

# Professional Master's Degree Oncologic Endoscopy





## Professional Master's Degree Oncologic Endoscopy

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Accreditation: 60 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/professional-master-degree/master-oncologic-endoscopy](http://www.techtute.com/us/medicine/professional-master-degree/master-oncologic-endoscopy)

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# 01

# Introduction

The numerous advances in endoscopy in recent years have opened up an unparalleled framework in the fight against oncologic pathologies. With further development of image quality and better detection of colon lesions or small bowel conditions, specialists must incorporate recent discoveries in echoendoscopy, cholangioscopy and the use of artificial intelligence in oncologic diagnosis into their daily practice. This TECH program offers a complete update on the latest procedures in Oncologic Endoscopy, being very useful for the specialist to update their knowledge and continue to improve their techniques for diagnosis and treatment of patients with tumor pathologies.



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*TECH offers you the most complete program in Oncologic Endoscopy in the academic panorama, with the latest educational technology so that you can get the most out of the entire syllabus”*

The increasingly advanced knowledge of techniques such as submucosal endoscopic dissection or the improvement in the optical diagnosis of lesions thanks to chromoendoscopy and magnification have allowed specialist to have a greater mastery in the staging and treatment of lesions in the gastrointestinal tract.

TECH is aware of the importance of a comprehensive update on the latest developments and research for the medical specialist, so it has brought together in this degree a great teaching team with international experience in the management of the most complex oncological pathologies. With a particular focus on digestive system disorders, the specialist will find 10 complete teaching modules where they can continue to update their daily work methodology.

Thus, the syllabus reviews conditions such as Barrett's esophagus, gastric lymphomas, duodenal polyps, infiltrating colon neoplasms, pancreatic neuroendocrine tumors and other disorders of the digestive system from an innovative and rigorous perspective. It also includes the possible complications that may be encountered when approaching Oncologic Endoscopy and how to overcome them with the latest technological and theoretical advances.

In addition, knowing how difficult it is for the most demanding specialists to take this program, TECH offers it in a completely online format. This implies that there are no pre-set classes or schedules, being the specialist the ones who decide when, where and how to take it, even from the comfort of their own home. The contents are accessible 24 hours a day from any device with an internet connection, being the teaching adaptable to any type of personal or professional pace.

This **Professional Master's Degree in Oncologic Endoscopy** contains the most complete and up-to-date scientific program on the market. The most important features include:

- » ♦ The development of case studies presented by experts in Oncologic Endoscopy
- » ♦ 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
- » ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- » ♦ Its special emphasis on innovative methodologies
- » ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- » ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Take advantage of this online degree and update your knowledge in Oncologic Endoscopy without giving up your professional or personal activities"*

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*The most advanced endoscopy can be a challenge for the specialist who does not have an advanced and current mastery. Learn more about techniques such as enteroscopy or ERCP in this TECH program"*

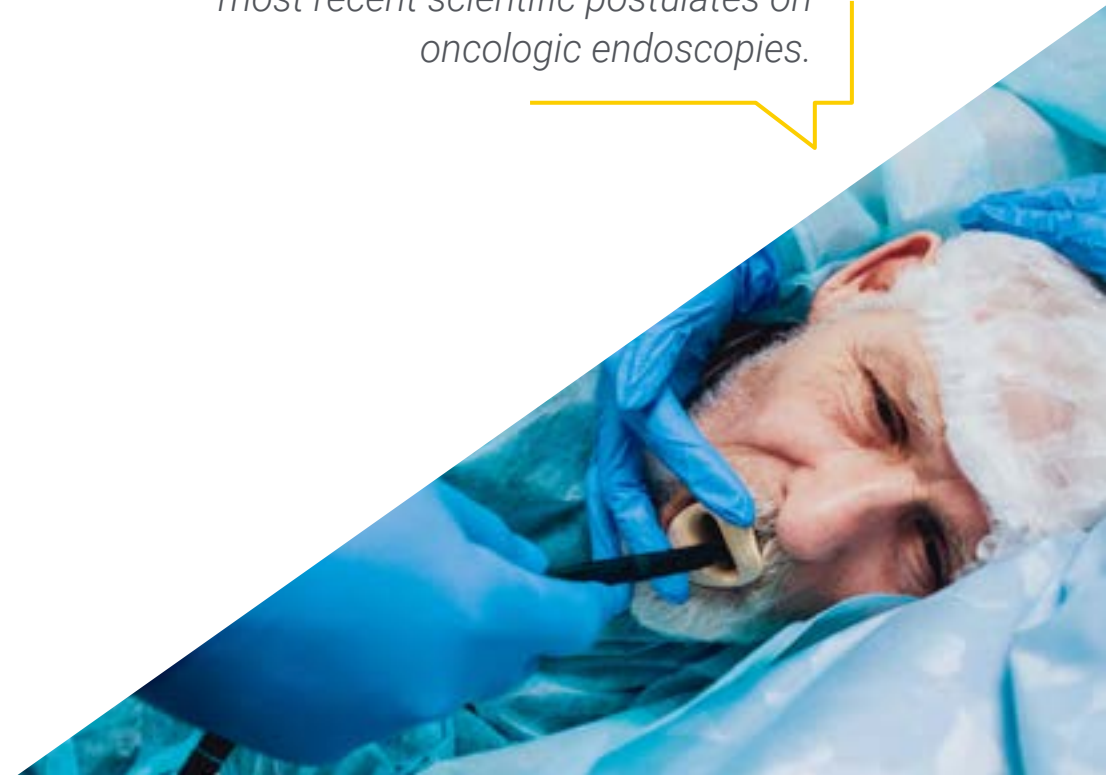
The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 programmed to train in real situations.

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

*Update your skills in the most modern resection techniques, including polypectomy, mucosectomy and endoscopic submucosal dissection.*

*Access to first class didactic material, with real clinical cases where you will be able to see in context the most recent scientific postulates on oncologic endoscopies.*



# 02

# Objectives

Since the most current advances in endoscopy require frequent renewal of knowledge in this field, this TECH degree offers medical specialists a complete review of all the most recent research and developments. Analyzing in each module the oncological complications of the esophagus, stomach, small intestine, pancreas or gallbladder, the specialist will be renewing all his knowledge in this field to continue offering the best possible health care.







