



## Postgraduate Diploma

Hemodialysis and Other Extrarenal Purification Techniques for Nursing

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 16 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-hemodialysis-other-extrarenal-purification-techniques-nursing

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Certificate





## tech 06 | Introduction

Nursing plays a decisive role in the care of the patient with chronic kidney disease, both from its onset and in later stages. In addition to skills in renal replacement techniques such as the acquisition of specific professional competencies, specific and quality care is required at the different stages of renal disease.

The care of the nephrological patient, including renal function replacement techniques, has made significant advances in recent years, both in terms of renal transplantation and the health care of the nephrological patient, requiring specialized and continuous training for nursing. Such specialized training is rarely found in the usual curricular training, so many nurses are unaware of important aspects of caring for these patients. Training in this sense is necessary to guarantee a minimum quality of care.

This Postgraduate Diploma in Hemodialysis and Other Extrarenal Purification

Techniques for Nursing contains the most complete and up-to-date scientific program on the market. The most important features include:

- Development of clinical cases presented by experts in the different areas of multidisciplinary knowledge. The graphic, schematic, and eminently practical contents of which they are composed provide scientific and practical information on the disciplines that are essential for professional practice
- New developments in Hemodialysis and Other Extrarenal Depuration Techniques
- Algorithm-based interactive learning system for decision-making in the presented clinical situations
- With a special emphasis on evidence-based nursing and research methodologies in Hemodialysis and Other Extrarenal Purification Techniques for Nursing
- All this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



## Introduction | 07 tech



This Postgraduate Diploma may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Hemodialysis and Other Extrarenal Depuration Techniques, you will obtain a certificate from TECH Global University"

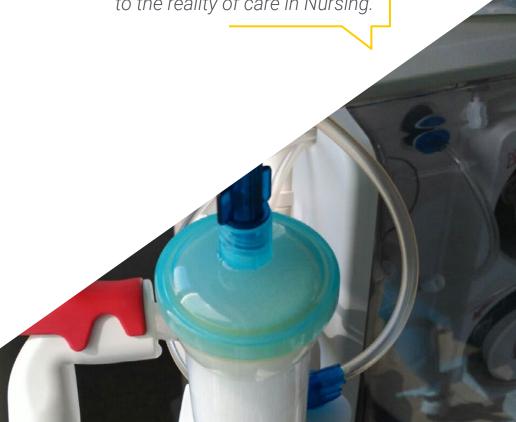
Its teaching staff includes health professionals from the fields of nursing and nephrological medicine, who contribute their work experience to this training, as well as renowned specialists belonging to leading scientific societies.

The multimedia content developed with the latest educational technology will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive training program to train in real situations.

