



Postgraduate Certificate

Study and Diagnosis of the Biliary Tract

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/study-diagnosis-biliary-tract

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Certificate

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tech 06 | Introduction

In society, cases of diseases related to the biliary tract are increasing every day. An example of this is Cholangitis, Pancreatitis and Cholangiocarcinomas. Given this, surgeons have a responsibility to research the latest trends in this field in order to provide the best services to patients. However, the most recent scientific evidence on this subject is not always accessible for self-study. Therefore, it is a real challenge for professionals who seek to combine their daily work with academic updating.

In this context, TECH distinguishes itself in the university scene by offering an innovative program that will allow specialists to catch up on the latest trends in anatomy, physiology and pathologies affecting the biliary tract. Under the supervision of a prestigious teaching staff, the syllabus covers in detail the symptoms and fundamental causes of conditions such as the formation of stones in the gallbladder. In this way, students have direct access to the most effective treatments and strategies to personalize therapy for each patient according to their medical history. In addition, the syllabus covers preoperative planning through various advanced techniques such as retrograde cholangiopancreatography.

On the other hand, in order to reinforce these contents, the methodology of this program reinforces its innovative character. TECH offers a 100% online educational environment, tailored to the needs of busy professionals seeking to advance their careers. It also employs the Relearning methodology, based on the repetition of key concepts to fix knowledge and facilitate learning. In this way, the combination of flexibility and a robust pedagogical approach makes it highly accessible. Students will also have access to a library full of multimedia resources in different audiovisual formats.

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

- The development of case studies presented by experts in Study and Diagnosis of Biliary Tract
- 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 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.

Do you want to expand your knowledge in Radiology? Master the technique of Transhepatic Percutaneous Cholangiography in only 6 weeks.

Learn more about robotic surgeryand handle new therapeutic approaches to lithiasic pathology.