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*TECH's objective is the same as yours. You will find the best academic health offer, supported by professional specialists who enrich the syllabus with their advanced experience in endoscopic treatments"*



## General Objectives

- » Develop the necessary medical knowledge on endoscopic techniques of gastrointestinal tumor pathology related to diagnosis, treatment and complications in order to improve the quality of patient care
- » Delve into the knowledge of the most commonly used endoscopic techniques in oncologic pathology in order to optimize their use in routine clinical practice

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*Your professional goal to remain the best specialist in your field is possible thanks to this advanced TECH program”*





## Specific Objectives

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### Module 1. Oncologic Endoscopy

- Deepen in the different modalities of optical diagnosis of lesions of the gastrointestinal tract, such as chromoendoscopy both with staining and virtual and magnification
- Develop the different quality criteria in endoscopy, as well as to optimize the management of antiplatelet and anticoagulant medication for our patients in order to perform endoscopic procedures
- Internalize the different morphological and anatomopathological classifications of gastrointestinal tract lesions and their implications for subsequent treatment

### Module 2. Echoendoscopy and ERCP

- Deepen in the techniques of echoendoscopy and ERCP as well as the necessary material to develop the procedures in the oncological field
- Manage the development of an ampulectomy having clear indications and contraindications of the technique
- Internalize different techniques performed by echoendoscopy that can improve the quality of life of the oncologic patient, such as celiac plexus neurolysis

### Module 3. Resection Techniques

- Master the knowledge of submucosal endoscopic dissection in order to strengthen the theoretical knowledge of a highly complex technique
- Control the different variants of mucosectomy that will allow us to obtain a higher success rate in the resection of the different lesions
- Deepen in the necessary material for the development of the technique which will allow choosing the most optimal material according to the lesion to treat
- Develop the different techniques that help us to facilitate submucosal endoscopic dissection
- Professionalize the endoscopic management of the different complications derived from

resection

### Module 4. Esophageal

- Optimize Give the optical diagnosis of the different superficial esophageal neoplasms
- Master the different treatments available for Barrett's esophagus and their indication
- Understand the role of endoscopy in the management of post-surgical complications such as suture dehiscence
- Control the different endoscopic treatments that can be performed depending on the lesions observed

### Module 5. Stomach

- Optimize the optimal diagnosis of the different gastric superficial neoplasms
- Deepen the different risk factors for the development of gastric cancer in order to be able to adequately follow up patients
- Internalize the different endoscopic treatments that can be performed depending on the lesions observed

### Module 6. Small Intestine

- Develop knowledge on the diagnosis of small bowel lesions
- Deepen in the use and indications of capsule endoscopy as well as the contraindications and management of complications derived from its use

- Know the different enteroscopy techniques
- Learn the indications for small bowel exploration according to the pathology of the patient

### **Module 7. Colon and Rectum**

- Develop the ability to stage patients according to their risk of developing colon and rectal cancer, and to know the different recommendations for follow-up
- Optimize the optimal diagnosis of superficial neoplasms of the colon and rectum
- Master the different endoscopic treatments that can be performed depending on the lesions observed
- Learn the role of endoscopy in the detection of advanced neoformations of the colon and rectum
- Delve into the different hereditary syndromes and the different endoscopic findings that they will present

### **Module 8. Pancreas**

- Deepen in the epidemiology, risk factors, clinical presentation of pancreatic adenocarcinoma
- Develop the new endoscopic techniques available for the palliative treatment of pancreatic cancer
- Know all benign and malignant pancreatic cystic lesions
- Learn more about other pancreatic tumors, their main characteristics, as well as their

diagnosis and prognosis

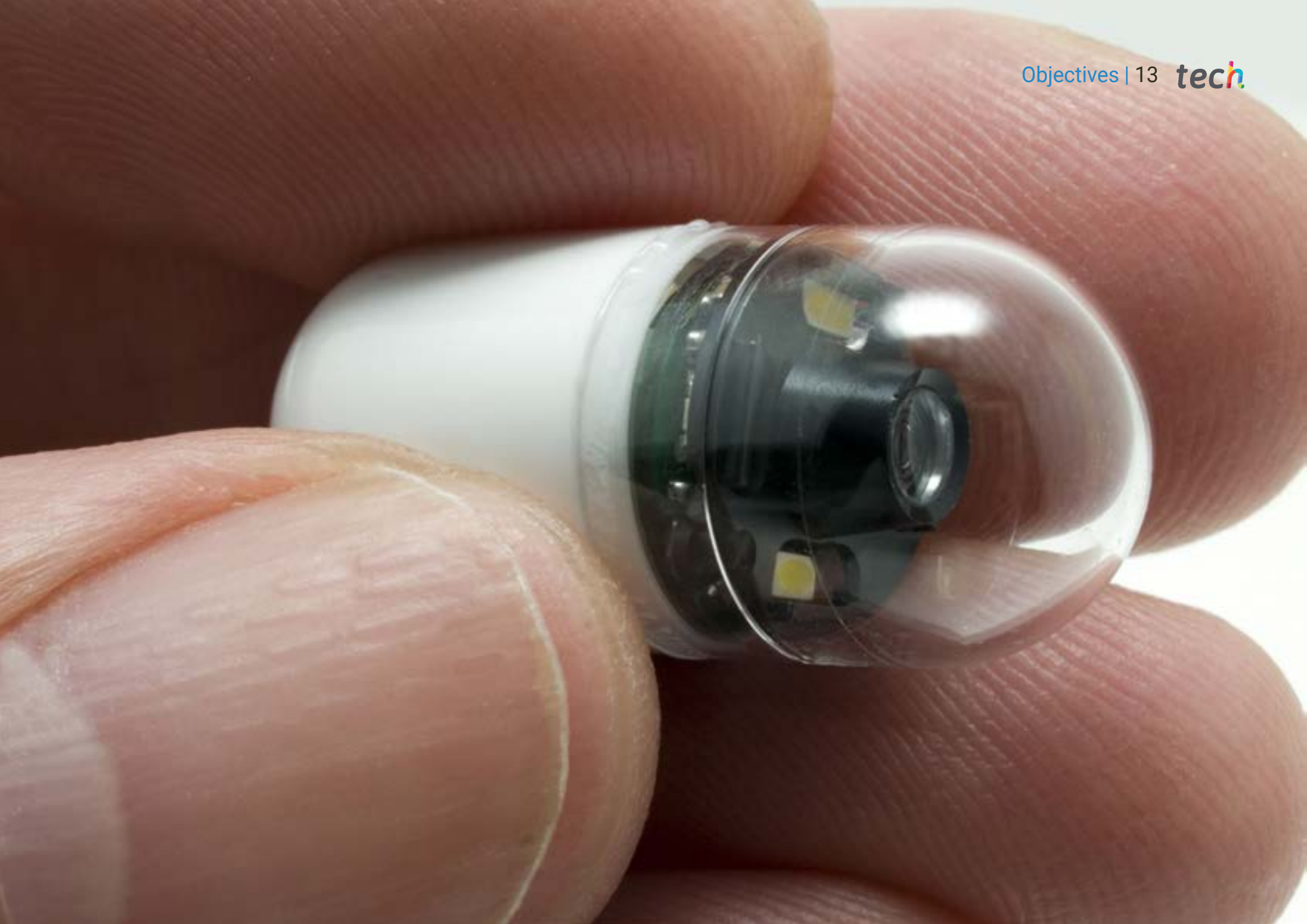
- Recognize the types of pancreatic duct stenosis and the endoscopic solutions that can be offered

