

# Professional Master's Degree

## Patient Quality and Safety for Nursing





## Professional Master's Degree Patient Quality and Safety for Nursing

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Accreditation: 60 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/professional-master-degree/master-patient-quality-safety-nursing](http://www.techtute.com/us/nursing/professional-master-degree/master-patient-quality-safety-nursing)

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# 01

# Introduction

In the search for healthcare improvement, procedures are constantly updated and reviewed to detect errors, improve protocols in adverse situations or communication with the patient. A field of action that nowadays also aims to provide greater humanization in patient care. In view of this reality, it is necessary for professionals to be aware of the advances achieved, as well as future challenges. This 100% online degree designed by TECH offers a complete update on Quality plans and the measures incorporated to enhance Patient Safety in the clinical system. All this, in addition to an advanced syllabus designed by an excellent team of specialists.



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*With this 100% online Professional Master's Degree you will be up to date in 12 months with the advances and changes in the improvement of Patient Quality and Safety in the healthcare field"*

One of the constant challenges of healthcare systems is to maintain quality criteria in patient care and attention, and also to maintain the important patient safety in all diagnostic and therapeutic procedures in which the patient participates. Thus, establishing measures and protocols for action in this regard are key to the satisfaction and improvement of the well-being of the person.

In this scenario, the role of the nursing professionals is of vital relevance given his proximity and direct contact with the person at all times, from their admission to the clinical or hospital center until their medical discharge. For this reason, TECH has designed this Professional Master's Degree in Patient Quality and Safety for Nursing, aimed at providing the most up-to-date information on methodologies that enhance the humanization of healthcare, healthcare ethics and the incorporation of new technologies.

A program with a theoretical-practical approach that will allow you to delve into the use of the most notorious advances in *Big Data* and *Machine Learning*, adverse events in clinical care, pediatric patient safety, drug safety and advances in patient safety in surgical block.

A comprehensive syllabus, complemented by video summaries of each topic, videos in detail, readings and case studies that give greater dynamism and attractiveness to this update. In addition, thanks to the *Relearning* system, based on the continuous reiteration of the most important contents of the program, students will be able to reduce the hours of memorization.

A unique program in the academic panorama, which offers the graduates the opportunity to self-manage the study time and access the information of the syllabus, comfortably whenever and wherever they wish. It only requires an electronic device (cell phone, *tablet* or computer) with internet connection to visualize, at any time of the day, the content of this program. An ideal opportunity to study a program that meets the real needs of professionals.

This **Professional Master's Degree in Patient Quality and Safety for Nursing** contains the most complete and up-to-date scientific program on the market.

The most important features include:

- ♦ The development of case studies presented by healthcare experts in Patient Quality and Safety
- ♦ Graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Are you looking for a quality university degree that is compatible with your daily activities? This is the most suitable academic option for you. Upgrade with TECH"*

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*With the Relearning method you will forget about long hours of study and memorization, focusing mainly on the key concepts of this program"*

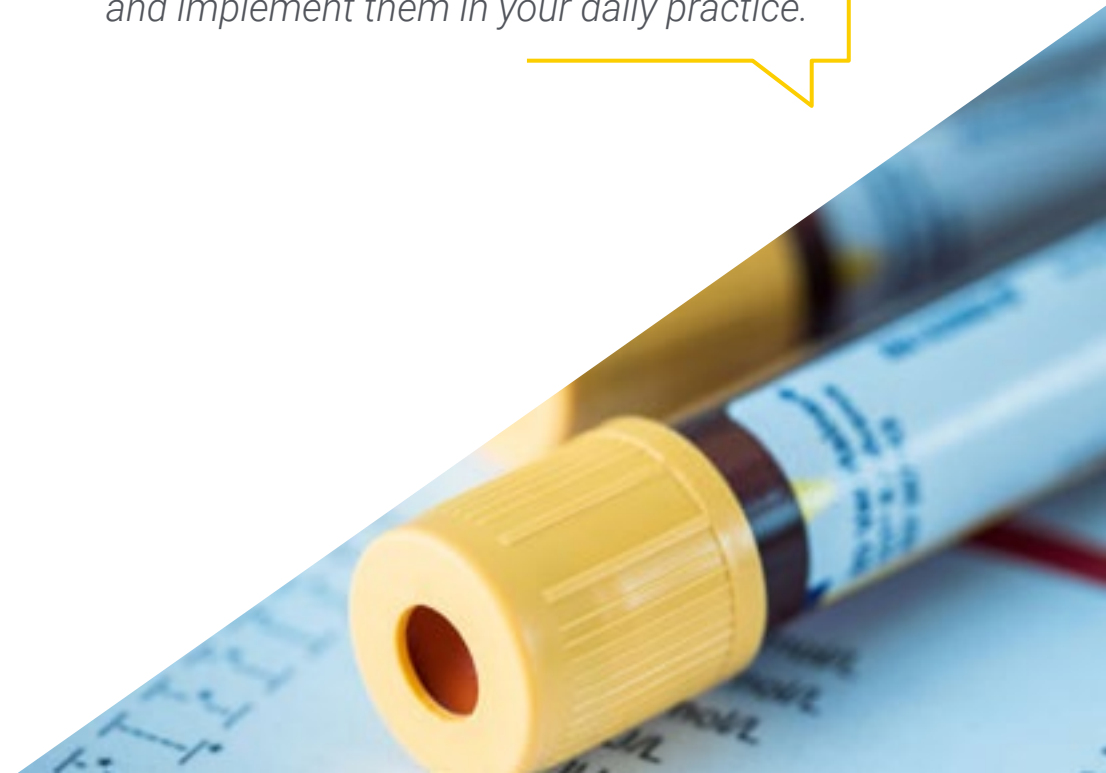
The program includes in its teaching staff professionals from the sector who bring to this program the experience of their work, as well as recognized specialists from leading societies and prestigious universities.

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

The design of this program focuses on Problem-Based Learning, by means of which the professionals must try to solve the different professional practice situations that are presented throughout the academic course. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*You will be aware of the use of new technologies such as Big Data or Machine Learning used in the healthcare field.*

*Deepen your knowledge of the advances in biobank safety and transfusion safety and implement them in your daily practice.*



# 02 Objectives

The purpose of this Professional Master's Degree is to facilitate the update on the measures to be implemented in the field of Quality and Patient Safety for Nursing and the promotion of health competencies in the various risk situations that must be solved. All this, in just 12 months and with a comprehensive agenda based on the latest scientific evidence in this field. A unique opportunity to update that only TECH, the largest digital university in the world, can offer you.







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*In just 12 months you will be able to complete a complete update on Quality and Patient Safety for Nursing”*



## General Objectives

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- ♦ Analyze the importance of humanization in health care, the need for respect for life, human dignity and a holistic understanding of the person made vulnerable by illness
- ♦ Identify situations and risk factors in the pediatric patient
- ♦ Determine the main preventive measures implemented in pediatric patient safety
- ♦ Justify the importance and guidelines of surgical safety in the public health setting by defining a minimum set of measures
- ♦ Promote safe working environments for patients and professionals
- ♦ Promote research, innovation and training in patient safety
- ♦ Analyze the management of adverse events and their improvement plans to avoid them
- ♦ Deepen in the concepts, methods and strategies for the improvement of patient safety in healthcare institutions
- ♦ Substantiate the best evidence on safety from biobanks and transfusion safety technologies
- ♦ Analyze patient safety strategies approached from different healthcare areas





## Specific Objectives

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### Module 1. Healthcare Quality Management Systems in Healthcare Institutions

- ♦ Analyze the different models and systems of quality management
- ♦ Update specialized knowledge on management by care processes
- ♦ Propose techniques and tools for quality improvement
- ♦ Develop the tools to carry out a continuous quality improvement cycle
- ♦ Determine the different models of quality certification in healthcare institutions
- ♦ Establish keys to excellence in healthcare institutions
- ♦ Identify the essential aspects for the development of effective leadership in healthcare professional teams

### Module 2. Clinical Risk Management

- ♦ Provide a comprehensive view of all elements that can affect patient safety
- ♦ Delve into the different phases that make up clinical risk management
- ♦ Establish actions aimed at preventing adverse events from occurring by having the necessary knowledge to minimize them
- ♦ Identify prevention and control measures to reduce healthcare-associated infections
- ♦ Propose actions aimed at user participation in patient safety
- ♦ Develop corrective measures aimed at minimizing clinical risk
- ♦ Analyze the concept of satisfaction and perceived quality. Identify the instruments to know the users' opinion

### Module 3. Quality of Care and Ethics in Healthcare Institutions

- ♦ Develop the four principles of bioethics
- ♦ Update knowledge on the application of the deliberative method to clinical decisions
- ♦ Examine the application of bioethics in end-of-life health care decisions
- ♦ Apply Ethics in Medical Research
- ♦ Deepen the key points of respect for the patient
- ♦ Analyze ethical actions in conflicting situations
- ♦ Value the figure of palliative care
- ♦ Establish the importance of ethical values in organ donation

### Module 4. Health Technology Assessment

- ♦ Evaluate health technologies at the international level. Current Situation and Future Prospects
- ♦ Evaluate healthcare technologies, their impact and associated costs
- ♦ Deepen the role of the Electronic Health Record in Patient Safety and Quality of Care
- ♦ Incorporate the Big Data and Artificial Intelligence
- ♦ Delve into the exploitation of the electronic health record for patient safety and Natural Language Processing to extract knowledge in patient safety

### **Module 5. Safety of Medicines and Medical Devices. Pharmacy and Hematology**

- ♦ Determining adverse effects in high-risk drugs and strategies for error prevention
- ♦ Update knowledge on monitoring by pharmacokinetics
- ♦ Analyze the Pharmacovigilance System
- ♦ Conduct a review of errors with medical devices: adverse incidents, alerts and notifications
- ♦ Examine robotic systems for drug packaging and dispensing and unit dose dosing systems, repackaging and unit dose manufacturing, automated and conventional systems
- ♦ Indicate the safety of biobanks and transfusion safety
- ♦ Develop safety aspects related to medication

### **Module 6. Errors in Health Care and Adverse Events**

- ♦ Provide a basis for the different models and systems of adverse event management
- ♦ Update knowledge about patient safety
- ♦ Propose techniques and tools for the improvement of patient safety
- ♦ Develop the tools to carry out a safety plan
- ♦ Analyze the different models of clinical practice guidelines and the evaluation of adherence to them
- ♦ Delve into the keys to patient safety in the healthcare environment

### **Module 7. Organizational Safety**

- ♦ Identify security risks in health information management
- ♦ Analyze the different organizational structures to promote patient safety
- ♦ Implement new, more attractive and modern security training methodologies
- ♦ Assess the impact of safety in terms of efficiency
- ♦ Detect the key aspects to be monitored for a safe control of the facilities
- ♦ Promote knowledge of environmental safety in the healthcare environment
- ♦ Position the patient as a key element in patient safety

### **Module 8. Patient Safety in the Surgical Block. High Risk Areas**

- ♦ Update the functional and structural characteristics of the Surgical Block directly related to patient safety
- ♦ Analyze the interventions that professionals must carry out to ensure the safety of patients receiving surgical treatment, essential to contribute to the reduction of adverse effects related to the same
- ♦ Analyze the situations in the surgical practice environment susceptible to risk for the patient and the most common risks
- ♦ Examine the different activities, methods and tools for the improvement of surgical safety
- ♦ Develop the different programs and strategies as a tool for the improvement of surgical safety, as well as their level of implementation in the surgical area
- ♦ Identify the role of healthcare professionals in strategies to improve patient surgical safety
- ♦ Establish different safety controls that can be performed in any operating room

**Module 9. Pediatric Patient Safety**

- ♦ Acquire the ability to identify the pediatric patient as vulnerable
- ♦ Elaborate risk maps to detect the most frequent adverse events in the pediatric age group
- ♦ Objectify the risk situations of the neonatal patient and his environment
- ♦ Consider the safety of the pediatric patient in clinical research
- ♦ Analyze diagnostic processes and functional tests as generators of safety incidents in children
- ♦ Identify safety risk situations in the pediatric critical patient and their environment
- ♦ Review the pediatric surgical and anesthetic process as a safe environment
- ♦ Know how to detect safety risks in the pediatric patient of special vulnerability: palliative, oncologic and pain management

**Module 10. Humanization of Healthcare**

- ♦ Promote Humanization in Healthcare
- ♦ Analyze the fundamental axes for humanized care: the patient and their family health care personnel and organizational structure
- ♦ Investigate the humanization of health care for particularly vulnerable patients
- ♦ Update knowledge in order to draw up a humanization plan
- ♦ Examine the value-based management model



*It delves into the main situations of surgical healthcare practice that may pose a risk to the patient with the best didactic material"*

# 03 Skills

One of the elements that distinguishes this program is the quality of the pedagogical resources provided to students for the realization of an effective update. Thus, by means of multimedia pills and case studies, the nursing professionals will be able to keep abreast of the advances achieved in the protocols and action measures for the improvement of care and patient safety in the health system.





