

# Postgraduate Certificate

## Nutrition in Renal, Hepatic and Pancreatic Diseases





## Postgraduate Certificate Nutrition in Renal, Hepatic and Pancreatic Diseases

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/nutrition-renal-hepatic-pancreatic-diseases](http://www.techtute.com/us/medicine/postgraduate-certificate/nutrition-renal-hepatic-pancreatic-diseases)

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# 01

# Introduction

Nutritional counselling is increasingly becoming a focus of attention for people with liver, pancreatic and renal diseases especially in the latter, in which is recommended the use of anti-proteinury measure in predianalysis as a protective. Likewise, food is key as in the prevention of malnutrition in other studies. In this field, there have been recent advances that deserve an update by the medical professional who wants to be up-to-date. This way, this program is provided in 100% with a quality multimedia content that students can access at all times and from a device with access to the internet.



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*An online course, which offers the excellent opportunity to update knowledge in a simple way and with access 24 hours a day”*

This Postgraduate Certificate is aimed at medical professionals who wish to be aware of the most recent studies that affect the recommended diet in patients with chronic kidney failure, diabetes, pancreatic insufficiency or liver cirrhosis. For this purpose, it will have an expert teaching team in this field that will provide students with their extensive knowledge.

Thanks to this program, students will be able to know the recent advances in the minimum daily intake of both protein and energy, taking into account the physical characteristics of the patients, their the age, to improve their quality of life and the control of their disease. In addition, the medical professional will update his knowledge in the techniques and methods used in the present to perform a close nutritional monitoring of the affected people.

An advanced degree offered by TECH with the aim of allowing the medical professional to acquire a renewal of his knowledge with a practical and current approach. Therefore, the students will have a library of multimedia resources and content to access in its entirety from the beginning of the Diploma, 24 hours a day, without face-to-face sessions or fixed schedules. In this way, you will be able to take an elite course while balancing your professional and personal responsibilities.

This **Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in Nutrition and Endocrinology
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- 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



*Access a renewed and updated knowledge on non-alcoholic Hepatic Steatosis and its approach to nutrition”*

“

*A 100% online degree that will show the latest tools used in nutrition consultation”*

The program’s teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

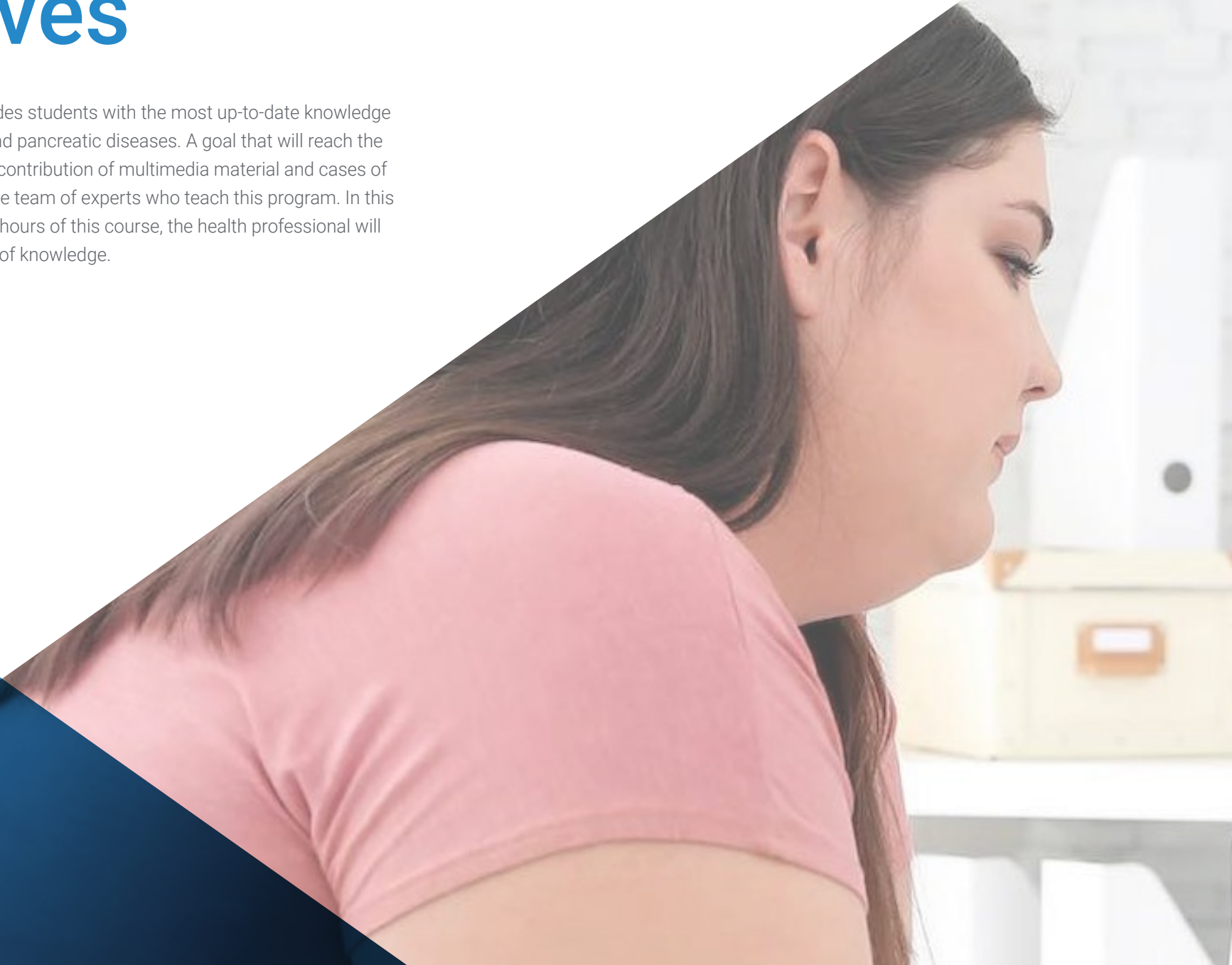
*Guided by a specialized teaching team you will be aware of the advances in the nutritional contribution for kidney transplants.*

