

# Postgraduate Diploma

Diagnosis and Treatment of Tumors  
of the Pancreas, Biliary Tract and  
Hepatocarcinoma



## Postgraduate Diploma

### Diagnosis and Treatment of Tumors of the Pancreas, Biliary Tract and Hepatocarcinoma

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-diagnosis-treatment-tumors-pancreas-biliary-tract-hepatocarcinoma](http://www.techitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-diagnosis-treatment-tumors-pancreas-biliary-tract-hepatocarcinoma)

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01

# Introduction

Digestive tumors represent an important cause of morbidity and mortality in the population of both sexes. It is estimated that approximately 220,000 new cases of cancer are detected in Spain each year, 25% of which are digestive tumors. Their incidence has varied over the years.



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*This Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Pancreas, Biliary Tract and Hepatocarcinoma contains the most complete and up-to-date scientific program on the market”*

Whereas a few years ago the survival of metastatic patients was around six months, it has now extended to at least 24 months, as a result of the fact that in recent years there have been many important advances in early detection, diagnosis and treatment procedures, so that at the same time, we are faced with increasing complexity in the management of these tumors.

The continuous improvement and sophistication of imaging methods, the refinement of some surgical techniques, the increased hierarchization of certain pathological findings, the inclusion of molecular biology in clinical practice, the incorporation of personalized medicine, changes in many classical therapeutic approaches, technological advances for the administration of radiotherapy, the incorporation of immunotherapy and new combined modalities, new complications and sequelae of new treatments, are some of the factors that make the care of patients with digestive tumors an increasingly complex activity.



*Increase your competences in  
Diagnosis and Treatment of  
Tumors of the Pancreas, Biliary  
Tract and Hepatocarcinoma”*

This **Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Pancreas, Biliary Tract and Hepatocarcinoma** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- Clinical cases presented by experts in the different specialties. The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice
- Latest developments in the diagnosis and treatment of tumors of the pancreas, biliary tract and hepatocarcinoma
- Algorithm-based interactive learning system for decision-making in the presented clinical situations
- With special emphasis on evidence-based medicine and research methodologies in the diagnosis and treatment of tumors of the pancreas, biliary tract and hepatocarcinoma
- All this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- Content that is accessible from any fixed or portable device with an Internet connection

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*This Postgraduate Diploma may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in the diagnosis and treatment of tumors of the pancreas, biliary tract and hepatocarcinoma, you will obtain a certificate from TECH Global University"*

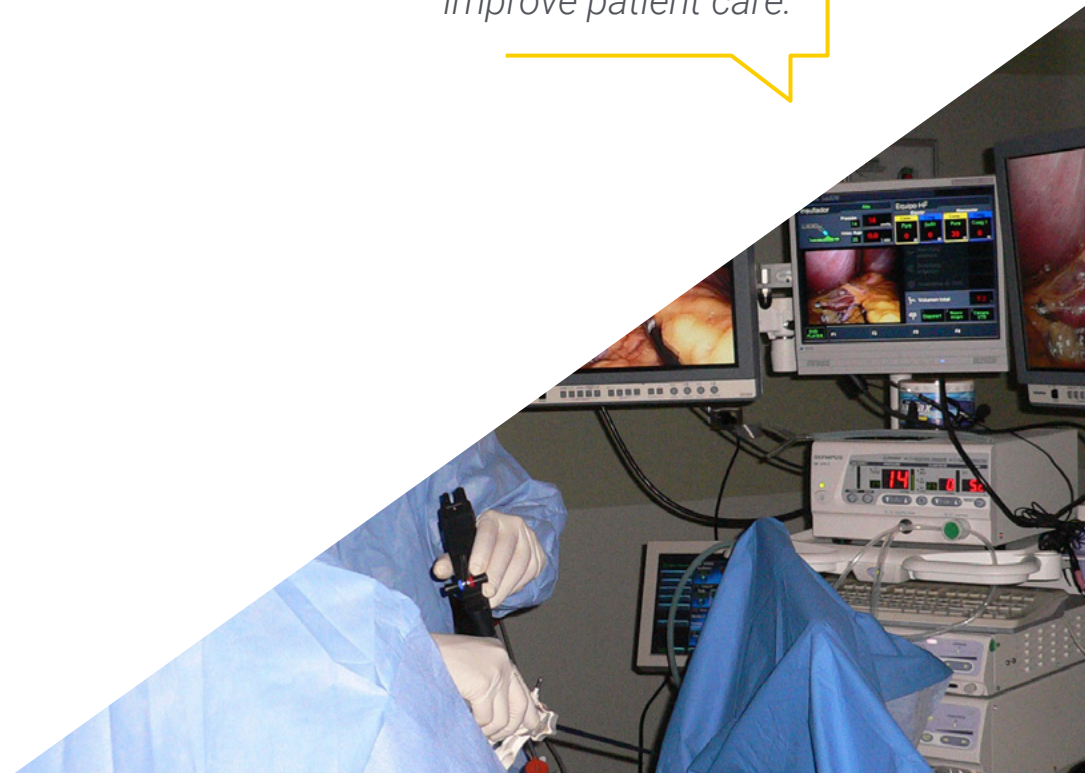
Forming part of the teaching staff is a group of professionals in the world of digestive oncology who bring to this training their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