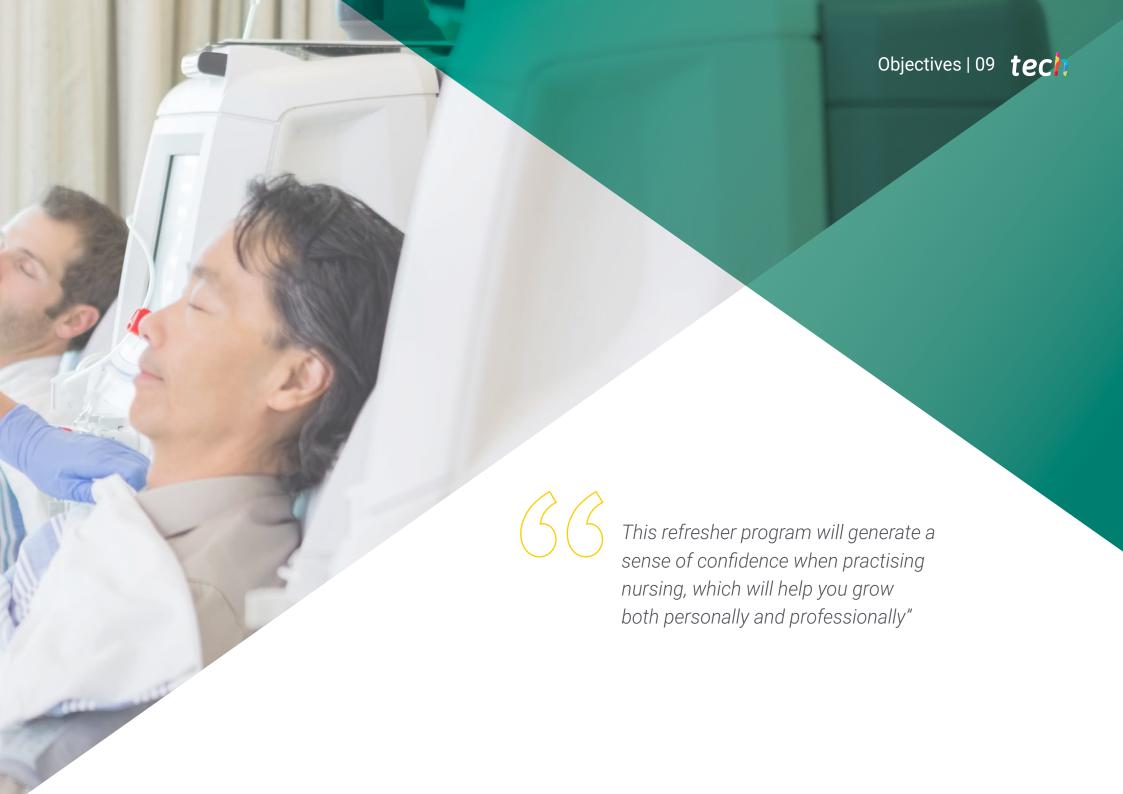
The design of this program is based on Problem Based Learning, by means of which the nursing professional must try to solve the different professional practice situations that arise throughout the course. This will be done with the help of an innovative interactive video system developed by renowned experts in the field of nephrology with extensive teaching experience.

The Postgraduate Diploma allows training in simulated environments, which provide immersive learning programmed to train for real situations.

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







## tech 10 | Objectives



### **General Objectives**

- Revise the most common procedures, techniques and care methods in routine clinical practice when dealing with patients with chronic kidney disease
- Optimize the quality and care of dialysis patients by providing more highly qualified healthcare professionals
- Develop knowledge and skills for the comprehensive approach and management of dialysis patients



#### **Specific Objectives**

- Acquire basic knowledge on the fundamental aspects of diagnosis, etiology, pathophysiology and prevention of kidney disease
- Identify the risk factors of kidney disease and its different stages
- Identify signs and symptoms that indicate pathology of renal origin
- Gain up-to-date knowledge of the different examination methods in Nephrology
- Broaden knowledge in the promotion of self-care
- Acquire knowledge of how to deal with a renal patient in the emergency department
- Know how renal insufficiency affects the different stages of the drugs administered
- Develop the nursing professionals' skills and knowledge for the comprehensive approach and treatment of the patient in a hemodialysis program
- Provide the essential foundations and the latest theoretical and practical advances
  to all professionals who need it, who decide to start learning about hemodialysis, or
  who are already in this field and want to update their knowledge







- Gain up-to-date knowledge of the quality and efficiency of the new hemodialysis technologies
- Describe the importance of education in the treatment of this illness and in the selfcare associated with it
- Acquire knowledge of the different techniques of extrarenal depuration
- Know the different parameters of efficacy, dosage and water balance of treatment in each technique
- Gain up-to-date knowledge of the care required by the patient in a hemodialysis program
- Gain up-to-date knowledge which allows the student to distinguish between the different types of vascular access and know the way to manage and care for each one of them
- Gain up-to-date knowledge of the strategies for patients at high risk of bleeding
- Describe the different types of coagulation in a hemodialysis session as well the latest developments for the control and care of chronic renal patients
- Gain up-to-date knowledge of the advances in the different hospital-based renal replacement therapy techniques
- Acquire knowledge of how to properly manage different extrarenal pediatric techniques
- Know the general nursing care required the the different extrarenal depuration techniques