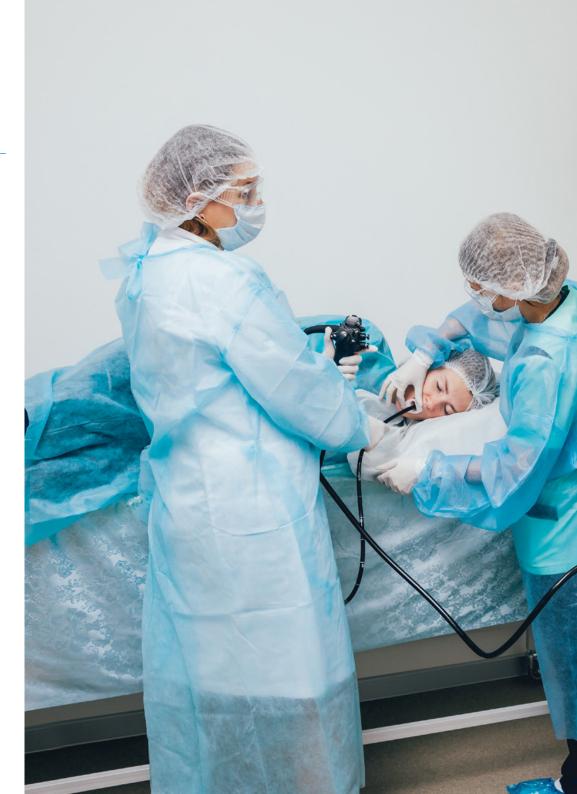


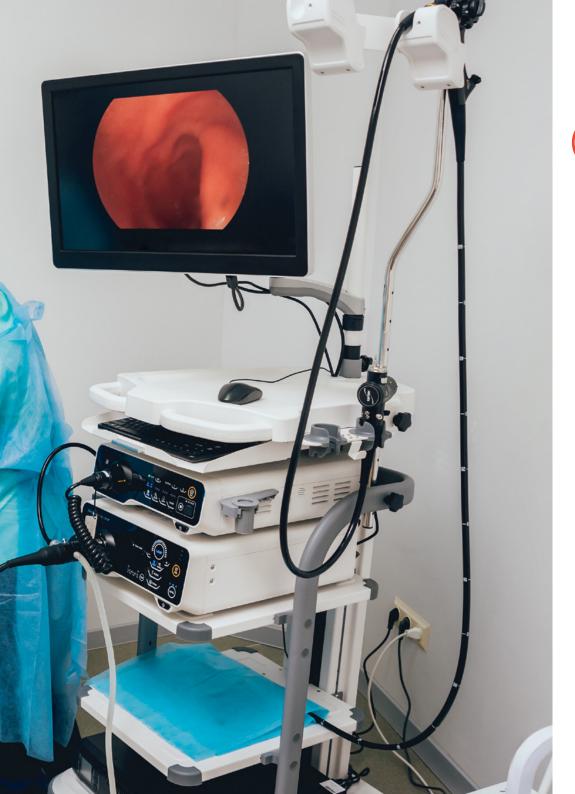
tech 10 | Objectives



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





Objectives | 11 tech



Specific Objectives

- Establish a solid understanding of the normal anatomy and physiology of the biliary tract, including the gallbladder, bile ducts and sphincter of Oddi
- Become familiar with specific imaging techniques for the evaluation of the biliary tract, such as cholangiography and cholangioresonance imaging
- Develop the ability to identify and classify different disorders affecting the duct
- Become familiar with non-invasive diagnostic methods, such as ultrasound and computed tomography, for a complete evaluation of the biliary tract
- Understand the interpretation of specific laboratory tests related to bile duct function, such as liver tests and bilirubin levels
- Keep up-to-date with emerging diagnostic technologies, such as liver elastography, to improve diagnostic accuracy



Acquire knowledge without geographical limitations or pre-established timing"





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 Telécom 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.

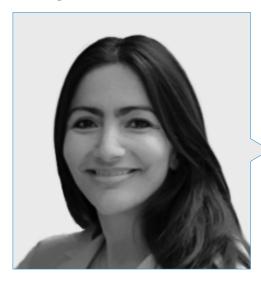


Dr. Eric Vibert

- 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



Management



Dr. Al Shwely Abduljabar, Farah

- Head of the Hepatobiliopancreatic Surgery Unit of the University Hospital of Guadalajara
- PhD in Medicine, University of Alcala
- 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



Course Management | 17 tech

Professors

Dr. Díaz Candelas, Daniel Alejandro

- Specialist in General and Digestive System Surgery, University Hospital of Guadalajara, Mexico
- Postgraduate Diploma in Bases in Esophagogastric Surgery
- Degree in Medicine from the Central University of Venezuela
- Professor at the University Hospital of Guadalajara