### **Module 9. Gallbladder and Bile Duct**

- Internalize the types of cholangiocarcinomas, as well as the diagnosis and clinical presentation Staging of bile duct tumors with the aid of echoendoscopy
- Manage the complications that may arise in bile duct drainage, as well as endoscopic solutions. The alternatives to endoscopic drainage of the biliary tract will also be explained
- Master biliary cysts and their diagnosis, as well as their endoscopic management
- Recognize the risk factors that exist for the development of gallbladder cancer and the findings found on echoendoscopy

### **Module 10. Latest Advances in Endoscopy**

- Master the indications for Full Thickness Resection and the development of the technique
- Develop the role of radiofrequency both in biliary tract tumor pathology and in the treatment of actinic proctitis secondary to radiotherapy
- Discover the possibilities presented by artificial intelligence and its possible future use for injury detection



# 03 Skills

The competencies of a specialist in the area of Oncologic Endoscopy are vital, so TECH strives to update, enhance and raise to a new level of quality the skills and professional knowledge of medical specialists.

For this reason, TECH's quality assurance guarantees a transversal teaching in all the most recent scientific postulates of Oncologic Endoscopy.



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*Renewing your skills in endoscopic management is essential for you to remain at the medical forefront of your specialty"*



## General Skills

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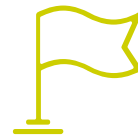
- » ♦ Optimize the endoscopic diagnosis of the different neoplastic lesions in the digestive tract in order to choose the most appropriate treatment
- » ♦ List the lesions that can be found along the entire gastrointestinal tract with the latest classifications used both morphologically and anatomopathologically
- » ♦ Update knowledge on the different mucosectomy techniques
- » ♦ Acquire new knowledge about tumors of the gastrointestinal tract

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*You will provide even more focused and precise health care after acquiring the innovative knowledge in this program”*







## Specific Skills

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- » ♦ Learn the role of echoendoscopy in the diagnosis and staging of pancreatic adenocarcinoma
- » ♦ Follow-up of pancreatic cystic lesions in order to avoid encountering an advanced pancreatic a scenario of an advanced pancreatic tumor
- » ♦ Control the endoscopic options available for the palliative treatment of gallbladder cancer
- » ♦ Solve complications that may arise post-endoscopy and even post-surgery
- » ♦ Manage the characterization of esophageal superficial tumor lesions
- » ♦ Control the contraindications presented by the capsule endoscopic study