## tech 14 | Course Management

#### Management



#### Mrs. Molina Fuillerat, Ruth

- Diploma in Nursing from the University of Cadiz, with a extensive experience working in Nephrology Services. Dialysis (Doctor Negrín Hospital (Las Palmas de Gran Canaria), Torrecárdenas Hospital (Almería) y Virgen de las Nieves Hospital y Clínico San Cecilio Hospital, (Granada). Currently wokring in the hemodialysis unit at Campus de la Salud Hospital (Granada) Co-author of the health application Dialysis 24h
  - 1st prize Hinnovar de Novartis, 2014 edition, Hospital Management Category
  - Accésit Professor Barea Award 2015 "Effect of a support tool on adherence to treatment, anxiety and quality of life of dialysis patients"
- Award for the isysCore Foundation, naming Dialysis 24h as the second best app in Spain
- Bandera de Andalucía 2015 for the commitment, dedication and devotion as a nurse in the Dialysis 24h app
- Albert Jovell Award 2016 Accésit to Diálisis 24h app for "Best initiative that improves patient health outcomes, developed by healthcare professionals, individually or as a team"

#### **Professors**

#### Mr. Aguilar Amores, Manuel Salvador

- Diploma in Nursing
- Degree in Social and Cultural Anthropology
- Specialist in Dialysis Product Applications and responsible for the training of healthcare personnel in the handling of hospital dialysis machines, therapeutic systems, convective techniques and home hemodialysis at Fresenius Medical Care España S.L.

#### Mr. Arenas Bonilla, Manuel Fernando

- Diploma in Nursing
- Nurse in Hemodialysis Services
- Torrecárdenas Hospital. Almeria, Spain

#### Dr. Bravo Bazán, Marina

- Diploma in Nursing
- Nurse of the Nephrology CMU, Hemodialysis Service
- Virgen de Las Nieves Hospital Granada, Spain



#### Dr. Cruz Gómez, Sandra

- Diploma in Nursing
- Surgical Nurse
- Santa Ana Motril Hospital Granada, Spain

#### Dr. Fraile Bravo, Mercedes

- Diploma in Nursing
- Degree in Social and Cultural Anthropology
- PhD in Nursing
- Associate Professor at University of Extremadura
- Care Coordinator
- Extremadura Health Service

#### Dr. Frasquet Morant, Julia

- Diploma in Nursing
- Nurse in the Palliative Care Unit
- Dr Negrín University Hospital Las Palmas de Gran Canaria, Spain

#### Dr. Gómez Reina, Encarnación

- Degree in Psychology
- Specialist in Clinical Psychology
- Palliative Care Unit
- Tomillar Hospital Sevilla, España

#### Dr. González Lobo, María Ángeles

- Diploma in Nursing
- Specialist Nurse in Surgery and Dialysis
- Member of the Organ Transplant and Kidney Implant Team in Granada
- Virgen de Las Nieves Hospital Granada, Spain

## tech 16 | Course Management

#### Mr. Guisado Oliva, José

- Diploma in Nursing
- Hemodialysis Unit Nephrology CMU
- Campus de la Salud Hospital Granada, Spain

#### Dr. Gutiérrez Vilchez, Elena

- Degree in Medicine and Surgery
- Specialist in Nephrology
- Head of Pediatric Hemodialysis Department
- Carlos Haya Hospital Malaga, Spain

#### Dr. Laguna Fernández, Clara

- Diploma in Nursing
- Carlos Haya Hospital Malaga, Spain

#### Dr. López-González Gila, Juan de Dios

- Degree in Medicine and Surgery
- Nephrology Resident
- Virgen de Las Nieves Hospital Granada, Spain

#### Dr. Mata Ortega, Olga

- Diploma in Nursing
- Virgen de Las Nieves Hospital Granada, Spain
- Regional Manager of Hemodynamic Monitoring and Product Launch, Vygon

#### Dr. Morales García, Ana Isabel

- Degree in Medicine and Surgery
- Specialist in Nephrology
- Virgen de Las Nieves University Hospital Granada, Spain

#### Dr. Muñoz Becerra, Mercedes

- Diploma in Nursing
- Nurse and Care Coordinator of Hemodialysis Service
- Campus de la Salud Hospital Granada, Spain

#### Dr. Nieto Poyatos, Rosa María

- Diploma in Nursing
- Hemodialysis Unit Nephrology CMU
- Campus de la Salud Hospital Granada, Spain