*Update all your knowledge on the metabolic alterations produced by chronic diabetes.*



# 02 Objectives

This Postgraduate Certificate provides students with the most up-to-date knowledge regarding nutrition in kidney, liver and pancreatic diseases. A goal that will reach the medical professional thanks to the contribution of multimedia material and cases of practical simulations provided by the team of experts who teach this program. In this way, at the end of the 180 teaching hours of this course, the health professional will have achieved his goals of renewal of knowledge.







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*A program that provides the latest lines of research in diet for diseases such as Cirrhosis of the Liver and Vesicular Lithiasis”*



## General Objectives

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- Broaden knowledge and incorporate advanced and innovative knowledge in food and nutrition in the daily clinical practice of the Dietitian-Nutritionist
- Revise the fundamental aspects of healthy eating, with a current approach aimed at risk prevention
- Delve into the correct management of daily nutrition
- Examine the most common syndromes and symptoms related to nutritional problems





## Specific Objectives

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- ◆ Update knowledge of renal, hepatic and pancreatic functions and pathologies, and their relationship with nutrition
- ◆ Assess clinical cases, application tools in nutrition consultation
- ◆ Plan nutritional treatments based on scientific evidence and assessment of evolution

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*This Postgraduate Certificate will allow the professional to update their knowledge in nutritional treatments for renal diseases based in scientific evidence”*

# 03

# Course Management

The medical professional who accesses this Postgraduate Certificate has a teaching team specialized in Nutrition that practices the profession in clinical centers and hospitals of reference. Your contribution in the field of food and Endocrinology will be key for students to acquire advanced and up-to-date knowledge in this field. Also, specialized readings and video summaries of each topic will facilitate the acquisition of knowledge that will have a great application in the usual clinical practice.





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*A program where students will renew their knowledge in Nutrition by experts in Dietetics and Endocrinology”*

## Management



### Dr. Vázquez Martínez, Clotilde

- ♦ Corporate Head in the University Hospital Endocrinology and Nutrition Departments, Fundación Jiménez Díaz
- ♦ Head of the Endocrinology and Nutrition Service at Ramón y Cajal University Hospital
- ♦ Head of the Endocrinology and Nutrition Service at Severo Ochoa University Hospital
- ♦ President of The Society of Endocrinology, Nutrition, and Diabetes of the Community of Madrid SENDIMAD ()
- ♦ Coordinator Therapeutic Education Group Group of the Spanish Society of Diabetes
- ♦ Doctor of the Faculty of Medicine of the Autonomous University of Madrid
- ♦ Degree in Medicine and Surgery from the Faculty of Medicine of the University of Valencia
- ♦ Specialist in Endocrinology and Nutrition via Medical Residency by the University Hospital Fundación Jimenez Díaz
- ♦ Abraham García Almansa Clinical Nutrition Lifetime Achievement Award
- ♦ Recognized among the 100 best Doctors in Spain according to Forbes list
- ♦ Castilla - La Mancha Diabetes Foundation (FUCAMD) Diabetes and Nutrition Lifetime Achievement Award



