

Postgraduate Diploma

Current Management of Infectious
Pathology and Transplantation
in Intensive Care Medicine



Postgraduate Diploma Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 20 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-current-management-infectious-pathology-transplantation-intensive-care

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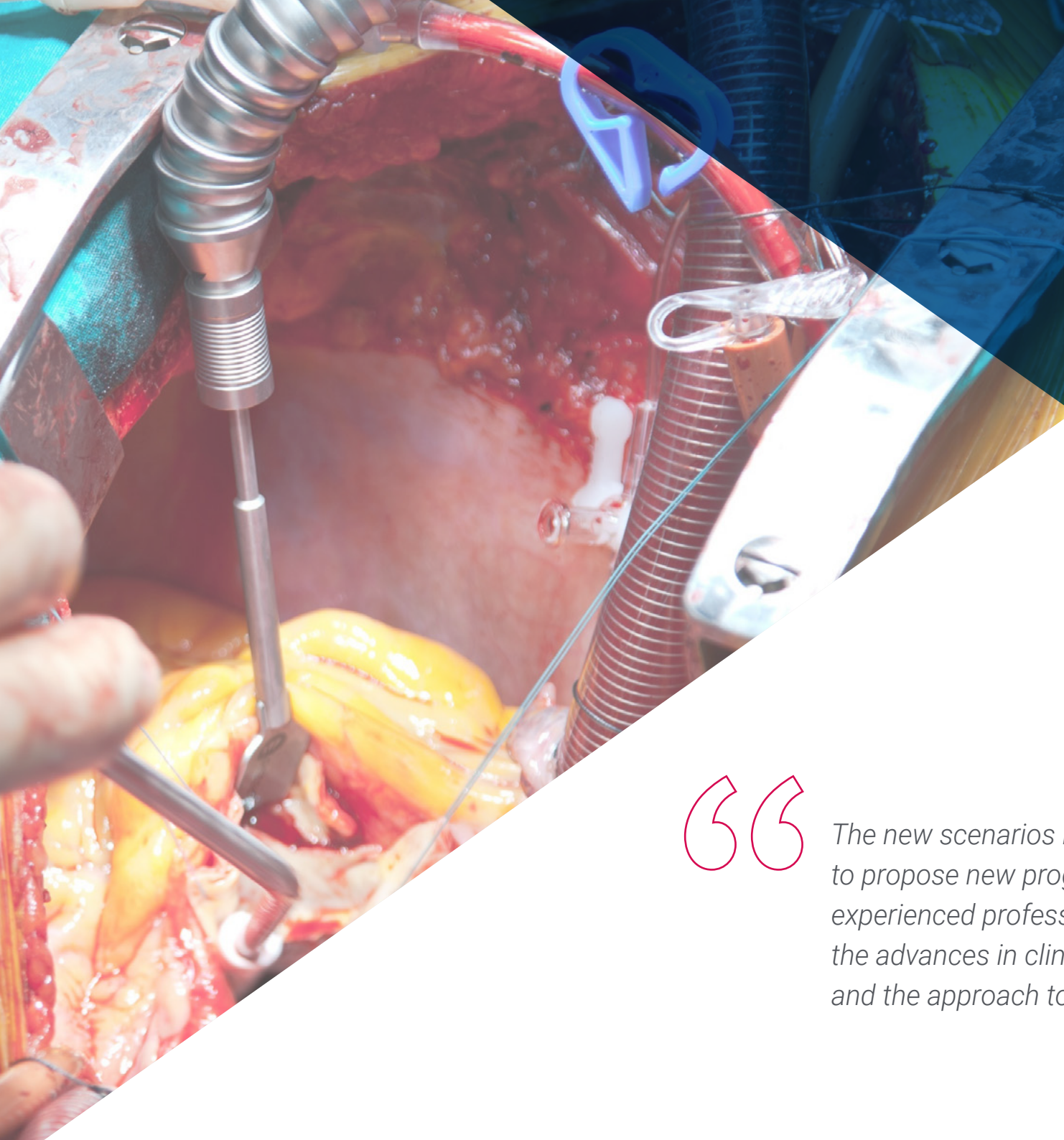
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01

Introduction

Infectious pathology and the approach to the transplantation process occur regularly in the ICU. Its complexity and the evolution of diagnostic and therapeutic procedures require constant specialization for the specialist. This program offers the incorporation of the latest advances in a practical way, so that they can develop their medical practice with quality and safety, improving the prognosis of their patients.





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The new scenarios in Intensive Care Medicine push us to propose new programs that meet the real needs of experienced professionals, so that they can incorporate the advances in clinical practice in infectious pathology and the approach to the transplanted patient"

Severe sepsis has a high incidence and remains one of the leading causes of death despite continuous improvements in the care of critically ill patients. The approach to infectious pathology in the critically ill patient is a very important aspect in the daily activity of Intensive Care Medicine, since early diagnosis and treatment leads to a better prognosis in these patients.

On the other hand, the role of Intensive Care Medicine in donation and transplantation programs of the National Transplant Organization is key and decisive. The intensive care physician should always consider the possibility of organ donation for transplantation, and is responsible for the diagnosis of brain death and the decision to withdraw maintenance measures, obtaining consent for donation, supporting the family, and in many cases, immediate care of the transplanted patient.

This Postgraduate Diploma in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine aims to respond to the specialization needs of the medical specialist, in order to update their knowledge in the approach to critical patients with infectious pathology and in the process of organ donation and transplantation in which they are involved, from the diagnosis of brain death, the assessment of the potential organ donor, the management of donors in encephalic death and heart failure to the stabilization and postoperative control of cardiac, hepatic and pulmonary transplant recipients.