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*Incorporate the latest advances in preventive actions in favor of Patient Safety thanks to the case study simulations of this degree”*



## General Skills

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- ◆ Develop humanization strategies that incorporate what is really valuable for the patient, ensure the dignity of people and their rights, and the care of their professionals
- ◆ Propose preventive actions to reduce the rate of adverse events directly related to health care
- ◆ Involve patients in their active role in their safety
- ◆ Develop the structure and foundations of the safety culture in healthcare organizations
- ◆ Implement healthcare technologies and their impact on patient safety
- ◆ Apply the basic principles of Bioethics in daily healthcare activity to improve the quality of care







## Specific Skills

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- ◆ Generate a culture of patient safety through learning safe clinical practices
- ◆ Identify the main benefits of risk management through more effective strategic planning
- ◆ Establish quality of care methodologies
- ◆ Analyze the management by care processes
- ◆ Design and implement strategies for quality improvement in healthcare institutions
- ◆ Enhance the effective management of people to improve quality
- ◆ Implement models for evaluating the quality of care and management within a hospital
- ◆ Design a continuous improvement plan in clinical and hospital centers
- ◆ Incorporate the latest advances in patient incident reporting systems



*Thanks to this program you will be able to integrate the most effective methodologies for the design of improvement plans in clinical and hospital centers"*

# 04

# Course Management

TECH has brought together in this Professional Master's Degree an excellent teaching team versed in Quality and Patient Safety with extensive experience in both medical care, health care and research. A magnificent faculty that will lead the graduates to obtain the latest information on the measures implemented in various health care areas in favor of humanization, clinical risk management and best practices.



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*TECH has assembled an excellent team of Quality and Patient Safety specialists to get you the upgrade you're looking for"*

## Management



### Dr. Paredes Esteban, Rosa María

- ◆ Head of Service and Director of the Pediatric Surgery Clinical Management Unit of the Reina Sofia Hospital
- ◆ Specialist in Pediatric Surgery Reina Sofia Hospital
- ◆ Specialist in Pediatric Surgery at the Medical-Surgical Hospital of Jaén
- ◆ Responsible for Pediatric Surgery training at the Reina Sofia Hospital
- ◆ President of the Spanish Society of Pediatric Surgery
- ◆ Coordinator of the Bioethics Commission of the Spanish Society of Pediatric Surgery
- ◆ Coordinator of the Vascular Anomalies Committee of the University Hospital Reina Sofía
- ◆ Coordinator of the Living Donor Transplant Commission (Renal and Hepatic) of Córdoba
- ◆ PhD in Medicine and Surgery from the University of Granada
- ◆ Degree in Medicine and Surgery from the University of Granada
- ◆ Member of European Society of Pediatric Endoscopic Surgery, Spanish Society of Pediatric Surgery, Editorial Committee of the journal of the Spanish Society of Pediatric Surgery, Scientific Evaluation Committee of the Spanish Society of Pediatric Surgery

## Professors

### Dr. Serrano Ortiz, Álvaro

- ◆ Specialist in Preventive Medicine and Public Health at the University Hospital Reina Sofía
- ◆ Researcher at the Maimonides Institute of Biomedical Research of Cordoba, in the Associate Group of Preventive Medicine and Public Health (GA13)
- ◆ Teaching collaborator of the Preventive Medicine and Public Health Service of the Faculty of Medicine of Córdoba (UCO.)
- ◆ Degree in Medicine from the University of Córdoba
- ◆ Master's in Public Health and Health Management at the Andalusian School of Public Health

### Dr. Salvatierra Velázquez, Ángel

- ◆ Chief of Thoracic Surgery and Lung Transplant Service, Reina Sofía University Hospital
- ◆ Head of the Lung Transplant Group of the Reina Sofia Hospital of Cordoba
- ◆ PhD in Medicine and Surgery from the University of Cadiz
- ◆ Master's in Clinical Unit Management
- ◆ Member of the Andalusian Association of Surgeons, Board of Pharmacy of the Reina Sofia Hospital in Cordoba, Editorial Board of the Association of Pneumologists of Southern Spain. NEUMOSUR, Editorial Board of the Journal of Respiratory Pathology, Institutional Relations Committee of the Spanish Society of Pneumology and Thoracic Surgery (SEPAR), Royal Academy of Medicine and Surgery of Seville

### Ms. González Zurita, Ana Isabel

- ◆ Supervisor of the Pediatric Surgery UGC of the Reina Sofía University Hospital Graduate in Nursing from the University of Córdoba
- ◆ Teacher of the Course Nursing Care in the Hospitalized Pediatric Patient
- ◆ Master's Degree in Pharmacotherapy for Nursing from the University of Valencia
- ◆ Master's Degree in Specialized Nursing Care in Emergency, Critical Care and Post-Anesthesia Areas
- ◆ Graduate in Nursing from the University of Cordoba

### D. Raya Serrano, Antonio Luis

- ◆ Director of Nursing, Hospital San Juan de Dios de Córdoba
- ◆ Master's Degree in Integrated Health Services Management from the ESADE Business School
- ◆ Expert in Nursing Services Management by the UNED
- ◆ University Diploma in Nursing from the San Juan de Dios University School of Nursing of the Universidad Pontificia de Comillas
- ◆ Senior Technician in Occupational Risk Prevention specializing in Security
- ◆ Senior Technician in Occupational Risk Prevention specializing in Hygiene

**Ms. Ruiz Palomino, Aurora**

- ♦ Pediatric Nurse Specialist
- ♦ Associate Professor of Nursing at the University of Córdoba
- ♦ Official Master's Degree in Social and Cultural Gerontology from the University of Jaén
- ♦ Master's Degree in Pharmacology and Pharmacotherapy for Nursing from the University of Valencia
- ♦ Specialization Diploma in Care Management and Advanced Nursing Practices from the University of Granada
- ♦ University Diploma in Nursing from the University of Granada

**Dr. Marín González, Beatriz**

- ♦ Specialist in Preventive Medicine and Public Health
- ♦ Specialist in Family and Community Medicine
- ♦ Doctor of Medicine
- ♦ Master's Degree in Research Methodology in Health Sciences from the OCU
- ♦ Master's Degree in Emergency Medicine from the University of Cordoba
- ♦ Master's Degree in Public Health from the University Granada
- ♦ Expert in Pediatric Emergencies Catholic University of Valencia
- ♦ Antimicrobial Resistance Expert

**Ms. Palop del Río, Ángela**

- ♦ Responsible for the Certification of Health and Social Services Centers and Units at the Health Quality Agency of Andalusia
- ♦ Responsible for the management of the evaluation of Centers, Services and Reference Units (CSUR) of the National Health System
- ♦ Responsible for the implementation of the ACSA certification model in Portugal and Brazil
- ♦ Responsible for the European Commission Project for the evaluation of the first 24 European Reference Networks for Rare Diseases
- ♦ Lecturer in the Improvement Course for the Evaluation of Action Plans and Establishment of Performance Indicators. Andalusian Institute of Public Administration
- ♦ Teacher of the Diploma of Specialization in Quality and Patient Safety in Health Institutions. Andalusian School of Public Health
- ♦ Graduate in Pharmacy from the University of Granada
- ♦ Official Postgraduate Master's Degree in Quality Management in Health Services by the University of Murcia.
- ♦ Specialist Certificate: Fundamentals of the External Evaluation Survey by the International Society for Quality in Health Care (ISQua)
- ♦ Specialist in Microbiology and Parasitology

**D. López Guijo, Carlos Javier**

- ◆ Coordinator of Operating Room, Sterilization and Major Outpatient Surgery at Hospital San Juan de Dios of Córdoba
- ◆ Postgraduate Diploma in Surgical Instrumentation in Orthopaedic Surgery and Traumatology Nursing by the Camilo José Cela University
- ◆ Postgraduate Diploma in the Management of the Polytraumatized for Nursing by the Antonio de Nebrija University
- ◆ Graduate in Nursing from the University of Cordoba
- ◆ Superior Degree in Diagnostic Imaging and Nuclear Medicine

**Ms. Continente Bermudo, Cristina Isabel**

- ◆ Nurse in the Tracking Unit at the Reina Sofia University Hospital in Cordoba
- ◆ Graduate in Nursing from the University of Cordoba
- ◆ Specialist in Family and Community Nursing
- ◆ Specialty in Pediatric Nursing at Reina Sofia University Hospital
- ◆ Master's Degree in Being proactive Nursing Research Care from the Catholic University of Avila
- ◆ Expert in School Nursing, International University of La Rioja

**Mr. Morán Fernández, Eduardo**

- ◆ Critical Care and Emergency Care Specialist at the Infanta Margarita de Cabra Hospital
- ◆ Collaborating Professor of the subject "Professional Ethics" at the Faculty of Nursing of the University of Córdoba
- ◆ Basic, intermediate and advanced life support instructor according to the National CPR Plan
- ◆ Master's Degree in Bioethics from the Complutense University of Madrid
- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid

#### **D. Pajares Conde, Diego**

- ♦ Head of the Professional Services Unit at the University Hospital Reina Sofia.}
- ♦ Administrative Economic and General Services Director of the Southern Health Management Area of Córdoba of the Andalusian Health Service
- ♦ Deputy Director General of Personnel of the Andalusian Health Service of Andalusia
- ♦ Deputy Director of Planning and Programs. North Cordoba Health Management Area
- ♦ Master's Degree in Public Health and Health Management from the Andalusian School of Public Health of the University of Granada
- ♦ Master in Health Economics and Management of Health Organizations by the Andalusian School of Public Health of the University of Granada
- ♦ Degree in Psychology from the University of Granada
- ♦ Postgraduate Certificate in Nursing from the University of Cadiz
- ♦ Diploma of Advanced Studies (DAS) in the program: "Planning, Management and Economic-Social Environment of the Company", at the Faculty of Economics and Business Administration of the University of Cordoba