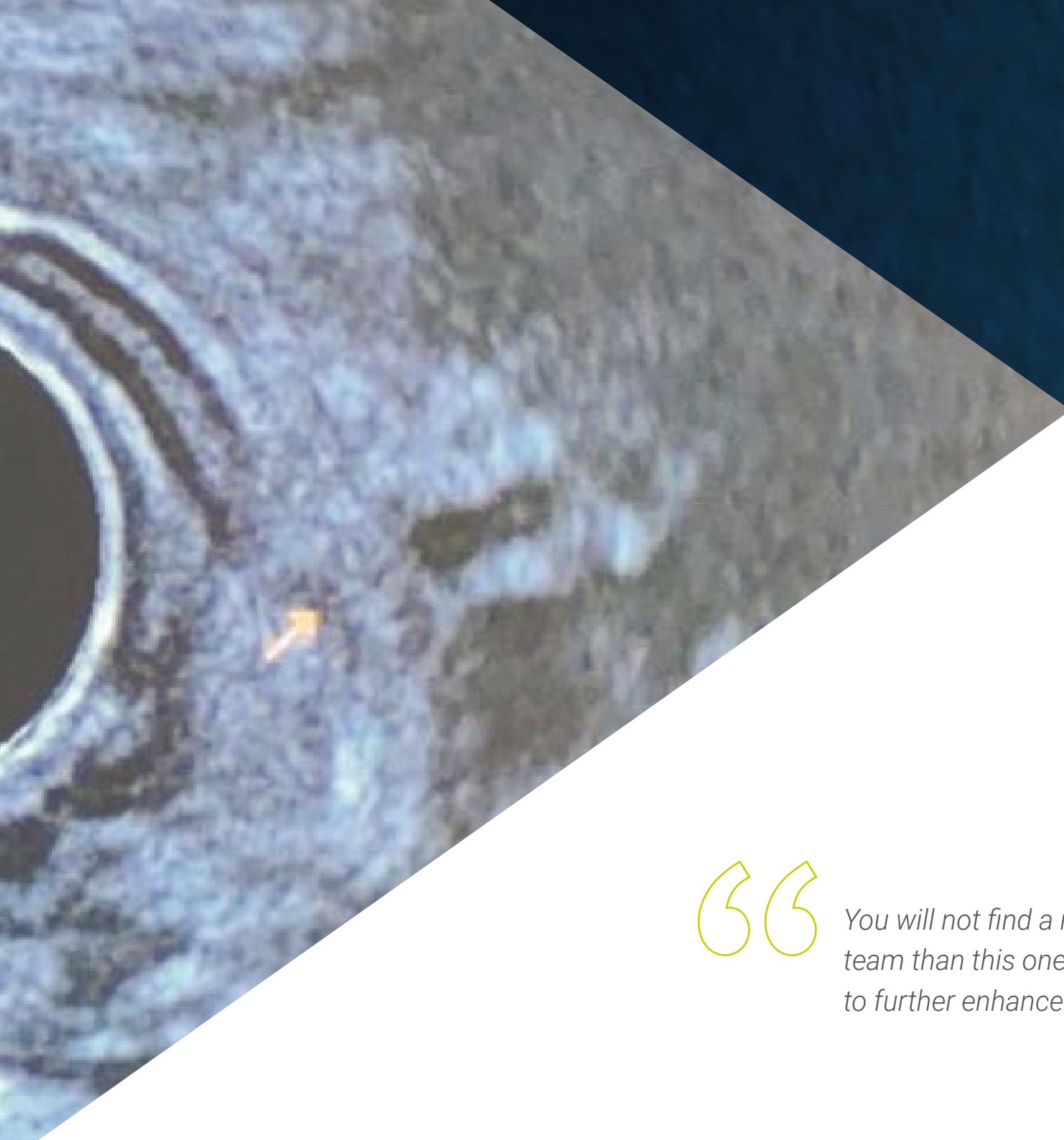


# 04

# Course Management

Given that recent advances in the field of endoscopy encompass numerous diagnostic techniques and oncological treatments, TECH has sought to bring together the best possible academic team so that the specialist has access to quality, rigorous teaching adapted to the highest standards. This implies that the teachers of this program have the most developed expertise in the field of oncology and digestive system, bringing a distinctive strength to all theoretical and practical contents.





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*You will not find a more specialized academic team than this one. Enroll today and start now to further enhance all your skills"*

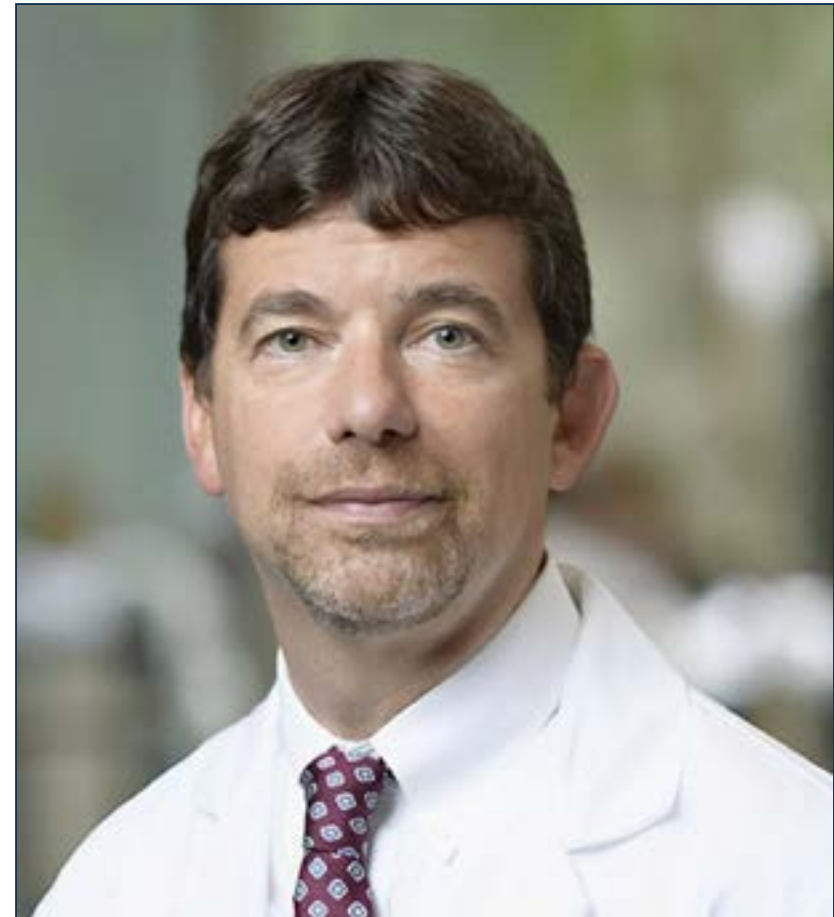
## International Guest Director

Considered one of the most prestigious gastroenterologists worldwide, Dr. Mark Schattner has accumulated several awards for his active research and clinical work. Among other awards, he has been distinguished in the Castle Connolly list of the best doctors in the United States for several years and the magazine and international portal of Top Doctors have named him as one of the main experts in the New York metropolitan area. He also received the Nobility in Science Award from the National Pancreas Foundation of the US.

In addition, he has focused his established professional career on the approach to different gastrointestinal tumors. In particular, he is a reference in the diagnosis and therapeutic intervention of Colon, Pancreatic and Esophageal Cancer. In addition, he has experience in the management of the most advanced tools for the development of Colonoscopies, Upper Digestive Endoscopies, Endoscopic Ultrasound, Cholangiopancreatography (CPRE), Polypectomy, among others. At the same time, his name appears as author and co-author in almost a hundred scientific articles, published in journals of first academic impact.

For two decades, this physician has been linked to Memorial Sloan Kettering Cancer Center, becoming Chief of the Gastroenterology, Hepatology and Nutrition Service. However, the expert also has training stays in other renowned institutions, such as the Weill Cornell Medical Center Hospital in New York City. In addition, he holds an official certification in Gastroenterology from the American Board of Internal Medicine.

As for his training, Dr. Schattner completed a bachelor's degree at Brown University and subsequently completed his fellowship at the University of Pennsylvania. He has also been involved in academic consulting at Weill Cornell Medical College, teaching innovative content on the treatment of Dysphagia, Ulcerative Colitis or Crohn's Disease and Fatty Liver Disease.



