

# Professional Master's Degree

Update on General and  
Digestive System Surgery



## Professional Master's Degree

### Update on General and Digestive System Surgery

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

Website: [www.techtute.com/us/medicina/master/master-actualizacion-cirugia-general-aparato-digestivo](http://www.techtute.com/us/medicina/master/master-actualizacion-cirugia-general-aparato-digestivo)

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# 01

# Introduction

Modern surgery is advancing at an incredible pace. Techniques and procedures are constantly changing and advancing, but the speed at which these changes take place, and the amount of scientific documentation that is published weekly make it almost impossible for the surgeon to keep up to date with their daily practice. With this academic program, TECH offers surgeons the opportunity to get back to the forefront with the most advanced educational technology available today, capable of adapting the process to the specialist's needs with a high degree of versatility.





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*Scientific advances are constantly improving the quality of surgical practice. Therefore, keeping up to date is key to providing better care to your patients”*

In recent years, General and Digestive System Surgery has experienced remarkable developments that are largely the result of overcoming increasingly complex challenges associated with surgical practice, especially in the areas of solid organ transplantation, oncological surgery, emergency surgery, telesurgery, and robotic surgery. In these fields, technological and computer innovations, the use of biomaterials, and techniques such as radiodiagnosis, have completely changed the landscape.

In this sense, new developments in the surgical field oblige specialists to update their knowledge, to study the available evidence, and to develop new skills that allow them to keep up with technological and scientific advances that subsequently improve the health of patients.

Therefore, this Professional Master's Degree in Update in General and Digestive System Surgery allows specialists to access this knowledge simply, while adapting the process preparation to their personal and professional needs.

This **Professional Master's Degree in Update on General and Digestive System Surgery** contains the most complete and up-to-date scientific program on the market.

It's most outstanding features are:

- ♦ Development of more than 80 clinical cases, recorded with POV (*Point Of View*) systems from different angles, presented by experts in surgery and other specialties. 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.
- ♦ Presentation of practical workshops on procedures and techniques.
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ♦ Action protocols and clinical practice guidelines, which cover the most important latest developments in this specialist area.
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- ♦ Special emphasis on test-based medicine and research methodologies in the surgical process.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Get back to the forefront as a professional in general surgery thanks to a program designed entirely to update your knowledge"*

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*This Professional Master's Degree is the best investment you can make for two reasons: you will obtain a degree by TECH Global University, and you will acquire the best and most up-to-date training in General and Digestive System Surgery”*

The teaching staff includes a team of healthcare professionals, who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

The multimedia content developed with the latest educational technology will provide the surgeon 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 professional must try to solve the different professional practice situations that arise throughout the program. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of general and digestive system surgery with extensive teaching experience.

*It is the best academic program on the market in this field, also because of its price-quality ratio.*

*Improve your surgical skills with this specialized training and become a sought-after professional.*



# 02 Objectives

This Professional Master's Degree of university specialization is aimed at updating the knowledge of professionals in General and Digestive System Surgery. This very complete program offers a unique opportunity to update the student's scientific and technical knowledge. Additionally, it will provide them with the necessary professional expertise, as well as the abilities and skills to become an expert in the field. The following is a detailed breakdown of the objectives that the teaching team has set for the delivery of this enriching didactic experience.







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*This training will increase your confidence in surgical practice, and will help you to continue to grow professionally"*

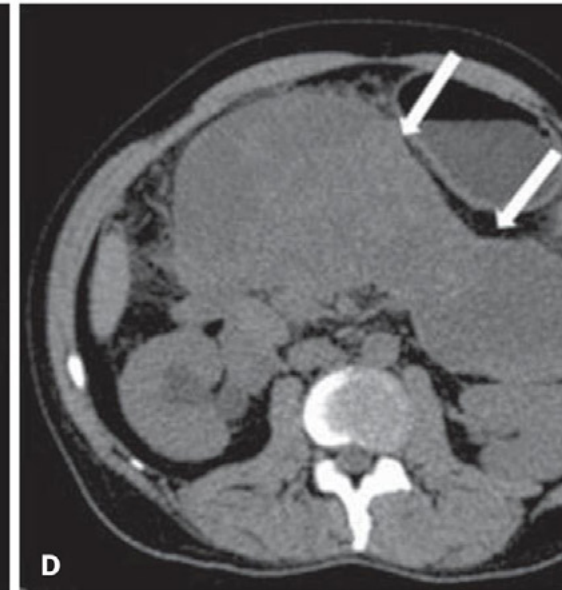
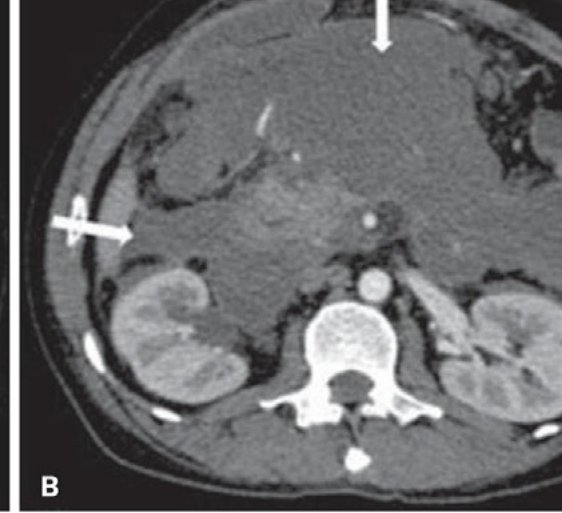
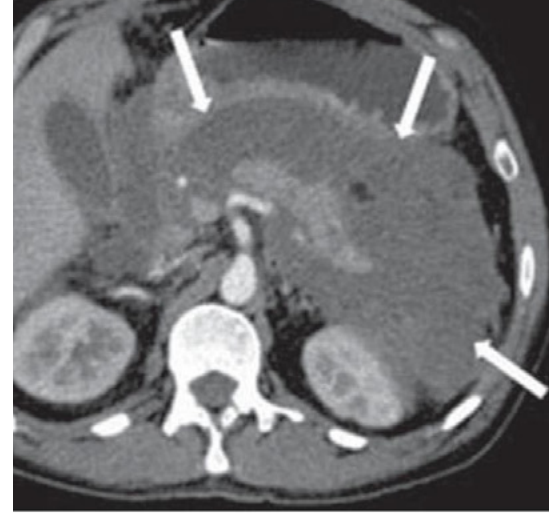


### General Objective

- Update knowledge of the most frequent procedures and techniques used in routine clinical practice in general and digestive system surgery, providing answers to the specialist's most common questions.