#### Dr. Palomares Bayo, Magdalena

- Degree in Medicine and Surgery
- Specialist in Nephrology
- Head of the Hemodialysis Unit
- Campus de la Salud Hospital Granada, Spain



## Course Management | 17 tech

#### Mrs. Pérez Jiménez, María Teresa

- Diploma in Nursing
- Nurse in the Child and Adolescent Psychiatric Unit
- Son Espases University Hospital Mallorca, Spain
- Rebollo Rubi, Ana
- Diploma in Nursing
- Nurse in Carlos Haya Hospital Malaga, Spain

#### Dr. Sánchez García, Belén

- Diploma in Nursing
- Nurse in Carlos Haya Hospital Malaga, Spain

#### Dr. Torres Colomera, Inmaculada

- Diploma in Nursing
- Nurse of the Nephrology CMU, Hemodialysis Service
- Head of Nursing in Peritoneal Dialysis Unit
- Torrecárdenas Hospital. Almeria, Spain





### tech 20 | Structure and Content

#### Module 1. Advanced in Kidney Disease

- 1.1. Latest Information on Kidney Disease
  - 1.1.1. Kidney Structure and Function
  - 1.1.2. Uremic Toxins
  - 1.1.3. Hydroelectrolyte Balance and Acid-Base Balance
  - 1.1.4. Hydration Disorders
  - 1.1.5. Acid-base Balance Disorders: Acidosis, Alkalosis
  - 1.1.6. Potassium Disorders: Hyperkalemia, Hypokalemia
  - 1.1.7. Conceptual Basis of Renal Pathology
  - 1.1.8. General Apects in Nursing Care of Patients with Renal Pathology
- 1.2. Prevention of Kidney Failure Advancing
  - 1.2.1. Definition and Risk Factors of CKD
  - 1.2.2. Evaluation, Diagnosis and Stratification
  - 1.2.3. Diagnosis and Management of Proteinuria
  - 1.2.4. Hygiene and Medication Management of Hypertensive Patients
  - 1.2.5. Strategies to Promote Self-Care
  - 1.2.6. Comorbility Management
  - 1.2.7. Prevention and Progression of CKD in a Diabetic Patient
- 1.3. Renal Pathologies
  - 1.3.1. Urinary Function Disorders: Proteinuria, Hematuria, Azoemia, Oliguria
  - 1.3.2. Nephritis
  - 1.3.3. Nephrotic Syndrome
  - 1.3.4. Urinary Infection
  - 1.3.5. Nephrolithiasis
  - 1.3.6. Hemolytic Uremic Syndrome and Thrombocytic Thrombocytopenic Purpura
  - 1.3.7. Primary Glomerulonephritis
  - 1.3.8. Nephropathies of Systemic Diseases
  - 1.3.9. Interstitial and Toxic Nephropathies
  - 1.3.10. Renal Vasculopathies
  - 1.3.11. Congenital and Hereditary Diseases

- 1.3.12. Arterial Hypertension and Organ Repercussions
- 1.3.13. Diabetes and the Kidneys
- 1.3.14. Pregnancy and the Kidneys
- 1.3.15. Polycystic Kidney Disease
- 1.3.16. Types of Kidney Failure and the Associated Complications
- 1.3.17. General Apects in Nursing Care of Patients with Renal Pathology
- 1.4. Methods of Examination in Nephrology
  - 1.4.1. Semiology and Physical Examination
  - 1.4.2. Inspection
  - 1.4.3. Palpation
  - 1.4.4. Auscultation
  - 1.4.5. Imaging Techniques
  - 1.4.6. Intravenous Urography
  - 1.4.7. Renal Arteriography
  - 1.4.8. Ultrasound
  - 1.4.9. Gammagraphy
  - 1.4.10. Urine Study
  - 1.4.11. Urinary Sediment Analysis
  - 1.4.12. Evaluation of Renal Function: Urea, Creatinine and Clearance
  - 1.4.13. Osmolality and Functional Tests
  - 1.4.14. Renal Biopsy
  - 1.4.15. Protocol and Technique Procedure
  - 1.4.16. Renal Patient Management in Emergencies
- 1.5. Pharmacokinetics in Kidney Failure
  - 1.5.1. Absorption
  - 1.5.2. Distribution
  - 1.5.3. Metabolism
  - 1.5.4. Elimination
  - 1.5.5. Dosage Adjustment



