

# Postgraduate Certificate

## Severe Trauma Patients in Intensive Care Medicine



## Postgraduate Certificate Severe Trauma Patients in Intensive Care Medicine

Course Modality: **Online**

Duration: **6 weeks**

Endorsed by: **TECH Technological University**

**6 ECTS credits**

Hours **150 hours**.

Website: [www.techtute.com/pk/medicine/postgraduate-certificate/severe-trauma-patients-intensive-care-medicine](http://www.techtute.com/pk/medicine/postgraduate-certificate/severe-trauma-patients-intensive-care-medicine)

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# 01

# Introduction

The physician specialized in intensive care medicine is confronted daily with patients who have suffered severe and potentially life-threatening trauma, so a constant updating of the professional is vital to maintain the quality of the care they provide every day. This program includes, in a practical way and adapted to your needs, the latest advances in the approach to severe trauma in the intensive care unit.







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*The new scenarios in intensive care medicine push us to propose new update programs that meet the real needs of experienced professionals, so that they can incorporate the advances in advanced life support maneuvers in the critically ill patient"*

The innumerable variables that can influence severe traumatic disease during its evolution complicate its management in the intensive care unit, and require multidisciplinary assessment and treatment, with the presence of the specialist in intensive care medicine as coordinator of the severe trauma care team and leader in the critical care unit procedures being essential.

This Postgraduate Certificate on the Severe Traumatic Patient in Intensive Care Medicine aims to respond to the training needs of physicians working in an Intensive Care Unit and to give them the opportunity to update their knowledge in the approach to the severe traumatic patient.

The student will obtain the necessary knowledge for the management of the severe trauma patient, from the initial assessment to the management of fluids, vasoactive support, coagulopathy and more specific situations such as the management of craniocerebral, thoracic and abdominal trauma that are carried out in an Intensive Care Unit.

This **Postgraduate Certificate in Severe Trauma Patients in Intensive Care Medicine** contains the most comprehensive and up-to-date scientific program on the market.

The most important features of the course are:

- ♦ Clinical cases presented by experts in Intensive Care Medicine. The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are Doctor essential for professional
- ♦ Diagnostic and therapeutic novelties in the severe trauma patient in the ICU
- ♦ Interactive learning system based on algorithms for decision making on different clinical situations
- ♦ 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 on Severe Trauma Patients in Intensive Care Medicine, in a practical way and 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 in Severe Trauma Patients in Intensive Care Medicine, you will obtain a certificate from TECH Technological University"*

Forming part of the teaching staff is a group of professionals in the world of Intensive Care Medicine, 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.

This program is designed around Problem Based Learning, whereby the Doctor must try to solve the different professional practice situations that arise during the course university. This will be done with the help of an innovative interactive video system developed by renowned experts in the field of Intensive care medicine with extensive teaching experience.

*Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.*

*Take the opportunity to learn about the latest advances in Severe Trauma Patients in Intensive Care Medicine and improve your students' education.*





# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a rigorous way the organisation of an Intensive Care Unit.





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*This up-to-date program will generate a sense of confidence when practising medicine, which will help you grow both personally and professionally”*



## General Objective

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- Update the intensive care physician in the procedures for patients with severe trauma and more specific situations such as the management of cranioencephalic, thoracic and abdominal trauma that are carried out in an Intensive Care Unit



*Update your knowledge through the program on Severe Trauma Patients in Intensive Care Medicine”*







## Specific Objectives

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- ♦ Describe the process of initial assessment and stabilization of the severe trauma patient
- ♦ Update the procedures for approaching severe traumatic brain injury
- ♦ Explain the role, indications and importance of fluids, transfusion and vasoactive support in severe trauma patients
- ♦ Point out the approach to coagulopathy in the severe trauma patient
- ♦ Define and approach the management of the patients with thoracic trauma
- ♦ Define the procedures for the management of patients with abdominal trauma

# 03

## Structure and Content

The structure of the contents has been designed by the team of professionals aware of the implications of constant updating in the management of Severe Trauma Patients, conscious of the relevance of this training in the professional.





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*This Postgraduate Certificate in Severe Trauma Patients in Intensive Care Medicine contains the most comprehensive and up-to-date scientific program on the market”*

### **Module 1. Severe Trauma Patient**

- 1.1. Initial Assessment
- 1.2. Initial Stabilization
- 1.3. Secondary Assessment and Definitive Stabilization

### **Module 2. Current Management of Severe Head Trauma**

- 2.1. Initial Management
- 2.2. Surgical Indications/Definitive Stabilization
- 2.3. ICU Management

### **Module 3. Fluids, Transfusion and Vasoactive Support in the Severe Trauma Patient**

- 3.1. Shock in Severe Trauma Patients
- 3.2. Hemodynamic Assessment and Support
- 3.3. Critical Hemorrhage in Severe Trauma Patients

### **Module 4. Thoracic Trauma**

- 4.1. Initial Management
- 4.2. Surgical Indications/Definitive Stabilization
- 4.3. ICU Management

### **Module 5. Abdominal Trauma**

- 5.1. Initial Management
- 5.2. Surgical Indications/Definitive Stabilization
- 5.3. ICU Management



### Module 6. Spinal Cord Injury

- 6.1. Initial Management
- 6.2. Surgical Indications/Definitive Stabilization
- 6.3. ICU Management

### Module 7. Major Burns and Electrical Trauma

- 7.1. Initial Management
- 7.2. Surgical Indications/Definitive Stabilization
- 7.3. ICU Management

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*A unique, key, and decisive training experience to boost your professional development”*



04

# 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 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. 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, trying to recreate the real conditions in the physician's professional 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. 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.





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# Certificate

The Postgraduate Certificate in Patients with Severe Trauma in Intensive Care Medicine guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Technological University.



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*Successfully complete this training and receive your diploma without the hassle of travel or paperwork"*

This **Postgraduate Certificate in Severe Trauma Patients in Intensive Care Medicine** contains the most comprehensive and up-to-date scientific program on the market.

After students have passed the evaluations, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery.

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

Title: **Postgraduate Certificate in Severe Trauma Patients in Intensive Care Medicine**

ECTS: 6

N.º Hours: 150



\*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.



future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
development languages  
virtual classroom



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Course Modality: Online

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6 ECTS credits

Hours 150 hours.

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