Postgraduate Certificate

Liver and Duodenopancreatic Trauma

tech global university

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Postgraduate Certificate

Liver and Duodenopancreatic Trauma

- 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/liver-duodenopancreatic-trauma**

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01

Introduction

Given the complexity of liver and duodenopancreatic trauma, radiology methods such as computed tomography and magnetic resonance imaging have become valuable tools for observation and early diagnosis. However, healthcare professionals are challenged to stay updated on how these trends are inserted in the management of internal bleeding or organ failure. For this reason, TECH has developed this very complete program where physicians will delve into these tools and others to facilitate the successful recovery of patients. For this, the academic itinerary has the most disruptive teaching methodology and in 100% online mode: Relearning.

Go deeper into the classification of liver trauma and your evaluations will be more exhaustive"

Specialists face the continuous challenge of learning about new technologies in the medical field, in order to subsequently implement them in their respective procedures. However, the various changes in the field make it difficult for them to keep abreast of all existing trends. In addition, there are currently few scientific analyses dedicated with specificity to liver and duodenopancreatic trauma. Consequently, if specialists are not up to date with medical advances, they may make mistakes in the diagnosis of these conditions.

In this context, TECH has implemented an avant-garde degree to offer graduates the most modern techniques in these traumas. With the support of a renowned teaching staff, students will learn in depth the most advanced techniques of diagnostic imaging and clinical evaluation to determine the extent of the injuries. At the same time, they will approach the latest generation surgical strategies that will allow the development of duodenopancreatic reconstructions. In addition, the academic itinerary includes the description of caval and suprahepatic vein lesions. In this sense, the program will highlight minimally invasive techniques and the mechanisms to determine when their application is more appropriate and adjusted to each patient.

On the other hand, the methodology stands out for its 100% online modality, adapted 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 multimedia formats such as interactive summaries, photographs, explanatory videos and infographics.

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

- Practical cases presented by experts in Liver and Duodenopancreatic Trauma
- 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 manage the complications of Duodenal and Pancreatic Trauma after completing this 6-week academic pathway with TECH, the world's best digital university according to Forbes"

You will be facing a unique opportunity to customize your study schedules, thanks to the 100% online methodology of this university program"

A disruptive syllabus that will allow you to delve into caval and suprahepatic vein injuries.

No rigid schedules or evaluation timelines: that's what this innovative TECH program is all about.

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.

02

Objectives

This university program will provide students with a deep dive into the evaluation and management of traumatic injuries to the Liver, Duodenum and Pancreas. Over the course of 6 weeks, students will delve into various advanced imaging and clinical evaluation techniques to determine the severity of injuries. In this way, they will be able to approach current surgical strategies such as lesion repair. The training will promote accurate decision making in trauma situations, integrating anatomical and physiological considerations.

You will tackle dissimilar case studies and their complexities throughout this comprehensive TECH academic pathway"