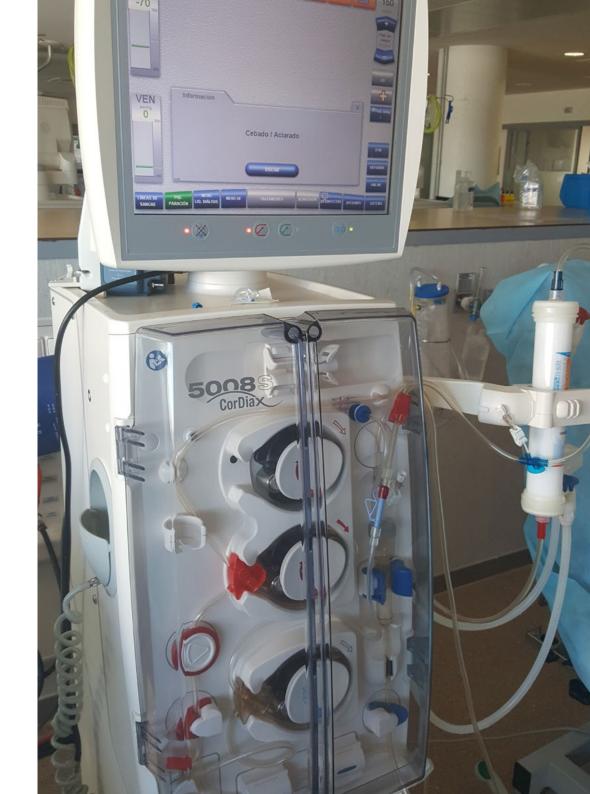
## Structure and Content | 21 tech

#### Module 2. Renal Function Replacement Therapy: Hemodialysis

- 2.1. Hemodialysis
  - 2.1.1. History and Current Status
  - 2.1.2. Evolution
- 2.2. The Physiology of Hemodialysis
  - 2.2.1. Diffusion
  - 2.2.2. UF
  - 2.2.3. Convection
  - 2.2.4. Convention
  - 2.2.5. Urea Kinetics
- 2.3. Dialysis Liquids
  - 2.3.1. Introduction
  - 2.3.2. Water Treatment
  - 2.3.3. Methods of Water Treatment
  - 2.3.4. Quality Control of Water
  - 2.3.5. The Water Treatment Plant, Types and Characteristics, Controls, Problems
- 2.4. Dialyzers
  - 2.4.1. Definition, Characteristics, Formats
  - 2.4.2. Types of Membranes
  - 2.4.3. Factors to Consider when Choosing a Dialyzer. Ideal Dialyzer
- 2.5. Indications of Hemodialysis
  - 2.5.1. Dialysis Dosis: Purification of Small, Medium and Large Molecules
  - 2.5.2. Preservation of Residual Renal Function
- 2.6. Dialysis Monitors
  - 2.6.1. Main Characteristics and Differences Between Different Types
  - 2.6.2. Preparation and Verification of the Material Needed
  - 2.6.3. Session Planning According to the Prescription: Composition and Temperature of Dialysis Liquids (DL)
    - 2.6.3.1. Sterility Conditions
    - 2.6.3.2. Adjustment of Connections of the Extracorporeal Circuit
    - 2.6.3.3. Ending the Session
  - 2.6.4. Monitor Management: Setting up, Priming, Connecting, Disconnecting and Disinfecting the Monitors