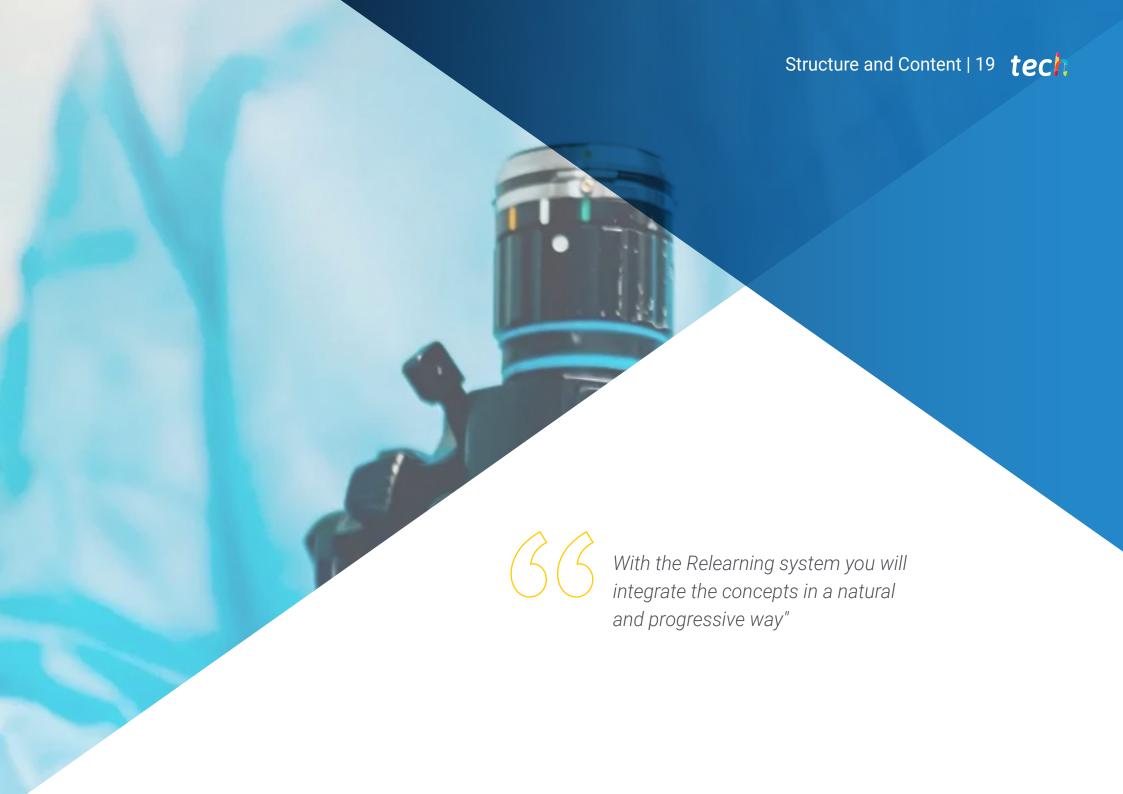
Dr. Bajawi, Mariam

- Specialist in General and Digestive System Surgery at the University Hospital of Guadalajara
- Clinical Professor of General and Digestive Surgery
- PhD in Health and Life Sciences from the University of Alcalá de Henares
- Professional Master's Degree in Digestive Oncology (CEU Cardenal Herrera University) and Clinical Medicine (Camilo José Cela University)
- Degree in Medicine from the University of Jordan



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





tech 20 | Structure and Content

Module 1. Study and Diagnosis of the Biliary Tract

- 1.1. Surgical and vascular anatomy of the biliary tract
 - 1.1.1. Liver
 - 1.1.2. Gallbladder
 - 1.1.3. Cystic duct
- 1.2. Physiology of bile
 - 1.2.1. Production
 - 1.2.2. Storage
 - 1.2.3. Functions
- 1.3. Pathophysiology of the gallbladder and biliary tract
 - 1.3.1. Calculations
 - 1.3.2. Tumours
 - 1.3.3. Others
- 1.4. Clinical history, laboratory tests in the patient with biliary pathology
 - 1.4.1. Medical history
 - 1.4.2. Risk Factors
 - 1.4.3. Conclusions
- 1.5. Imaging study of the biliary tract
 - 1.5.1. Abdominal ultrasound
 - 1.5.2. Cholangiography by Magnetic Resonance (MRCP)
 - 1.5.3. Abdominal Computed Tomography (CT)
- 1.6. Colelitiasis
 - 1.6.1. Coledocolitiasis
 - 1.6.2. Causes
 - 1.6.3. Symptoms





Structure and Content | 21 tech

- 1.7. Endoscopic treatment of choledocholithiasis
 - 1.7.1. Endoscopic Retrograde Endoscopic Cholangiopancreatography (ERCP)
 - 1.7.2. Echoendoscopy
 - 1.7.3. Others
- 1.8. Interventional radiology in the diagnosis of biliary tract pathology
 - 1.8.1. Transhepatic Percutaneous Transhepatic Cholangiography (TPC)
 - 1.8.2. Magnetic Resonance Cholangiography (MRCP) with MRI Cholangiography
 - 1.8.3. Endoscopic Retrograde Endoscopic Cholangiopancreatography (ERCP)
- 1.9. Surgical management of lithiasic pathology of the biliary tract
 - 1.9.1. Description
 - 1.9.2. Advantages
 - 1.9.3. Procedures
- 1.10. New therapeutic approaches to biliary tract lithiasic pathology
 - 1.10.1. Laparoscopic approach
 - 1.10.2. Robotic Surgery
 - 1.10.3. Others







tech 24 | Methodology

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.



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:

- 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.



Methodology | 27 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, 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.

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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.









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This program will allow you to obtain your **Postgraduate Certificate in Study and Diagnosis of the Biliary Tract** 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 Study and Diagnosis of the Biliary Tract

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



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

Postgraduate Certificate in Study and Diagnosis of the Biliary Tract

This is a program of 180 hours of duration equivalent to 6 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



^{*}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.

health confidence people
leducation information tutors
guarantee accreditation teaching
institutions technology learning



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- » Schedule: at your own pace
- » Exams: online