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

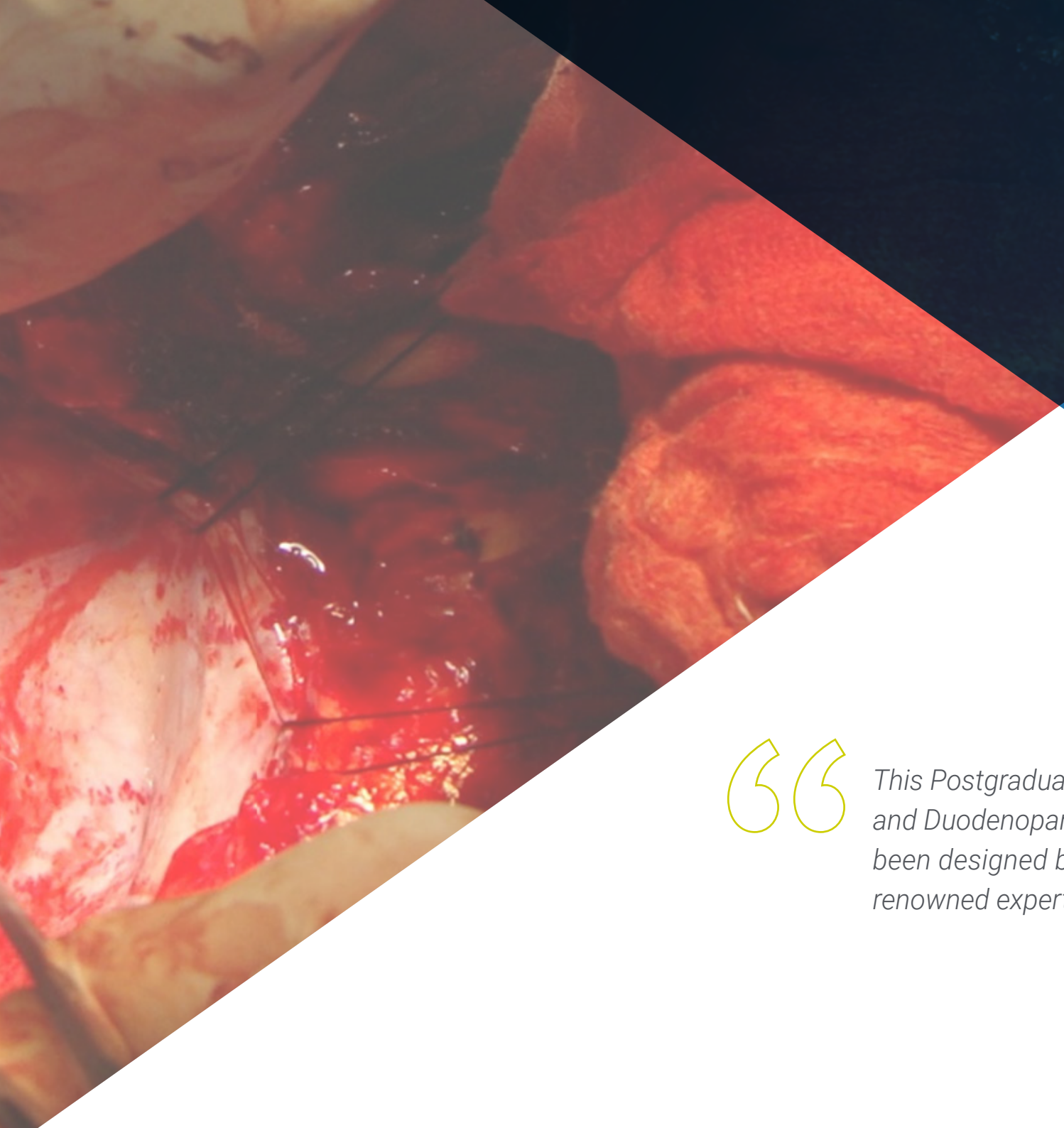
- Establish a solid understanding of the anatomy and physiology of the hepatic, duodenal and pancreatic region, particularly in the context of traumatic injuries
- Develop the ability to identify and classify the different mechanisms of injury affecting the liver, duodenum and pancreas in traumatic situations
- Become familiar with emergency diagnostic techniques, such as computed tomography and ultrasound, for rapid and accurate assessment of traumatic injuries
- Acquire specific surgical skills for the management of traumatic injuries, including techniques of hemostasis and repair of compromised organs
- Develop skills to anticipate and manage complications that may arise during and after treatment of traumatic injuries in these areas
- Improve reconstruction techniques in complex injuries, particularly in situations involving the duodenum and pancreas

You will define your progress and set your professional improvement goals in a personalized way thanks to the innovative methodology of this program"

03

Course Management

In its maxim of offering the best quality education, TECH has a teaching staff of international prestige. 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.



This Postgraduate Certificate in Liver and Duodenopancreatic Trauma has been designed by internationally renowned experts"

International Guest

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. Vibert, Eric

- 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

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 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

Professors

Dr. López Marcano, Aylhin

- Physician in the Hepatobiliopancreatic Surgery Unit of the University Hospital of Guadalajara
- PhD in Medicine, University of Alcala
- Specialist in General and Digestive System Surgery
- Graduated from the Luis Razetti School of Medicine
- Degree in Medicine from the Central of Caracas University

04

Structure and Content

This syllabus provides a deep dive into the evaluation and management of traumatic injuries to the Liver, Duodenum and Pancreas. Students will address in detail both the relevant anatomy and mechanisms of injury. In addition, advanced imaging and clinical evaluation techniques will be discussed in order to determine the severity of the injuries. In this sense, the training will address current surgical strategies, ranging from lesion repair to pancreatic duodenal reconstruction.