## Dr. Schattner, Mark

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- Chief of the Gastroenterology, Hepatology and Nutrition Service, Memorial Sloan
- Kettering Cancer Center, New York, United States
- Residency at Weill Cornell Medical Center Hospital, New York City
- Professor of Clinical Medicine at Weill Cornell Medical College
- M.D. from the University of Pennsylvania
- B.S. Brown University
- Board Certified in Gastroenterology, American Board of Internal Medicine
- Nobility in Science Award from the National Pancreas Foundation

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

## Management



### Dr. Honrubia López, Raúl

- Digestive System Specialist at the Infanta Sofia University Hospital
- Resident intern at University Hospital La Paz
- Degree in Medicine and Surgery from the University of Alcalá de Henares.
- PhD in Medicine and Surgery from the Autonomous University of Madrid.
- Stay at the Cancer Center, Keio University School of Medicine in Japan



### Dr. Bustamante Robles, Katherine Yelenia

- Medical specialist at Hermanas Hospitalarias de San Rafael Hospital
- Digestive System Specialist at the University Hospital La Paz
- Specialized training in echoendoscopy at the Hospital Clinic of Barcelona

## Professors

### Dr. Adán Merino, Luisa

- Attending Physician at University Hospital Infanta Leonor
- Secretary of the Digestive Tumors Committee of the Infanta Leonor Hospital
- Associate Professor of the Medicine. Department, Complutense University of Madrid
- Graduate in Medicine and Surgery from the University of Valladolid
- Doctorate in Medicine from the Complutense University of Madrid.

### Dr. Agudo Castillo, Belén

- Digestive System Specialist at the Puerta de Hierro University Hospital
- Endocoles clinical training instructor at the Puerta de Hierro Hospital
- Degree in Medicine from the Complutense University of Madrid
- Expert in Human Nutrition and Dietetics at the Antonio Nebrija University, European Institute of Business Studies

### Dr. Álvarez-Nava Torrego, María Teresa

- Specialist in the Endoscopy Unit of the Digestive System Service of the University Hospital 12 de Octubre
- Honorary Collaborator of the Department of Medicine of the Complutense University of Madrid
- Degree in Medicine from the University of Oviedo
- Master's Degree for specialization in endoscopic ultrasonography the University of Alcalá de Henares
- Digestive System Specialist at the University Hospital 12 de Octubre

### Dr. Arencibia Cerpa, Alberto

- Digestive System Specialist at La Paz University Hospital
- Digestive System Professors at the University Hospital La Paz
- Clinical Collaborator at Teachers Autonomous University of Madrid
- Degree in Medicine from the University of Alcalá
- Digestive System Specialist at the La Paz University Hospital

### Dr. Barquero Declara, David

- Specialist in Digestive and Hepatology at Hospital Sant Joan Despí Moisès Broggi and Hospital General de l'Hospitalet
- Digestology Attending in Endos Medicine
- Member of the Catalan Society of Medical and Surgical Endoscopy
- Degree in Medicine from the University of Barcelona
- D. in Internal Medicine from the Autonomous University of Barcelona

### Dr. Burgos García, Aurora

- Head of Section of the Digestive Endoscopy Unit of the University Hospital La Paz
- Digestive System Specialist at La Paz University Hospital
- Clinical teaching collaborator at the Autonomous University of Madrid
- Degree in Medicine and Surgery from the University of Extremadura
- Expert in Emergencies and Emergencies in Gastroenterology and Hepatology at the Distance University of Madrid
- Stay at the Keio University Hospital, Tokyo, Japan

**Dr. Burgueño Gómez, Beatriz**

- Digestive System Specialist at the Río Hortega University Hospital
- Degree in Medicine and Surgery from the University of Valladolid
- PhD in Research in Health Sciences, University of Valladolid

**Dr. Chavarría Herbozo, Carlos**

- Digestive System Specialist at the Rey Juan Carlos University Hospital
- Specialist physician at the Río Hortega University Hospital
- Undergraduate Degree in Medicine and Surgery at the Peruvian University Cayetano Heredia
- Doctorate in Medicine from the Autonomous University of Madrid
- Master's Degree in Advanced Digestive Endoscopy from the Catholic University of Murcia
- University Expert in Emergencies and Emergencies in Gastroenterology and Hepatology at the Distance University of Madrid

**Dr. Crivillén Anguita, Olivia**

- Specialist in Gastroenterology and Hepatology at the Infanta Leonor Hospital
- Specialist in the Hepatic Transplant Unit and Hepatic Intensive Care Unit at the Hospital Clinic
- Degree in Medicine and Surgery Generalities from the University of Alcalá de Henares

**Dr. Ciriano Hernández, Lucía**

- Digestive System Specialist at the Infanta Sofia University Hospital
- Digestive System Specialist at the Móstoles University Hospital

- Degree in Medicine and Surgery from the University of Alcalá
- ESD Observation Stay at Keio University Hospital and Cancer Center, Japan

**Dr. Comas Redondo, Carmen**

- Head of the Digestive System Service at the University Hospital Infanta Sofia, Madrid
- Family and Community Medicine Digestive Tract Resident Interns Tutor
- Clinical collaborating lecturer at the Faculty of Medicine of the Complutense University of Madrid
- Degree in Medicine and Surgery from the Complutense University of Madrid
- Master's Degree in Research Methodology: Designing and Statistics in Health Sciences at the Autonomous University of Barcelona

**Dr. De Benito Sanz, Marina**

- Specialist physician at the Río Hortega Hospital
- Graduate in Medicine and Surgery from the University of Valladolid

**Dr. De Frutos Rosa, Diego**

- Digestive System Specialist at the Puerta de Hierro University Hospital
- Digestive System specialist at Virgen del Mar and Sanitas La Moraleja Hospitals
- Degree in Medicine from the University of Valladolid
- Diploma in Statistics in Health Sciences at the Autonomous University of Barcelona
- Doctor in Medicine and Surgery at the Autonomous University of Madrid.