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2.7.	Quality	/ Efficacy of t	he Depuration Techniques			
	2.7.1.	Dialysis Dose KT or KT/V in Each Technique				
	2.7.2.	Water Balance				
		2.7.2.1.	Dry Weight			
		2.7.2.2.	Euvolemic Weight			
		2.7.2.3.	Bioimpedance Applications			
2.8.	High-flow Hemodialysis and Convective Techniques					
	2.8.1.	Definition				
	2.8.2.	Types				
	2.8.3.	Equipment N	Management			
	2.8.4.	Benefits of H	High-flow Hemodialysis and Convective Techniques			
2.9.	Anticoagulation in HD: Latest Information					
	2.9.1.	The Clot. Coagulation Cascade				
	2.9.2.	Factors which Promote Clotting in HD				
	2.9.3.	Use of Anticoagulation in HD				
		2.9.3.1.	Measurement and Monitoring of Anticoagulation			
	2.9.4.	Anticoagulation with Heparin				
		2.9.4.1.	Unfractionated Heparin (UFH)			
		2.9.4.2.	Heparinization Types			
		2.9.4.3.	Low Molecular Weight Heparin (LMWH)			
		2.9.4.4.	Secondary Effects of Heparin			
		2.9.4.5.	UFH or LMWH?			
	2.9.5.	Influence of the Membrane and the HD Technique on Anticoagulation				
	2.9.6.	Strategies for Patients with High Risk of Bleeding				
		2.9.6.1.	HD without Heparin			
		2.9.6.2.	HD low dose of Heparin			
		2.9.6.3.	Regional Heparinization with Citrate			
		2.9.6.4.	Heparinization with Heparin and Protamine			
		2.9.6.5.	Citrate in the Dialysis Fluid			
		2.9.6.6.	Regional Anticoagulation with Prostacyclin			
		2.9.6.7.	Mesilato Nafomast			
	2.9.7.	Other Methods of Clotting				
	2.9.8.	Antiaggregation and Anticoagulation in HD Patients				



2.10.	Organis	Organisation of a Dialysis Unit 2.11.2.			Catheters		
	2.10.1.	General Obje	ective			2.11.2.1.	Тур
	2.10.2.	Structure of	the Unit			2.11.2.2.	Sui
	2.10.3.	Dialysis Roc	om			2.11.2.3.	Ca
	2.10.4.	Organisation	n			2.11.2.4.	Tre
	2.10.5.	Patients				2.11.2.5.	Ca
	2.10.6.	Nursing Sta	ff 2	2.12.	General	l Care Proced	dures
	2.10.7.	Procedures:			2.12.1.	Monitoring	of the
		2.10.7.1.	Preventative Medicine Controls			2.12.1.1.	Me
		2.10.7.2.	Patient Documentation			2.12.1.2.	Nu
		2.10.7.3.	Analytical Controls			2.12.1.3.	Nu
		2.10.7.4.	Nursing Protocol for the Welcoming Patients with CKD			Sessions	
		2.10.7.5.	Welcome Guide for Nursing Professionals in HD		2.12.2.	Physical Co	ompli
		2.10.7.6.	Latest Protocols Needed During the HD Session			2.12.2.1.	Ну
2.11.	Latest I	nformation o	n Vascular Accesses fro HD			2.12.2.2.	Blo
	2.11.1.	Fistulas				2.12.2.3.	Cra
		2.11.1.1.	Native and Prosthetic Arteriovenous Fistulas. Most Common			2.12.2.4.	Air
		Locations				2.12.2.5.	Ну
		2.11.1.2.	Pre-Surgery Assessment			Treatment.	-
		2.11.1.3.	Surgical management			2.12.2.6.	Ну
		2.11.1.4.	Nursing Care Postoperative Controls			2.12.2.7.	Na
		2.11.1.5.	Nursing Care to Improve Fistula Development and Survival (FAVI)			2.12.2.8.	Blo
		2.11.1.6.	Home Self-Care of Arteriovenous Fistula			2.12.2.9.	Cra
		2.11.1.7.	Home Care of an Extravasation of the Arteriovenous Fistula			2.12.2.10.	Air
		2.11.1.8.	Measures to Follow in Case of Hemorrhage			2.12.2.11.	Alle
		2.11.1.9.	Puncture of the AVF. General Rules for Punctures			2.12.2.12.	He
		2.11.1.10.	Pain in Punctures. Puncture Techniques. Special Considerations in			2.12.2.13.	Pre
			e of Prosthetic AVF			2.12.2.14.	Sei
		2.11.1.11. Technique	Puncture techniques: Unipuncture or Bipuncture. Butonhole			2.12.2.15.	He
		2.11.1.12.	Self-Guided Vascular Cannulation (Peripheral and Central)				
		2.11.1.13.	Contol of Blood Recirculation in an Arteriovenous Fistula				
		2.11.1.14.	Complications and Treatment				
		← . I I . I . I T .	Complications and Heatificht				