*Acquire the necessary skills to specialize in this field and give a boost to your profession"*





## Specific Objectives

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### Module 1. Oesophagogastric Surgery

- ♦ Define the rationale, indications, limitations, and cost-effectiveness of esophagogastric surgical techniques and alternative treatments.
- ♦ Establish the differences between diaphragmatic hernias and sliding hiatal hernias
- ♦ Define the treatment of achalasia and its endoscopic and surgical therapeutic management
- ♦ Address the management of benign esophagogastric tumors
- ♦ Establish the approach and treatment plan for esophageal diverticula
- ♦ Explain the practical management of patients with esophagogastric cancer

### Module 2. Bariatric Surgery

- ♦ Describe the principles and processes of bariatric surgery
- ♦ Explain the gastric sleeve process within restrictive bariatric surgery
- ♦ Point out the importance of gastric bypass for the treatment of morbid obesity and describe the malabsorptive-restrictive surgical process
- ♦ Describe the indications of other bariatric techniques such as elastic band or duodenal switch

### Module 3. Bile Duct Surgery

- ♦ Address the surgical treatment of cholelithiasis
- ♦ Approach the surgical treatment of cholestatic diseases and tumors of the bile duct and gallbladder
- ♦ Explain the surgical process in the treatment of cysts and primary sclerosing cholangitis
- ♦ Describe the surgical approach to gallbladder and bile duct tumors

### Module 4. Liver Surgery

- ♦ Define and characterize primary liver tumors and point out the applications of interventional radiology in liver lesions
- ♦ Address the treatment of liver metastases of colorectal and non-colorectal origin
- ♦ Describe the principles for selecting candidates for liver transplantation, the surgical basis of transplantation, and immunosuppressive drugs
- ♦ Explain the surgical approach to liver cysts and abscesses

### Module 5. Pancreatic and Spleen Surgery

- ♦ Establish the differences and characteristics of acute and chronic pancreatitis
- ♦ Analyze the surgical processes in treatment of pancreatic tumors and the anatomopathological considerations in pancreatic cancer
- ♦ Address the surgical management of neuroendocrine tumors
- ♦ Address the surgical management of cystic tumors of the pancreas

### Module 6. Colon Surgery

- ♦ Lay the foundations of medical oncology and radiotherapy in colon cancer
- ♦ Describe the principles of colon cancer surgery
- ♦ Establish the differential characteristics in the approach to right, left and transverse colon cancer

### Module 7. Rectal Surgery

- ♦ Describe the principles of rectal cancer surgery
- ♦ Describe the characteristics, similarities and differences in the abdominal, transanal and combined approaches in rectal cancer surgery
- ♦ Address the surgical management of rectal prolapse and rectocele
- ♦ Explain the surgical approach in the treatment of deep pelvic endometriosis

### Module 8. Anal Surgery

- Explain the surgical technique in the management of hemorrhoids
- Develop the surgical procedure in the treatment of fissures
- Address the surgical management of anal fistulas and abscesses
- Describe the surgical management of pilonidal sinus and hydrosadenitis
- Point out the indications of the surgical approach in the treatment of anal incontinence
- Indicate the importance of anal HPV in the incidence of anal intraepithelial neoplasia and anal squamous cell carcinoma