**Dr. Domínguez Rodríguez, María**

- Digestive System Specialist at the Infanta Sofia Hospital
- Digestive System specialist at Severo Ochoa and Gómez Ulla Hospitals
- Bachelor's Degree in Medicine and Surgery from the University of Santiago de Compostela

**Dr. Fernández de Castro, Cristina**

- Digestive System Specialist at the Infanta Sofia University Hospital
- Digestive System specialist at Severo Ochoa and San José Hospitals
- Degree in Medicine and Surgery from the University of Cantabria
- Master's Degree in Pediatric Hepatology at the CEU Cardenal Herrera University
- University Expert in Infectious and Autoimmune Hepatic Pathology at CEU Cardenal Herrera University

**Dr. Fernández Ruiz, Gloria**

- Specialist Doctor in Gastroenterology at the University Hospital La Paz
- Clinical teaching collaborator in the Digestive Service of the University Hospital La Paz
- Degree in Medicine and Surgery from the Complutense University of Madrid
- Stay at the Academic Medical Centrum Hospital of Amsterdam

**Dr. Fernández Martos, Rubén**

- Specialist Doctor in Gastroenterology at University Hospital La Paz
- Director of Patient Safety in the Digestive System Department of La Paz University Hospital
- Doctorate in Medicine from the Autonomous University of Madrid.
- » Specialty in Gastroenterology and Hepatology at the University Hospital La Paz

- Master's Degree in Advanced Digestive Endoscopy at the Catholic University of Valencia San Vicente Mártir

**Dr. García Mayor, Marian**

- Digestive System specialist at the Hospital Gómez Ulla and Hospital HM Montepíncipe
- Doctorate in Medicine from the Autonomous University of Madrid.
- Doctor in Gerontology at the University of Oviedo
- Master's Degree in Hepatology at Cardenal Herrera University

**Dr. García, Jose Santiago**

- Digestive System Specialist at the Puerta de Hierro University Hospital
- Honorary Professor at the University of Kent
- Degree in Medicine from the Complutense University of Madrid
- Research grant from Kobe University (Japan) in endoscopic submucosal dissection (ESD)

**Dr. González-Haba Ruiz, Mariano**

- Specialist in the Gastroenterology and Hepatology Department of the University Hospital Puerta de Hierro
- Member of the Interventional Endoscopy Unit of the University Hospital Puerta de Hierro
- Specialist in the Gastroenterology and Hepatology Service at MD Anderson Cancer Center
- Doctorate in Medicine from the Autonomous University of Madrid.

**Dr. González Redondo, Guillermo**

- Digestive System Specialist at the Infanta Sofia University Hospital

- Member of the interdisciplinary TNE committee at Hospital Infanta Sofía-Hospital Gregorio Marañón
- Honorary Collaborating Professor at the University of Valladolid
- Degree in Medicine and Surgery from the University of Valladolid
- Master's Degree in Pediatric Hepatology at the CEU Cardenal Herrera University
- Master's Degree in Health Sciences Research, Pharmacology, Neurobiology and Nutrition at the University of Valladolid

#### **Dr. Han, Eun-Jin**

- Digestive System Specialist In Medicine at the Infanta Sofia University Hospital
- Degree in Medicine and Surgery from the University National of Asunción
- Digestive System Specialist at the University Hospital La Paz
- Digestive System Specialist at the La Paz University Hospital

#### **Dr. Marín Serrano, Eva**

- Digestive System Specialist at the La Paz University Hospital
- President of the Spanish Association of Digestive Ultrasound
- Secretary of the Spanish Federation of Ultrasound Societies in Medicine and Biology
- Degree in Medicine and Surgery from the University of Granada
- Digestive System Specialist at the University Hospital La Paz
- Doctor of Medicine Cum Laude from the University of Cadiz
- Master's Degree in Clinical Management, Medical and Healthcare Management, CEU Cardenal Herrera University

#### **Dr. Mitsunaga, Yutaka**

- Specialist in Gastroenterology at Toranomom Hospital

- Specialist in Gastroenterology at the Yachiyo Medical Center of Tokyo Women's Medical University
- Physician certified in the Japanese Society of Internal Medicine
- Specialist in the Japanese Society of Gastrointestinal Endoscopy

#### **Dr. Manceñido Marcos, Noemí**

- Digestive System Specialist at the Infanta Sofia Hospital
- Member of the Inflammatory Bowel Disease Unit at the University Hospital La Paz
- Degree in Medicine and Surgery from the Autonomous University of Madrid
- Doctorate cum laude in Medicine from the Autonomous University of Madrid

#### **Dr. Muñoz Fernández de Legaria, Marta**

- Medical specialist in Anatomic Pathology at the General University Hospital Infanta Sofía
- Specialist in Anatomic Pathology at the University Hospital of Henares
- Degree in Medicine and Surgery from the University of Zaragoza
- PhD in Pathological Anatomy from the Complutense University of Madrid
- Master's Degree in Management, Medical and Healthcare Management from CEU Cardenal Herrera University
- Master's Degree in Oncological Pathology Update for Pathology by CEU Cardenal Herrera University

#### **Dr. Montiel Portillo, Eliana**

- Digestive System Specialist at the Infanta Sofia Hospital
- Member of the Pancreas Unit and of the Biliopancreatic Cancer Committee of the Hospital Infanta Sofia
- Bachelor of Medicine, cum laude, at the University of Zulia
- Internship in the Internal Medicine/Emergency Department at Noriega Trigo Hospital

- Digestive System Specialist at La Paz University Hospital

**Dr. Okamura, Takayuki**

- Specialist in Gastroenterology at Toranomom Hospital
- Specialist Doctor in Gastroenterology at the University Hospital Teikyo in Tokio
- Doctorate in Medicine from the University of Teikyo
- Physician certified in the Japanese Society of Internal Medicine
- Certified Specialist in the Japanese Society of Helicobacter Research

**Dr. Pacas Almendarez, Carlos**

- Medical specialist of monographic consultation of Hepatobiliary Diseases at the Hospital Infanta Sofia
- Digestive System Specialist at the University Hospital Infanta Sofia
- Digestive System Specialist at the General Hospital of Collado Villalba
- Degree in Medicine from the Spanish Ministry of Education and Science
- Doctor of Medicine, Faculty of Medical Sciences "Hospital Doctor Miguel Enriquez", Higher Institute of Medical Sciences of Havana, Cuba
- Doctor in Medicine and Surgery from the Faculty of Medicine of the University of El Salvador.
- Residence in Gastroenterology and Hepatology at the University Hospital La Paz
- Specialist in Gastroenterology and Hepatology from the Spanish Ministry of Education and Science