This **Postgraduate Diploma in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Clinical cases presented by experts
- ♦ 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
- ♦ Diagnostic and therapeutic developments in the care of patients with neurological problems
- ♦ Practical workshops on procedures, diagnostic and therapeutic techniques for infectious diseases and guidelines for transplant procedures
- ♦ Video lessons on the different pathologies and their management
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Includes theoretical lectures, questions to the expert, discussion forums on controversial issues and individual reflection papers
- ♦ Content that is accessible from any fixed or portable device with



Scientific evidence increases the quality of medical care. Staying up to date is key to providing better care for patients with Infectious Pathology and Transplants in the Intensive Care Unit"

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This Postgraduate Diploma is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine, you will obtain a certificate issued by TECH Global University"

Its teaching staff includes leading intensive care doctors, who contribute their work experience to this program, as well as other specialists belonging to prestigious scientific societies.

Thanks to its multimedia content developed with the latest educational technology, they will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to prepare for real situations.

This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise throughout the program. This will be done with the help of an innovative system of interactive videos made by recognized experts in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge with this Postgraduate Diploma.

Don't miss the opportunity to update your knowledge in the care of patients with Infectious Pathology and Transplantation in the Intensive Care Unit to increase the quality of daily medical care.



02 Objectives

The program is oriented towards a review of the main aspects of the current management of the patient with infectious diseases and transplants in the Intensive Care Unit, based on scientific evidence and the experience of renowned professionals in the field of critical care.





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

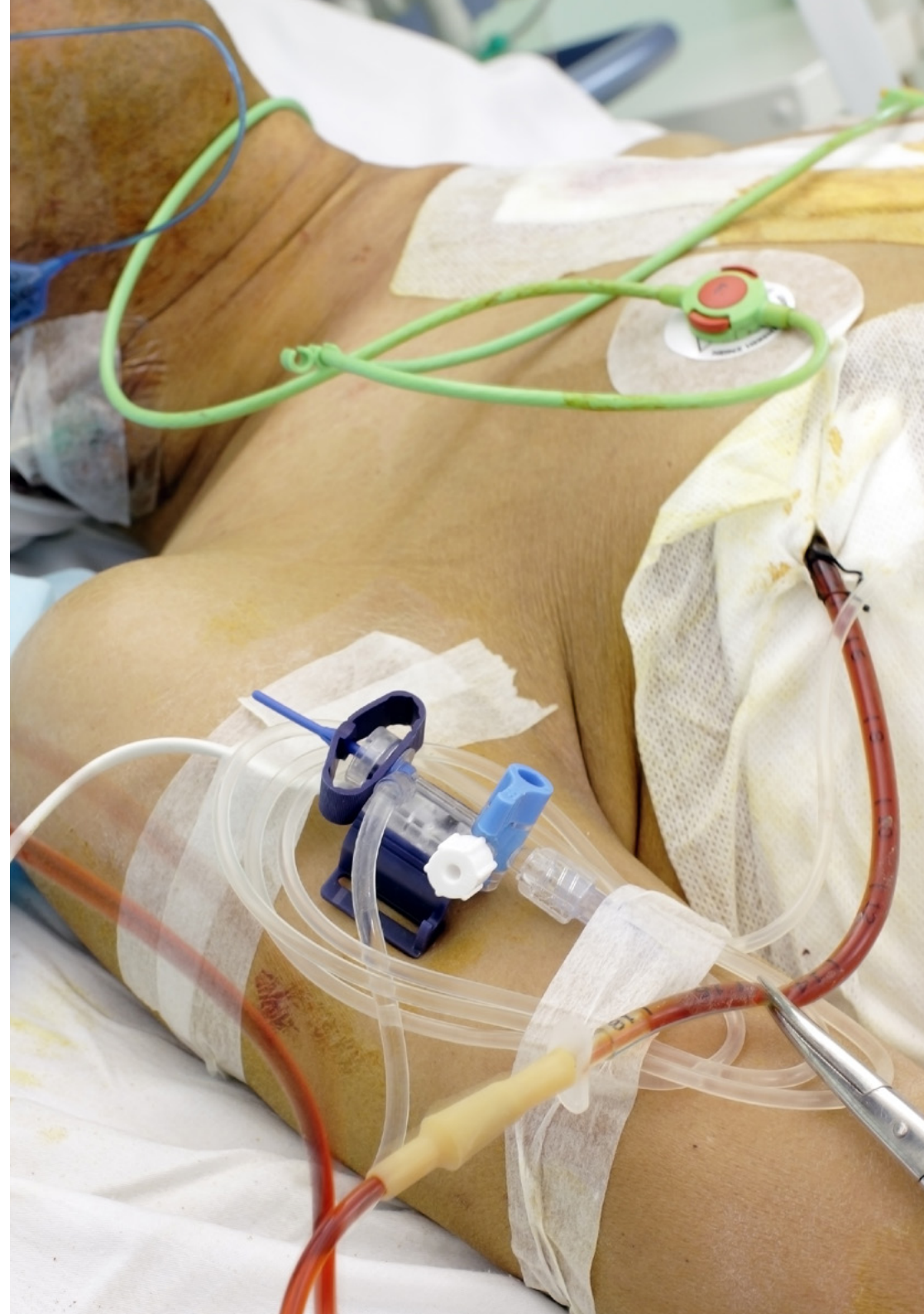


General Objective

- ♦ Update the knowledge of the specialist physician in the management of the patient with severe infection, with special attention to the case of severe sepsis and the infectious pathologies that most frequently require admission to the Intensive Care Unit, in addition to incorporating the advances in the process of organ donation and transplantation in which the specialist physician in Intensive Care Medicine is involved



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





Specific Objectives

Module 1. Management in the Intensive Care Unit

- ♦ Describe a patient safety program
- ♦ Define the usefulness of the electronic medical record in the ICU
- ♦ Explain the ICU without walls project for early detection of patients at risk
- ♦ Update the principles of ICU humanization and incorporate them into daily practice
- ♦ Describe keys to achieving greater quality and excellence in ICU service delivery
- ♦ Identify prognostic indicators in the ICU
- ♦ Point out and incorporate processes to improve communication, relationship and participation in the care of the family of the critically ill patient
- ♦ Explain the different special situations that the intensivist may face in relation to the limitation of therapeutic effort, the decision not to resuscitate or to rule out admission to the ICU