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

Module 1. Hepatic and Duodecenopancreatic Trauma

1.1. Mechanism of injury in hepatic traumatism
- 1.1.1. Degrees of injury
- 1.1.2. Injury management
- 1.1.3. Conclusions

1.2. Evaluation, exploration and classification of hepatic traumatism
- 1.2.1. Assessment
- 1.2.2. Exploration
- 1.2.3. Classification

1.3. Conservative management of hepatic trauma
- 1.3.1. Types of Lesions
- 1.3.2. Strategies
- 1.3.3. Conclusions

1.4. Surgical management of hepatic traumatism
- 1.4.1. Type of lesions
- 1.4.2. Strategy
- 1.4.3. Conclusions

1.5. Injuries to the vena cava and suprahepatic veins in liver trauma
- 1.5.1. Cava Vein
- 1.5.2. Suprahepatic veins
- 1.5.3. Diagnosis and Management

1.6. Mechanism of injury in duodenal and pancreatic traumatism
- 1.6.1. Trauma
- 1.6.2. Associated injuries
- 1.6.3. Treatment

1.7. Evaluation, examination and classification of duodenal and pancreatic trauma
- 1.7.1. Assessment
- 1.7.2. Exploration
- 1.7.3. Classification

1.8. Diagnosis of duodenal and pancreatic trauma
- 1.8.1. Clinical Assessment
- 1.8.2. Diagnostic Tests
- 1.8.3. Treatment

1.9. Treatment of duodenal and pancreatic traumatism
- 1.9.1. Duodenal trauma
- 1.9.2. Pancreatic trauma
- 1.9.3. Special considerations

1.10. Complications of duodenal and pancreatic traumatism
- 1.10.1. Management of complications
- 1.10.2. Evaluation of complications
- 1.10.3. Conclusions

Take advantage of this opportunity and expand your medical-surgical skills for the diagnosis of different liver traumas"

05

Methodology

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

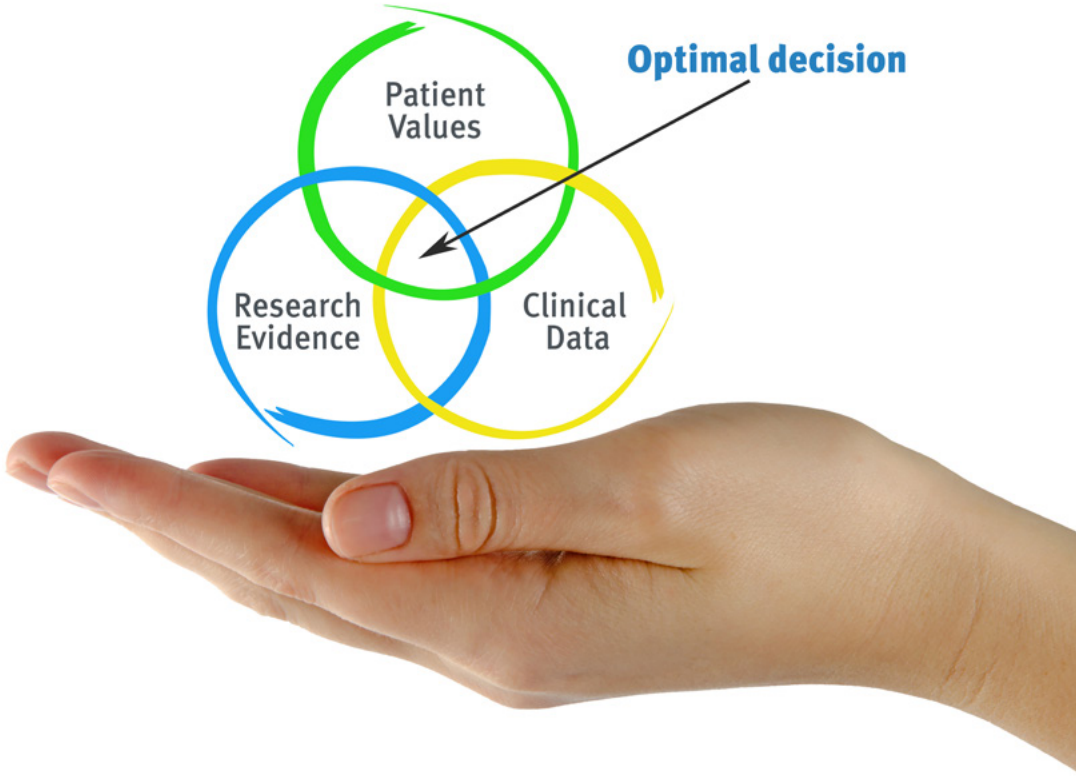
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

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.