#### **D. Ruz López, Antonio Jesús**

- ♦ Occupational Risk Prevention Technician at the Reina Sofia University Hospital
- ♦ Industrial Technical Engineer (specializing in Electricity) from the Polytechnic School of the University of Cordoba
- ♦ Postgraduate Course in Explosive Atmospheres from the Polytechnic University of Madrid
- ♦ Prevention of Occupational Risks Specialty Occupational Safety. Esculapio Foundation

#### **Ms. Corpas Nogales, María Elena**

- ♦ Coordinator of the Andalusian Patient Safety Incident Reporting and Learning System, notificASP
- ♦ Teacher at the Andalusian School of Public Health
- ♦ Postgraduate Diploma in Quality and Patient Safety in Health Institutions by the Andalusian School of Public Health and the University of Granada
- ♦ Postgraduate Diploma in Health Sciences Research: Quantitative and Qualitative Methodologies by the Andalusian School of Public Health and the University of Granada
- ♦ Diploma of Advanced Studies in Statistics and Operations Research from the University of Granada
- ♦ Degree in Mathematical Sciences from the University of Granada

#### **Dr. García Martínez, Elena**

- ♦ Deputy Medical Director of the Reina Sofia University Hospital
- ♦ Collaborating Professor in the Master of Nutrition and Metabolism at the University of Cordoba
- ♦ Specialist in Pediatrics and specific areas
- ♦ President of the Scientific Committee of the XXV Congress Spanish Society of Emergency Medicine (SADECA)
- ♦ Doctor from the University of Cordoba
- ♦ Degree in Medicine and Specialist



**Dr. Gras García, Elena María**

- ◆ Specialist in Preventive Medicine and Public Health
- ◆ COVID-19 protocol coordinator during the SARS-CoV2 pandemic at the Ayora Health Center System
- ◆ Doctorate in Medicine from the Autonomous University Madrid
- ◆ Master's Degree in Public Health and Health Management at the Andalusian School of Public Health
- ◆ Studies in Public Health and Intercultural Collective Health at the National University of Colombia

**Ms. López Cabrera, Estefanía**

- ◆ Supervisor of Preventive Medicine and Public Health at the Reina Sofia University Hospital in Cordoba
- ◆ Occupational Nurse Specialist at the Occupational Health Unit of the Reina Sofia University Hospital in Córdoba
- ◆ Lecturer in the area of Preventive Medicine and Public Health at the Reina Sofia University Hospital in Córdoba
- ◆ Collaborating Professor, Department of Preventive Medicine and Public Health, University of Córdoba
- ◆ Master's Degree Official in Occupational Risk Prevention from the University of Cordoba
- ◆ Master's Degree in Occupational Health in the Health Care Environment by the European University Miguel de Cervantes
- ◆ Master's Degree in Pharmacotherapy for Nursing from the University of Valencia
- ◆ Master's Degree in Health Management from the University Isabel I of Burgos
- ◆ Diploma in Nursing from the University of Cordoba

**Dr. Moreno Campoy, Elvira Eva**

- ◆ Director of the Strategy for Patient Safety in the Andalusian Public Health System
- ◆ Lecturer in the Quality and Patient Safety Expert of the University of Granada at the Andalusian School of Public Health
- ◆ Lecturer in Clinical Safety at the University Center of Nursing of Ronda, University of Malaga
- ◆ Principal investigator and collaborator in different research projects of the Health Research Fund (FIS) and by the Andalusian Ministry of Health
- ◆ Coordinator of the Patient Safety Commission of the Spanish Society of Primary Care Pharmacists
- ◆ PhD in Health Sciences from the University of Malaga
- ◆ Degree in Pharmacy from the University of Granada
- ◆ Master's Degree in Public Health and Health Management from the University of Granada
- ◆ Expert in Quality in Health Institutions by the University of Granada
- ◆ Postgraduate in Biomedical Publication Preparation, Universitat Autònoma de Barcelona
- ◆ Postgraduate degree in Pharmaceutical Management in Primary Care from the University of Barcelona
- ◆ Member of Member of the Board of Directors of the Society for Healthcare Quality of Andalusia, Editorial Committee of the journal SADECA

### Ms. Álvaro Sánchez, Ester

- ♦ Pediatric ICU Nurse at the Reina Sofia University Hospital in Cordoba
- ♦ Specialist in Pediatric Nursing at the Hospital Universitario Reina Sofía
- ♦ Graduate in Nursing from the University of Salamanca
- ♦ Postgraduate Diploma in School Nursing at the UNIR
- ♦ Postgraduate Diploma in Nursing Leadership. Nightingale Challenge by UNIR

### Dr. Leiva Crespo, Fernando

- ♦ Specialist Areas from Pathological Anatomy at the University Pathological Anatomy Service of Hospital Reina Sofia of Córdoba
- ♦ Specialist in Family and Community Medicine
- ♦ Specialist Areas in Pathological Anatomy at the University Hospital Reina Sofia of Córdoba
- ♦ Clinical Tutor of Pathological Anatomy at the University Pathological Anatomy Service of Hospital Reina Sofia of Córdoba
- ♦ Researcher in the Muscle Regeneration Research Group (REGMUS)
- ♦ Researcher in the GC-12 Research Group in Epidemiological Research in Primary Care of the Maimonides Institute of Translational Biomedical Research
- ♦ Honorary Collaborator of Histology in the Department of Morphological Sciences of the University of Córdoba
- ♦ Professor of Anatomy and Anatomic Pathology at the University of Cordoba
- ♦ PhD Cum Laude in biomedicine with international mention from the University of Cordoba
- ♦ Degree in Medicine from the University of Córdoba
- ♦ Degree in Biochemistry from the University of Córdoba
- ♦ Master's Degree Translational Biomedical Research from the University of Cordoba

### Ms. Yuste Bustos, Francisca

- ♦ Nursing Supervisor of the Digestive, Resuscitation and ICU Service at the San Juan de Dios Hospital in Cordoba
- ♦ Graduate in Nursing from the University of Jaén
- ♦ Postgraduate Diploma in Prevention of Occupational Risks
- ♦ Postgraduate Diploma in intravenous therapy and vascular accesses
- ♦ Advanced life support certification
- ♦ Certification fundamental *Critical Care Support* Certificate of Successful Completion, presented by the Society of Critical Care Medicine
- ♦ Member of the expert panel and author of the guide "Clinical Practice Guide on the use of central venous catheters insertion peripheral insertion (PICC) in the critical patient
- ♦ Positive Manager Award by the Optimistic Hospital Foundation in 2019 and 2020
- ♦ Scientifically Endorsed by the Spanish Society of Intensive Care Nursing and Coronary Units (SEEIUC)

### D. Salmoral Almagro, Francisco

- ♦ Technical Engineer in Vithas Sanidad Málaga Internacional
- ♦ Senior Technician from Occupational Risk Prevention
- ♦ Integrated Quality Systems Technician
- ♦ Environmental Management Systems Higher Technician
- ♦ Indoor Environmental Quality Technician
- ♦ Industrial Technical Engineer specialized in Electricity, University of Cordoba

**Dr. Vallejo Cantero, Francisco Javier**

- ♦ Head of Department Tracking Unit integrate at the Reina Sofia University Hospital in Cordoba
- ♦ Member of the group for the implementation and development of the integrated care process "Childhood pain" in the HURS of Córdoba
- ♦ Area Specialist in Anesthesiology and Resuscitation at the Reina Sofia University Hospital in Cordoba
- ♦ Resident tutor in the specialty of anesthesiology and resuscitation at the University Hospital of Cordoba
- ♦ Anesthesiology assistance to the transplant program of the Reina Sofia Hospital
- ♦ Preferably in the maternity and infant surgical block of the Reina Sofia Hospital
- ♦ Coordinator of the accreditation of clinical sessions of the Anesthesiology and Resuscitation service at the HURS of Córdoba
- ♦ Graduate in Medicine and Surgery, University of Cordoba

**Dr. Fornés Torres, Gema**

- ♦ Head of Immunohematology Area (Serological and Molecular Studies)
- ♦ Acting Medical Director of the Transfusion, Tissue and Cell Center of Córdoba (CTTC)
- ♦ Area Chief of Serology, Nucleic Acid Amplification Technology, Platelet Immunology
- ♦ Specialist in Hematology and Hemotherapy at the Hospital Universitario Reina Sofia Cordoba
- ♦ Attending Physician of Hematology and Hemotherapy at the Hospital Universitario Reina Sofia Cordoba
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid

**Dr. Benítez Muñoz, Helga María**

- ♦ FEA at the Pediatric Palliative Care Unit Cardiology Service Department of the Hospital Universitario Reina Sofía. Cordoba of
- ♦ Clinical Tutor of the Pediatrics course of the Medicine Degree of the University of Seville
- ♦ Specialist in Pediatrics and its specific areas by the Ministry of Science, Innovation and Universities
- ♦ Specialist in Pediatric Palliative Care
- ♦ Professional Master's Degree in Pediatric Palliative Care from the International University of La Rioja
- ♦ Degree in Medicine from the University of Seville

**D. Cordero Ramos, Jaime**

- ♦ Specialist in Hospital Pharmacy at Virgen Macarena University Hospital
- ♦ Master's Degree Clinical Research from Menéndez Pelayo International University
- ♦ Master's Degree in Clinical Trials from the University of Seville
- ♦ Postgraduate Diploma of medical study Statistics and Interpreting
- ♦ Degree in Pharmacy

### **Dr. Salcedo Leal, Inmaculada**

- ♦ Lecturer Head of Department of Preventive Medicine and Public Health at the Reina Sofía University Hospital in Córdoba
- ♦ Evaluator of the Bank of State Evaluation Agency (MINECO)
- ♦ Interlocutor in the Junta de Andalucía in the Phase Reduction of Isolation and Social Distancing Measures
- ♦ Associate Professor in the Department of Medical and Surgical Sciences, School of Medicine and Nursing, University of Córdoba
- ♦ PhD in Medicine and Surgery from the University of Cordoba
- ♦ Specialist in Preventive Medicine and Public Health at the Reina Sofia Hospital in Cordoba
- ♦ Specialist in Family and Community Medicine at the Virgen Macarena Hospital in Seville and the Pino Montano Health Center in Seville
- ♦ Master's Degree in Public Health and Health Administration from the Andalusian School of Public Health of Granada
- ♦ Postgraduate Diploma in Quality from Health Institutions by the Andalusian School of Public Health of Granada
- ♦ Member of: President of the National Commission of the Specialty of Preventive Medicine and Public Health, Vice-President of the Spanish Society of Preventive Medicine, Public Health and Health Management (SEMPSPGS), Vice-President of the Andalusian Society of Preventive Medicine, Public Health and Health Management (SAMPSPGS), Spokesperson of the Ministry of Health and Families of the Andalusian Regional Government in the Coronavirus expert group, Spokesperson of the Council of High Impact Public Health Alerts

### **Dr. Monserrat Villatoro, Jaime**

- ♦ Health Technician in the Multiprofessional Family and Community Care Teaching Unit of the Córdoba and Guadalquivir Health District
- ♦ Collaborating Professor, Department of Preventive Medicine and Public Health, University of Córdoba
- ♦ Postgraduate Diploma in BIG Data National University of Distance Education
- ♦ Degree in Medicine from the University of Córdoba

