursing procedures such as mobilization and immobilization of trauma patients, functional bandaging, casting, wound dressings and suturing.

The program contents are based on the latest scientific evidence and the experience of renowned professionals in the field of Primary Care, which makes them practical and easy to transfer to routine clinical work.

The **Postgraduate Certificate in Nursing in Trauma and Vascular Emergencies in Primary Care** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Clinical cases presented by experts in the different specialties. The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- Latest developments in diagnostic and therapeutic nursing action in the most frequent trauma and vascular emergencies in the primary health care setting; it also includes the approach to trauma, wounds, burns and hemorrhages, as well as managing patients with cerebral hemorrhage and implementing the Polytrauma Code.
- Presentation of nursing procedures, diagnostic and therapeutic techniques, such as workshops on mobilization and immobilization of trauma patients, functional bandaging, casting, dressings or sutures.
- An entire module dedicated to vascular emergencies.
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- All of this will be complemented by 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



*Update your knowledge through the Postgraduate Certificate in Nursing in Trauma and Vascular Emergencies in Primary Care in a practical way adapted to your needs"*

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*This Postgraduate Certificate may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge of Nursing in Trauma and Vascular Emergencies in Primary Care, you will obtain a qualification from TECH Technological University”*

Forming part of the teaching staff is a group of professionals in the field of Primary Care, who bring to this course their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

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 training program to train in real situations.

The program design is based on Problem-Based Learning, by means of which the nursing professional must try to solve the different professional practice situations that arise throughout the Postgraduate Certificate. For this reason, you will be assisted by an innovative, interactive video system created by renowned of health and and experienced experts in the field of trauma and vascular emergencies in primary care with extensive teaching experience.

*This Postgraduate Certificate provides training in simulated environments, which provides immersive learning designed to train professionals for real situations.*

*It includes clinical cases to bring the program's degree as close as possible to the reality of care in Nursing.*



02

# Objectives

The program's primary objective is focused on theoretical and practical learning, so that nursing professionals can practically and rigorously master the approach to patients in emergency situations in primary health care.





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*This refresher program will generate a sense of confidence when practising nursing, which will help you grow both personally and professionally”*



## General Objective

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- ♦ Establish action protocols for trauma and vascular emergencies faced by nursing professionals in their daily clinical practice, helping them to make prompt and precise decisions



## Specific Objectives

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- ♦ Update the general procedures and techniques applied to patients in the most frequent trauma and vascular emergencies
- ♦ Update mobilization and immobilization procedures for trauma patients
- ♦ Determine procedural applications for functional dressings and casting, as well as acute and chronic wound dressings and sutures
- ♦ Describe the comprehensive plan to implement the Polytrauma Code
- ♦ Update general procedures and techniques applied to patients in the most frequent vascular emergency situations
- ♦ Describe the clinical presentation of acute arterial ischemia and the courses of action to follow in case of clinical suspicion
- ♦ Establish the protocol for suspected deep vein thrombosis and inclusion criteria
- ♦ Analyze the risk factors presented by patients with deep vein thrombosis
- ♦ Determine the anticoagulation administration schedule to stabilize thromboses and prevent fragmentation
- ♦ Establish the steps to be followed in the event of aneurysms
- ♦ Define classification strategies for aortic aneurysms according to shape, size, location, structure or etiology



- ♦ Describe patient management in cases of suspected ruptured aneurysm  
Make the most of the opportunity and take the step to get up to date on the latest developments in trauma and vascular emergencies in primary care

“*Make the most of the opportunity and take the step to get up to date on the latest developments in Nursing in Trauma and Vascular Emergencies in Primary Care*”

03

# Course Management

The program includes health professionals of recognized prestige in its teaching staff, who practice in the field of trauma and vascular emergencies in Primary Care, and who pour into this training the experience of their work. Also involved in designing and preparing the program are renowned specialists who are members of prestigious national and international scientific communities.







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*Learn from leading professionals the latest advances in nursing procedures for infectious and oncological emergencies in Primary Healthcare”*



## International Guest Director

As **National Director of Clinical Innovation** at US Acute Care Solutions, Jesse M. Pines, M.D., is one of the most recognized figures in the **Emergency Medicine and Healthcare Services** field. In fact, his accomplishments include the creation and execution of the first governmental alternative payment model (ED EQUIP, in Maryland) to reduce the total cost of care. In addition, he leads the development and implementation of Telemedicine programs covering a wide variety of specialties, including the ER, Psychiatry and Intensive Care Units, among others.

His extensive experience in **medical leadership**, large database study design and Big Data research has led him to publish over 350 peer-reviewed articles and writing seven books in these areas. His work has been recognized internationally in various reputable media outlets, including TIME Magazine, the Wall Street Journal and Slate Magazine.

His more than two decades of experience have earned him several leadership positions at George Washington University. Among them, he was the **Director** of the Center for Health Innovation and Research, also leading the Research Fellowship program and the Center for Healthcare Quality.