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

This program is designed around Problem Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the course. This will be done with the help of an innovative interactive video system created by renowned experts in the field of diagnosis and treatment of pancreatic, biliary tract and liver tumors with extensive teaching experience.

*Increase your decision-making confidence by updating your knowledge through this Postgraduate Diploma.*

*Don't miss the opportunity to update your knowledge in the diagnosis and treatment of pancreatic, biliary tract and hepatocarcinoma tumors to improve patient care.*



# 02

# Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a practical and rigorous way the study of the diagnosis and treatment of pancreatic, biliary and hepatic tumors.







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*This refresher program will generate a sense of confidence in medical practice, which will help you grow both personally and professionally”*



## General Objective

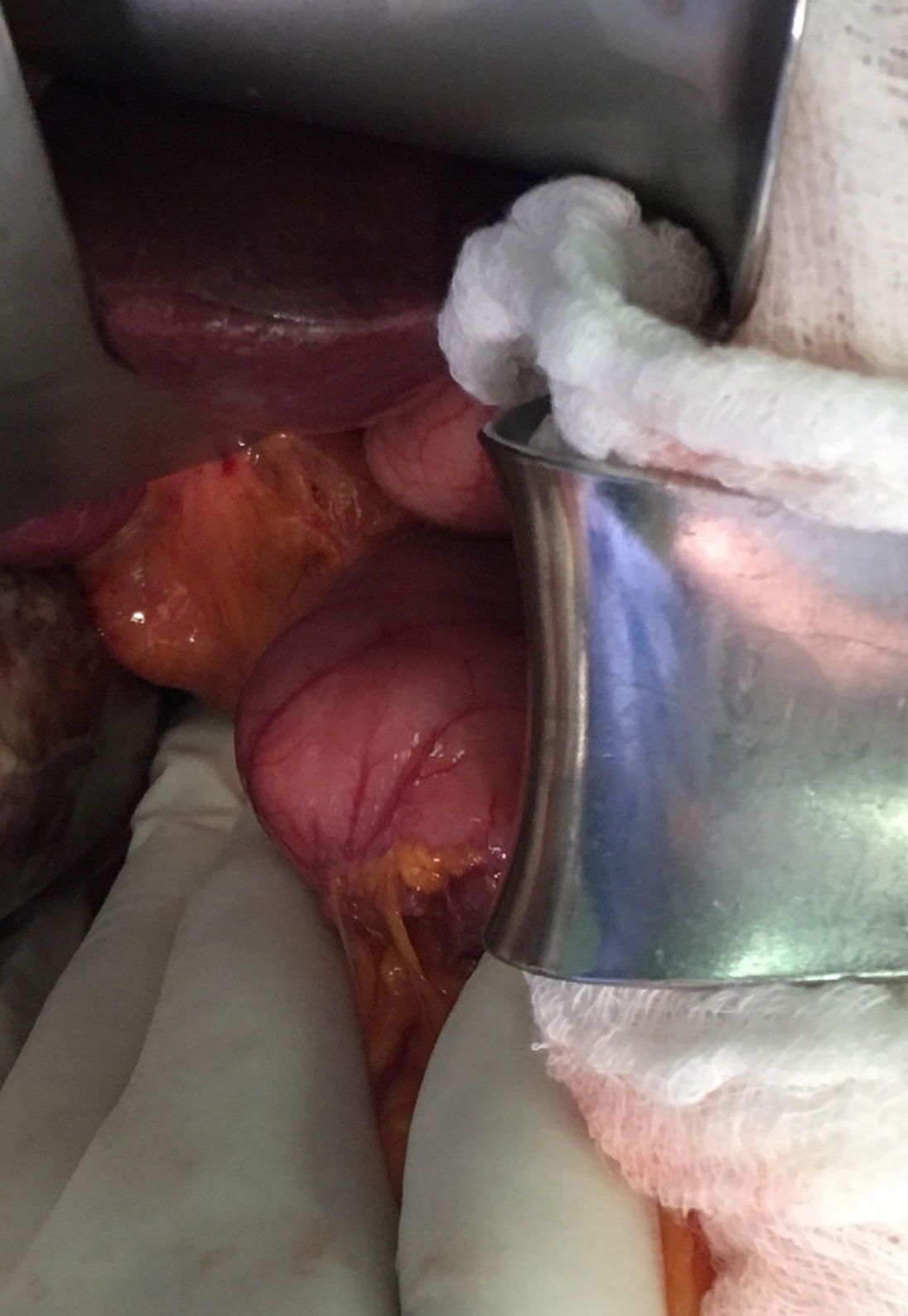
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- ♦ Create a global and updated vision of the upper gastrointestinal tract and all its aspects, allowing the student to acquire useful knowledge and, at the same time, generate interest in expanding the information and discovering its application in their daily practice
- ♦ Provide and expand knowledge on immunotherapy, as an example of a clear scientific advance in translational research, and one of the most promising lines of research in cancer treatment



*Seize the opportunity and take the step to get up to date on the latest developments in the diagnosis and treatment of pancreatic, biliary tract and liver tumors”*





## Specific Objectives

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- ♦ Update knowledge in the molecular biology of cancer, especially in relation to the concept of genetic heterogeneity, reprogramming of the microenvironment in digestive tumors, role of the immune response in cancer control, circulating biomarkers and tissue molecular markers
- ♦ Create a global and updated vision of the exposed topics that will allow the student to acquire useful knowledge and at the same time, generate interest in expanding the information and discovering its application in their daily practice
- ♦ Definir la epidemiología, factores de riesgo y diagnóstico del cáncer de páncreas y hepatocarcinoma y su valor en la práctica clínica
- ♦ Delve into the imaging tests for the diagnosis and staging of pancreatic cancer. Analyze the multidisciplinary treatment of pancreatic, biliary tract and hepatocarcinoma cancer and future treatment options
- ♦ Discuss the role of pancreatic, biliary tract and hepatocarcinoma cancer surgery.
- ♦ Update the treatment of pancreatic cancer, biliary tract and advanced hepatocarcinoma

03

# Course Management

This program includes highly regarded health professionals in the field of digestive oncology in its teaching staff, who bring the experience of their work to this training.

In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.