### Module 9. Inflammatory Bowel Disease

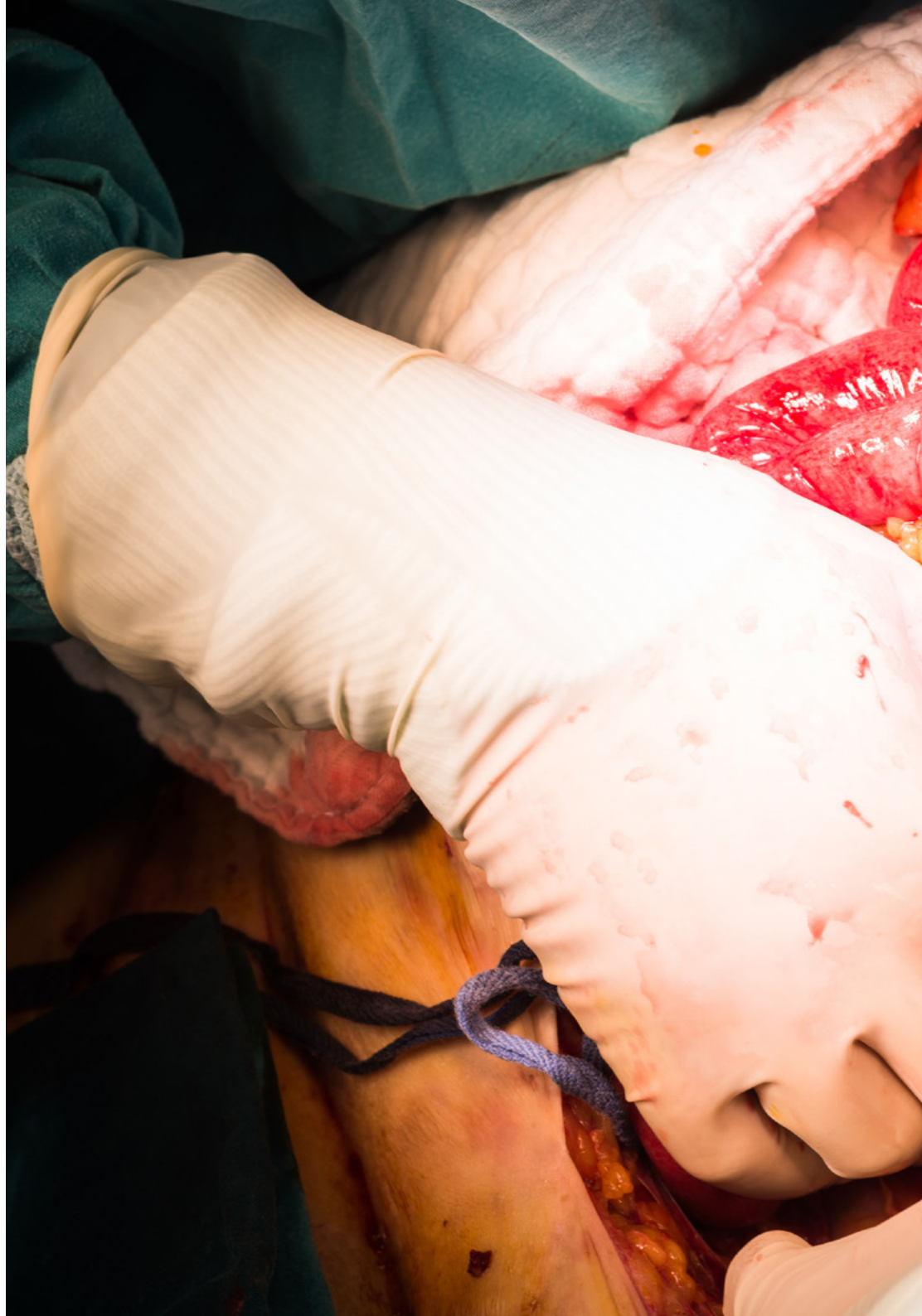
- Establish the principles of inflammatory bowel disease
- Address the surgical management of Crohns disease.
- Describe the surgical process of Ulcerative Colitis

### Module 10. Endocrine Surgery

- Describe the clinical features of thyroid surgery in the treatment of thyroid nodule and multinodular goiter, hyperthyroidism, and thyroid cancer.
- Address the surgical management of primary, secondary, and tertiary hyperparathyroidism
- Describe the features of the adrenal gland

### Module 11. Abdominal Wall Surgery

- Address the surgical management of open abdomen and evisceration
- Explain the surgical process in the treatment of eventrations
- Describe the surgical treatment of inguinal hernias





### **Module 12. Breast Surgery**

- ◆ Point out the principles of breast surgery
- ◆ Explain the indications and surgical characteristics, as well as the principles of breast cancer

### **Module 13. Peritoneal Carcinomatosis**

- ◆ Point out the principles of peritoneal carcinomatosis surgery
- ◆ Explain the indications and clinical features of peritoneal carcinomatosis surgery

### **Module 14. Digestive Surgery Emergencies**

- ◆ Address the management of general surgical procedures and techniques applied to patients in emergency situations due to upper and lower gastrointestinal bleeding
- ◆ Describe the general surgical procedures and techniques applied to patients in emergency situations for acute cholecystitis, cholangitis, appendicitis, and diverticulitis.
- ◆ Address the management of general surgical procedures and techniques applied to patients in emergency situations due to acute mesenteric ischemia

### **Module 15. Surgical Innovation**

- ◆ Describe innovations in general and digestive system surgery: in surgical learning, in surgical devices, in NOTES surgery, and in Cell Therapy and Surgery.
- ◆ Point out the role of Information and Communication Technologies applied to surgery
- ◆ Explain the indications and importance of robotic surgery
- ◆ Address the characteristics of financing, protection and innovation transfer in surgery.

# 03 Skills

After passing the assessments of the Professional Master's Degree in Update in General and Digestive System Surgery, the students will have acquired the necessary professional skills for quality, up-to-date medical practice based on the most recent scientific evidence. They will be able to deal with a wide range of conditions susceptible to surgical intervention, knowing at all times, with absolute precision, which protocols should be followed according to the medical condition in question.





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*With this program you will be able to master new diagnostic and therapeutic procedures in surgical patients"*



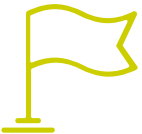
## General Skills

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- ♦ Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- ♦ Know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the field of study
- ♦ Integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments
- ♦ Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- ♦ Acquire study skills that will enable further study in a largely self-directed or autonomous manner
- ♦ Develop within the profession in terms of working with other health professionals, acquiring skills to work as a team.
- ♦ Recognize the need to maintain your professional skills and keep them up to date, with special emphasis on autonomous and continuous learning of new information.
- ♦ Develop the capacity for critical analysis and research in your professional field.