### **Dr. Romero Martinez, Jesús**

- ♦ Head of Section in Pediatric Anesthesiology at the Reina Sofia Hospital in Cordoba
- ♦ Coordinator of the surgical block of the Maternal and Infant Hospital
- ♦ Clinical tutor attached to the department of medical-surgical specialties of the University of Cordoba
- ♦ Tutor for residents in training in Anesthesiology and Resuscitation at the Reina Sofia Hospital in Cordoba
- ♦ PhD in Medicine from the University of Córdoba
- ♦ Graduate in Medicine and Surgery, University of Cordoba

### **Dr. Robles Arista, Juan Carlos**

- ♦ Chief of Sections Intensive Care Unit of the Reina Sofia University Hospital
- ♦ Transplant Coordinator, Reina Sofia University Hospital
- ♦ PhD by the Faculty of Medicine of the University of Granada
- ♦ Degree in Medicine and Surgery from the Faculty of Medicine of Granada
- ♦ Degree from the Faculty of Medicine of the University of Granada

**D. Toro Santiago, Joaquín**

- ♦ Head of Service Integrated Training Unit at the Reina Sofia University Hospital in Cordoba
- ♦ Supervisor of Pediatric Surgery at the Pediatric Intensive Care Unit and Pediatric Emergency Department of the Reina Sofia University Hospital
- ♦ Pediatric Nursing Teaching Unit Coordinator
- ♦ Associate Professor at the University of Cordoba
- ♦ Lecturer of the Master in Nursing Care of the Hospitalized Patient at the University of Barcelona
- ♦ University Diploma in Nursing from the University of Cordoba
- ♦ Pediatric Nurse Specialist

**Dr. Delgado Osuna , José Antonio**

- ♦ Deputy Provincial Director of Information Systems and Technologies in the province of Cordoba in the Andalusian Health Service
- ♦ Lecturer in courses at the Andalusian Health Service, in the Osuna Health Management Area
- ♦ Doctorate in Computer Engineering from the University of Cordoba
- ♦ Master's Degree in *Computing* and Intelligent Systems from the University of Granada
- ♦ Computer Engineer from the University of Granada
- ♦ Technical in Computer Engineer

**Dr. Pérez Martinez, José Fernando**

- ♦ Assistance Director HAR Toyo of University Hospital Torrecárdenas
- ♦ Specialist in General Surgery and Digestive System
- ♦ Instructor of the Training Course in Breast Pathology for "Internal Doctors of General and Digestive Surgery and Surgical Specialists" of the Spanish Association of Surgeons
- ♦ Collaborating Professor at the Faculty of Medicine of the University of Las Palmas de Gran Canaria
- ♦ Degree in Medicine and Surgery from the University of Granada
- ♦ Master's Degree in Hospital Management and Health Services from CEU Cardenal Herrera
- ♦ Postgraduate Diploma in Clinical Management by the International Center for Continuing Education of the Manresa Campus of the University of Vic
- ♦ Diploma from ESADE in the program Excellence in Hospital Management: Towards Value in Health

**Dr.Rumbao Aguirre, José Manuel**

- ♦ Head of the Pediatrics Department of the Reina Sofía Hospital
- ♦ Director Medical Director of the Reina Sofia Hospital
- ♦ Deputy Director of Health Care in the Andalusian Health Service
- ♦ Manager of the Córdoba and Guadalquivir Health District
- ♦ Clinical Tutor of of Pediatrics at the Faculty of Medicine of Cordoba
- ♦ Pediatrics Resident Tutor at the Reina Sofia Hospital in Cordoba
- ♦ Masters Degree in Medical and Clinical Management
- ♦ Postgraduate Diploma in patient security
- ♦ Graduate in Medicine and Surgery, University of Cordoba

**Dr. López Moyano, Juan José**

- ♦ Faculty in Preventive Medicine, Public Health and Health Management at the University Hospital Reina Sofía
- ♦ Collaborator at the University of Cordoba with the Preventive Medicine and Public Health team of the Reina Sofia University Hospital
- ♦ Master's Degree in Public Health and Health Management at the Andalusian School of Public Health
- ♦ Medical Graduate from the University of Cadiz

**Dr. Romero Cabrera, Juan Luis**

- ♦ Internal Medicine Area Specialist at Reina Sofia University Hospital
- ♦ Specialty in Internal Medicine at Reina Sofia University Hospital
- ♦ Honorary collaborator of the Department of Medical and Surgical Sciences, School of Medicine and Nursing, University of Córdoba
- ♦ UB-SEMI Postgraduate Master's Degree in Clinical Management of Systemic Autoimmune Diseases from the University of Barcelona
- ♦ Master in Infectious Diseases and Antimicrobial Treatment by Cardenal Herrera University
- ♦ Master's Degree in Human Nutrition from the University of Cordoba
- ♦ Postgraduate Diploma in Cardiovascular Risk Management and Unit Management from the University of Cordoba
- ♦ Degree in Medicine from the University of Cadiz Academic Background

**Ms. Casares Landauro, Laura**

- ♦ Coordinator of the Early Childhood Care Center of the Hospital San Juan de Dios of Córdoba
- ♦ Teacher of Hearing and Language by the School of Magistry Sagrado Corazón, center attached to the University of Cordoba
- ♦ Degree in Pedagogy from the University of Granada
- ♦ Master's Degree in Business Administration, specializing in Healthcare Management from IMF Business School of the University of Nebrija
- ♦ Master's Degree from Early Onset Care by the University of Granada
- ♦ Professional Master's Degree in Research Designs and Applications in Psychology and Health, University of Granada

**Ms. Pabón González, Laura**

- ♦ Nurse of Events and Preventive Services in Basic and Advanced Life Support ambulances in Ambulancias Ayón
- ♦ Specialty in Pediatric Nursing at Reina Sofia University Hospital
- ♦ Postgraduate Diploma in Nursing in Mental Health and Psychiatry by the UNED
- ♦ Postgraduate Diploma in Nursing in prescription, use and management of drugs by the UNED
- ♦ Postgraduate Diploma in Advanced Nursing Care by the University of León
- ♦ Official Master's Degree in International Health from the University of Malaga
- ♦ Graduate in Nursing from the University of Malaga

**Ms. Romero Romero, Lucía**

- ◆ Nurse in the Tracking Unit at the Reina Sofia University Hospital in Cordoba
- ◆ Nurse in the Internal Medicine Clinical Management Unit in the COVID-19 Units at the Reina Sofia University Hospital in Cordoba
- ◆ Postgraduate Diploma in Hemodialysis and Renal Transplantation for Nurses at the Antonio de Nebrija University
- ◆ Master's Degree in Occupational Risk Prevention, specializing in Industrial Hygiene, University of Cordoba
- ◆ Postgraduate Diploma in Mechanical Ventilation and Airway Care for Nurses, Antonio de Nebrija University
- ◆ Postgraduate Diploma in Polytraumatized and Monitoring in ICU for Nursing by the Antonio de Nebrija University
- ◆ Graduate in Nursing from the University of Cordoba

**Dr. Ordóñez Díaz, María Dolores**

- ◆ Pediatrician in the Neonatology Unit of the Reina Sofia University Hospital in Cordoba
- ◆ Member of the Quality Commission of the University Hospital of Cordoba
- ◆ Training activities related to Patient Safety for Healthcare Professionals
- ◆ PhD in Biomedicine from the University of Córdoba
- ◆ Degree in Medicine and Surgery from the University of Cordoba

**Dr. Aguilar Romero, María del Carmen**

- ◆ Specialist in Preventive Medicine and Public Health at the University Hospital Reina Sofía de Córdoba
- ◆ Specialist in Psychiatry at the University Hospital of Fuenlabrada
- ◆ Lecturer in the course "International protection and human rights in the social and health context" by the Andalusian School of Public Health
- ◆ Teaching collaborator of the Preventive Medicine and Public Health Service of the Faculty of Medicine of Córdoba (UCO)
- ◆ Associate Professor of Psychiatry at the Alfonso X El Sabio University
- ◆ Honorary Collaborator of the Department of Medicine and Surgery teaching theory classes in Psychiatry at the Universidad Rey Juan Carlos (URJC)
- ◆ Master's Degree in Public Health and Health Management by EASP
- ◆ University Diploma in Mental Health in Situations of Political Violence and Catastrophes from the Complutense University of Madrid
- ◆ Degree in Medicine from the Autonomous University Madrid

**Ms. Castellano Zurera, María del Mar**

- ◆ Researcher of the project "Ethical commitment of the service providers of the Agency of Social Services and Dependency of Andalusia"
- ◆ Specialist in Hospital Pharmacy
- ◆ Master's Degree in Quality Management in Health Services from the University of Murcia
- ◆ PhD in Biochemistry, Toxicology, Legal Medicine and Food Sciences
- ◆ Degree in Pharmacy from the University of Seville
- ◆ Member of: Vice-president of the Health Committee of the Spanish Quality Association

**Dr. Pérez Adrián, María del Carmen**

- ♦ Advanced Palliative Care Resource Physician at the Reina Sofia University Hospital in Cordoba
- ♦ Specialist in Family and Community Medicine
- ♦ Clinical tutor of the Department of Medicine of the University of Cordoba in the Medical Rotation
- ♦ Lecturer of the Master's Degree in Emergency and Urgent Care of the Sick of the University of Cordoba
- ♦ Teaching Collaborator of the Postgraduate Training Program at the Family and Community Medicine Teaching Unit of Córdoba
- ♦ Master's Degree in Palliative Care from the University of Valladolid
- ♦ Master's Degree in Bioethics, University of Valencia
- ♦ Degree in Medicine and Surgery from the University of Cordoba

**Dr. Gil Campo, María Mercedes**

- ♦ Coordinator of the Tracking Unit at the Reina Sofia University Hospital in Cordoba
- ♦ Specialist Pediatrician
- ♦ Pediatrics Professor at the Faculty of Medicine of the University of Cordoba
- ♦ PhD in Medicine from the University of Córdoba
- ♦ Degree in Medicine and Surgery from the University of Cordoba

**Dr. Ferrer Higuera, María José**

- ♦ Medical Director of the North Health Management Area of Cordoba
- ♦ Deputy Medical Director of the Reina Sofia University Hospital of Cordoba
- ♦ Specialist in Intensive Care Medicine at the University Hospital Reina Sofia of Córdoba
- ♦ Instructor of Basic and Advanced Cardiopulmonary Resuscitation (CPR) by the European Resuscitation Council (ERC)
- ♦ Teacher in the Diploma of Specialization in Quality and Patient Safety in Health Institutions, taught by the Andalusian School of Public Health (EASP)
- ♦ Master's Degree in Health Sustainability through Innovative Resource Management from the University of Valencia
- ♦ Degree in Medicine from the University of Córdoba
- ♦ Specialization Diploma in Quality and Patient Safety in Health Institutions from the University of Granada
- ♦ Diploma of Specialization in Bioethics from the University of Granada
- ♦ Specialization Diploma in Management Development in the Health Sector from the International University of Andalusia
- ♦ Certificate of Advanced Studies in the program "Advances in Medical-Surgical Specialties" by the Department of Medical-Surgical Specialties of the University of Cordoba