**Dr. Pajares Villarroya, Ramón**

- Digestive System Specialist at the Infanta Sofia Hospital
- Digestive System Specialist at the the La Paz University Hospital

- Degree in Medicine and Surgery from the Autonomous University of Madrid
- Digestive System Specialist

**Dr. Tavecchia Castro, Mariana**

- Digestive System Specialist at La Paz University Hospital
- Degree in Medicine and Surgery from the Complutense University of Madrid
- Specialty in Gastroenterology at the University Hospital La Paz

**Dr. Torres Vargas, Nurka Cristina**

- Medical specialist in the Digestive System Service of the Hospital Can Misses
- Specialist in the Digestive System Service at Policlínica Nuestra Señora del Rosario
- Undergraduate Degree in Medicine and Surgery at the Peruvian University Cayetano Heredia
- Postgraduate course in Digestive Diseases at the San Millán-San Millán Hospital Complex

**Dr. Yebra Carmona, Jorge**

- Digestive System Specialist at Móstoles University Hospital
- Degree in Medicine from the University of Alcalá
- Master's degree in Inflammatory Bowel Disease at the University of Granada
- Specialist training in Gastroenterology and Hepatology at University Hospital La Paz

# 05

## Structure and Content

TECH employs the most effective and recent pedagogical methodology in the entire educational panorama. Based on relearning, the specialist acquires the most current knowledge in Oncologic Endoscopy in a natural and progressive way, throughout the entire syllabus. In addition, the content is supported by a large amount of audiovisual material, including practical examples and real clinical cases that serve to alleviate the teaching load and provide a contextual boost to the specialist's study work.



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*Join the largest Spanish-language educational institution with a presence in 23 Spanish-speaking countries. By choosing TECH, you are choosing the highest quality healthcare content and curricula”*

## Module 1. Oncologic Endoscopy

- 1.1. Chromoendoscopy
  - 1.1.1. Magnification in Endoscopy
  - 1.1.2. Classification of Lesions in the Gastrointestinal Tract
  - 1.1.3. Quality Criteria in Endoscopy
  - 1.1.4. Sedation in Endoscopy
  - 1.1.5. Management of Antiplatelet and Anticoagulant Medication
  - 1.1.6. Electrosurgical Units
  - 1.1.7. Types of Prostheses used in Oncologic Endoscopy
- 1.2. Virtual Chromoendoscopy
  - 1.2.1. Virtual Chromoendoscopy
  - 1.2.2. Types of Virtual Chromoendoscopy

## Module 2. Echoendoscopy and ERCP

- 2.1. Types of Echoendoscopy Probes: Radial, Linear and Miniprobe Systems
- 2.2. Needle Types Used in Echoendoscopy-Guided FNA
- 2.3. Contrast in Echoendoscopy
- 2.4. Gastroenteroanastomosis in the Oncologic Patient Guided by EUS
- 2.5. Celiac Plexus Neurolysis, Alcohololysis and EUS-Guided Marker Placement
- 2.6. Equipment Used during ERCP: Cannulas, Sphincterotome and Balloons
- 2.7. ERCP Techniques: Pre-cutting, Rendez Vous, Cytology, Biopsy and Others
- 2.8. Ampullary Lesions Ampulectomy
- 2.9. Echoendoscopy and ERCP in Patients with Post-surgical Anatomical Alterations Indications and Contraindications
- 2.10. Complications and Their Management in EUS and ERCP

## Module 3. Resection Techniques

- 3.1. Polypectomy and Mucosectomy.
- 3.2. Material Used for Polypectomy and Mucosectomy
  - 3.2.1. Tweezers
  - 3.2.2. Cold and Diathermy Handles
  - 3.2.3. Programming of Electrosurgical Unit
- 3.3. Excision of Lesions According to Size
  - 3.3.1. Lesions Smaller than 20 mm
  - 3.3.2. Lesions Greater than 20 mm
- 3.4. Types of Endoscopic Mucosal Resection
- 3.5. Endoscopic submucosal Dissection General Indications
- 3.6. A Learning Curve
- 3.7. Material Used in Submucosal Endoscopic Dissection
  - 3.7.1. Types of Scalpels
  - 3.7.2. Solutions for Submucosal Injection
  - 3.7.3. Types of Caps
- 3.8. Traction Methods
- 3.9. Subsequent Management after Extirpation
  - 3.9.1. Fixation of the Lesion
  - 3.9.2. Criteria for Curative Resection
- 3.10. Management of Complications in Lesion Resection
  - 3.10.1. Bleeding
  - 3.10.2. Perforation
  - 3.10.3. Cicatricial Stenosis

## Module 4. Oesophageal

- 4.1. Risk Factors for the Development of Epidermoid Carcinoma and Adenocarcinoma
- 4.2. Barrett's Oesophagus
  - 4.2.1. Microbiological
  - 4.2.2. Monitoring
- 4.3. Treatment of Barrett's Esophagus
  - 4.3.1. Indications
  - 4.3.2. Resection of Visible Lesions
  - 4.3.3. Radiofrequency
- 4.4. Endoscopic Features of Superficial Tumor Lesions
- 4.5. Treatment of Superficial Esophageal Tumor Lesions
- 4.6. Staging of Esophageal Carcinoma, Role of Echoendoscopy
- 4.7. Endoscopic Treatment of Advanced Esophageal Carcinoma
  - 4.7.1. Esophageal Prosthesis
  - 4.7.2. Gastronomy
- 4.8. Management of Postoperative Complications
  - 4.8.1. Anastomotic Stenosis
  - 4.8.2. Suture Dehiscence
- 4.9. Submucosal Lesions, Diagnosis and Treatment

## Module 5. Stomach

- 5.1. Risk Factors for the Development of Gastric Cancer and Population Screening, Atrophic Gastritis with Metaplasia
- 5.2. Gastric Polyps
  - 5.2.1. Fundic Gland Polyps
  - 5.2.2. Hyperplastic Polyps
  - 5.2.3. Adenomatous Polyps
  - 5.2.4. Others
- 5.3. Treatment of Superficial Gastric Neoplasms
- 5.4. Endoscopic Features of Early Gastric Cancer
- 5.5. Staging Gastric Cancer, Role of Echoendoscopy
- 5.6. Endoscopic Management of Postoperative Complications
- 5.7. Gastric Subepithelial Lesions: GIST, Leiomyoma
- 5.8. Treatment of Gastric Submucosal Lesions
- 5.9. Gastric Carcinoid
- 5.10. Endoscopic Findings in Hereditary Syndromes
- 5.11. Gastric Lymphomas