## Specific Skills

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- ♦ Point out the indications and limitations of gastroesophageal surgical techniques and alternative treatments
- ♦ Differentiate diaphragmatic hernias from sliding hiatal hernias
- ♦ Explain the approach to benign esophagogastric tumors and patients with gastroesophageal cancer
- ♦ Discover the therapeutic plan for esophageal diverticula
- ♦ Explain and point out the characteristics and indications of restrictive and mixed bariatric surgery, as well as other bariatric techniques.
- ♦ Develop the surgical procedure for cholestatic diseases and bile duct and gallbladder tumors
- ♦ Point out the applications of interventional radiology in liver lesions
- ♦ Select liver transplant candidates and describe the surgical basis of transplantation and the usefulness of immunosuppressive drugs
- ♦ Define the surgical principles in the management of pancreatic, neuroendocrine, and cystic tumors of the pancreas
- ♦ Point out the differences in the approach to acute and chronic pancreatitis
- ♦ Describe the role of medical and radiotherapy oncology in colon cancer and describe the principles of colon cancer surgery
- ♦ Point out the differences and similarities in the abdominal, transanal, and combined approach in rectal cancer surgery.
- ♦ Explain the different surgical techniques for anal surgery
- ♦ Explain the surgical principles in the management of Crohn's Disease and Ulcerative Colitis
- ♦ Describe thyroid, parathyroid, and adrenal gland surgery.
- ♦ Explain the management of open abdomen and evisceration, inguino-crural hernias, and eventrations
- ♦ Point out the indications and procedures in surgery for peritoneal carcinomatosis
- ♦ Define the general surgical procedures and techniques applied to patients in digestive emergencies
- ♦ Identify innovations in the field of general and digestive system surgery and the role of Information and Communication Technologies applied to surgery
- ♦ Use web resources and ICT for personal and professional use.
- ♦ Perform documentation searches through the electronic tools available on the web in order to locate quality information
- ♦ Carry out a critical and in-depth study on a topic of scientific interest in the field of general surgery and digestive system
- ♦ Communicate result findings after having analyzed, evaluated, and synthesized the data
- ♦ Identify the most important documentary databases in the health sciences in order to perform adequate and reliable searches
- ♦ Describe the process of critical reading of scientific publications
- ♦ Write material to be published or presented at conferences

# 04

# Course Management

The creation of the materials is the product of the joint work of a team of reference professionals in the surgical area who carry out their professional activity in reference hospitals. As such, each of them has contributed all the experience gained during the course of their respective medical functions throughout their careers to the program's academic itinerary. However, one of the most notable features of this academic program is the number of professors, approximately 80, who guarantee an education as precise as their scalpels, as each one will teach very specific parts of the syllabus.





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*Learn the latest advances in general and digestive system surgery from leading professionals”.*

## Management



### Dr. Díaz Domínguez, Joaquín

In Memoriam

"Dr. Joaquín Díaz Domínguez has been at the head of this program in its numerous editions, leading the teaching team, collaborating intensively, and going out of his way to continue spreading his knowledge of medicine and surgery

to everyone that has had the opportunity to participate in this program.

From Tech University we want to pay a heartfelt tribute full of affection and gratitude for his dedication and commitment during these years, always lending himself to others and sharing his experience unconditionally, to contribute to continue saving lives and caring for people who have needed it most.

Thank you very much, Joaquín



### Dr. Pascual Migueláñez, Isabel

- ♦ Physician in Digestive and General Surgery at La Paz University Hospital Madrid
- ♦ Doctor at the Colorectal Surgery Unit of La Paz University Hospital Madrid
- ♦ Specialist of the General Surgery and Digestive System Area at Infanta Sofía University Hospital San Sebastián de los Reyes, Madrid.
- ♦ Physician in the Hepatobiliopancreatic Surgery Unit at the Infanta Sofía University Hospital San Sebastián

de los Reyes, Madrid

- ♦ Member of the Madrid Association of Surgeons. Spain
- ♦ Degree in Medicine from the Autonomous University Madrid
- ♦ Doctor from the Autonomous University of Madrid



### **Dr. Trébol López, Jacobo**

- ♦ Specialist in Digestive and General Surgery at La Paz University Hospital
- ♦ Specialist in Digestive and General Surgery at the Salamanca University Welfare Complex
- ♦ Specialist in Digestive and General Surgery at the Ávila Welfare Complex
- ♦ Researcher of the CANC-06 Group (Surgery and Cancer) of the Cancer Area of the Institute of Biomedical Research of Salamanca.
- ♦ PhD in Surgery from the Autonomous University of Madrid
- ♦ Master's Degree in Update on Digestive and General Surgery by the University of CEU Cardenal Herrera
- ♦ Higher Diploma of Specialization in Ultrasonography for Surgeons by the University of Zaragoza
- ♦ European Diploma in Hepatic, Pancreatic and Biliary Cancers: Oncosurgical Strategies from the University of Paris South



### **Dr. Álvarez Gallego, Mario**

- ♦ Medical Surgeon in Digestive and General Surgery at La Paz University Hospital Madrid
- ♦ Degree in Medicine and Surgery from the University of Alcalá de Henares
- ♦ Diploma of Advanced Studies (DAS): "Use of mesenchymal stem cells to prevent the formation of intra-abdominal adhesions" at the Autonomous University of Madrid. Surgery Department
- ♦ Specialist in Digestive and General Surgery, Colorectal Surgery Unit at the Infanta Sofía University Hospital
- ♦ Specialist in Digestive and General Surgery at Infanta Cristina University Hospital Parla, Madrid
- ♦ Specialist in Digestive and General Surgery, Colorectal Surgery Unit at La Paz University Hospital Madrid

## Professors

### Dr. Aguilera Bazán, Alfredo

- ◆ Doctor of Urology at La Paz University Hospital Madrid, Spain
- ◆ Attending Physician at La Paz University Hospital
- ◆ Physician in the department of Surgery, Medical and Social Sciences at the University of Alcalá
- ◆ Urologist at the Autonomous University of Madrid Spain
- ◆ Co-author of several scientific articles in the Spanish Archives of Urology: *Analysis of renal tumor size as a predictive factor of oncologic aggressiveness, Urinary biomarkers in the diagnosis of prostate cancer, Laser in prostate cancer. Applications*