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*Learn from leading professionals  
the latest advances in diagnosis  
and treatment of pancreatic, biliary  
tract and hepatocarcinoma tumors”*

## Management



### Dr. Oruezábal Moreno, Mauro Javier

- Head of the medical Oncology Service at La Paz University Hospital since 2017.
- Research Fellow at University of Southampton (2016-present).
- Master's Degree in Bioinformatics and biostatistics UOC-UB (2016-ongoing)
- Master's Degree in bioinformatic analysis by the Pablo de Olavide University (2015-2016)
- Doctor of Medicine from the Complutense University of Madrid. Outstanding Cum Laude Qualification (2002).
- Member of the Spanish Society of Medical Oncology (SEOM) and the Spanish Group of Digestive Tumors (TTD)
- Specialist (MIR) in Medical Oncology, University Hospital San Carlos of Madrid (2000).
- Degree in Medicine and Surgery, University of Navarra (1995).



### Esteban López-Jamar, José Miguel

- Head of the Endoscopy Unit at the San Carlos Clinical University Hospital of Madrid
- PhD in Medicine and Surgery, from the Complutense University of Madrid with Outstanding Award
- Training at the AMC in Amsterdam, the Paoli Calmettes Institute in Marseille and the Horst-Schmidt-Kliniken in Wiesbaden (Germany)
- Member of the SEPD, ACAD, SEED, ESGE
- Honorary Member of the Equatorian Society of Gastroenterology
- Professor and member of the Scientific Advisory Committee of the University Specialization Course in Endoscopic Ultrasonography of the UOC.
- Specialist (MIR) in the Digestive System, San Carlos University Hospital of Madrid



### Loinaz Seguro, Carmelo

- Chief of Section of General and Digestive System Surgery, Doce de Octubre University Hospital, Madrid.
- Degree in Medicine and Surgery, University of Navarra (1985).
- Specialist in General and Digestive System Surgery, Doce de Octubre University Hospital
- Doctor in Medicine and Surgery, Complutense University of Madrid, qualification outstanding cum laude (1991).
- Associate Professor of Health Sciences. Accredited as Full Professor by ANECA (2009)
- Member of the Spanish Association of Surgeons, Spanish Society of Parenteral and Enteral Nutrition, American College of Surgeons, Spanish Society of Transplantation, Spanish Society of Liver Transplantation, European Society of Organ Transplantation, The Transplantation Society (and IRTA section, Intestinal Rehabilitation and Transplant Association), IASGO (International Society of Surgeons, Gastroenterologists and Oncologists), ISDE (International Society of Diseases of the Esophagus)
- Head of General Surgery Unit, Alcorcón University Hospital (2004-2008)
- Master's Degree in Medical Management and Clinical Management, UNED and Escuela de Sanidad-Instituto Carlos III.
- Coordinator of the Humanitarian Collaboration Group of the AEC.
- Committee of Health Cooperation at the Department of Surgery of the UCM.

## Professors

### Dr. Astudillo González, Aurora

- ♦ Anatomic Pathology Service
- ♦ Associate Professor at the University of Oviedo linked to the Central University Hospital of Asturias.
- ♦ Scientific Director of the Principality of Asturias Biobank.

### Dr. Concha Lopez, Ángel

- ♦ Head of Anatomic - Pathology Department and director of the Biobanc
- ♦ A Coruña University Hospital Complex

### Dr. Cruz Santamaria, Dulce M.

- ♦ Gastroenterology Department
- ♦ San Carlos University Hospital, Madrid

**Dr. Díaz Beveridge, Roberto**

- ♦ Medical Oncology Department
- ♦ La Fe University and Polytechnica Hospital, Valencia

**Dr. Fabregat Prous, Joan**

- ♦ Head of the General Surgery Department
- ♦ Bellvitge University Hospital

**Dr. Figueroa, Angélica**

- ♦ Institute of Biomedical Research A Coruña (INIBIC)
- ♦ Research Group Leader, Epithelial Plasticity and Metastasis