Module 2. Infectious Pathology in Intensive Care Medicine

- ♦ Update the procedures in the management of severe sepsis
- ♦ Analyze antibiotic policy in the ICU and resistance management
- ♦ Describe bacteremia, catheter sepsis and endocarditis in ICU
- ♦ Analyze the role of procalcitonin in the management of infection in the ICU
- ♦ Point out the key points in the management of fungal infection in the ICU
- ♦ Define severe pneumonia: community-acquired, nosocomial and ventilator-associated
- ♦ Describe the signs and symptoms of meningococcal meningitis

Module 3. Renal Management of the Critically Ill Patient and Organ Donation and Transplantation in Intensive Care Medicine

- ♦ Update in the management procedures for renal management of the critically ill patient
- ♦ Describe the signs and symptoms of Renal Pathology
- ♦ Incorporate up-to-date therapeutic procedures in renal pathology into clinical practice
- ♦ Identify the key points in the use of continuous extrarenal depuration techniques in the ICU
- ♦ Analyze the use of citrate in continuous techniques
- ♦ Describe the process of diagnosing brain death
- ♦ Update in the organ donor management procedures
- ♦ Explain the process of donation to a stopped heart
- ♦ Update in the procedures for the management of heart transplant recipient patients
- ♦ Gain an up-to-date understanding of the procedures for dealing with the recipient of liver transplantation patients
- ♦ Gain an up-to-date understanding of the procedures for dealing with the recipient of lung transplantation patients

03

Course Management

Highly recognized specialists in the field of Intensive Care have been incorporated to the teaching team of this program. These professionals perform their medical practice in leading hospitals and bring their work experience to this program. In addition, leading specialists who are members of renowned scientific societies participate in the conception and development of the program. In this way, they incorporate decades of experience into this program and summarize it in an online learning period of only 6 months.

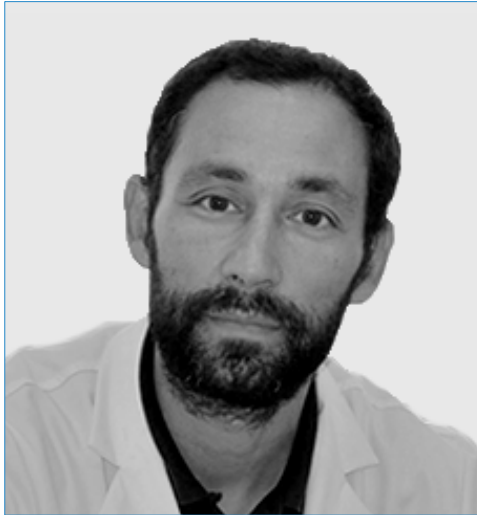




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Get up to date on the latest advances in medical procedures for the management of critically ill patients, thanks to the expertise of renowned experts”

Management



Dr. Velayos Amo, Carlos

- ♦ Specialist Physician of the Intensive Care Medicine Service at the University Hospital of Fuenlabrada
- ♦ Researcher specialized in post-ICU syndrome and patient hospitalization in the HU-CI Project
- ♦ Honorary Professor of the Faculty of Medicine, Rey Juan Carlos University
- ♦ Degree in Medicine and Surgery, Autonomous University of Madrid (UAM)
- ♦ Member of: InnovaHUCI, Itaca Group



Dr. Álvarez Rodríguez, Joaquín

- ♦ Head of the Intensive Care Medicine Department, Fuenlabrada University Hospital
- ♦ Transplant Coordinator at the San Carlos University Hospital
- ♦ Medical Specialist in Intensive Care Medicine at the San Carlos University Hospital Clinic
- ♦ Medical Specialist in Intensive Care Medicine at the Virgen de la Salud Hospital
- ♦ Doctor in Surgery and Medicine at the Complutense University of Madrid
- ♦ Designer of Patient Safety Strategic Plans at the Health Department of the Community of Madrid

Professors

Dr. Quintana Díaz, Manuel

- ♦ Secretary of the National Plan of CPR in Critical Medicine and Coronary Units for the Spanish Society of Intensive Care Medicine, SEMICYUC
- ♦ Head of the Emergency Department at La Paz University Hospital, Madrid
- ♦ Doctor of Medicine at the Autonomous University of Madrid.
- ♦ Specialist in Intensive Care Medicine at the Soria Hospital Complex
- ♦ Doctor of Medicine specialized in Cranioencephalic Trauma and Fractures in the Hemophiliac Patient at the Complutense University of Madrid
- ♦ Associate Physician of the Department of Medicine at the Autonomous University of Madrid

Dr. Palencia Herrejón, Eduardo

- ♦ Head of the Department of Intensive Care Medicine at the Infanta Leonor University Hospital Madrid, Spain
- ♦ Specialized Physician in Intensive Care Medicine at the Complutense University of Madrid
- ♦ Director of the Electronic Journal of Intensive Care Medicine (REMI)
- ♦ Member of the Group of Innovation, Technological Evaluation and Research Methodology (GETMIN) for the Spanish Society of Intensive Care Medicine, Critical Care and Coronary Units (SEMICYUC)
- ♦ Associate Professor of the Department of Medicine at the Complutense University of Madrid.