**Ms. Castro Ruz, María José**

- ◆ Deputy Director of Nursing at the Reina Sofia University Hospital in Cordoba
- ◆ Coordinator of Reference Units of the Ministry of Health and Social Policy of the Queen Sofia University Hospital
- ◆ Coordinator of the ERAS program for Colorectal and Hepatobiliary Surgery at the University Hospital Reina Sofia
- ◆ Coordinator of the GERM program for Bariatric Surgery and Gynecologic and Hematologic Surgery at the Queen Sofia University Hospital
- ◆ Coordinator of the ASCO-QOPI certification program of the Medical Oncology unit of the University Hospital Reina Sofia
- ◆ Member of the Standard Operating Procedures review group of the University Hospital Reina Sofia
- ◆ Lecturer at the Andalusian School of Public Health
- ◆ Lecturer in training related to continuous quality improvement at the University Hospital Reina Sofia
- ◆ University Diploma in Nursing from the University of Cordoba
- ◆ Postgraduate Diploma in Health Services Management, University of Granada
- ◆ Postgraduate Diploma in Quality Management and Patient Safety, University of Granada
- ◆ Specialization in certification model and continuous quality improvement of the American Society of Medical Oncology: ASCO
- ◆ Intermediate Technician in Occupational Risk Prevention
- ◆ ISQua (International Society for Quality in Health Care) certified evaluator

- ◆ President of the Gender Violence Commission at the Reina Sofia University Hospital
- ◆ Secretary of the Commission for Equal Opportunities between Men and Women of the Reina Sofia University Hospital
- ◆ Spokesperson for Spain in the elaboration of ISO/CD 22336: Security and resilience-Organizational resilience-Guidelines for resilience policy and strategy
- ◆ Secretary of the Andalusian Society of Healthcare Quality. SADECA
- ◆ Member of working groups for the revision of the Criteria for the Designation of Reference Units of the Ministry of Health (CSUR)

**Ms. Sánchez Reyes, Marta**

- ◆ Pediatric Palliative Care Nurse at the Reina Sofia University Hospital in Cordoba
- ◆ Pediatric Nurse Specialist
- ◆ Master's Degree in s Degree specialized in Pediatrics from the University of Valencia
- ◆ Master's Degree in Centers Healthcare from the University of Valencia
- ◆ Specialist in Emergency Nursing and Outpatient Emergencies from the European University of Madrid

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- ◆ Nurse in the Clinical Management Unit of Preventive Medicine and Public Health of the Reina Sofia University Hospital of Cordoba
- ◆ Master's Degree in Emergency Nursing. Rey Juan Carlos University
- ◆ Master's Degree in Nutrition and Metabolism from the University of Cordoba
- ◆ Master in Pharmacotherapy for Nursing by the University of Valencia
- ◆ Graduate in Nursing from the University of Cordoba

**Ms. Cristino Espinar, María Soledad**

- ♦ Supervision of the Pharmacy Unit of the University Hospital Reina Sofía
- ♦ Coordinator of the Strategic Line of Patient Safety in Outpatient Emergency - Emergency of Andalusia
- ♦ Lecturer in the Patient Safety Course of the EASP
- ♦ Diploma in Nursing from the University of Granada
- ♦ Specialization Diploma in Bioethics from the Andalusian School of Public Health
- ♦ ISO 14155:2011 - GPC Certificate by the World Medical Device Organization
- ♦ Expert in Health Management by the Andalusian School of Public Health
- ♦ Expert in Quality and Patient Safety by the Andalusian School of Public Health

**Ms. Jaen Toro, Mercedes**

- ♦ Nurse Case Manager at the Reina Sofia University Hospital in Cordoba
- ♦ Nurse in the Andalusian Health Service of the Andalusian Regional Government
- ♦ Associate Professor of Health Sciences at the University of Córdoba, School of Medicine and Nursing
- ♦ Graduate in Nursing from the University of Cordoba

**Ms. Román Fuentes, Mercedes**

- ♦ Administrative Technician in the Quality Unit of the Virgen Macarena University Hospital
- ♦ Degree in Pharmacy from the University of Seville
- ♦ Expert in Sanitary Orthopedics, University of Seville
- ♦ Expert in Management and Operation of Water Treatment Plants by the University of Granada
- ♦ Specialization Diploma in Quality and Safety in Health Institutions. University of Granada

**Dr. Armengol de la Hoz, Miguel Ángel**

- ♦ Telecommunications Specialist
- ♦ PhD Cum Laude for his thesis on the Promotion, Integration, Management and Processing of Open Big Data Repositories of Hospitalized Critical Patients, carried out at the Department of Biomedical Engineering of the Polytechnic University of Madrid
- ♦ Master's Degree in Biomedical Engineering, Specialty in Biomedical Imaging and Biomedical Devices, Polytechnic University of Madrid
- ♦ Telecommunications Engineer (Certificate of Professional Aptitude in Spain), Alfonso X el Sabio University
- ♦ Degree in Telecommunication Engineering, specializing in Image and Sound; Alfonso X el Sabio University

**Ms. Casasola Luna, Natalia Araceli**

- ♦ Technician of the Quality Unit of the Virgen Macarena University Hospital
- ♦ Evaluator and project manager for the Andalusian Health Quality Agency (ACSA)
- ♦ Evaluator of Continuing Education Activities for the Health Quality Agency of Andalusia (ACSA)
- ♦ Evaluator of ERN (European Reference Networks) for the European Union, through the ACSA
- ♦ Lead auditor for the UNE-EN ISO/IEC 17025 and UNE-EN ISO 15189 standards (clinical laboratories) for the National Accreditation Entity (ENAC)
- ♦ Specialist in Clinical Analysis at the University Hospital La Princesa
- ♦ Degree in Chemistry at the University of Extremadura
- ♦ Certificate of Pedagogical Aptitude (CAP) from the University of Extremadura

**Ms. Trillo López, Paloma**

- ◆ Nurse and Technical Advisor at the General Secretariat of Humanization, Planning, Social and Health Care and Consumption of the Regional Ministry of Health and Consumption
- ◆ Specialist Nurse in Pediatric Nursing
- ◆ Postgraduate Diploma in Nutrition, Health and Functional Foods by the UNED
- ◆ Postgraduate Diploma in Resources Management in Nursing by UNED
- ◆ Postgraduate Diploma in Cellular Growth and Cancer by the UNED (UNED)
- ◆ Graduate in Nursing from the University of Malaga

**D. Cruz Salgado, Óscar**

- ◆ Quality Unit Technician at the Virgen Macarena University Hospital
- ◆ Degree in Nursing from the University of Seville
- ◆ Master's Degree in Quality Management in Health Services from the University of Murcia
- ◆ Specialization Diploma in Quality and Patient Safety in Health Institutions from the Andalusian School of Public Health
- ◆ Postgraduate Diploma in Nursing Services Management, Universidad Nacional de Educación a Distancia (National University of Distance Education)
- ◆ Postgraduate Diploma in Care for patients and caregivers by the University of Seville
- ◆ Senior Technician in Occupational Risk Prevention
- ◆ Specialist in Ergonomics and Applied Psychosociology

**Dr. Romero de Castilla Gil, Rafael Javier**

- ◆ Hospital Emergency Physician
- ◆ Quality Coordinator of the Hospital of Montilla
- ◆ Coordinator and teacher of the health personnel of the Alto Guadalquivir Health Agency
- ◆ PhD in Medicine and Surgery from the University of Cordoba
- ◆ Specialist in Family and Community Medicine
- ◆ Master's Degree in Quality Management in Health Services, University of Murcia
- ◆ Postgraduate Certificate in Integral Management of Health Services by UNED
- ◆ Postgraduate Diploma in Health Services Evaluation and Research by the UNED
- ◆ Director of Quality Management Systems by AENOR
- ◆ Specialist's Degree in Healthcare from the University of Granada

**Dr. Martínez Noguerras, Rafael**

- ◆ Head of the Preventive Medicine and Public Health Service of the Jaén Hospital Complex
- ◆ Specialist in Preventive Medicine and Public Health
- ◆ Researcher in projects related to adverse events in hospital centers and Patient Safety
- ◆ Degree in Medicine

**Ms. Pérez Moreira, Rosalía**

- ♦ Management Technician in the Central Services of the Andalusian Health Service
- ♦ Lecturer of Clinical Practices of the Physiotherapy degree at the University of Seville
- ♦ Teacher of Teaching Health at the Andalusian School of Public Health
- ♦ Diploma in Physiotherapy from the University of Seville and Degree from the European University of Madrid
- ♦ Master in Health and Quality of Life
- ♦ Master's Degree in Care for Caregivers of Dependent Persons
- ♦ Postgraduate Diploma in Care of the Caregiver
- ♦ Postgraduate Diploma in Care for the Sick and Caregivers
- ♦ Expert in Quality in Health Institutions

**Dr. Sánchez Sánchez, Rafael**

- ♦ Anatomopathologist at the Red Cross Hospital in Cordoba
- ♦ Medical Director at Assistance Los Angeles de Cordoba
- ♦ Specialist Areas in Pathological Anatomy at the University Hospital Reina Sofía of Córdoba
- ♦ Quality and Safety Manager of the Anatomic Pathology Clinical Management Unit of the Reina Sofia University Hospital of Cordoba
- ♦ Degree in Medicine from the University of Córdoba
- ♦ Master Regional in Accident and Emergency Medicine at the University of Cordoba
- ♦ Specialization Diploma in Quality and Patient Safety in Health Institutions from the University of Granada

**Dr. Santamaría Olmo, Rafael**

- ♦ Nephrology Specialist Physician
- ♦ Researcher at the Maimonides Institute of Biomedical Research of Cordoba (IMIBIC)
- ♦ Responsible for assistance and management of the Unit of Arterial Hypertension and Vascular Risk in the Nephrology CMU of the Reina Sofia University Hospital of Cordoba
- ♦ Associate Professor at the Faculty of Medicine of the University of Cordoba
- ♦ PhD in Medicine and Surgery from the University of Cordoba
- ♦ Master's Degree in Hospital Management from the University of Alcalá de Henares
- ♦ Master's Degree in Atherothrombotic disease and diagnosis by non-invasive techniques from the University of Lérida
- ♦ Graduate in Medicine and Surgery, University of Cordoba
- ♦ Postgraduate Diploma in Fabry Disease by the University of Alcalá de Henares

**Dr. Montero Yéboles, Raúl**

- ♦ Specialist Pediatrician
- ♦ Specialist in Pediatrics at the University Hospital of Salamanca
- ♦ Subspecialization in PICU
- ♦ Teacher in the Master in Respiratory Support and Mechanical Ventilation at the University of Valencia
- ♦ Teacher in the European Program of the European Society of Pediatric Intensive Care (Mentorship program)
- ♦ Doctor in Pediatrics by the University of Salamanca
- ♦ Master's Degree in International Cooperation from the Complutense University of Madrid
- ♦ Expert Diploma in Bioethics from the University of Granada
- ♦ Degree in Medicine from the Complutense University of Madrid

**Dr. Díaz Romero, Salvador**

- ◆ Specialist in Preventive Medicine and Public Health
- ◆ Collaborating teacher with the Preventive Medicine and Public Health Service of the Reina Sofia University Hospital in teaching at the University of Cordoba
- ◆ Graduate in Medicine at the University of Valladolid
- ◆ Master's Degree in Public Health and Health Management at the Andalusian School of Public Health

**Dr. López Moreira, Sheila**

- ◆ Specialist in Preventive Medicine and Public Health at the University Hospital Reina Sofia de Córdoba
- ◆ Graduate in Medicine from the University of Santiago de Compostela
- ◆ Upper Technician in Anatomical Pathology and Cytology

**Dr. Ruiz Salcedo, Sofía**

- ◆ Specialist in Family and Community Medicine
- ◆ Evaluation of compliance with the special vaccination schedule in rheumatology patients at the University Hospital Reina Sofía
- ◆ Lecturer in Continuing Education in Respiratory Pathology for Family and Community Medicine Residents and Tutors at the Multiprofessional Family and Community Care Teaching Unit of Córdoba