**Dr. Fondevila Campo, Constantino**

- ♦ General and Digestive System Surgery Department
- ♦ Clinical Hospital, Barcelona

**Dr. Gornals Soler, Joan**

- ♦ Head of the Endoscopy Department
- ♦ Bellvitge University Hospital. Barcelona

**Dr. Lariño Noia, Jose**

- ♦ Gastroenterology Department
- ♦ Clinical Hospital of Santiago de Compostela

**Dr. López Baena, José Angel**

- ♦ General Surgery Department
- ♦ Gregorio Marañón University Hospital, Madrid

**Dr. López López, Carlos**

- ♦ Medical Oncology Department
- ♦ Marqués de Valdecilla University Hospital

**Dr. López López, Rafael**

- ♦ Head of the Medical Oncology Department
- ♦ Santiago de Compostela University Hospital Complex
- ♦ Translational Medical Oncology Group Health Research Institute

**Dr. Maldonado, Antonio**

- ♦ Head of the Nuclear Medicine Department and Molecular Imaging
- ♦ Quironsalud University Hospital of Madrid

**Dr. Maroto Castellanos, Maite**

- ♦ Gastroenterology Department
- ♦ Rey Juan Carlos University Hospital of Madrid

**Dr. Paramio Gonzalez, Jesús**

- ♦ CIEMAT Molecular Oncology Unit
- ♦ 12 de Octubre Research Institute of Madrid

**Dr. Pardo Sanchez, Fernando**

- ♦ General Surgery Department
- ♦ Navarra University Clinic

**Dr. Pazo Cid, Roberto A.**

- ♦ Medical Oncology Service
- ♦ Miguel Servet University Hospital of Zaragoza

**Dr. Perez Roldan, Francisco**

- ♦ Gastroenterology Department
- ♦ La Mancha-Centro Hospital Complex of Alcázar de San Juan

**Dr. Poves Prim, Ignasi**

- ♦ General Surgery Department
- ♦ Del Mar University Hospital, Barcelona



**Dr. Ramírez Merino, Natalia**

- ♦ Oncology Service
- ♦ IMO Group Madrid

**Dr. Ramos, Emilio**

- ♦ Head of the General Surgery Department
- ♦ Bellvitge University Hospital, Barcelona

**Dr. Rotellar Sastre, Fernando**

- ♦ General Surgery Department
- ♦ Navarra University Clinic

**Dr. Rueda Fernández, Daniel**

- ♦ Research Unit
- ♦ 12 de Octubre University Hospital of Madrid

**Dr. Santoyo, Julio**

- ♦ Head of the General Surgery Services
- ♦ Carlos Haya Regional Hospital, Málaga

**Dr. Segura Huerta, Angel Agustin**

- ♦ Medical Oncology Department
- ♦ La Fe University and Polytechnica Hospital, Valencia

**Dr. Senosiain Lalastra, Carla**

- ♦ Gastroenterology Department
- ♦ Ramón y Cajal Hospital of Madrid

**Dr. Valdivieso Lopez, Andrés**

- ♦ Head of the General and Digestive System Surgery Department
- ♦ Cruces University Hospital, Vizcaya

**Dr. Valladares Ayerbes, Manuel**

- ♦ UGC Medical Oncology.
- ♦ Virgen del Rocío University Hospital IBIS – Seville

**Dr. Vazquez Romero, Manuel**

- ♦ Gastroenterology Department
- ♦ San Carlos University Hospital, Madrid

**Dr. Velastegui Ordoñez, Alejandro**

- ♦ Medical Oncology Service
- ♦ Rey Juan Carlos University Hospital of Madrid

**Dr. Vila Costas, Juan**

- ♦ Head of the Endoscopy Department
- ♦ Navarra University Hospital



04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of training in daily medical practice, aware of the relevance of current training in order to be able to act with patients with pancreatic, biliary tract and liver tumors and committed to quality teaching through new educational technologies.