Dr. Álvarez González, Manuel

- ♦ Faculty Specialist at San Carlos Clinical Hospital
- ♦ Specialist in Intensive Care Medicine.
- ♦ Founding Member of the Ecoclub of SOMIAMA
- ♦ Degree in Medicine and Surgery

Dr. Gordo Vidal, Federico

- ♦ Head of the Department of Intensive Care Medicine at the Henares University Hospital
- ♦ Associate Editor-in-Chief of the Journal of Intensive Care Medicine
- ♦ Author of numerous articles and chapters in specialized books at national and international level
- ♦ Speaker at congresses, round tables and conferences
- ♦ Secretary of the Spanish Society of Intensive Care Medicine
- ♦ PhD in Medicine from the Complutense University of Madrid.
- ♦ Member of: ICU Without Walls Project

Dr. Martín Delgado, María Cruz

- ♦ Head of the Intensive Care Medicine Department at the 12 de Octubre University Hospital
- ♦ Head of the Intensive Care Medicine Department at the Torrejón University Hospital
- ♦ Transplant Coordinator at the Torrejón University Hospital
- ♦ Head of the Intensive Care Medicine Department at HM Nou Delfos Hospital
- ♦ Emergency Coordinator at the Henares University Hospital
- ♦ Medical Specialist in Intensive Care Medicine at the Quirónsalud San José Hospital
- ♦ Author of more than 80 articles published in national and international journals on Intensive Care Medicine
- ♦ Principal Investigator and Collaborator of more than 50 research studies in the Area of the Critically Ill Patients
- ♦ President of the Pan-American and Iberian Federation of Critical Care Medicine and Intensive Care Medicine (FEPIMCTI)
- ♦ President of the Spanish Society of Critical Intensive Care Medicine and Coronary Units (SEMICYUC)

Dr. Álvarez Fernández, Jesús Andrés

- ♦ Head Physician at the Juaneda Miramar Hospital
- ♦ Specialist in Intensive Care Medicine and Burn Patient Management at the University Hospital of Getafe
- ♦ Associate Researcher in the Area of Neurochemistry and Neuroimaging at the University of La Laguna

Dr. Blesa Malpica, Antonio

- ♦ Head of the Neurotrauma Section of the Intensive Care Medicine Department at the Clinical University Hospital San Carlos
- ♦ Specialist Physician of the Polytrauma Area at the San Carlos Clinical Hospital
- ♦ Specialist Physician of the Intensive Care Medicine Department at the General Básico Santa Ana Hospital Motril, Spain
- ♦ Intern Attending Physician of the ICU at the Clinical University Hospital of San Carlos
- ♦ President of the Society of Intensive Care Medicine of the Community of Madrid (SOMIAMA)
- ♦ FCCS Instructor of the American Society of Critical Care Medicine (SCCM)
- ♦ Author of numerous specialized publications at national and international level
- ♦ PhD in Surgery from the Complutense University of Madrid
- ♦ Master's Degree in Management of Health Services and Healthcare Companies from the Complutense University of Madrid
- ♦ Member of: Clinical Commissions of Transfusions, Nutrition and Pharmacy at the Clinical Hospital San Carlos, Polytrauma Committee at the Clinical Hospital San Carlos, Spanish Society of Intensive and Critical Care Medicine and Coronary Units in the Metabolism and Nutrition Group, European Society of Intensive Care Medicine, Spanish Society of Parenteral and Enteral Nutrition, European Society of Parenteral and Enteral Nutrition

Dr. Lorente Balanza, José Ángel

- ♦ Head of the Intensive Care Medicine Department at the Getafe University Hospital Spain
- ♦ Members of the Foundation for Biomedical Research at the University Hospital of Getafe
- ♦ Academic Jury in the Spanish Society of Intensive Care Medicine, Critical Care and Coronary Units (SEMICYUC), Professional of the Critically Ill
- ♦ Author of articles in the scientific journal "Avances terapéuticos en el shock séptico", Dialnet (Therapeutic Advances in Septic Shock, Dialnet). Unirioja

Dr. Alonso Ovies, Ángela

- ♦ Medical Specialist in Intensive Care Medicine at the University Hospital of Fuenlabrada
- ♦ Medical Specialist in Intensive Care Medicine at the San Carlos Clinical Hospital
- ♦ Medical Specialist in Intensive Care Medicine at the Sanatorium Nuestra Señora del Rosario
- ♦ Master's Degree in Patient Safety and Quality of Care from the Miguel Hernández University of Elche
- ♦ Member of: Executive Committee of the Communication Research Area of the HU-CI Project, Editorial Committee of the Journal Intensive Care Medicine, Intensive Care Medicine Society of the Community of Madrid (SOMIAMA)

Dr. Balandín Moreno, Bárbara

- ♦ Medical Specialist in Intensive Care Medicine
- ♦ Specialist Physician in the Intensive Care Medicine Department, Puerta De Hierro University Hospital, Majadahonda
- ♦ Co-author of articles published in scientific journals
- ♦ Collaborator in collective scientific works

Dr. Martín Benítez, Juan Carlos

- ♦ Medical Specialist in Intensive Care Medicine at the San Carlos Clinical University Hospital
- ♦ Co-author of the scientific article: "La glucemia de las primeras 24 horas no es un factor pronóstico de mortalidad en pacientes críticos" (Glycemia in the first 24 hours is not a prognostic factor for mortality in critical patients)
- ♦ Co-author of Clinical Practice Guidelines for the management of low cardiac output syndrome in postoperative cardiac surgery

Dr. Chico Fernández, Mario

- ♦ Head of Trauma and Emergency ICU Department, 12 de Octubre University Hospital, Madrid
- ♦ Specialist in Intensive Care Medicine at the 12 de Octubre University Hospital
- ♦ Doctor from the Autonomous University of Madrid with the thesis: "Desarrollo y mejora de una herramienta de comunicación para la seguridad del paciente en una UCI de trauma y emergencias Safety Briefing" (Development and improvement of a patient safety communication tool in a trauma and emergency ICU Safety Briefing)
- ♦ Co-author of the following scientific articles: "Las coagulopatías del trauma, Solución tamponada frente a solución salina al 0,9% en adultos y niños gravemente enfermos, Factores de riesgo y protección del estrés traumático secundario en los cuidados intensivos" (The coagulopathies of trauma, Buffered versus 0.9% saline in critically ill adults and children, Risk factors and protection from secondary traumatic stress in intensive care)