**Ms. López Luque, Sonia**

- ◆ Nurse at the San Juan de Dios Hospital in Cordoba
- ◆ Labor tutor for nursing students at the University of Extremadura and European University of Madrid
- ◆ Diploma of Nursing from the University of Cordoba
- ◆ Specialist Diplom in Nursing Services Management
- ◆ Specialist Technician in Radiodiagnosis by the Ramón y Cajal Institute of Córdoba
- ◆ Operator of X-Ray Installations for Radiodiagnostic purposes

**Dr. Barragán Vives, Vicente**

- ◆ Specialist in Preventive Medicine and Public Health at the Reina Sofía University Hospital
- ◆ Medical Graduate from the University of Seville
- ◆ Expert in data management and Quality and Patient Safety

**Dr. Ortegón Gallego, José Alejo**

- ◆ Nurse Case Manager at the Hospital Comarcal Infanta Margarita de Cabra
- ◆ Teacher at the University School of Nursing in Osuna
- ◆ Teacher of internal training related to care ethics and external with emotional management in caregivers
- ◆ Postgraduate Certificate in Nursing from the University of Cadiz
- ◆ Specialist in Mental Health from the Complutense University of Madrid
- ◆ Training in Bioethics and Anticipated Vital Wills by EASP and the Ministry of Health and CEA

# 05

# Structure and Content

The syllabus of this Professional Master's Degree has been developed by an excellent teaching staff that has poured in the latest knowledge on protocols, standards and criteria to promote the improvement of Quality and Patient Safety in Nursing. To further facilitate this update, TECH provides first class pedagogical tools: video summaries of each topic, videos in detail, readings of scientific research and clinical case studies. Complete material is , available 24 hours a day, from any electronic device with internet connection.



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*Delve whenever you want into the current Patient Care Quality Management Systems and all from your digital device with internet connection"*

## Module 1. Healthcare Quality Management Systems in Healthcare Institutions

- 1.1. Quality of Care Methodology for Quality Management
  - 1.1.1. Quality of Care
  - 1.1.2. Quality Dimensions
  - 1.1.3. Methodology for Quality Management
- 1.2. Quality Management Systems
  - 1.2.1. Components of Quality Management System
  - 1.2.2. Quality Costs
  - 1.2.3. Reference models in Quality and Excellence
  - 1.2.4. Quality Management in Healthcare Institutions
- 1.3. Quality Control Excellence as a Quality Model
  - 1.3.1. Quality Control Audit
  - 1.3.2. Evaluation cycle. Quality Components
  - 1.3.3. Continuous Quality Improvement
  - 1.3.4. Excellence as a Quality Model
    - 1.3.4.1. The Principle of Excellence
- 1.4. Quality Assessment and Improvement Method
  - 1.4.1. Quality Components
  - 1.4.2. Evolution of Quality Management Systems
    - 1.4.2.1. Quality Control
    - 1.4.2.2. Quality Assurance
    - 1.4.2.3. Total Quality (Excellence) and Continuous Improvement
- 1.5. Processes for the improvement of Health Care
  - 1.5.1. Process Management
  - 1.5.2. Design of Assistance Processes
  - 1.5.3. Quality Standards
    - 1.5.3.1. Evaluation of the Assistance Processes
- 1.6. Strategies for Improving Effectiveness and Applying Evidence in Clinical Practice
  - 1.6.1. Clinical Practice Guideline. Evidence-Based Tools
  - 1.6.2. Good clinical practice: Standards, Monitoring
  - 1.6.3. Assessment of Results to Clinical Practice
- 1.7. Planning a Continuous Improvement Plan
  - 1.7.1. The PDCA cycle
  - 1.7.2. Planning, Implementation
  - 1.7.3. Checking and Performance

- 1.8. External Evaluation and Accreditation Models
  - 1.8.1. External Evaluation in Quality Management
  - 1.8.2. Accreditation Models
  - 1.8.3. Accreditation in the healthcare field
- 1.9. Leadership and People Management for Quality Improvement
  - 1.9.1. Leadership and Talent Management in Healthcare Organizations
  - 1.9.2. Principles of Motivation in Professionals in Healthcare Organizations
  - 1.9.3. Effective People Management Tools for Quality Improvement
- 1.10. Assessment of the Quality of Care and Management within the hospital
  - 1.10.1. Quality management within the hospital environment
  - 1.10.2. Structure, process and results in the evaluation of quality management in hospitals
  - 1.10.3. Models and standards of excellence in Quality Management in the hospital environment

## Module 2. Clinical Risk Management

- 2.1. Incident reporting systems
  - 2.1.1. Patient Safety Security Culture
  - 2.1.2. The Incident reporting systems
    - 2.1.2.1. Adverse Event. Sentinel Event
  - 2.1.3. Safe clinical practices in the hospitalized patient
    - 2.1.3.1. Correct patient identification
- 2.2. Infection control. Healthcare-associated infections (HAI) as an adverse event
  - 2.2.1. Epidemiological situation of IRAS
  - 2.2.2. IRAS Classification
  - 2.2.3. Multidrug-resistant microorganisms and their relationship with IRAS
- 2.3. Safety planning for critically ill patients
  - 2.3.1. Risk factors for adverse events in ICU
  - 2.3.2. Performance in adverse events in critically ill patients
  - 2.3.3. Corrective Actions. Security Culture
- 2.4. Patient Safety in Social-Health Centers
  - 2.4.1. Problems of Patient Safety in Social-Health Centers
  - 2.4.2. Environmental biosafety in Social-Health Centers
  - 2.4.3. Improving patient safety in health care facilities



- 2.5. Patient Safety in Primary Care
  - 2.5.1. Adverse effects at patient discharge
  - 2.5.2. Medication reconciliation at discharge
  - 2.5.3. Check-list in minor ambulatory surgery
- 2.6. Clinical safety in Mental Health
  - 2.6.1. Mental health safety incidents
  - 2.6.2. Safe clinical practices
    - 2.6.2.1. Medication, outpatient and inpatient care
  - 2.6.3. User participation in patient safety
- 2.7. Healthcare-associated infections. Universal measures in the prevention of infection
  - 2.7.1. Standard Precautions
  - 2.7.2. Specific precautions based on transmission
  - 2.7.3. Importance of hand hygiene in the hospital environment
- 2.8. Primary prevention of infections. Vaccines and prophylaxis
  - 2.8.1. Vaccinating the healthy adult
  - 2.8.2. Vaccination of risk groups
  - 2.8.3. Vaccination and post-exposure prophylaxis in health care personnel
- 2.9. Clinical risk management during the COVID pandemic
  - 2.9.1. Legal Framework for Pandemic International approach
    - 2.9.1.1. The International Health Regulations Emergency Committee (IHR 2005)
    - 2.9.1.2. Public Emergency of International Importance (PHEI)
  - 2.9.2. Training and information for patients and professionals
  - 2.9.3. Circuits and Personal Protective Equipment
- 2.10. Evaluation of Satisfaction in Health: A Challenge to Quality
  - 2.10.1. The Patient Experience
  - 2.10.2. Measuring the Experience
  - 2.10.3. Implementation and benefits

### Module 3. Quality of Care and Ethics in Healthcare Institutions

- 3.1. Ethics and Bioethics. Principles
  - 3.1.1. Principles of Bioethics
  - 3.1.2. Fundamentals and Methodology in Bioethics
  - 3.1.3. Deliberative method
- 3.2. Ethics of healthcare organizations
  - 3.2.1. Main lines of the ethics of healthcare organizations
  - 3.2.2. Bioethics Committees
  - 3.2.3. Figure of the bioethics consultant
- 3.3. Confidentiality and privacy
  - 3.3.1. Right to confidentiality of information and health data
  - 3.3.2. The right to respect your physical privacy and to be treated with dignity
  - 3.3.3. The Patient's Right to Clinical Information
  - 3.3.4. Conflicts from Interests
- 3.4. Ethics of clinical decisions
  - 3.4.1. Informed Consent
  - 3.4.2. Informed consent by proxy
  - 3.4.3. Capacity and competence
- 3.5. Ethics of health care decisions at the beginning of life
  - 3.5.1. Preimplantation genetic diagnosis
  - 3.5.2. Ethical principles in abortion
  - 3.5.3. Limitation of Therapeutic Effort in the Neonatology
- 3.6. Ethics of health care decisions at the end of life
  - 3.6.1. Death
  - 3.6.2. Decisions at the end of life. The Ethical Principle of Autonomy
  - 3.6.3. Advance planning of decisions
  - 3.6.4. Living wills as a support document for end-of-life decisions
- 3.7. Adequacy of the therapeutic effort and refusal of treatment
  - 3.7.1. Ethical decision making at the end of life
  - 3.7.2. Adequacy of life-sustaining therapies
  - 3.7.3. Refusal of treatment
  - 3.7.4. Decision making in the minor patient

- 3.8. Ethics and research
  - 3.8.1. Ethics and research Relevant documents
  - 3.8.2. Ethical evaluation of health research
  - 3.8.3. Operation of Research Ethics Committees
- 3.9. Value of palliative care
  - 3.9.1. Palliative Care
  - 3.9.2. Objectives of palliative care
  - 3.9.3. Aims of palliative medicine
- 3.10. Ethics and Transplantation
  - 3.10.1. Ethics in the process of organ donation and transplantation
  - 3.10.2. Ethical considerations in living-donor transplantation
  - 3.10.3. Transplantation in controlled asystole. Ethical analysis

#### Module 4. Health Technology Assessment

- 4.1. Evaluation of Health Technologies based on Artificial Intelligence. Current Situation and Future Prospects
  - 4.1.1. Evaluation of health algorithms using a health technology assessment methodology
  - 4.1.2. Democratization of health data for clinical research
  - 4.1.3. International comparison of the current status
- 4.2. Evaluation of Safety, Efficacy and Clinical Effectiveness. GRADE Methodology
  - 4.2.1. Posing the clinical question
    - 4.2.1.1. Classification of the events or outcomes of interest
  - 4.2.2. Identification of the available scientific literature and evaluation of its quality
  - 4.2.3. Factors influencing the quality of the evidence
    - 4.2.3.1. Summary of evaluation results
  - 4.2.4. Development of the recommendation: Direction and strength
    - 4.2.4.1. Risk-benefit balance, resources-cost and other aspects
- 4.3. Evaluation of Diagnostic Tests
  - 4.3.1. Patients' opinion on their safety
  - 4.3.2. Areas of patient involvement
  - 4.3.3. Global Alliance for Patient Safety
    - 4.3.3.1. Patient associations in defense of patient safety at the international level