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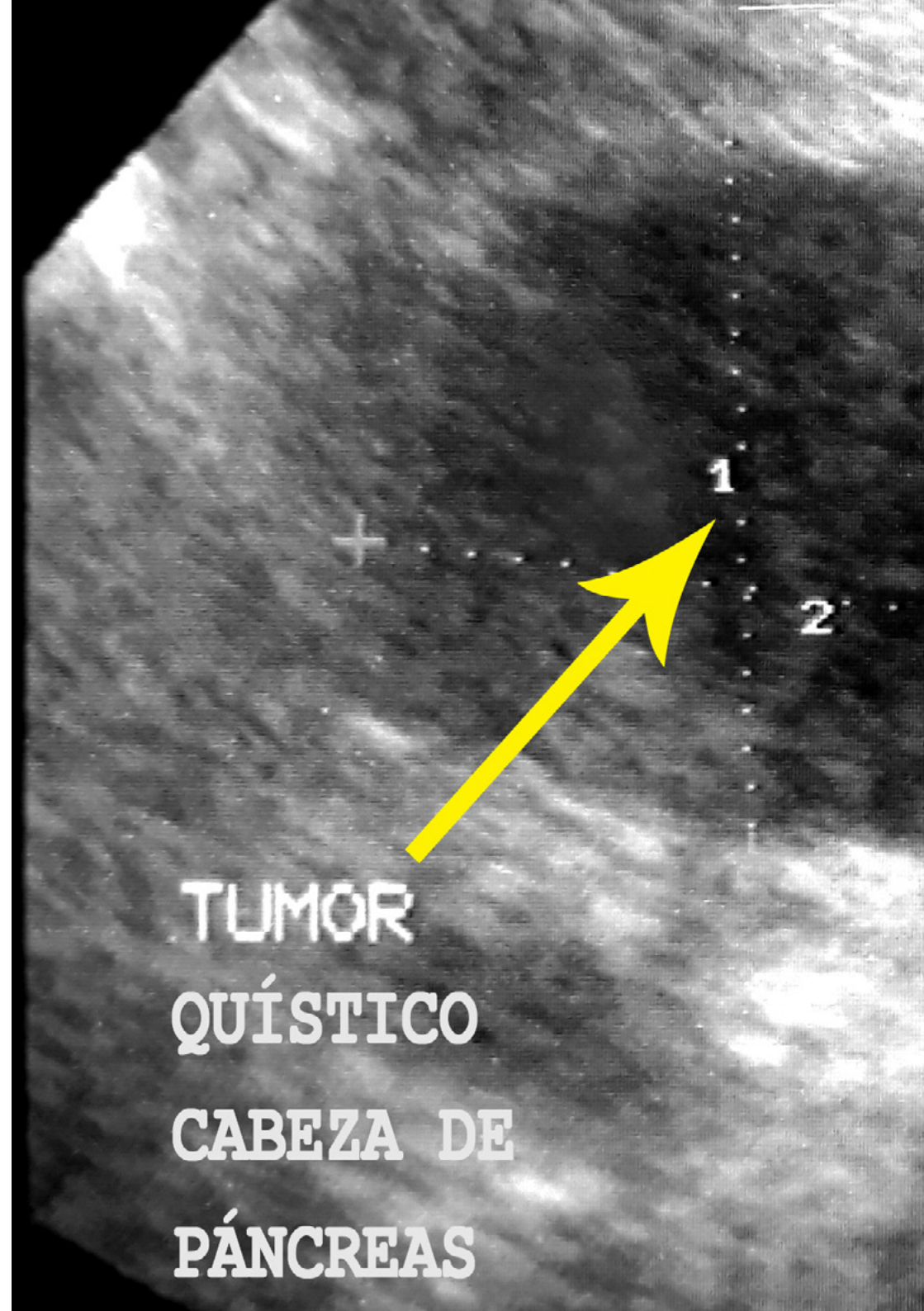
*This Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Pancreas, Biliary Tract and Hepatocarcinoma contains the most complete and up-to-date scientific program on the market”*