Dr. Abella Álvarez, Ana

- ♦ Medical Specialist in Intensive Care Medicine at the University Hospital of Henares
- ♦ Degree in Medicine and Surgery from the University of Valladolid
- ♦ On-call service in the Intensive Care Unit at the Getafe University Hospital
- ♦ Resident Tutor at the Henares University Hospital

Dr. Bueno García, Begoña

- ♦ Attending Physician of the Intensive Care Medicine Department at the Infanta Leonor University Hospital Madrid
- ♦ Master's Degree in Medical Expertise and Bodily Injury Assessment
- ♦ Collaborator of the 50th National Congress of the Spanish Society of Intensive Care Medicine, Critical Care and Coronary Units. Madrid

Dr. Calvo Herranz, Enrique

- ♦ Attending Physician at the Getafe University Hospital
- ♦ Critical Care Physician at the Henares University Hospital
- ♦ Invited Physician to the IV Symposium on the Critically Ill Burned Patient
- ♦ Speaker at the courses: II Course on ABIQ Instructors, III Course on Basic Initial Care of Burned Patients (ABIQ)

Dr. Catalán González, Mercedes

- ♦ Head of Section of the Intensive Care Medicine Department at the 12 de Octubre University Hospital
- ♦ Attending Physician, Intensive Care Medicine Department, 12 de Octubre University Hospital
- ♦ Medical Specialist in Intensive Care Medicine
- ♦ Medical Specialist in Clinical Pharmacology
- ♦ Doctor of Medicine
- ♦ Associate Professor of the Faculty of Medicine at the Complutense University of Madrid

Dr. Conesa Gil, Juan

- ♦ Medical Specialist in Intensive Care Medicine at the Ruber International Hospital
- ♦ Entrepreneur in Jac Intensive SL

Dr. De la Torre Ramos, Maria Ángeles

- ♦ Specialist in Intensive Care Medicine at the Fuenlabrada University Hospital. Madrid
- ♦ Post Intensive Care Follow-Up Consultation. InnovaHUCI Project at the University Hospital of Fuenlabrada
- ♦ Medical Specialist in Intensive Care Medicine at HLA Moncloa University Hospital
- ♦ Degree in Medicine and Surgery from the University of Zaragoza
- ♦ Advanced Studies Diploma from the Complutense University of Madrid

Dr. De Pablo Sánchez, Raúl

- ♦ Head of the Intensive Care Medicine Department at the Ramón y Cajal University Hospital.
- ♦ Doctor of Medicine at the University of Alcalá
- ♦ Full Professor of Medicine at the University of Alcalá
- ♦ Bachelor's Degree in Medicine and Surgery from the Complutense University of Madrid

Dr. Del Castillo Arrojo, Silvia

- ♦ Attending Physician at the Cardiology Department of the Fuenlabrada University Hospital
- ♦ Medical Specialist in Cardiology at the Jiménez Díaz Foundation University Hospital
- ♦ Head of the Arrhythmia Unit at the Germans Trias i Pujol Hospital
- ♦ Research at the University Hospital of Pennsylvania
- ♦ Degree in Medicine and Surgery from the Autonomous University of Madrid.
- ♦ Master's Degree in Clinical Electrophysiology at the Complutense University of Madrid



Dr. Díaz-Alersi Rosety, Ramón

- ♦ Medical Specialist in Intensive Care Medicine
- ♦ Medical Specialist of the Intensive Care Medicine Department at the Puerto Real University Hospital
- ♦ Co-author of the article “Revisión sistemática y metaanálisis de inhibidores de interleucina-6 para reducir la mortalidad en pacientes hospitalizados con COVID-19” (Systematic review and meta-analysis of interleukin-6 inhibitors to reduce mortality in hospitalized patients with COVID-19)

Dr. Gómez García, José Manuel

- ♦ Specialist in Intensive Care Medicine at the Gregorio Marañón Hospital
- ♦ Physician of the Burnout and Professional Burnout Area, HU-CI Project. Spain
- ♦ Attending Physician in the Intensive Care Medicine Department at HM Torrelodones Hospital
- ♦ Professor and Coordinator of Ethics and Health Care Communication at CEU San Pablo University

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- ♦ Specialist Physician of the Intensive Care Medicine Service at the 12 de Octubre University Hospital
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- ♦ Member of: Clinical Commission on Mortality of the 12 de Octubre University Hospital

Dr. Jaspe Codeciso, Alexis

- ♦ Attending Physician of the Intensive Care Unit at the Gregorio Marañón General University Hospital Madrid, Spain
- ♦ Emergency Physician in Internal Medicine at El Avila Clinic Caracas, Venezuela
- ♦ Medical Intern at the Vargas Hospital in Caracas. Caracas, Venezuela
- ♦ Physician and Surgeon from the Faculty of Medicine at the Central University of Venezuela

Dr. Heras La Calle, Gabriel

- ♦ Creator and Director of the HU-CI Project, Humanizing Intensive Care
- ♦ Director of the Humanization Committee of the Pan-American and Iberian Federation of Critical Care Medicine and Intensive Care (FEPIMCTI)
- ♦ Head of Service of the Clinical Management Unit of Intensive Care Medicine of the Southern Area of Granada at the Regional Hospital Santa Ana de Motril
- ♦ Specialist in Intensive Care Medicine at Severo Ochoa, La Paz, Fundación Alcorcón, HM Torrelodones, Son Llätzer, Infanta Leonor and Torrejón University Hospitals
- ♦ Degree in Medicine and Surgery from the University of Alcalá de Henares.