### Dr. Álvarez Peña, Estíbaliz

- ◆ Attending Physician for General and Digestive Surgery Services at Vithas Nuestra Señora de América Hospital
- ◆ Assistant Physician in the Esophagogastric and Complex Abdominal Wall Surgery Unit at La Paz University Hospital
- ◆ Specialist in the Unit of Digestive and General Surgery at La Luz Hospital
- ◆ MIR Specialty: Digestive and General Surgery at La Paz University Hospital
- ◆ Advanced Laparoscopy Course: Intracorporeal Anastomosis in the Marqués de Valdecilla University Hospital
- ◆ Graduate in Medicine from the University of the Basque Country
- ◆ Member of: Spanish Association of Surgeons, Spanish-American Society of Hernia (SOHAH)

### Dr. Alkorta Zuloaga, Maialen

- ◆ Medical Specialist in the Department of General Surgery and Digestive System at the



University Hospital of Donostia

- ♦ Attending Physician at Donostia University Hospital
- ♦ Specialist in the Hepatobiliopancreatic Area at the University Hospital of Donostia
- ♦ Surgery, Radiology and Physical Medicine Unit at the University of the Basque Country

#### **Dr. Ayuela García, Susana**

- ♦ Specialist in General and Digestive System Surgery, Hepatobiliopancreatic section at La Paz University Hospital Madrid
- ♦ Assistant Physician in the General Surgery, Coloproctology Unit at La Paz University Hospital Madrid
- ♦ Head of Patient Safety in the General Surgery Department at La Paz University Hospital Madrid
- ♦ Member of the Multidisciplinary Committee of Neuroendocrine Tumors at La Paz University Hospital Madrid
- ♦ Degree in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Master's Degree's in Bodily Injury Assessment at the Complutense University of Madrid

#### **Dr. Chaparro Cabeza, Maria Dolores**

- ♦ Chief of Service of General Surgery and Digestive System Surgery Service at the Puerta de Hierro University Hospital
- ♦ Doctor at the General Surgery and Digestive System Service at the at the Puerta de Hierro University Hospital Madrid
- ♦ Attending Physician at the Puerta de Hierro University Hospital Majadahonda, Madrid
- ♦ Participation in the XXII National Meeting of Surgery Congress Spain

#### **Dr. Borda Arrizabalaga, Nerea**

- ♦ Assistant Physician in General Surgery in Osakidetza
- ♦ Physician in the Departments of Surgery, Radiology and Physical Medicine in Osakidetza
- ♦ Winner of the award for the thesis "Long-term prognosis of patients with ischemic colitis" by the Foundation of the Medical Association of Gipuzkoa
- ♦ Prize for the best scientific article in a medical journal awarded by the Foundation of the College of Physicians of Gipuzkoa
- ♦ Doctor belonging to the Faculty of Medicine and Nursing at the University of the Basque Country

#### **Dr. Burgos García, Aurora**

- ♦ Head of the Digestive Endoscopy Department at La Paz University Hospital
- ♦ Medical Specialist in Digestive System Surgery at La Paz University Hospital
- ♦ Clinical symptoms Teaching Collaborator at the Autonomous University of Madrid
- ♦ Degree in Medicine and Surgery from the University of Extremadura
- ♦ Expert in Emergencies in Gastroenterology and Hepatology at the Distance Learning University of Madrid
- ♦ Stay at Keio University Hospital Tokyo, Japan

#### **Dr. Díaz Roldán, Jorge**

- ♦ Medical Specialist in General Surgery and Digestive System Surgery
- ♦ Medical Specialist at the University Health Care Complex of Salamanca
- ♦ Faculty at Nuestra Señora de Candelaria University Hospital
- ♦ Member of: Spanish Association of Breast Surgeons, Spanish Association of Surgeons

**Dr. Fernández Sánchez, Rocío**

- ♦ Doctor in the Department of General and Digestive System Surgery at the General University Hospital of Infanta Sofía San Sebastián de los Reyes, Madrid.
- ♦ Hepatobiliary Surgeon at SERMAS
- ♦ Specialist in General and Digestive System Surgery at La Paz University Hospital
- ♦ Member of the NGO, Surgeons in Action
- ♦ Degree in Medicine from the Complutense University of Madrid

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- ♦ Head of the Breast Surgery Unit at the University Hospital of Salamanca
- ♦ Attending Physician in the Service of General and Digestive System Surgery at Salamanca University Hospital
- ♦ Physician in the General Surgery Service at the Salamanca University Welfare Complex (CAUSA)
- ♦ Members of the Surgery and Cancer research group at the University of Salamanca
- ♦ Member of the Spanish Association against Cancer in Castilla y León
- ♦ Speaker at the II Congress of People with Cancer and their families

**Dr. Custodio Carretero, Ana Belén**

- ♦ Physician in the Department of Medical Oncology at La Paz Hospital, IdiPAZ
- ♦ Researcher in Neuroendocrine Tumors
- ♦ Diploma of Advanced Studies from the Complutense University of Madrid
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Member of: Board of President of the Spanish Group of Neuroendocrine and Endocrine Tumors

**Dr. Belinchón Olmeda, Belén**

- ♦ Attending Physician of the Radiation Oncology Department at Ruber International Hospital
- ♦ Resident Intern Physician in the Radiation Oncology at Puerta de Hierro University Hospital Madrid
- ♦ Degree in Medicine and Surgery by Alcalá de Henares University. Madrid
- ♦ Diploma of Advanced Studies from the Autonomous University of Madrid.
- ♦ Attending Physician of the Radiation Oncology Service at La Paz University Hospital
- ♦ Member of the group of Sarcomas and Tumors of Soft Parts, Breast (GEORM), Brachytherapy and Digestive Tumors (SEOR-GI) of the Spanish Society of Radiation Oncology (SEOR)
- ♦ Author of various articles in high impact scientific journals and frequent collaborator in chapters of books and presentations at congresses.