۷.۱۱.۷.	Catheters				
	2.11.2.1.	Types			
	2.11.2.2.	Surgical Technique			
	2.11.2.3.	Catheter Infections			
	2.11.2.4.	Treatment			
	2.11.2.5.	Catheter Care and Complications			
General	Care Procedu	ures During the HD Session			
2.12.1.	Monitoring o	of the Patient During the Sessions			
	2.12.1.1.	Medication in the Hemodialysis Session			
	2.12.1.2.	Nursing Records and Charts			
	2.12.1.3. Sessions	Nurse's Actions in the Face of Acute Complications in Hemodialys			
2.12.2.	Physical Complications				
	2.12.2.1.	Hypotension			
	2.12.2.2.	Blood Loss			
	2.12.2.3.	Cramps			
	2.12.2.4.	Air Embolism			
		Hypotension. Causes. Evaluation Methods. Short and Long-Term Pry Weight and Ideal Weight			
	2.12.2.6.	Hypertension			
	2.12.2.7.	Nausea and Vomiting			
	2.12.2.8.	Blood Loss			
	2.12.2.9.	Cramps			
	2.12.2.10.	Air Embolism			
	2.12.2.11.	Allergic Reaction to Drugs and Dialysis Material			
	2.12.2.12.	Hemolysis			
	2.12.2.13.	Precordial Pain			
	2.12.2.14.	Seizuires			
	2.12.2.15.	Headaches: Most Common Causes and Treatment			

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	2.12.3.	Mechanism	S			
		2.12.3.1.	Filter Breakage			
		2.12.3.2.	Partial and/or Total Coagulation of the Circuit			
		2.12.3.3.	Blood Extravasation			
		2.12.3.4.	Needle Removal			
		2.12.3.5.	Monitor Malfunction			
	2.12.4.	Chronic Complications of HD				
		2.12.4.1.	Phosphocalcium Metabolism			
		2.12.4.2.	Sexual and Reproductive Disfunction			
		2.12.4.3.	Left Ventricular Hypertrophy			
		2.12.4.4.	Uremic Pericarditis			
		2.12.4.5.	Uremic Polyneuropathy			
		2.12.4.6.	Anemia in Hemodialysis			
2.13.	Health Education for the Chronic Renal Patient					
	2.13.1.	Promotion of Healthy Lifestyle Habits				
	2.13.2.	Appropriate Nutrition				
	2.13.3.	Fluids and Ions Managament				
	2.13.4.	Quality of Life for Dialysis Patients				
2.14.	Home-b	ome-based Hemodialysis				
	2.14.1.	Definition				
	2.14.2.	Monitor Management				
	2.14.3.	Training the Patient for Home-based Hemodialysis				
2.15.	Managi	aging the Infectious Pathology in Hemodialysis				
	2.15.1.	Hepatitis C	Virus			
		2.15.1.1. CKD	Latest Information on the Treatment of Hepatitis in Patients with			
		2.15.1.2.	Hepatitis B Virus			
		2.15.1.3.	Human Immunodeficiency Virus (HIV)			





## Structure and Content | 25 tech

#### Module 3. Other Extrarenal Depuration Techniques in a Hospital Setting

- 3.1. Continuous Hemodiafiltration
  - 3.1.1. Equipment Management and Care
- 3.2. Plasmapheresis
  - 3.2.1. Equipment Management and Care
- 3.3. Techniques Combined with Adsorption
  - 3.3.1. Hemoperfusion
    - 3.3.1.1. Equipment Management and Care
  - 3.3.2. Apheresis with Resin
    - 3.3.2.1. Types
    - 3.3.2.2. Equipment Management and Care





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.