Dr. Morales Sorribas, Eduardo

- ♦ Associate Physician of the ICU at Ramón y Cajal University Hospital
- ♦ Medical Specialist in Intensive Care Medicine at Sanitas La Moraleja University Hospital
- ♦ Attending Physician Specialist in Cardiovascular Critical Care at the San Carlos Clinical Hospital
- ♦ Medical Specialist in Intensive Care Medicine at Los Madroños Hospital
- ♦ Attending Physician in Intensive Care Medicine at Jiménez Díaz Foundation University Hospital
- ♦ University teaching collaborator
- ♦ Master's Degree in Clinical Management, Medical and Healthcare Management at CEU Cardenal Herrera University

Dr. Graupner Abad, Catherine

- ♦ Cardiologist at the Fuenlabrada University Hospital Madrid
- ♦ Member of the Spanish Society of Cardiology
- ♦ Speaker at the SEC21 Congress on Cardiovascular Health Zaragoza, Spain

Dr. Martínez-Hurtado, Eugenio

- ♦ Medical Specialist of the Anesthesiology and Resuscitation Department at the Infanta Leonor University Hospital Madrid
- ♦ Medical Captain in the Spanish Ministry of Defense
- ♦ Medical Specialist in Anesthesiology, Resuscitation and Pain Therapy at Quirónsalud Hospital Group
- ♦ Medical Specialist in Anesthesia, Resuscitation and Pain Therapy at the University Hospital of Torrejón
- ♦ Instructor in Airway Management
- ♦ Medical Specialist in the Humanitarian Aid Surgical Campaign at the Hôpital Auberge de l'Amour Rédempteur. Africa
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Master's Degree in Corporate Prevention Management from the European Institute of Health and Social Welfare
- ♦ Master's Degree in Social and Preventive Pediatrics from the University of Las Palmas de Gran Canaria
- ♦ Member of: AnesthesiaR, EC Anaesthesia, Difficult Airway Working Group of the Madrid Society of Anesthesiology, Resuscitation and Pain Therapy

Dr. Muñoz de Cabo, Carlos

- ♦ Attending Physician of the Intensive Care Medicine Department at the University Hospital of Torrejón Madrid, Spain
- ♦ Medical Specialist in Respiratory Diseases
- ♦ Expert in Intensive Care Medicine
- ♦ Collaborator in the book "Tratado de medicina intensiva" (Treaty of Intensive Care Medicine) with the Andalusian Society of Intensive Care Medicine and Coronary Units (SAMIUC)

Dr. Muñoz González, Javier

- ♦ Head of the Critical Care Research Group at the Gregorio Marañón Health Research Institute
- ♦ Medical Director at the Gregorio Marañón General University Hospital
- ♦ Head of the ICU Section at the Gregorio Marañón University General Hospital
- ♦ Head of the Emergency Department at the Gregorio Marañón General University Hospital
- ♦ Attending Physician of the Intensive Care Medicine Service at the Gregorio Marañón General University Hospital
- ♦ Deputy Medical Director at the Gregorio Marañón University General Hospital
- ♦ PhD in Medicine from the Complutense University of Madrid

Dr. Nieto Cabrera, Mercedes

- ♦ Medical Specialist in Intensive Care Medicine at the Ruber International Hospital
- ♦ Medical Specialist in Intensive Care Medicine at the San Carlos Clinical Hospital
- ♦ PhD in Medicine from the Complutense University of Madrid

Dr. Ortega López, Alfonso

- ♦ Attending Physician of the Intensive Care Medicine Department at the Puerta de Hierro Majadahonda University Hospital Madrid
- ♦ Journal articles: "Mejor capacidad pronóstica de NEWS2, SOFA y SAPS-II en pacientes con sepsis" (Improved prognostic ability of NEWS2, SOFA and SAPS-II in patients with sepsis), by the Puerta de Hierro University Hospital "Isquemia mesentérica masiva" (Massive mesenteric ischemia) by the Puerta de Hierro University Hospital
- ♦ Collaborator in collective works: Paro cardiorrespiratorio y reanimación cardiopulmonar del adulto (Cardiorespiratory arrest and cardiopulmonary resuscitation in adults) by the Puerta de Hierro Majadahonda University Hospital, "Lesiones por electricidad" (Electrical injuries) by the Puerta de Hierro Majadahonda

Dr. Ortuño Andérez, Francisco

- ♦ Physician from the Neurocritical and Polytrauma Section at San Carlos Clinical Hospital
- ♦ Specialist in Intensive Care Medicine
- ♦ Doctor of Medicine and Surgery, Complutense University of Madrid (UCM)
- ♦ Master's Degree in Organization, Management and Administration of Social and Health Care Services

Dr. Muñoz Albaiceta, Guillermo

- ♦ Head of Section of the Cardiac Intensive Care Unit at the Asturias Central University Hospital
- ♦ Attending Physician of the Intensive Care Medicine Department at the Henares University Hospital Madrid
- ♦ Member of the Center for Biomedical Research Network on Respiratory Diseases (CIBERES) at the Carlos III Institute of Health
- ♦ Leader of the Principality of Asturias Health Research Group for Advances in Lung Damage and Repair
- ♦ Expert in Mechanical Ventilation and Acute Lung Injury
- ♦ Full Professor of Physiology at the University of Oviedo

Dr. Peñuelas Rodríguez, Óscar

- ♦ Attending Physician in the Intensive Care Unit at the University Hospital of Getafe
- ♦ Attending Physician at the Infanta Cristina University Hospital
- ♦ Researcher at the Center for Biomedical Research Network (CIBER)
- ♦ Author and co-author of numerous scientific publications
- ♦ PhD in Physiology and Pharmacology from the Autonomous University of Madrid (UAM)

Dr. Tejerina Tébe, Eva

- ♦ Senior Consultant at Apdena Consult SL.
- ♦ Degree in Biology
- ♦ Master's Degree in Medicinal Plants and Phytotherapy
- ♦ Postgraduate Study in Fragrances
- ♦ Member of the Spanish Society of Phytotherapy