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- ♦ Associate Chief of the General Surgery Service at La Luz Hospital, Quironsalud
- ♦ Assistant Surgeon of the General Surgery Service at La Paz Hospital, Hepatobiliopancreatic Surgery Unit
- ♦ Specialist, via MIR, in General and Digestive System Surgery at La Paz Hospital of Madrid
- ♦ Specialization in Oncologic and Laparoscopic Surgery of the Liver, Pancreas, Biliary Tract and Digestive System (Colon and Rectum)
- ♦ Member of: Spanish Association of Surgery, Spanish Society of Surgical Oncology, *European Society for Medical Oncology*





**Dr. Cuadrado García, Ángel**

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- ◆ Coordinator of Experimental Operating Room at Son Llátzer Hospital
- ◆ Research Coordinator at the Son Llátzer Hospital
- ◆ Resident Tutor of General Surgery at Son Llátzer Hospital
- ◆ General and Digestive Surgeon at Foundation Hospital of Manacor
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- ◆ Degree in Medicine from the University of Salamanca

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- ◆ Attending Physician in General and Digestive System Surgery at the Vithas Madrid La Milagrosa University Hospital
- ◆ Assistant Physician at the General and Digestive System Service of La Paz University Hospital, in the Esophagogastroduodenal and Abdominal Wall Surgery Unit Madrid
- ◆ *Fellowship* in Laparoscopic Esophagogastroduodenal and Obesity Surgery at the Luxembourg Hospital Center
- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid
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**Dr. Feltes Ochoa, Rosa**

- ♦ Specialist in Dermatology at La Paz University Hospital
- ♦ Attending Physician at the José Marva Peripheral Specialties Center
- ♦ Co-author in the Spanish Clinical Journal, official publication of the Spanish Society of Internal Medicine
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- ♦ Direction and Management of Clinical Units
- ♦ Improvement Program in Management in Health Institutions III Edition University of Navarra at the IESE Business School

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- ♦ General Surgeon at the Vithas Madrid La Milagrosa University Hospital
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- ♦ Specialist in General and Digestive System Surgery at the Ruber Juan Bravo Hospital Complex
- ♦ Doctor of Medicine from the Pontifical Catholic University of Ecuador





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- ◆ General and Digestive System Surgery Service attached to the Hepatobiliopancreatic Surgery Unit at La Paz University Hospital
- ◆ Coordinator of Hepatobiliopancreatic Surgery Unit at the Infanta Sofía University Hospital
- ◆ Associate Chief of the General and Digestive System Surgery Department at the Sanitas La Moraleja Hospital
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- ◆ European Diploma in Hepatobiliopancreatic Oncologic Surgery at the University of Paris South
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**Dr. Herrera Sampablo, Ana**

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- ◆ Graduate of Medicine and Surgery from the University of Castilla-La Mancha
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- ♦ Degree in Medicine from the Complutense University of Madrid
- ♦ Specialist in General and Digestive System Surgery in the Digestive System Surgery and Intestinal Organ Transplant Service of the 12 de Octubre Hospital Madrid
- ♦ Complete Training Diploma by the Spanish Society of Obesity Surgery (SECO)

**Dr. Froilán Torres, Consuelo**

- ♦ Head of the Gastroenterology Section at La Paz University Hospital Madrid
- ♦ Specialist in the Faculty of Medicine at the Autonomous University of Madrid
- ♦ Co-author of the article Spontaneous esophageal rupture as the onset of eosinophilic esophagitis, published in the scientific journal ELSEVIER

**Dr. García Sancho, Luís**

- ♦ Head of the Esophagogastroduodenal Section at the Infanta Sofía University Hospital
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- ♦ Associate Professor at the European University of Madrid

**Dr. García Sanz, Iñigo**

- ♦ Doctor at the General and Digestive Surgery Service at La Princesa University Hospital Madrid

- ♦ Assistant Physician of the Section of Hepatobiliopancreatic and Esophagogastric Surgery at La Princesa University Hospital Madrid
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**Dr. Gazo Martínez, José Antonio**

- ♦ Specialist in General and Digestive System Surgery at La Paz University Hospital
- ♦ Assistant Physician in the Coloproctology Unit at La Paz University Hospital Former member of the Military Health Corps
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- ♦ Expert in Colorectal and Pelvic Floor Interventions
- ♦ Participant in several research studies
- ♦ Professor in university studies and courses related to his specialty.
- ♦ Master's Degree in Colorectal and Pelvic Floor Surgery at the University of Zaragoza

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- ♦ General Surgery Consultant at Rotger Quirónsalud Clinic
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- ♦ Doctor of General Surgery and Digestive System at the University Hospital of Getafe
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- ♦ Diploma in Liver Transplantation by the Mount Sinai Medical Center New York, USA

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- ♦ Fellow, Oncological Surgery at the University of Heidelberg Germany
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- ♦ Assistant Radiologist at the Gregorio Marañón General University Hospital
- ♦ Co-author of the following scientific articles: *Pulmonary flash edema in a geriatric patient after pacemaker placement: case report and review of the literature, Subaortic innominate vein on magnetic resonance imaging, Giant presacral Myelolipoma*

#### **Dr. Osorio Silla, Irene**

- ♦ Medical Specialist at the Jiménez Diaz Foundation University Hospital

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- ♦ Physician at the General and Digestive System Surgery Service at La Paz University Hospital
- ♦ Fellow of Endocrine Surgery and Breast Pathology at Jiménez Díaz Foundation University Hospital
- ♦ Resident Medical Intern at the 12 de Octubre University Hospital
- ♦ International Master's Degree in Mastology at Menéndez Pelayo International University
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- ♦ Medical Specialist in the Fields of General Surgery and Digestive System at the Virgen del Rocío University Hospital Sevilla, España
- ♦ General Surgeon at Reina Sofia University Hospital
- ♦ Assistant Physician of General Surgery at La Paz University Hospital
- ♦ Co-author of the programs: Doctor of General Surgery and Digestive System Annotated test of specific subjects for competitive examinations MAD Publishing House
- ♦ Translational Research in Hepatic Surgery Molecular basis of Hepatic Reperfusion Ischemia Editorial Diego Marín Librero Editor SL
- ♦ Minimally Invasive Transanal Surgery: A New Era in the Local Treatment of Rectal Cancer Editorial Diego Marín Librero Editor SL