- 4.4. Economic Evaluation of Health Technologies
  - 4.4.1. Types of health costs
  - 4.4.2. Models in Economic Evaluation
  - 4.4.3. Types of studies in Economic Evaluation
- 4.5. Good Clinical Laboratory Practices
  - 4.5.1. Safety in Microbiology and Clinical Analysis
  - 4.5.2. Safe use of ionizing radiation
  - 4.5.3. Safety in Pathological Anatomy
- 4.6. Practical Experience in a Health Service
  - 4.6.1. Global and integrated care of the hospitalized patient
  - 4.6.2. Treatment of medical pathology based on scientific evidence
  - 4.6.3. Multidisciplinary management of the hospitalized patient
- 4.7. Automation of care tasks. Efficiency in routine work
  - 4.7.1. The Automation of Assistance Tasks
  - 4.7.2. International panorama of organizations or entities in charge of health technology assessment
  - 4.7.3. Agencies for the Evaluation of Health Technologies and Services of the National Health Systems
- 4.8. Impact of new technologies on Patient Safety and Quality of Care and their relationship with Health Outcomes
  - 4.8.1. ICTS. Risks or Benefits
  - 4.8.2. Detection of Errors with New Technologies
  - 4.8.3. Health outcomes
- 4.9. The Electronic Health Record in Patient Safety and Quality of Care
  - 4.9.1. Use of the electronic medical record for patient safety 2.9.2
  - 4.9.2. Use of *Machine Learning* to improve patient safety
  - 4.9.3. Natural Language Processing to extract knowledge in patient safety
- 4.10. *Big Data* in Health and Artificial Intelligence
  - 4.10.1. Health data applied to research
  - 4.10.2. Artificial intelligence for patient safety
  - 4.10.3. Descriptive, predictive and prescriptive analytics

## Module 5: Safety of Medicines and Medical Devices. Pharmacy and Hematology

- 5.1. Safe Medication Use: Good Clinical Practice
  - 5.1.1. Bioethical Aspects
  - 5.1.2. Adverse events
  - 5.1.3. Role of the administration and the industry in error prevention
- 5.2. Medication Errors
  - 5.2.1. Terminology and classification of medication errors
  - 5.2.2. Causes of measurement errors
  - 5.2.3. Error detection methods
- 5.3. Medication reconciliation
  - 5.3.1. Stages of the reconciliation process. Admission and discharge reconciliation
  - 5.3.2. Indicators of the reconciliation process
  - 5.3.3. Recommendations for institutions and organizations
- 5.4. High-risk medications. Strategies for error prevention
  - 5.4.1. Standardization of prescribing and protocol development
  - 5.4.2. Automated alert systems
  - 5.4.3. Deprescription in polymedicated patients
  - 5.4.4. Intrinsic and extrinsic criteria
  - 5.4.5. Innovations applied to the prevention of medication errors
- 5.5. Pain Prevention
  - 5.5.1. Pain as a health problem: Epidemiology of painful processes
  - 5.5.2. Safety in pain management
  - 5.5.3. Prevention measures of painful processes
- 5.6. Transfusion Safety
  - 5.6.1. Hemovigilance System
  - 5.6.2. Optimal Use of Blood
  - 5.6.3. *Patient blood management* -(Pbm). Patient blood management
- 5.7. Safety in Biobanks
  - 5.7.1. Control measures in laboratories
  - 5.7.2. Biological Containment Levels
  - 5.7.3. Biosafety
  - 5.7.4. Transport of Samples
- 5.8. High-risk medications. Strategies for error prevention
  - 5.8.1. Drugs requiring clinical monitoring
  - 5.8.2. Pharmacokinetics
  - 5.8.3. Pharmacogenetics to avoid adverse reactions
  - 5.8.4. Drugs of similar appearance
- 5.9. Pharmacovigilance system. Errors with medical devices: adverse incidents, alerts and notifications
  - 5.9.1. Types of Pharmacovigilance
  - 5.9.2. Automated alert systems
  - 5.9.3. Types of studies applied to Pharmacovigilance and Pharmacoepidemiological studies
- 5.10. Robotic systems for the packaging and distribution of drugs
  - 5.10.1. Unit dose dosing systems
  - 5.10.2. Distribution by medicine cabinet, trolley systems and automated cabinets
  - 5.10.3. Repackaging and manufacturing of unit doses. Automated and conventional systems

## Module 6. Errors in Health Care and Adverse Events

- 6.1. The Error in Health Care. Conditioning Factors
  - 6.1.1. The Error in Health Care. Magnitudes
  - 6.1.2. Security Culture
    - 6.1.2.1. Understanding, Recognizing and Managing Adverse Events
  - 6.1.3. Incident Notification and Management
- 6.2. Identification of Critical Points in an Organization. Health Care Processes
  - 6.2.1. Situation analysis on the identification of Critical Risk Points
  - 6.2.2. Approach and Prevention Strategies
  - 6.2.3. Critical Risk Point Communication Plan
- 6.3. Risk Management Incidents and Adverse Events
  - 6.3.1. Models, Methods and Tools
  - 6.3.2. Notification Systems. Adverse Event Registry

- 6.3.3. Identification of Adverse Events through the Analysis of Clinical Histories
  - 6.3.3.1. Global Trigger Tool
- 6.4. Proactive Risk Management
  - 6.4.1. Risk Prevention Proactive Management Tools
  - 6.4.2. Failure Mode and Effects Analysis (FMEA)
  - 6.4.3. Application of the Methodology in a Health Care Process
- 6.5. Sentinel Event Analysis Methodology
  - 6.5.1. Root Cause Analysis
  - 6.5.2. ACR Methodology on a Sentinel Event. Application
  - 6.5.3. Attention to the 1st, 2nd and 3rd victim
- 6.6. Briefing y Debriefing. The Safety Rounds
  - 6.6.1. Briefing
  - 6.6.2. Debriefing
  - 6.6.3. The Safety Rounds
- 6.7. Unambiguous Patient Identification and Verification
  - 6.7.1. Necessity of Unambiguous Patient Identification
  - 6.7.2. Systems of Unambiguous Patient Identification
  - 6.7.3. Patient Verification Systems
- 6.8. Safe Transfer for the Patient
  - 6.8.1. Communication between Professionals
  - 6.8.2. Tools for Effective Communication
  - 6.8.3. Errors in the Transfer between Professionals
- 6.9. Elaboration of a Patient Safety Program
  - 6.9.1. Methodology for the Development of a Safety Program
  - 6.9.2. Critical Risk Point Analysis
  - 6.9.3. Evaluation of a Safety Program. Indicators
- 6.10. Implementation of a Patient Safety Program in a Clinical Unit. Monitoring and Best Practices
  - 6.10.1. Monitoring of a Patient Safety Program

- 6.10.2. Good Practices in Patient Safety
- 6.10.3. Evaluation and Improvement Proposals for a Patient Safety Program

## Module 7. Organizational Safety


- 7.1. Patient Safety in Organizations
  - 7.1.1. Fundamentals of Patient Safety
  - 7.1.2. Patient Safety Evolution Over Time
  - 7.1.3. International patient safety models
- 7.2. Patient Safety Structure in Healthcare Facilities
  - 7.2.1. Patient Safety in the Management Teams
  - 7.2.2. Patient Safety Organizational Chart in Healthcare Facilities
  - 7.2.3. Involvement of the Professionals in Patient Safety
- 7.3. Patient Safety Training for Professionals
  - 7.3.1. Patient Safety Training of the Health Care Professional
  - 7.3.2. Effective pedagogical techniques in continuing education for health professionals
  - 7.3.3. ICT tools to support Continuing Education
  - 7.3.4. New emerging trends in Continuing Education
    - 7.3.4.1. Clinical simulation in virtual environments
    - 7.3.4.2. Gamification
- 7.4. Information Security
  - 7.4.1. International legal framework for information security
  - 7.4.2. Fundamental aspects of health information security
  - 7.4.3. Security risk analysis in health information management
- 7.5. Research and innovation in patient safety
  - 7.5.1. Importance of safety in the field of research and innovation
  - 7.5.2. Ethical considerations in research
  - 7.5.3. Current status of patient safety research
- 7.6. Active Involvement of Patients and the Public in Patient Safety
  - 7.6.1. Informing patients and citizens about the safety of their health care

- 7.6.2. Actions to raise awareness and educate patients and citizens on risk prevention in the healthcare system
- 7.6.3. Resources to promote the active participation of patients in their safety
- 7.7. Environmental Safety in Healthcare Centers
  - 7.7.1. Environmental Safety in Healthcare Centers
  - 7.7.2. Monitoring and Control of Environmental Biosafety
  - 7.7.3. Prevention techniques and systems
- 7.8. Occupational Risk Prevention. Safe Work Environments
  - 7.8.1. Occupational hazards in health care workers
  - 7.8.2. Prevention measures to obtain safe working environments
    - 7.8.2.1. Emergency Planning
  - 7.8.3. Occupational stress, mobbing and burnout
- 7.9. Safety in Sanitary Installations
  - 7.9.1. Differential characteristics of facilities in healthcare facilities
  - 7.9.2. Quality controls of the facilities
  - 7.9.3. International standards on the safety of healthcare facilities
- 7.10. Cost-Efficiency Analysis of Patient Safety
  - 7.10.1. Need to quantify the cost of adverse events
  - 7.10.2. Costs related to medication errors
  - 7.10.3. Costs related to nosocomial infections
  - 7.10.4. Costs related to errors in the surgical patient

## Module 8. Patient Safety in the Surgical Block. High Risk Areas

- 8.1. ERAS Program (Enhanced Recovery After Surgery Program)
  - 8.1.1. Vision and conceptualization of the ERAS program
  - 8.1.2. ERAS Strategies
  - 8.1.3. ERAS practical application and results
- 8.2. Project Zero
  - 8.2.1. Background on the development of Zero Projects
  - 8.2.2. Types of Zero Projects
  - 8.2.3. Evolution of infections according to the results obtained in the Zero Projects
- 8.3. Environmental Biosafety in Controlled Environment Rooms
  - 8.3.1. Environmental biosafety in controlled environments. Contextualization



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- and terminology
  - 8.3.2. Classification of hospital areas
  - 8.3.3. Environmental biosafety microbiological sampling methods
  - 8.4. Safe Operating Rooms
    - 8.4.1. Intraoperative Discipline
    - 8.4.2. Situations requiring indication of mandatory microbiological control
    - 8.4.3. Operating Room Circuits in Pandemic Situations
  - 8.5. Proper Cleaning and Disinfection
    - 8.5.1. Operating Room Cleaning and Disinfection
    - 8.5.2. Surgical area spaces. Frequency of cleaning
    - 8.5.3. Cleaning and disinfection procedures in the surgical area
      - 8.5.3.1. Products and methods
  - 8.6. Application of New Decontaminant Technologies
    - 8.6.1. UV radiation
    - 8.6.2. Hydrogen peroxide
    - 8.6.3. Quarternary ammoniums
    - 8.6.4. Other decontaminants
      - 8.6.4.1. Vaporized ozone system, copper, silver
  - 8.7. Shelf life, preservation and storage of sanitary material
    - 8.7.1. Maintenance of surgical instruments
    - 8.7.2. Transport, conservation and storage of surgical instruments
    - 8.7.3. Quality control of surgical instruments
  - 8.8. Identification. Check List. Laterality Protocol
    - 8.8.1. Safety in surgery
    - 8.8.2. Surgical safety checklist (Check list)
    - 8.8.3. Laterality protocol
  - 8.9. Safe practices in Diagnostic Tests
    - 8.9.1. Diagnostic Validity and Reliability
    - 8.9.2. Safe Practices to Reduce Risks
    - 8.9.3. Risk and failure analysis. Error Investigation
  - 8.10. Safety in the sensitive surgical patient

- 8.10.1. Patients allergic to latex
- 8.10.2. Multiple chemical sensitivity (MCS)
- 8.10.3. Isolation measures in the surgical block