Dr. Pérez Redondo, Marina

- ♦ Coordinator of Transplantation and Humanization of Care in the ICU at the Puerta de Hierro Majadahonda University Hospital
- ♦ Attending Physician of the Department of Intensive Care Medicine at the Puerta de Hierro Majadahonda University Hospital
- ♦ Member of the Research Group of Intensive Care Medicine in the areas of Cardiovascular, Digestive and Rheumatology Biopathology
- ♦ Scientific Collaborator of the Faculty of Medicine at the Autonomous University of Madrid (UAM)

Dr. Riesco de la Vega, Laura

- ♦ Attending Physician in the Intensive Care Medicine Department at the University Hospital of Torrejón. Madrid
- ♦ Degree in Medicine from the Complutense University of Madrid (UAM)
- ♦ Facilitator of simulated clinical scenarios for the benefit of the patient at the Francisco de Vitoria University (UFV)
- ♦ Instructor and Specialist in Clinical Simulation Processes

Dr. Sánchez Artola, Beatriz

- ♦ Attending Physician of the Intensive Care Medicine Department at the Infanta Leonor University Hospital Madrid
- ♦ Author of the book “Las enfermedades infecciosas y la música”(Infectious Diseases and Music)
- ♦ Collaborations in the Spanish Journal of Chemotherapy: “Factores predictivos de infección por el virus de la gripe H1N1 2009 en pacientes con síndrome gripal, Infección por Candida spp. sobre prótesis articulares, Inhibidores de la bomba de protones y riesgo de infección” (Predictive factors of 2009 H1N1 influenza virus infection in patients with influenza syndrome, Candida spp. infection on joint prostheses, Proton pump inhibitors and risk of infection)

Dr. Talavera Calle, Pedro

- ♦ Head of Service at Quirónsalud Sur Hospital Alcorcón, Madrid
- ♦ Cardiologist of the Integral Cardiology Unit (UICAR) at La Luz Hospital
- ♦ Attending Cardiologist at the University Hospital of Fuenlabrada
- ♦ Outpatient specialist

Dr. Vaquerizo Alonso, Clara

- ♦ Attending Physician of the Intensive Care Unit at the Fuenlabrada University Hospital Madrid
- ♦ Master's Degree in Health Administration from the National School of Health. Spain
- ♦ Author of articles: “Tratamiento nutricional en paciente crítico SARS-CoV-2, visión desde la calma, algunas consideraciones sobre seguridad de la información del proyecto europeo de historia clínica digital” (Nutritional treatment in critically ill SARS-CoV-2 patients, a view from the calm, some considerations on information security) of the European digital health record project (EPSOS Project)
- ♦ Collaborator in collective works: Enteral Nutrition, Nutrition in the Critically Ill Patient





Dr. Peral Gutiérrez de Ceballos, José Antonio

- ♦ Attending Physician at the Gregorio Marañón General University Hospital Madrid
- ♦ Specialist in Intensive Care Medicine at the Gregorio Marañón General University Hospital
- ♦ Speaker at the Transcranial Doppler Workshop at the VII Course on Organ Donation and Transplantation in Intensive Care Medicine at the Gregorio Marañón General University Hospital

Dr. Rodríguez Aguirregabiria, María Montserrat

- ♦ Medical Specialist in Intensive Care Medicine at the University Hospital La Paz
- ♦ Specialist in the in Intensive Care Medicine at the Infanta Leonor University Hospital
- ♦ Speaker at various medical congresses
- ♦ Doctor of Medicine from the Alfonso X El Sabio University

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Take the step to get up to date on the latest developments in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine”

04

Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of specialization in good medical practice in intensive care units, aware of the relevance of current education in order to be able to act in severe trauma patients and committed to quality teaching through new educational technologies.




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This Postgraduate Diploma in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine contains the most complete and up-to-date scientific program on the market"

Module 1. Management in the Intensive Care Unit

- 1.1. Patient Safety
 - 1.1.1. Concept
 - 1.1.2. Evolution of Patient Safety
 - 1.1.3. Medical Errors
 - 1.1.4. Various Definitions
 - 1.1.5. Security Culture
 - 1.1.6. Risk Management
 - 1.1.7. Where Are We?
 - 1.1.8. Patient Safety in Intensive Care Units
- 1.2. Information Systems
- 1.3. ICU Without Walls
 - 1.3.1. Problem: Why Did the ICU Without Walls Model Emerge?
 - 1.3.2. Solution: Early Detection of Severity
 - 1.3.3. ICU Without Walls Project
- 1.4. Humanization in the Care of Critically Ill Patients
 - 1.4.1. Introduction. HU-CI Project
 - 1.4.2. Involvement of Family Members in the Care and Presence in Certain Proceedings
 - 1.4.3. Perceived Quality. Satisfaction Surveys
 - 1.4.4. Communication Between Professionals
 - 1.4.5. Professional Needs. Professional Burnout
 - 1.4.6. Post-ICU Syndrome. Psychological Results
 - 1.4.7. Humanized Architecture
- 1.5. Quality and Excellence in the ICU
 - 1.5.1. Quality Models
 - 1.5.2. EFQM Excellence Model
 - 1.5.3. Quality Group in the ICU
- 1.6. Prognosis in ICU
 - 1.6.1. History of Severity Scales
 - 1.6.2. Prognosis Scales
 - 1.6.3. Comparison of Scales
 - 1.6.4. Unresolved Issues



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- 1.7. The Family of the Critically Ill Patient
 - 1.7.1. Communicating Bad News
 - 1.7.2. Family in the ICU
 - 1.7.3. Participation in Care
 - 1.8. Open Door ICU
 - 1.8.1. Family, Relatives and Visitors
 - 1.8.2. About the Visits and their Organization
 - 1.8.3. Why Are they Organized this Way?
 - 1.8.4. What Do Patients and Families Want?
 - 1.8.5. Is a Change Possible?
 - 1.8.6. Proposals for the Future
 - 1.9. The ICU at the End of Life
 - 1.9.1. Ethical Principles of Limitation of Life-Sustaining Treatments (LST)
 - 1.9.2. Limitation of Life-Sustaining Treatments and Patient's Autonomy
 - 1.9.3. Decision-Making Process at Limitation of LST
 - 1.9.4. Palliative Care Plan
 - 1.9.5. Conflict Management
 - 1.9.6. Support to Professionals
 - 1.9.7. Decision Not to Resuscitate
 - 1.9.8. Organ Donation Considerations
 - 1.9.9. Rule Out ICU Admission
 - 1.10. Mortality Stratification Systems in the ICU