### **Dr. Sánchez Jiménez, Álvaro**

- ◆ Specialist in Nutrition and Endocrinology at Jiménez Díaz Foundation University Hospital
- ◆ Nutritionist at Medicadiet
- ◆ Clinical Nutritionist specialized in Prevention and Treatment of Obesity, Diabetes and their Comorbidities
- ◆ Nutritionist in the Predimed Plus Study
- ◆ Nutritionist at Eroski
- ◆ Nutritionist at Axis Clinic
- ◆ Professor of the Master's Degree in Obesity and Comorbidities at the Rey Juan Carlos University
- ◆ Professor at the Course of Excellence in Obesity at the University Hospital Fundación Jimenez Díaz
- ◆ Graduate in Human Nutrition and Dietetics from the Complutense University of Madrid
- ◆ Nutrition and Food for the Elderly by the Complutense University of Madrid
- ◆ Nutrition and Sports for Professionals by the Fundación Tripartita
- ◆ Refresher Course on Practical Diabetes Type 1 and 2 for Health Professionals



### Dr. Montoya Álvarez, Teresa

- ♦ Head of the Endocrinology and Nutrition Service of the Infanta Elena University Hospital
- ♦ Head of Volunteering at the Garrigou Foundation
- ♦ Graduate in Medicine and Surgery from Universidad de Navarra
- ♦ Master's Degree in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- ♦ Course in Bariatric Antecedents of Surgery Patient Emergencies: Key References for the Attending Physician
- ♦ Member of: Institute for Health Research Foundation Jiménez Díaz, Health Commission of FEAPS Madrid and Trisomy 21 Research Society

## Professors

### Dr. Modroño Móstoles, Naiara

- ♦ Doctor Specialist in Pediatric Endocrinology and Nutrition at the University Hospital Fundación Jimenez Diaz
- ♦ Doctor Specialist in Endocrinology the Infanta Elena University Hospital
- ♦ Doctor Specialist in Endocrinology at the University Hospital of Getafe
- ♦ Author of various articles published in scientific journals
- ♦ Diploma in Treatment of Diabetes Mellitus Type 2 at the Autonomous University of Barcelona

### Dr. González Toledo, Beatriz María

- ♦ Nephrology Nurse Unit of the Fundación Jiménez Díaz Hospital
- ♦ Nurse Director of Dialysis at the Íñigo Álvarez de Toledo Renal Foundation
- ♦ Master's Degree in Hemodialysis for Nurses at the Complutense University of Madrid
- ♦ Master's Degree in Nutrition and Health at the Open University of Catalonia
- ♦ Postgraduate Diploma in Peritoneal Dialysis for Nursing at Cardenal Herrera University
- ♦ Graduate in Nursing from the Autonomous University of Madrid





**Dr. Sanz Martínez, Enrique**

- ◆ Clinical Nutritionist at the University Hospital General de Villalba and Rey Juan Carlos University Hospital
- ◆ Dietitian in the project PLUS researcher in the Health Research Institute of the Jiménez Díaz Foundation
- ◆ Researcher and collaborator in the NUTRICOVID study
- ◆ Researcher and collaborator in the cross-sectional prospective OBESTIGMA study
- ◆ Graduate in Human Nutrition and Dietetics at the Complutense University of Madrid
- ◆ Master's Degree in Clinical Nutrition at the Catholic University of San Antonio in Murcia
- ◆ Master's Degree in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos

**Dr. Manso del Real, Paula**

- ◆ Nursing Supervisor of the Dialysis Unit of the Íñigo Álvarez de Toledo Renal Foundation
- ◆ Nephrology Nurse at the Nephrology Unit of the Jiménez Díaz Foundation University Hospital
- ◆ Diploma in Nursing at the Francisco de Vitoria University
- ◆ Degree in International Cooperation and Health Promotion at the Francisco de Vitoria University
- ◆ Degree in International Cooperation and Health Promotion at the Francisco de Vitoria University
- ◆ Master's Degree in Hemodialysis for Nursing at the Complutense University of Madrid

# 04

## Structure and Content

The Relearning system, which TECH applies in all its degrees, allows students to reduce the hours of study, which in other teaching methods becomes more tedious. This will allow the medical professional to renew their knowledge of this syllabus in a faster and more enjoyable way, thanks also to the educational material used. Therefore throughout this Postgraduate Certificate the students will update their knowledge in dietary guidelines for patients with kidney, liver and pancreatic diseases in a simpler way and according to the current academic vanguard.