## Module 1. Molecular Biology and Translational Oncology

- 1.1. Molecular Mechanisms of Cancer
- 1.2. Tumor Immunology: Basis of Cancer Immunotherapy
- 1.3. Microenvironment Reprogramming in Digestive Tumors
- 1.4. Role of the Biobank in Clinical Research
- 1.5. Understanding the New Technology: Next Generation Sequence (NGS) in Clinical Practice.
- 1.6. Liquid Biopsies: Fashion or Future?
- 1.7. Update on Molecular Markers for Treatment Decisions in Gastrointestinal Malignancies
- 1.8. Do Molecular and Immunological Classifications Have Clinical Implications in 2017?

## Module 2. Pancreatic Cancer, Bile Duct Tumors and Hepatocarcinoma

- 2.1. Pancreatic Cancer
  - 2.1.1. Epidemiology, Risk Factors and Diagnosis of Pancreatic Cancer
  - 2.1.2. Use of Endoscopic Retrograde Cholangiopancreatography (ERCP) in Patients with Pancreatic Masses and Bile Duct Obstruction
  - 2.1.3. Use of Endoscopic Ultrasonography (EUS) in Patients with Pancreatic Cancer or Pancreatic Masses
  - 2.1.4. Endosonographic Cholangiopancreatography (CEPEUS) in Pancreatic Masses and Bile Duct Obstruction
  - 2.1.5. Diagnostic Modalities to Define the Resectability of Pancreatic Cancer (CT, EUS, MRI)
  - 2.1.6. Clinical Impact of 18F-FDG PET/CT in the Therapeutic Management of Patients with Pancreatic Cancer
  - 2.1.7. Borderline Resectable Pancreatic Cancer
  - 2.1.8. Laparoscopic Distal Pancreatectomy: Indications and Technique
  - 2.1.9. Cephalic Pylorus-Sparing Duodenopancreatectomy Versus Whipple in Pancreatic Cancer
  - 2.1.10. Surgical Treatment of Ampulomas
  - 2.1.11. Adjuvant and Neoadjuvant Chemotherapy Treatment for Pancreatic Cancer
  - 2.1.12. Adjuvant and Neoadjuvant Radiotherapy Treatment for Pancreatic Cancer
  - 2.1.13. Advances in the Treatment of Patients with Metastatic Pancreatic Cancer
  - 2.1.14. Familial and Hereditary Pancreatic Cancer Screening
  - 2.1.15. Cystic Lesions of the Pancreas of Neoplastic Origin
  - 2.1.16. Surgery of Cystic Tumors of the Pancreas



- 2.2. Cholangiocarcinoma and Gallbladder Cancer
  - 2.2.1. Epidemiology, Risk Factors and Diagnosis of Cholangiocarcinoma and Gallbladder Cancer
  - 2.2.2. What to do With a Cholangiocarcinoma?
  - 2.2.3. Advances in the Treatment of Patients with Cholangiocarcinoma and Metastatic Gallbladder Cancer
- 2.3. Hepatocellular Carcinoma.
  - 2.3.1. Epidemiology, Risk Factors and Diagnoses for Hepatocellular Carcinoma
  - 2.3.2. Staging and Treatment of Hepatocellular Carcinoma
  - 2.3.3. Resective Treatment Versus Liver Transplantation in Hepatocellular Carcinoma
  - 2.3.4. Locally Advanced Disease With Vascular Involvement: Local Versus Systemic Therapy?
  - 2.3.5. Biliary Drainage in Biliary Cancers
  - 2.3.6. First and Second Line of Systemic Therapy in Hepatocellular Carcinoma
  - 2.3.7. Recurrence of Hepatocellular Carcinoma After Transplantation



*A unique, key, and decisive  
Training experience to boost  
your professional development”*

05

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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.