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- ♦ Oncologist at Hospital La Paz University Hospital Madrid, Spain
- ♦ Medical Assistant to the Radiotherapy Service at La Paz University Hospital Madrid, Spain
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- ♦ Member of: Executive Committee of the +MIR section of the Spanish Society of Medical Oncology (SEOM), Spanish Society of Medical Oncology (SEOM) Spain

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- ♦ Medical Specialist in General and Digestive System Surgery at SACYL, Sanidad de Castilla y León
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- ♦ Specialist in the General Surgery Area by SESCOAM
- ♦ Assistant Physician at St Mark's Hospital London, United Kingdom
- ♦ Degree in Medicine from the University of Salamanca

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- ◆ Surgeon of the Laparoscopic Surgery Unit at Viamed Virgen de la Paloma Hospital Madrid
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- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid
- ◆ Master's Degree in Advanced Laparoscopic Surgery from the University of Alcalá.
- ◆ Member of the associations: Spanish Association of Surgeons, Section of Esophagogastric Surgery and of the Section of Minimally Invasive Surgery and Technological Innovation of the ACS, Spanish Society of Obesity Surgery (SECO), International Federation for the Surgery of Obesity (IFSO), European Association of Endoscopic Surgery (EAES), Paraguayan Society of Endoscopic Surgery, Madrid Association of Surgeons

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- ◆ Graduate in Medicine and Surgery from the Universidad de Navarra
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- ◆ Member of: Spanish Society of Coloproctology, European Society of Coloproctology, International College of Surgeons, Spanish Association of Digestive Pathology, Spanish Working Group on Crohn's Disease and Ulcerative Colitis (Crohn's Disease and Ulcerative Colitis)

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- ◆ Residence in the Digestive Surgery Unit at the Gregorio Marañón General University Hospital. Madrid
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- ◆ Collaborator in Basic and Clinical Research in the Spanish Pharmaceutical Industry (PharmaMar)
- ◆ National Coordinator of the Alliance for the Prevention of Colorectal Cancer
- ◆ Clinical Research Coordinator of the Biomedical Research Foundation of the Ramón y Cajal Hospital
- ◆ Participation as Lead Investigator and Collaborator in a large number of Clinical Research projects
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- ◆ Graduate in Medicine and Surgery from the Autonomous University of Madrid
- ◆ Master's Degree in Mastology and Breast Oncology Surgery at the Menéndez Pelayo International University
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- ♦ Master's Degree in Molecular Oncology from the National Cancer Research Center(CNIO)
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Doctor of Medicine and Surgery from the University of Extremadura

- ♦ Doctor in Medicine Cum Laude by the University of Seville
- ♦ Lead Investigator in the Peritoneal Oncologic Disease Group
- ♦ Decorated by Queen Elizabeth II of England as a Member of the Order of the British Empire with the Police Merit Medal for his research and activity in the prevention of Balconing
- ♦ Member of: Spanish Society of Coloproctology, Spanish Association of Surgeons,





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- ♦ Master's Degree in Urban Planning, Land Use Planning, Town Planning and Environment by the Center for Financial Studies

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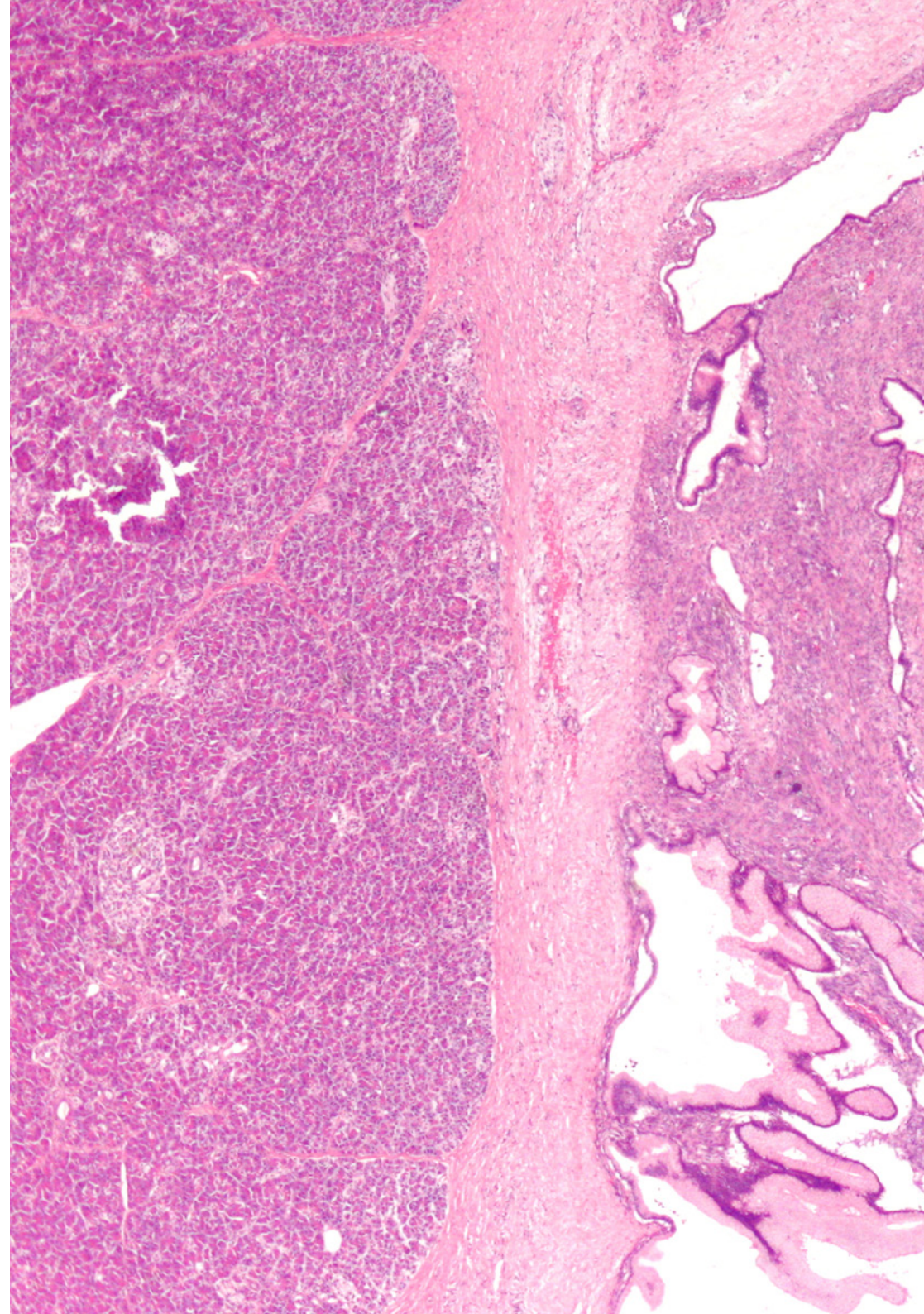
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- ◆ Physician at the Department of Hepatopancreatobiliary Surgery at the La Paz University Hospital
- ◆ Degree in Medicine from the Autonomous University of Madrid
- ◆ PhD in Medicine from the Autonomous University in Madrid
- ◆ Doctor in Liver Transplant Surgery at Virgen de la Arrixaca University Hospital