## Module 9. Pediatric Patient Safety

- 9.1. Pediatric Patient Safety
  - 9.1.1. Pediatric Patient Safety
  - 9.1.2. Comprehensive Safe Care
  - 9.1.3. Risk Management. Learning and Continuous Improvement
  - 9.1.4. Active Involvement of the Pediatric Patient and his family
- 9.2. Pediatric Patient and Research. Monitoring
  - 9.2.1. Peculiarities of research in the pediatric patient
  - 9.2.2. Ethical aspects in pediatric research
  - 9.2.3. Pediatric patient safety research
- 9.3. Safety in the Hospitalized Pediatric Patient
  - 9.3.1. Adverse events in the hospitalized child
  - 9.3.2. Safety strategies in the hospitalized pediatric patient
  - 9.3.3. How to report an error
- 9.4. Safety in the Pediatric Surgical Process
  - 9.4.1. Pre-surgical reception. Preoperative safety
  - 9.4.2. Postoperative safety in the pediatric surgical patient
  - 9.4.3. Prevention of postoperative infections
- 9.5. Anesthetic Safety in Pediatrics
  - 9.5.1. Pediatric Perioperative Safety
  - 9.5.2. Safe Anesthesia in Major Outpatient Surgery
  - 9.5.3. Safe Sedation outside the Operating Room
  - 9.5.4. Pediatric Locoregional Anesthesia
- 9.6. Pain Management in Pediatrics
  - 9.6.1. Importance of Pain as a constant Fifth
  - 9.6.2. Pain Assessment in Pediatrics
  - 9.6.3. Procedures to reduce pain in the pediatric patient

- 9.7. Palliative Care in Pediatrics
  - 9.7.1. Home hospitalization in the pediatric palliative care patient
  - 9.7.2. Family and caregiver involvement in pediatric palliative care patient safety
  - 9.7.3. Safe use of medications in pediatric palliative care
- 9.8. Safety in Neonatology
  - 9.8.1. Differential aspects of the neonatal period
  - 9.8.2. Main Safety Risks in the Neonatal Unit
  - 9.8.3. Safe practices in neonatology
- 9.9. Safety in Functional and Ambulatory Tests
  - 9.9.1. Patient safety and risk in the setting of assistive testing 4.10.2
  - 9.9.2. Safe practices for the prevention of adverse events
  - 9.9.3. How to deal with an error
- 9.10. Safety in Ucip
  - 9.10.1. Critical Patient Safety Indicators
  - 9.10.2. Main Causes of the Production of Adverse Events
  - 9.10.3. Safety Culture and Action in the Face of Adverse Events

## Module 10. Humanization of Healthcare

- 10.1. Humanization in Healthcare
  - 10.1.1. Humanization in Healthcare
    - 10.1.1.1. International Regulatory Framework
  - 10.1.2. Starting elements. Steps to Action
  - 10.1.3. Humanization strategic plans
- 10.2. Patient and Family Well-being and Comfort Management
  - 10.2.1. Patient experience-centered care culture
  - 10.2.2. Infrastructure, resources and technology
  - 10.2.3. Humanizing care tools
    - 10.2.3.1. Personalization of care
    - 10.2.3.2. Privacy
    - 10.2.3.3. Autonomy
    - 10.2.3.4. Shared decision making



- 10.3. Person-Centered Care Model
  - 10.3.1. Systems of Care. Evolution
  - 10.3.2. PCA model
  - 10.3.3. Professionals New roles and care teams
  - 10.3.4. Support and consensus groups
- 10.4. Tools to Humanize. Communication Empathy
  - 10.4.1. Values to humanize the healthcare environment
  - 10.4.2. Interpersonal relationships. Holistic and integral care
  - 10.4.3. Communication and Empathy
  - 10.4.4. Measuring the degree of humanization. Control systems
- 10.5. Humanization of the Intensive Care Unit
  - 10.5.1. How to Humanize an Intensive Care Unit
  - 10.5.2. Staff Care
  - 10.5.3. Patient, Family, Citizenship
  - 10.5.4. Humanization of the Architecture of the Intensive Care Unit
- 10.6. Humanized Care of the Terminally Ill
  - 10.6.1. Humanization of Health Care at the End of Life
  - 10.6.2. Care at the end of life, at home
  - 10.6.3. Palliative care in the hospital. How to humanize this care
- 10.7. Management of Professional Well-being
  - 10.7.1. Welfare of professionals
    - 10.7.1.1. Factors that alter the well-being of professionals
    - 10.7.1.2. Disorders present in the alteration of professional well-being
    - 10.7.1.3. Leader and group relationship in the work environment
    - 10.7.1.4. Techniques to improve professional well-being
    - 10.7.1.5. Tools for measuring professional well-being
- 10.8. Values-based Management Model
  - 10.8.1. Values-based Management
  - 10.8.2. Phases of the Values-based Management Implementation Process
    - 10.8.2.1. Phase I Definition of Values
    - 10.8.2.2. Phase II. Communication
    - 10.8.2.3. Phase III. Alignment
  - 10.8.3. Benefits of Management by Values
  - 10.8.4. The Pillars of Value-Based Management in Healthcare Institutions
- 10.9. Humanization in the Care of Special Patients
  - 10.9.1. International Normative Framework
  - 10.9.2. Recognition of the Personal Autonomy Principle
  - 10.9.3. Strategic lines and humanizing actions
    - 10.9.3.1. Humanized spaces
    - 10.9.3.2. Humanizing actions in consultation and emergency rooms
    - 10.9.3.3. Humanizing actions in hospital admissions
    - 10.9.3.4. Humanizing actions for accompanying and family members
  - 10.9.4. Humanization plan for professionals: Care for the Professional
  - 10.9.5. Models of Humanization Plans and Guidelines
- 10.10. Impact of Covid-19 on the Humanization of Health Care
  - 10.10.1. Impact and transformation in the organizational and care structure of the health care system
  - 10.10.2. Impact of Covid-19 on communication
  - 10.10.3. More humanized infrastructure. Main strategic lines of action



*An academic option focused on the humanization of Health Care and updated on the strategic lines implemented in various organizational structures"*

06

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



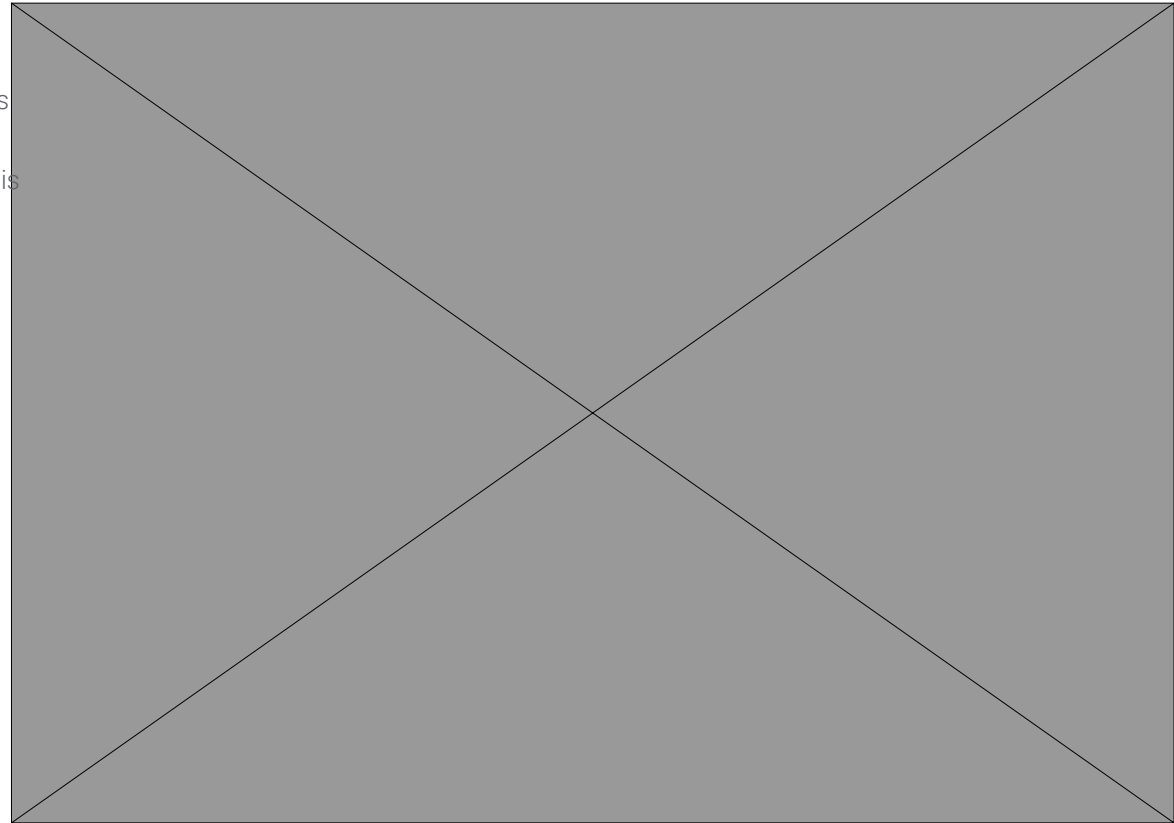
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the real conditions in professional nursing practice.



*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.



07

# Certificate

The Professional Master's Degree in Patient Quality and Safety for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Professional Master's Degree 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 program will allow you to obtain your **Professional Master's Degree diploma in Patient Quality and Safety for Nursing** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

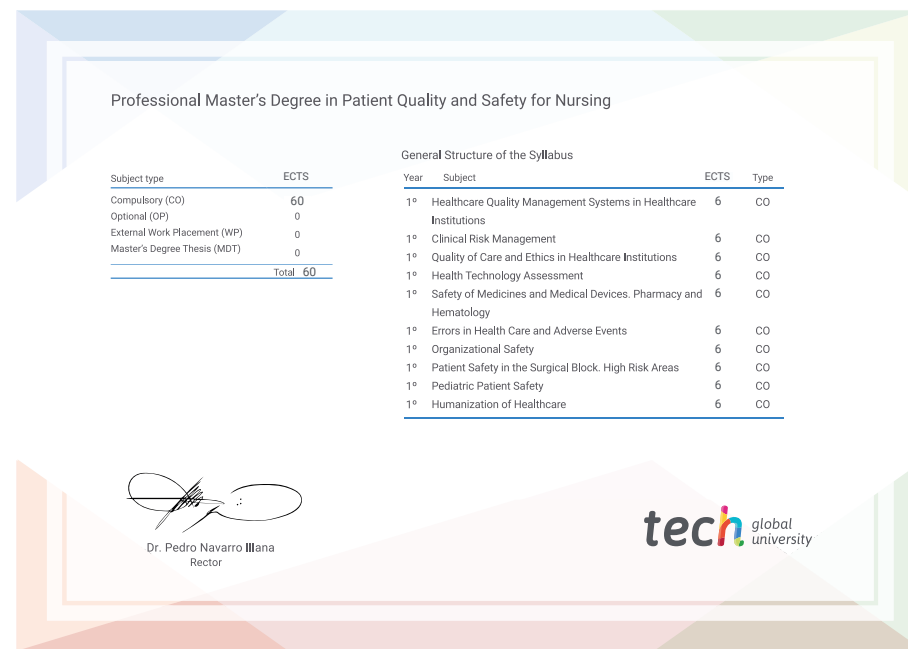
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Professional Master's Degree in Patient Quality and Safety for Nursing**

Modality: **online**

Duration: **12 months**

Accreditation: **60 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University 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 presentation  
development languages  
virtual classroom



## Professional Master's Degree Patient Quality and Safety for Nursing

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Credits: 60 ECTS
- » Schedule: at your own pace
- » Exams: online

# Professional Master's Degree

## Patient Quality and Safety for Nursing