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:

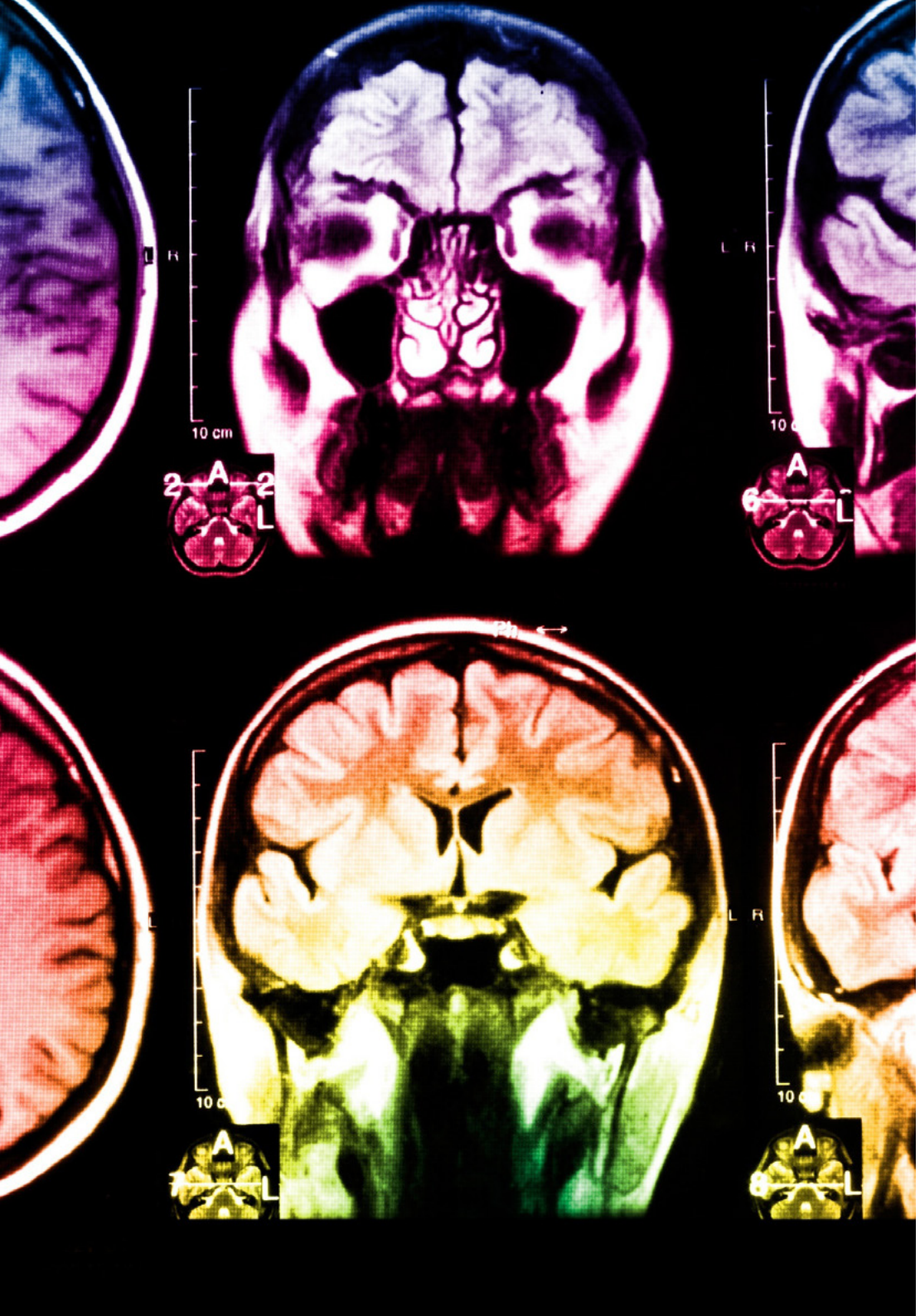
1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better 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.

