



Postgraduate Certificate

Initial Hospital Care and Fluid Therapy in Major Burns

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Official N° of hours: 150 h.

Website: www.techtitute.com/in/medicine/postgraduate-certificate/initial-hospital-care-fluid-therapy-major-burn-injuries

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Certificate





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This Postgraduate Certificate in Initial Hospital Care and Fluid Therapy in Major Burns has been designed for health professionals to acquire superior knowledge and review the actions to be performed when the patient arrives at the hospital. This phase is of special importance for the patient's prognosis, since the final success depends to a large extent on an adequate evaluation and appropriate initial treatment.

For proper care, the first thing to do is to re-evaluate the patient with specialized personnel and start fluid therapy. Therefore, this program provides the keys to achieve adequate fluid therapy, avoiding both excess and deficiency of volume. In addition, the new balanced formulations, the factors that can lead to excess fluids (fluid creep phenomenon) and the monitoring required by each patient depending on the severity are discussed here.

The indications and problems of monitoring are also reviewed, and emphasis is placed on transpulmonary thermodilution as the most widely used invasive monitoring in recent years, explaining its advantages, as well as its limitations and possible sources of error to provide the student with practical knowledge, which is complemented with different protocols for action.

In addition to the complete and fully updated information, it offers the greatest experience from the teaching staff in the treatment of this type of patient. This experience is very valuable since there are very few burn units and, therefore, the possibility of training in them is scarce. As a main advantage, it is a 100% online specialization, so the student can decide from where to study and at what time to do it, in this way, they can flexibly self-direct their study hours.

This Postgraduate Certificate in Initial Hospital Care and Fluid Therapy in Major Burns contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- The development of clinical practical case studies presented by experts in burns
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- The presentation of practical workshops on procedures and techniques
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Action protocols and clinical practice guidelines, which cover the most important latest developments in this specialist area
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Special emphasis on test-based medicine and research methodologies
- Content that is accessible from any fixed or portable device with an Internet connection



Increase your proficiency in treating patients with major burns and give your career a boost"

Introduction | 07 tech



This Postgraduate Certificate is the best investment you can make in a specialization to update your knowledge in the care of patients with major burns"

The teaching staff includes a team of prestigious urologists, who bring their experience to this program, as well as renowned specialists from leading scientific societies.

Its multimedia content, developed with the latest educational technology, will allow professionals to learn in a contextual and situated learning environment, i.e., a simulated environment that will provide immersive specialization for real situations.

The design of this program focuses on Problem-Based Learning, by means of which professionals must try to solve the different professional practice situations that are presented to them throughout the academic year. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in radiology centers with extensive teaching experience.

This Postgraduate Certificate allows you to study from anywhere in the world. All you need is a computer or mobile device with an internet connection.

Our innovative teaching methodology will allow you to study as if you were dealing with real cases, and therefore increasing your training.







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General objectives

- Learn to manage and treat this complex pathology in which Intensive Care Medicine Specialists and plastic surgeons are fundamentally involved, but also other specialists such as anesthesiologists, infectologists, rehabilitators, psychiatrists, etc., and, of course, specialized nurses
- Offer a complete, integrated and multidisciplinary specialization that enables the care of patients with severe burns and that, through a multidisciplinary knowledge, facilitates the collaboration with other specialists







Specific objectives

- Gain an in-depth understanding of the basics of fluid therapy and monitoring in critically ill patients
- Discuss existing differences in criteria
- Know how to interpret monitoring results with special attention to limitations and possible errors
- Integrate data from different surveys to enable the student to make appropriate decisions



Our goal is to achieve academic excellence and to help you achieve it too"



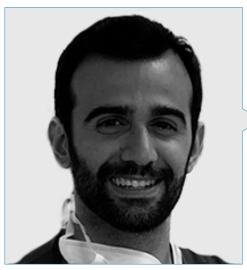
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A team of leading professionals in the field of burns, who work in major hospitals of great prestige, have created the syllabus, transferring to the program their experience gained in their jobs throughout their careers.



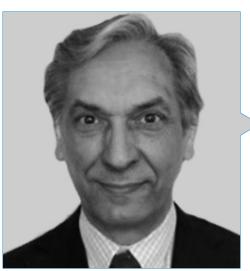
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Management



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- Attending Physician in Intensive Care Medicine University Hospital 12 de Octubre
- Fellowship in Cardiothoracic Critical Care. Papworth Hospital. Cambridge UK
- Extracorporeal Life Support Organization (ELSO)
- Specialist in Intensive Care Medicine
- Degree in Medicine. Cádiz University



Dr. Sánchez Sánchez, Santos Manuel

- Head of Section of Intensive Care Medicine La Paz University Hospital.
- Doctor of Medicine from the Autonomous University Madrid. Outstanding Cum Laude
- Master's Degree in Clinical, Medical and Healthcare Management. CEU Cardenal Herrera University
- Medical Specialist in Intensive Care Medicine. La Paz University Hospita
- Degree in Medicine and Surgery. University of Salamanca.



