

Postgraduate Certificate

Pancreatic Disease





Postgraduate Certificate Pancreatic Disease

- » 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/pancreatic-disease

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01

Introduction

Understanding pancreatic disease requires an exhaustive knowledge of the anatomy and physiology of this organ. In this sense, medical sciences have advanced significantly, searching for more comprehensive diagnostic means such as echoendoscopies and other imaging studies. In this context, physicians face the challenge of keeping themselves continuously updated and implementing cutting-edge skills in their daily practice. That is why TECH offers the study of this exclusive program where students will delve into the characteristics of diseases such as Pancreatitis, the cancer of this region of the human body and the relationship with disorders such as Diabetes. All this 100% online in a very complete platform equipped with an extensive Virtual Library and various multimedia resources such as explanatory videos and infographics.



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You will master the technique of lymphatic drainage and strengthen the immune system of your patients thanks to the study of this Postgraduate Certificate”

Specialists in pancreatic pathologies need to learn the latest trends in this field in order to apply new techniques and treatments to their patients. Emerging technologies such as advanced medical imaging or robotic-assisted therapy thus allow experts greater precision in the management of these conditions. In the same vein, genomic sequencing and precision medicine help to identify genetic mutations that can influence disease risk.

TECH has brought together the latest trends in these innovative procedures in a comprehensive syllabus. Throughout the syllabus, students will delve into technological advances such as modern imaging equipment for clinical evaluation. In particular, they will address the advantages of echoendoscopy that connects minimally invasive interventions with visual diagnostic techniques. At the same time, the academic itinerary will allow professionals to analyze pancreatic physiology and anatomy in detail. Likewise, they will study in depth the characteristics of vascularization, venous and lymphatic drainage.

On the other hand, this Postgraduate Certificate has a distinguished teaching staff composed of true experts in Pancreatic Disease. These specialists have meticulously chosen all the topics covered in the program and have proposed complementary materials of the highest quality in multimedia format such as explanatory videos and interactive summaries. In turn, the disruptive Relearning methodology, in which TECH is a pioneer, provides a unique opportunity to acquire skills quickly and flexibly, without memorizing complex concepts in the traditional way. Likewise, all study materials will be accessible from anywhere in the world with the simple help of a device connected to the Internet.

This **Postgraduate Certificate in Pancreatic Disease** contains the most complete and up-to-date scientific program on the market. The most important features of the include:

- ♦ Case studies presented by experts in Portal Hypertension Surgery
- ♦ 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 assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



You will address contemporary therapeutic approaches and monitor emerging technologies in the healthcare field through TECH"

“*You will achieve your objectives thanks to TECH's didactic tools, among which the explanatory videos and interactive summaries stand out*”

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.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

An academic option that will allow you to keep abreast of recent studies on pancreatic pathologies.

No rigid schedules or evaluation chronograms: this is this innovative study plan.



02 Objectives

This university program will provide students with a detailed exploration of the pathologies that affect the pancreas. Students will begin the syllabus with an analysis of the physiology, delving into diseases such as acute and chronic pancreatitis. In addition, students will be immersed in advanced diagnostic imaging techniques or clinical evaluation. Along these lines, graduates will interpret specific biomarkers and perform relevant laboratory tests. In this way, specialists will focus on informed decision making while considering multidisciplinary treatment options.



ID

Age

Sex

Comment

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You will analyze clinical cases with the support of a renowned faculty, which will ensure the success of your learning"



General Objectives

- ♦ Develop a thorough understanding of the normal anatomy of the liver, including vascular distribution, hepatic segmentation and anatomical relationships
- ♦ Establish a solid foundation in normal liver physiology to facilitate identification of pathologic deviations
- ♦ Establish a thorough understanding of the pathophysiology of benign liver diseases, including steatosis, chronic hepatitis, and other conditions
- ♦ Improve ethical decision making in the selection and application of diagnostic procedures, considering patient safety and welfare
- ♦ Stimulate interest in pancreatic disease research and promote constant updating on therapeutic and technological advances