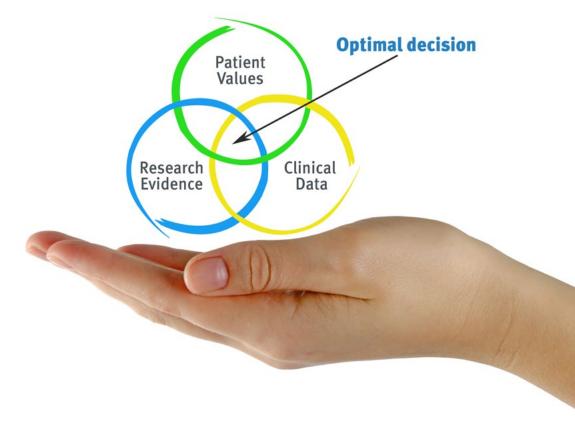




#### At TECH Nursing School we use the Case Method

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:

- 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.





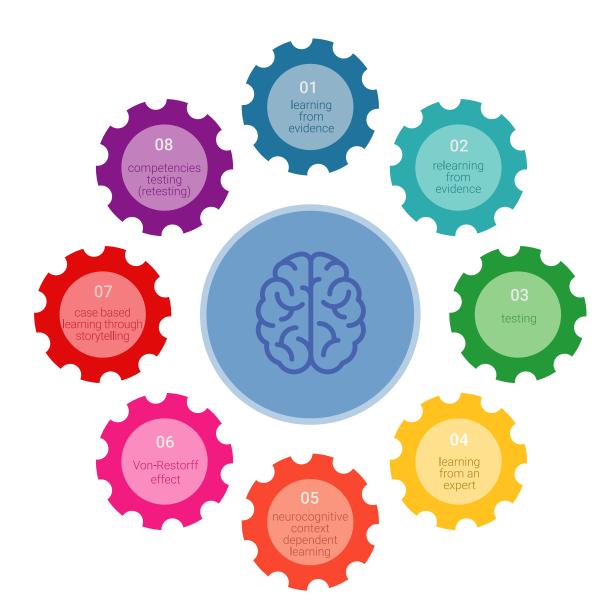
#### **Relearning Methodology**

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.



### Methodology | 31 tech

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

With this methodology 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.

## tech 32 | Methodology

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**

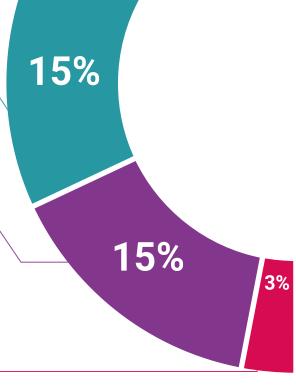
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you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



20%



#### **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



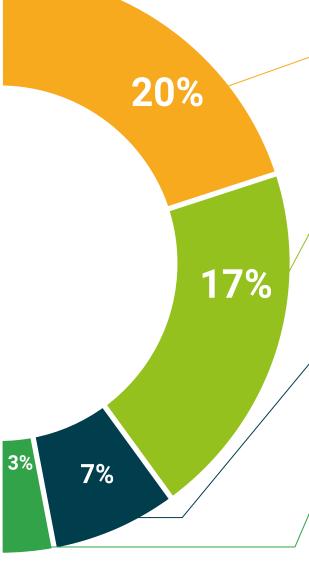
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







## tech 36 | Certificate

This private qualification will allow you to obtain a **Postgraduate Diploma in Hemodialysis and Other Extrarenal Purification Techniques 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** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in Hemodialysis and Other Extrarenal Purification Techniques for Nursing

Modality: online

Duration: 6 months

Accreditation: 16 ECTS



Mr./Ms. \_\_\_\_\_, with identification document \_\_\_\_\_\_ has successfully passed and obtained the title of:

#### Postgraduate Diploma in Hemodialysis and Other Extrarenal Purification Techniques for Nursing

This is a private qualification of 480 hours of duration equivalent to 16 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



n each country. Unique TECH Code: AFWORD23S techtitute.com/certific

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## Postgraduate Diploma

Hemodialysis and Other Extrarenal Purification Techniques for Nursing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 16 ECTS
- » Schedule: at your own pace
- » Exams: online