## Module 6. Small Intestine

- 6.1. Types of Lesions in Small Intestine
- 6.2. Endoscopic Capsule
- 6.3. Capsule Endoscopic Contraindications and the Role of Agile Patency
- 6.4. Single-Balloon and Double-Balloon Enteroscopy
- 6.5. Spiral Enteroscopy
- 6.6. Alternative Diagnostic and Therapeutic Methods to Diagnostic Endoscopic Techniques
- 6.7. Endoscopic Treatment of Superficial Tumor Lesions
- 6.8. Management of Duodenal Polyps and Periampullary Lesions
- 6.9. Indications for Small Bowel Screening in Patients with Hereditary Syndromes
- 6.10. Intestinal Lymphoma

## Module 7. Colon and Rectum

- 7.1. Risk Factors for the Development of Colorectal Cancer
- 7.2. Population Screening
- 7.3. Adenomatous Polyps of the Colon
- 7.4. Serrated Polyps
- 7.5. Endoscopic Characterization of Superficial Neoplasms of the Colon, Risk of Submucosal Invasion
- 7.6. Treatment of Superficial Neoplasms
- 7.7. Endoscopic Follow-up after Removal of Superficial Neoplasms
- 7.8. Role of Endoscopy in the Finding of Infiltrating Colon Neoplasms
  - 7.8.1. Marking of Lesions
  - 7.8.2. Use of Prosthesis
- 7.9. Endoscopic Management of Complications in Rectal Surgery
  - 7.9.1. Stenosis
  - 7.9.2. Suture Dehiscence
- 7.10. Screening for Colon Cancer in Inflammatory Bowel Disease
- 7.11. Submucosal Lesions of the Colon and Rectum
- 7.12. Endoscopic Findings in Patients with Hereditary Syndromes

## Module 8. Pancreas

- 8.1. Adenocarcinoma of the Pancreas
  - 8.1.1. Epidemiology, Clinical Presentation, and Risk Factors
  - 8.1.2. Diagnosis and Staging of the Disease: The Role of Echoendoscopy
- 8.2. Endoscopic Management (ERCP/USE) of Bile Duct Obstruction in Pancreatic Cancer
- 8.3. Endoscopic Management of Duodenal Stenosis in Pancreatic Cancer (Gastrojejunal Shunt and Prosthesis)
- 8.4. Echoendoscopy-Guided Treatment Options in Pancreatic Cancer
- 8.5. Pancreatic Cancer Screening by Echoendoscopy
- 8.6. Pancreatic Neuroendocrine Tumors (pNET)
  - 8.6.1. Epidemiological Data, Classification, and Risk Factors
  - 8.6.2. Role of Echoendoscopy in Diagnosis, Staging and Management
  - 8.6.3. Endoscopic treatment
- 8.7. Other Pancreatic Tumors: Inflammatory Mass, Pseudopapillary Neoplasm, Lymphoma
- 8.8. Pancreatic Cystic Tumors
  - 8.8.1. Differential Diagnosis
  - 8.8.2. Serous, Mucinous Cystadenoma and TPMI
- 8.9. Role of Endoscopy (EUS and ERCP) in the Diagnosis and Follow-up of Pancreatic Cystic Lesions
- 8.10. EUS-Guided Treatment of Pancreatic Cystic Lesions

## Module 9. Gallbladder and Bile Duct

- 9.1. Cholangiocarcinoma
  - 9.1.1. Epidemiology and Risk Factors
- 9.2. Intrahepatic Cholangiocarcinoma
  - 9.2.1. Subtypes and Diagnosis
- 9.3. Extrahepatic cholangiocarcinoma
  - 9.3.1. Clinical Introduction and Diagnosis
- 9.4. Staging of Biliary Tract Tumors, Role of Echoendoscopy
- 9.5. Endoscopic Drainage of the Bile Duct, Role of ERCP
- 9.6. Endoscopic Complications in Bile Duct Drainage
- 9.7. Alternatives to Endoscopic Biliary Drainage by ERCP
- 9.8. Cystic Lesions of the Biliary Tract
  - 9.8.1. Types of Biliary Cysts
  - 9.8.2. Diagnosis and Treatment of Biliary Cystic Lesions
- 9.9. Gallbladder Carcinoma
  - 9.9.1. Risk Factors
  - 9.9.2. Ultrasound Endoscopy as a Diagnostic Tool

## Module 10. Latest Advances in Endoscopy

- 10.1. *Full-Thickness Resection*
- 10.2. Radiofrequency of Biliary Tract Tumors
- 10.3. Cholangioscopy, Use in Oncologic Pathology
- 10.4. Artificial Intelligence to Enhance Diagnosis of Lesions during Endoscopy
- 10.5. Endoscopic Suture Systems, Not Only for Bariatric Endoscopy
- 10.6. Panendoscopy, Use of Colonic Capsule When Colonoscopy Could Not Be Complete
- 10.7. Rectal Radiofrequency in Actinic Proctitis after Radiotherapy
- 10.8. Excision of Lesions Using a Combination of Surgical and Endoscopic Techniques





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*This is your opportunity to give your resume a boost in academic quality. Think no more and enroll with us”*

# 06

# 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.

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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.



# 07 Certificate

The Professional Master's Degree in Oncologic Endoscopy guarantees, in addition to the most rigorous and up-to-date training, access to a Professional Master's Degree issued by TECH Global University.





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

This program will allow you to obtain your **Professional Master's Degree diploma in Oncologic Endoscopy** 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: **Professional Master's Degree in Oncologic Endoscopy**

Modality: **online**

Duration: **12 months**

Accreditation: **60 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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university

## Professional Master's Degree

### Oncologic Endoscopy

- » Modality: **online**
- » Duration: **12 months**
- » Certificate: **TECH Global University**
- » Accreditation: **60 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

# Professional Master's Degree Oncologic Endoscopy