Specific Objectives

- ◆ Establish an in-depth understanding of the normal pathophysiology of the pancreas and the imbalances that lead to diseases such as acute and chronic pancreatitis
- ◆ Develop the ability to identify and classify different pancreatic diseases, including benign and malignant tumors
- ◆ Become familiar with advanced diagnostic techniques, such as endoscopic retrograde cholangiopancreatography (ERCP) and pancreatic MRI, for accurate assessment
- ◆ Assess risk factors associated with pancreatic diseases and understand the progression of these conditions
- ◆ Identify potential complications associated with pancreatic diseases and learn how to prevent and manage them effectively



Acquire knowledge without geographical limitations or pre-established timing"

03

Course Management

In order to offer the highest educational excellence, TECH has a renowned teaching team. These specialists have an extensive professional background, being part of renowned hospitals. In addition, they are characterized by their in-depth knowledge of portal hypertension surgery and offer the most advanced technological resources in the healthcare market. In this way, students have the guarantees they need to update their competencies and acquire new skills to provide services to their patients.





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A training designed with a 100% online format, to adapt to the agendas of busy professionals"

International Director

Surgery and liver transplantation are the fields of research to which the eminent French physician and researcher Eric Vibert has devoted his professional career. For almost three decades, this expert has been involved in the holistic approach to primary liver cancer. Based on these interests, he has positioned himself as a true reference in this field, making significant contributions.

Dr. Vibert also leads a consortium called BOPA, which includes the University Paris-Saclay, the Ecole Mines Télécom and the Hepatobiliary Center of the Paul-Brousse Hospital (AP-HP). The aim of this project is to improve safety in operating rooms. To this end, its innovations are based on digital technologies, in gestation or already existing, which make it possible to increase the range of vision, speech and touch of the medical staff before any type of operation. These contributions, first implemented in simulated surgical rooms, have allowed the validation of multiple disruptive procedures.

In addition, this scientific pioneer is committed to connecting professionals from different fields in order to reinvent surgical practices. That is why his teams bring together engineers and computer scientists, as well as physicians, anesthesiologists, nurses and many other specialists. A work strategy that he continually integrates into his responsibilities and into the leadership of the Department of Surgery and Liver Transplantation at the Paul-Brousse de Villejuif Hospital in Paris.

In terms of academic impact, Dr. Vibert has more than 130 communications at international conferences and 30 plenary lectures. He also has an impressive H-index of 43, having authored 212 publications in first impact journals. He is also the author of the book *Droit à l'Erreur, Devoir de Transparence*, which deals with transparency and error management in medicine, and is the creator of the Week-End de l'Innovation Chirurgicale, with which he has left an everlasting medical-surgical mark.



Dr. Eric Vibert

- ♦ Chief of Surgery and Liver Transplantation at the Paul-Brousse de Villejuif Hospital, Paris, France
- ♦ Head of the Surgical Innovation Group at the University of Paris Sud
- ♦ Specialist in Liver and Biliary Tract Cancer Surgery
- ♦ Head of the Surgical Innovation Group of GH Paris Sud
- ♦ Director of Research, Biomedical/Medical Engineering at the University Paris-Sud
- ♦ Creator and Organizer of the Week-End de l'Innovation Chirurgicale
- ♦ Doctor of Medicine, St. Antoine Faculty of Medicine, University Paris VI

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Thanks to TECH, you will be able to learn with the best professionals in the world”

Management



Dr. Al Shwely Abduljabar, Farah

- ♦ Head of the Hepatobiliopancreatic Surgery Unit of the University Hospital of Guadalajara
- ♦ PhD in Medicine, University of Alcalá
- ♦ Specialist in General and Digestive System Surgery at the University Hospital of Guadalajara
- ♦ Astellas Fellowship in Hepatobiliopancreatic Surgery and liver and pancreatic transplantation
- ♦ Official Master's Degree in Hepatology and Clinical Research at the University of Barcelona
- ♦ Official Master's Degree in Medical Expertise and Valuation of Bodily Injury by the University of Barcelona
- ♦ Degree in Medicine from the University of Alcalá, Spain
- ♦ Reviewer of the Central European Journal of Medicine
- ♦ Member of the Spanish Association of Surgeons
- ♦ Editor of: Journal of Liver and Clinical Research, EC Orthopaedics, Austin Pancreatic Disorders and Annals of Clinical Cytology and Pathology