Therefore, throughout his career, Dr. Jesse M. Pines has received multiple awards, both for the articles he has published and for his own work and contribution to the **field of Emergency Medicine**. He is also the **President of the working group on New Models of Professional Practice of the American College of Emergency Physicians (ACEP)**, holding various positions in the ACEP itself as well as in the Society for Academic Emergency Medicine and the American Academy of Emergency Medicine.



## Dr. Pines, Jesse M.

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- National Director of Clinical Innovation at US Acute Care Solutions, United States
- Emergency Physician at Allegheny Health Network
- Professor of Emergency Medicine at The George Washington University, USA
- Professor of Emergency Medicine at Drexel University
- Director of the Medical Research Fellowship Program at The George Washington University
- Director of the George Washington University Center for Health Research and Innovation
- M.D., Georgetown University
- Master of Business Administration from Georgetown University
- Master's Degree in Clinical Epidemiology from the University of Pennsylvania



*Thanks to TECH you will be able to learn with the world's best professionals"*

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## Dr. Maliszewski, Barbara

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- Senior Director of Nursing at Johns Hopkins Hospital and Johns Hopkins Bayview Medical Center
- Deputy Director of Nursing at Johns Hopkins Bayview Medical Center, Department of Emergency Medicine and Critical Care Transport
- Nurse Practitioner at Johns Hopkins Bayview Medical Center, Department of Surgery
- Journal of Clinical Nursing Reviewer
- Master of Science in Nursing, Towson University
- Bachelor of Science in Nursing from the University of Maryland
- Emergency Nurses Association

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*Thanks to TECH you will be able to learn with the world's best professionals”*

## Management



### Dr. Roig D' Cunha-Kamath, Vicente Francisco.

- Degree in Medicine from the University of Valencia
- Specialist via MIR in Family and Community Medicine
- Assistant Physician of the Emergency Medicine Department at the Clinical University Hospital of Valencia.
- Professor of Human Anatomy at the European University of Valencia.
- Physician at the Valencia Health and Community Foundation.
- Doctor for the ASCIRES group



## Professors

### **Mrs. Forés Rivas, Ana.**

- ◆ Nurse in the Intensive Care Unit at Dr. Peset University Hospital in Valencia.

### **Mr. Brasó Aznar, José Vicente.**

- ◆ Hospital Emergency Physician
- ◆ Associate Professor of Emergency Medicine at the Faculty of Medicine of the University of Valencia.
- ◆ Department Head. Emergency Medicine. Ribera University Hospital



04

# Structure and Content

The content structure has been designed by a team of professionals knowledgeable about the implications of specialization in daily nursing practice in trauma and vascular emergencies in Primary Care, aware of the relevance of current specialization in order to be able to act in cases of urgent pathologies, and committed to quality teaching through new educational technologies.





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*The Postgraduate Certificate in Nursing in Trauma and Vascular Emergencies in Primary Care contains the most complete and up-to-date scientific program on the market”*



### Module 1 Trauma and Neurosurgical Emergencies

- 1.1. Lower Back Pain and Lumbosciatica
- 1.2. Trauma General aspects
- 1.3. Lower Extremity Trauma
- 1.4. Upper Extremity Trauma
- 1.5. Body and Head Trauma
- 1.6. Cranioencephalic Trauma Skull Fractures and Contusions
- 1.7. Thoracic Trauma Rib Fractures and Contusions
- 1.8. Vertebral Fractures and Contusions
- 1.9. Cerebral Hemorrhage
- 1.10. Spinal Cord Injury
- 1.11. Out-of-Hospital Major Trauma Care POLYTRAUMA CODE.
- 1.12. Injuries and Burns
- 1.13. Workshop on Mobilization and Immobilization of Trauma Patients
- 1.14. Workshop on Functional Bandages
- 1.15. Plaster Workshop
- 1.16. Acute and Chronic Wound Care Workshop
- 1.17. Suture Workshop

### Module 2 Vascular Emergencies

- 2.1. Acute Limb Ischemia
- 2.2. Deep Vein Thrombosis
- 2.3. Venous Insufficiency
- 2.4. Aneurysmal Disease





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*A unique, key, and decisive master's degree experience to boost your professional development”*



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. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, 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 specialities 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 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.



### 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

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 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 Nursing in Trauma and Vascular Emergencies in Primary Care guarantees, in addition to the most accurate and up-to-date specialization, access to a qualification issued by TECH Technological University.





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*Successfully complete this specialization and receive your diploma without the hassle of travel or paperwork”*



The **Postgraduate Certificate in Nursing in Trauma and Vascular Emergencies in Primary Care** contains the most complete and up-to-date scientific program on the market.

After the student has passed the evaluations, they will receive their corresponding certificate issued by **TECH Technological University via tracked delivery**.

The certificate issued by **TECH Technological University** will specify the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Nursing in Trauma and Vascular Emergencies in Primary Care**

Official N° of Hours: **75 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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