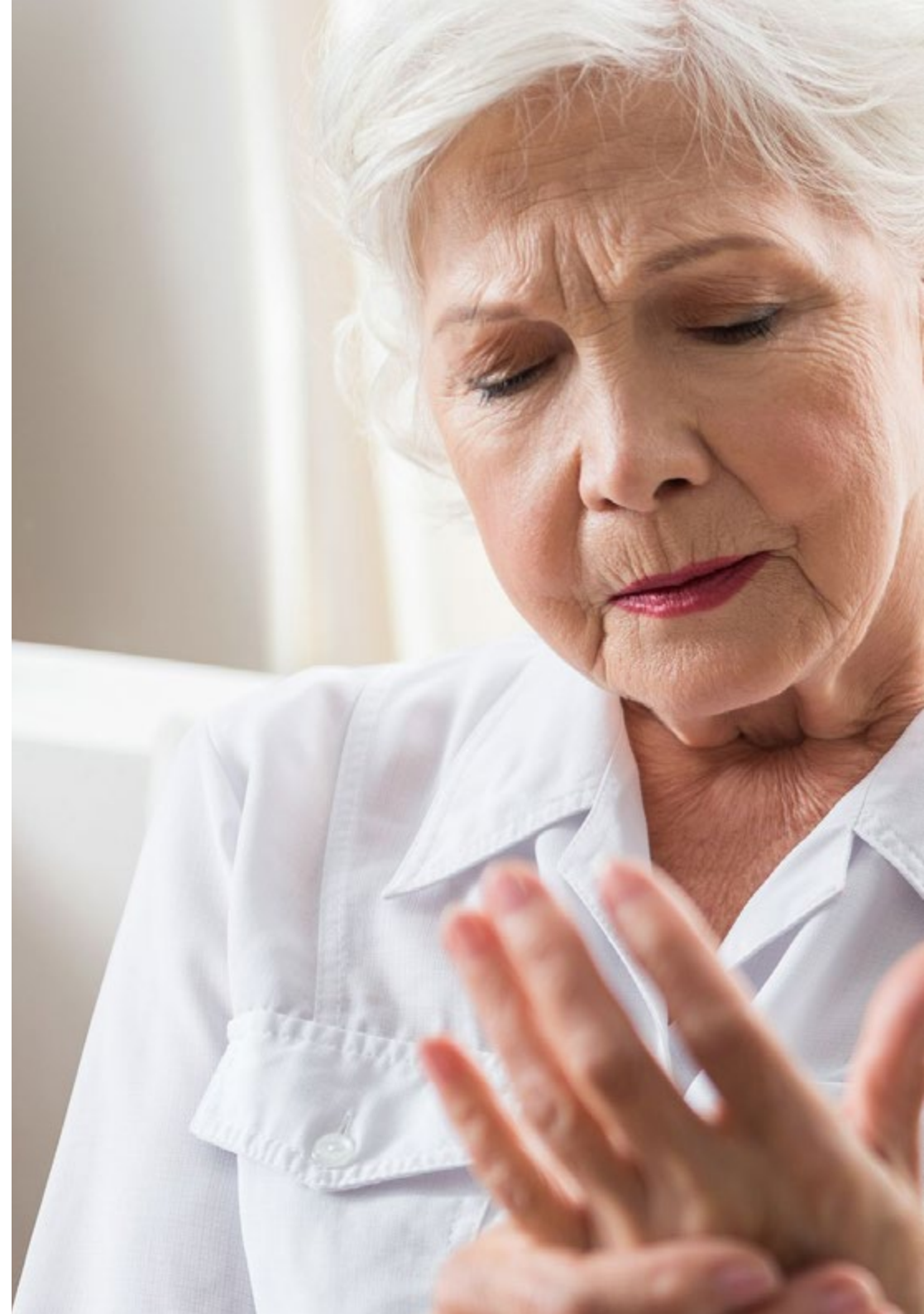


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*A curriculum in which the medical professional will be able to deepen studies that delve into diet in people with pancreatic insufficiency”*

## Module 1. Nutrition in Renal, Hepatic and Pancreatic Diseases

- 1.1. Nutrients
  - 1.1.1. Enzymatic Activity, Metabolism, Filtration and Diuresis
- 1.2. Habits, Risks, Previous and Causative Comorbidities, and Assessment of Feeding Habits
- 1.3. Nutrition in CKD: Predialysis
- 1.4. Nutrition in CKD: Dialysis: Renal Transplantation
- 1.5. Diabetic Nephropathy
- 1.6. Renal Lithiasis
- 1.7. Pancreatic Insufficiency
- 1.8. Non-Alcoholic Hepatic Steatosis, Fibrosis, Hepatic Cirrhosis and Vesicular Lithiasis
- 1.9. Modulation of the Intestinal Microbiota in Renal, Pancreatic and Hepatic Pathology
- 1.10. Psychological Aspects and Planning of Objectives and Consultations



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*A qualification that provides the latest techniques used to address psychological and nutritional aspects in renal patients"*

# 05 Methodology

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

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



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

## At TECH we use the Case Method

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

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



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



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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*



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

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Surgical Techniques and Procedures on Video

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



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

# Certificate

The Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 **Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases** 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: **Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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 present  
development languages  
virtual classroom



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Nutrition in Renal, Hepatic  
and Pancreatic Diseases

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