Professors

Dr. Picardo, María Dolores

- ◆ General and Digestive System Surgeon at the University Hospital of Guadalajara
- ◆ Director of doctoral theses and final projects at La Paz University Hospital
- ◆ R+D+i management and participation in scientific committees
- ◆ Teacher in courses and seminars oriented to university teaching training
- ◆ Degree in Medicine from the Autonomous University of Madrid
- ◆ Member of the Technical-Assistance Board of the Integrated Care Management of Guadalajara

Dr. González Sierra, Begoña

- ◆ Specialist in General and Digestive System Surgery at the University Hospital of Guadalajara
- ◆ Professional Master's Degree in General Surgery Updating by the Spanish Confederation of Universities
- ◆ Professional Master's Degree in Integration and Clinical Problem Solving in Medicine from the University of Alcalá, Spain
- ◆ Professional Master's Degree in Aesthetic Medicine, Universidad Rey Juan Carlos, Madrid
- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ Postgraduate Certificate in Physiotherapy from the Rey Juan Carlos University

04

Structure and Content

This academic pathway will provide students with a detailed exploration of the pathologies affecting the pancreas. The syllabus will begin with an analysis of pancreatic physiology and will delve into benign and malignant diseases (such as acute and chronic pancreatitis), as well as pancreatic tumors. Students will delve into advanced imaging techniques and clinical evaluation to address the complexity of pancreatic diseases. In addition, the interpretation of specific biomarkers and the performance of relevant laboratory tests will be emphasized. The program will also address contemporary therapeutic approaches, such as the medical management of pancreatitis.





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With the Relearning system you will integrate the concepts in a natural and progressive way”

Module 1. Pancreatic Disease

- 1.1. Pancreas Anatomy
 - 1.1.1. Location
 - 1.1.2. Divisions of the pancreas
 - 1.1.3. Relationship with other organs
- 1.2. Surgical anatomy of the pancreas
 - 1.2.1. Head
 - 1.2.2. Body
 - 1.2.3. Tail
- 1.3. Embryology of the pancreas
 - 1.3.1. Initial development
 - 1.3.2. Formation of the parts
 - 1.3.3. Conclusions
- 1.4. Vascularization and venous drainage
 - 1.4.1. Pancreatic arteries
 - 1.4.2. Accessory pancreatic arteries
 - 1.4.3. Drainages
- 1.5. Lymphatic drainage (lymph node stations)
 - 1.5.1. Peripancreatic lymph node station
 - 1.5.2. Splenic Hilum Lymph Nodal Station
 - 1.5.3. Hepatic Hilum Nodal Station
- 1.6. Pancreatic physiology
 - 1.6.1. Exocrine function of the pancreas
 - 1.6.2. Endocrine Function of the Pancreas
 - 1.6.3. Regulation of the endocrine function
- 1.7. Regulation of pancreatic secretion
 - 1.7.1. Neuronal stimulation
 - 1.7.2. Hormonal stimulus
 - 1.7.3. Negative feedback mechanisms



- 1.8. Medical History
 - 1.8.1. Physical Examination
 - 1.8.2. Complementary Tests
 - 1.8.3. Others
- 1.9. Imaging studies of pancreatic pathology
 - 1.9.1. Abdominal Computed Tomography (CT)
 - 1.9.2. Magnetic Resonance Imaging (MRI) of the Pancreas
 - 1.9.3. Abdominal ultrasound
- 1.10. Echoendoscopy in the diagnosis of pancreatic disease
 - 1.10.1. Detailed visualization of the pancreas
 - 1.10.2. Evaluation of pancreatic tumors
 - 1.10.3. Detection of small lesions

“*Acquire knowledge without geographical limitations or pre-established timing*”



05

Methodology

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

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





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

At TECH we use the Case Method

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

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



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

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

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

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



Relearning Methodology

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

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

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



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

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

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

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

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



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



Study Material

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

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



Surgical Techniques and Procedures on Video

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



Interactive Summaries

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

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



Additional Reading

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





Expert-Led Case Studies and Case Analysis

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



Testing & Retesting

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



Classes

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



Quick Action Guides

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



06 Certificate

The Postgraduate Certificate in Pancreatic Disease 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 Pancreatic Disease** 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 Pancreatic Disease**

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.



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