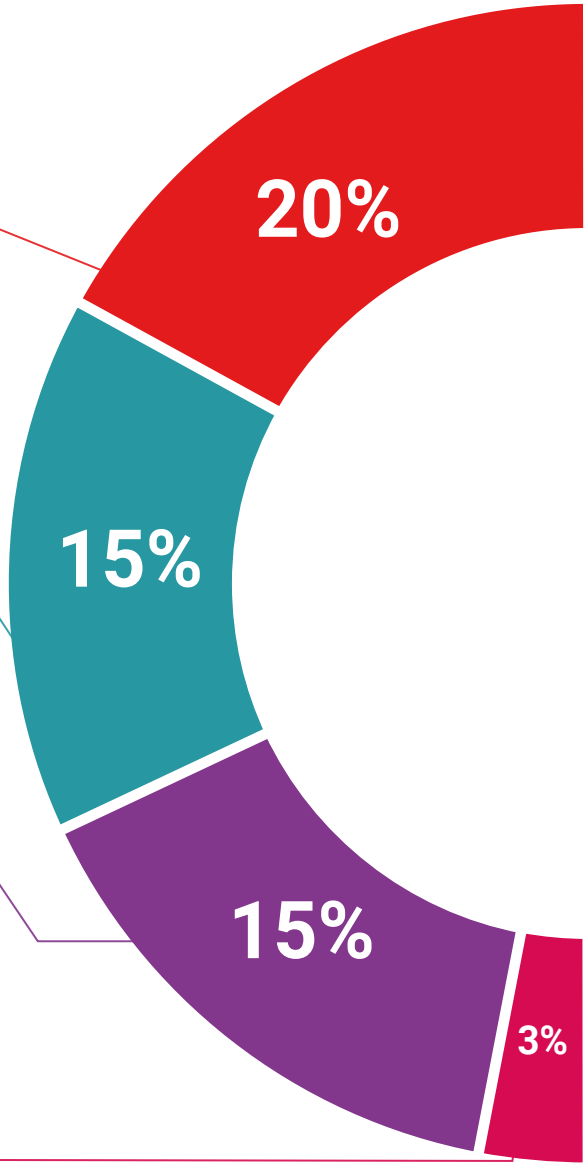
Interactive Summaries

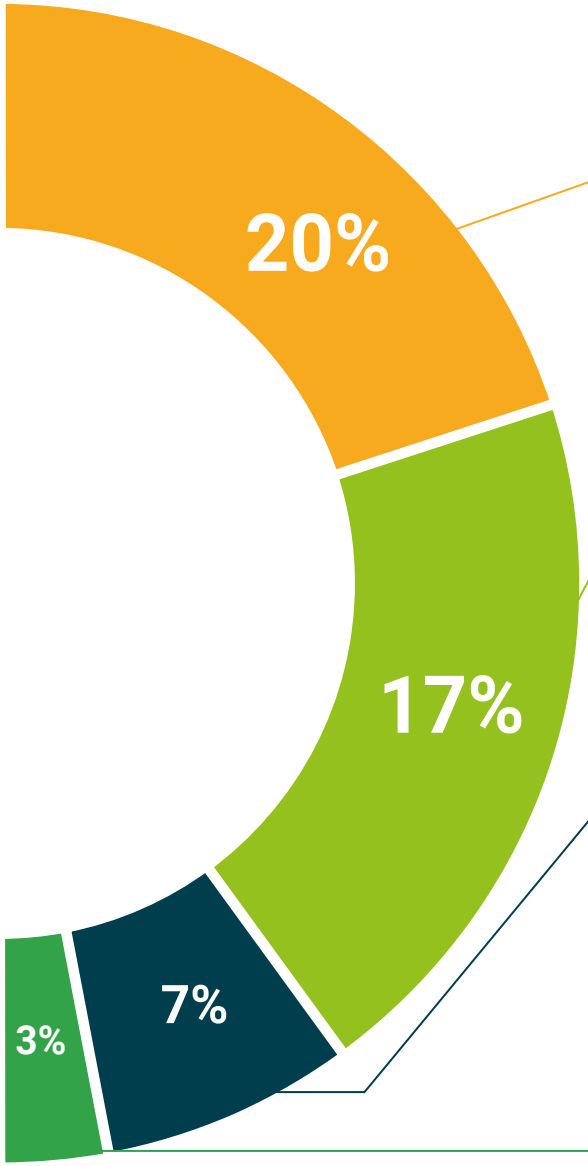
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Liver and Duodenopancreatic Trauma guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.

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 Liver and Duodenopancreatic Trauma** 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 Liver and Duodenopancreatic Trauma**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**


tech global university

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

Postgraduate Certificate in Liver and Duodenopancreatic Trauma

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

Dr. Pedro Navarro Illana
Rector

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

*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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Postgraduate Certificate

Liver and Duodenopancreatic Trauma

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

Postgraduate Certificate

Liver and Duodenopancreatic Trauma

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