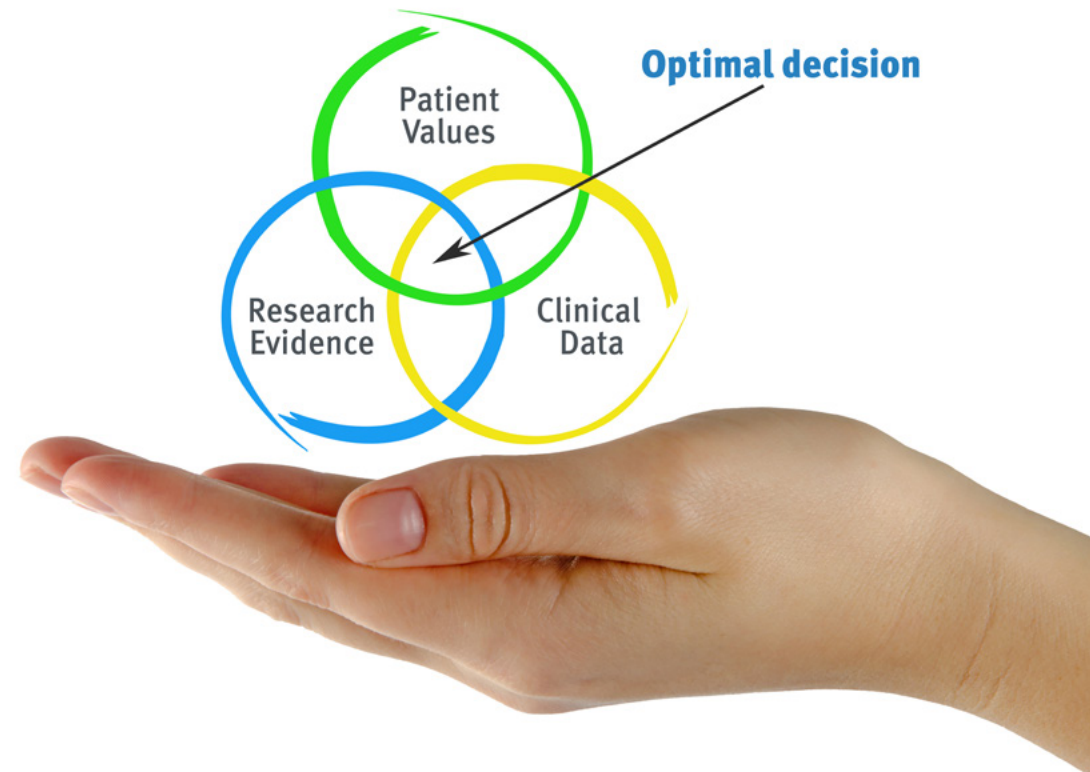
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*Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization”*

## At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, 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 can 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 potential 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 professional medical 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 grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the 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.



## Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.

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



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

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



In this program you will have access to the best educational material, prepared with you in mind:



### Study Material

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

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



### Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



### Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





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

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through 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 your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



#### Classes

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

Learning from an expert strengthens knowledge and memory, and generates confidence in our difficult future decisions.



#### Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06

# Certificate

The Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Pancreas, Biliary Tract and Hepatocarcinoma guarantees you, in addition to the most accurate and up-to-date training, access to a Postgraduate Diploma issued by TECH Global University.





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*Successfully complete this training and receive your university degree without travel or laborious paperwork”*

This private qualification will allow you to obtain a **Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Pancreas, Biliary Tract and Hepatocarcinoma** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra (**official bulletin**). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Diagnosis and Treatment of Tumors of the Pancreas, Biliary Tract and Hepatocarcinoma**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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

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institutions technology learning

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**tech** global  
university

## Postgraduate Diploma

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