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Professors

Dr. Rodríguez Peláez, Jorge

- Resident of Intensive Care Medicine at La Paz University Hospital
- Degree in Medicine from the University of Oviedo
- Advanced CPR Instructor. Autonomous University of Barcelona
- Teaching assistant for the Master in Critical Illness and Emergencies

Dr. Flores Cabeza, Eva

- Specialist in Intensive Care Medicine in the Burn Unit at the La Paz University Hospital
- Member of the High-Level Isolation Unit La Paz-Carlos III
- Certified Expert in Emerging and High-Risk Virus Pathology in the UAM

Dr. Ruiz Barranco, Inés

- Specialist in Intensive Care Medicine in the Burn Unit at the La Paz University Hospital
- Head of the ICU service in the Multidisciplinary Critical Care Unit COVID-19, newly created

Dr. García Muñoz, Andoni

- Associate of Intensive Care Medicine
- Degree in Medicine and Surgery, University of the Basque Country
- Master's Degree in Clinical Ultrasound for Emergency and Intensive Care CEU

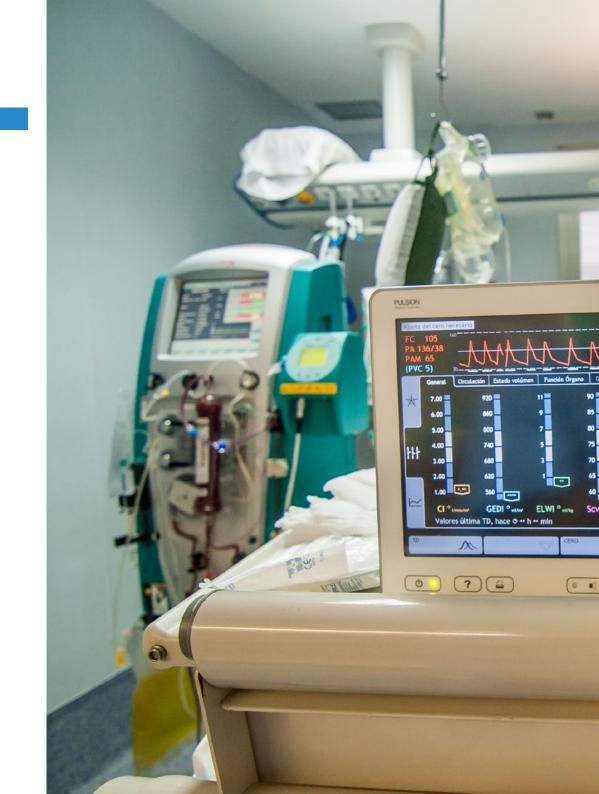




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Module 1. Initial Hospital Care and Fluid Therapy

- 1.1. Re-Evaluation
 - 1.1.1. Water and Hemodynamic Status
 - 1.1.2. Respiratory Status
 - 1.1.3. Compartment Syndrome
- 1.2. Types of Fluid
 - 1.2.1. Crystalloids
 - 1.2.1.1. Classic
 - 1.2.1.2. Balanced
 - 1.2.2. Colloids
 - 1.2.2.1. Albumin
 - 1.2.3. Transfusions
- 1.3. Formulas to initiate Fluid Therapy
 - 1.3.1. Formulas with Colloids
 - 1.3.2. Formulas without Colloids
 - 1.3.3. Other Formulas
- 1.4. Fluid Therapy Problems
 - 1.4.1. Causes of Fluid Creep
 - 1.4.2. Effects of Fluid Creep
- 1.5. Non-Invasive Monitoring
 - 1.5.1. Heart Rate
 - 1.5.2. Arterial Pressure
 - 1.5.3. Diuresis
- 1.6. Invasive Monitoring
 - 1.6.1. Central Venous Pressure
 - 1.6.2. Pulmonary Artery Catheter
 - 1.6.3. Transpulmonary Thermodilution
 - 1.6.4. Ultrasound
 - 1.6.5. Others





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- 1.7. Protocols Based on Non-invasive Monitoring
 - 1.7.1. Indications
 - 1.7.2. Errors
- 1.8. Protocols Based on invasive Monitoring
 - 1.8.1. PVC Problems
 - 1.8.2. S-G Catheter Problems
- 1.9. Thermodilution Monitoring
 - 1.9.1. Heart Failure
 - 1.9.2. Static Preload Values
 - 1.9.3. Preload Dynamic Values
 - 1.9.4. Frequent Errors
- 1.10. Situation-specific Protocols
 - 1.10.1. Protocols for Less Severe Patients
 - 1.10.2. Protocols for Severe Patients



A unique, key, and decisive educational experience to boost your professional development"





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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:

- 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.



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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.



Methodology | 25 tech

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

With this methodology, more than 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.

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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

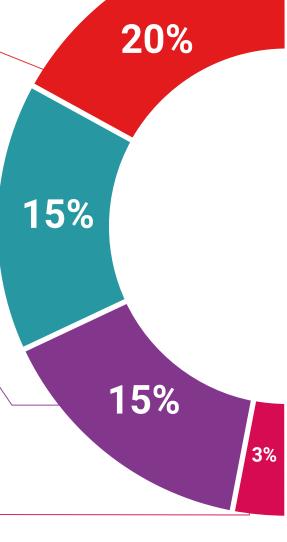
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many 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.

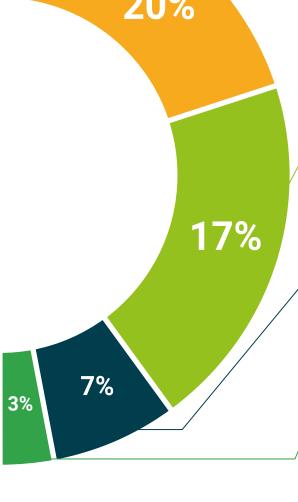
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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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This **Postgraduate Certificate in Initial Hospital Care and Fluid Therapy in Major Burns** contains the most complete and up-to-date scientific program on the market.

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

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

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