Module 2. Infectious Pathology in Intensive Care Medicine

- 2.1. Current Management of Sepsis
 - 2.1.1. Definitions of Sepsis
 - 2.1.2. Septic Shock
 - 2.1.3. Epidemiology of Sepsis
 - 2.1.4. Surviving Sepsis Campaign
 - 2.1.5. Sepsis Code
 - 2.1.6. Treatment of Sepsis
 - 2.1.7. Diagnosis and Treatment of Infection

- 2.2. Antibiotherapy in Intensive Care Units
 - 2.2.1. Impact of Antibiotic Use
 - 2.2.2. Antibiotic Use Policy at the Individual Level
 - 2.2.3. Quality Indicators
 - 2.2.4. Resistance Management
 - 2.2.5. Zero Resistance Project
- 2.3. Severe Abdominal Infections in ICU
 - 2.3.1. Acute Abdomen and Peritonitis
 - 2.3.2. Infectious Complications in the Abdominal Postoperative Period
 - 2.3.3. Tertiary Peritonitis
- 2.4. Intravascular Infections in the ICU
 - 2.4.1. Bacteremia
 - 2.4.2. Catheter-Related Bacteremia
 - 2.4.3. Long-Term Central Venous Catheter-Related Infections
 - 2.4.4. Infections Related to Cardiac Devices: Pacemakers and Defibrillators
 - 2.4.5. Antibiotic Treatment
- 2.5. Procalcitonin as a Marker of Sepsis
- 2.6. Key Points in the Management of Invasive Fungal Infection in the ICU
 - 2.6.1. Filamentous Hyphae
 - 2.6.2. Invasive Aspergillosis (IA)
 - 2.6.3. Mucormycosis
 - 2.6.4. Other Filamentous Fungi
 - 2.6.5. Yeast
 - 2.6.6. Invasive Candidiasis (IC)
 - 2.6.7. Cryptococcosis
- 2.7. Severe Pneumonia
- 2.8. Bacterial Meningitis, Viral Encephalitis and Other Encephalitis
 - 2.8.1. Bacterial Meningitis. Key Management Points
 - 2.8.2. Viral Encephalitis and Other Encephalitides

- 2.9. Endocarditis
 - 2.9.1. Classification and Definitions in Infective Endocarditis
 - 2.9.2. Diagnosis
 - 2.9.3. Modified Duke Criteria
 - 2.9.4. Clinical Manifestations of Infective Endocarditis
 - 2.9.5. Etiology of Infective Endocarditis
 - 2.9.6. Microbiological Diagnosis
 - 2.9.7. Echocardiographic Diagnosis
 - 2.9.8. Treatment
- 2.10. Multiresistant Bacteria
 - 2.10.1. The Challenge of Multidrug-Resistant Microorganisms
 - 2.10.2. Resistances of Gram-Positive Bacteria
 - 2.10.3. Resistances of Gram-Negative Bacteria

Module 3. Renal Management of the Critically Ill Patient and Organ Donation and Transplantation in Intensive Care Medicine

- 3.1. Key Points in the Use of Continuous Extrarenal Clearance Techniques in the ICU
 - 3.1.1. Acute Renal Failure in the ICU
 - 3.1.2. Continuous Renal Replacement Techniques (CRRT)
 - 3.1.3. Indications for CRRT
 - 3.1.4. Selection of Extrarenal Depuration Modality
 - 3.1.5. Dose
 - 3.1.6. Anticoagulation
 - 3.1.7. Technique and Materials
- 3.2. Anticoagulation with Citrate in Continuous Extrarenal Clearance Techniques
 - 3.2.1. Indications for Citrate Anticoagulation
 - 3.2.2. Contraindications for Citrate Anticoagulation
 - 3.2.3. Metabolic Aspects of Regional Anticoagulation with Citrate
 - 3.2.4. Diagram of Calcium Contents and Ci-Ca Complexes Along the Extracorporeal and Blood Circuit



- 3.2.5. Dialysis Liquids
- 3.2.6. Indicative Initial Treatments
- 3.2.7. Anticoagulation and Calcium Replenishment Controls
- 3.2.8. Acid-Base Balance Controls
- 3.2.9. Recommended Laboratory Tests for Citrate Treatment
- 3.3. Diagnosis of Brain Death
- 3.4. Current Management of the Organ Donor
- 3.5. Non-Heart-Beating Donation
- 3.6. Management of the Cardiac Transplant Recipient Patient
- 3.7. Management of the Liver Transplant Recipient Patient
- 3.8. Management of the Lung Transplant Recipient Patient
- 3.9. Key Points in the Use of Continuous Extrarenal Clearance Techniques in the ICU

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A unique, key, and decisive educational 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 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.



06 Certificate

The Postgraduate Diploma in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 Diploma in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine** 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 Diploma in Current Management of Infectious Pathology and Transplantation in Intensive Care Medicine**

Modality: **online**

Duration: **6 months**

Accreditation: **20 ECTS**





Postgraduate Diploma
Current Management of
Infectious Pathology and
Transplantation in Intensive
Care Medicine

- › Modality: online
- › Duration: 6 months
- › Certificate: TECH Global University
- › Accreditation: 20 ECTS
- › Schedule: at your own pace
- › Exams: online

Postgraduate Diploma

Current Management of Infectious
Pathology and Transplantation
in Intensive Care Medicine