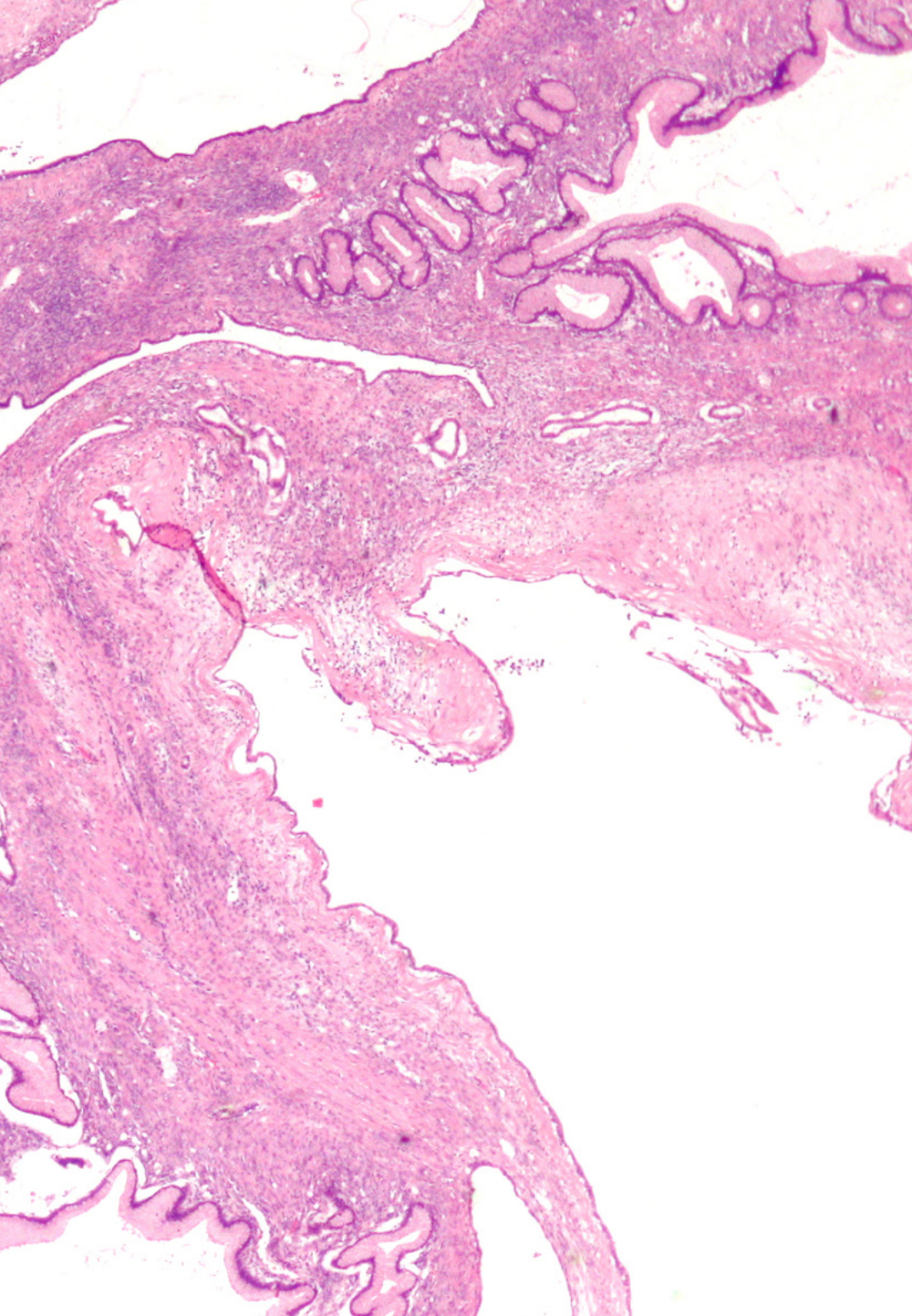
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**Dr. Pueyo Rabanal, Alberto**

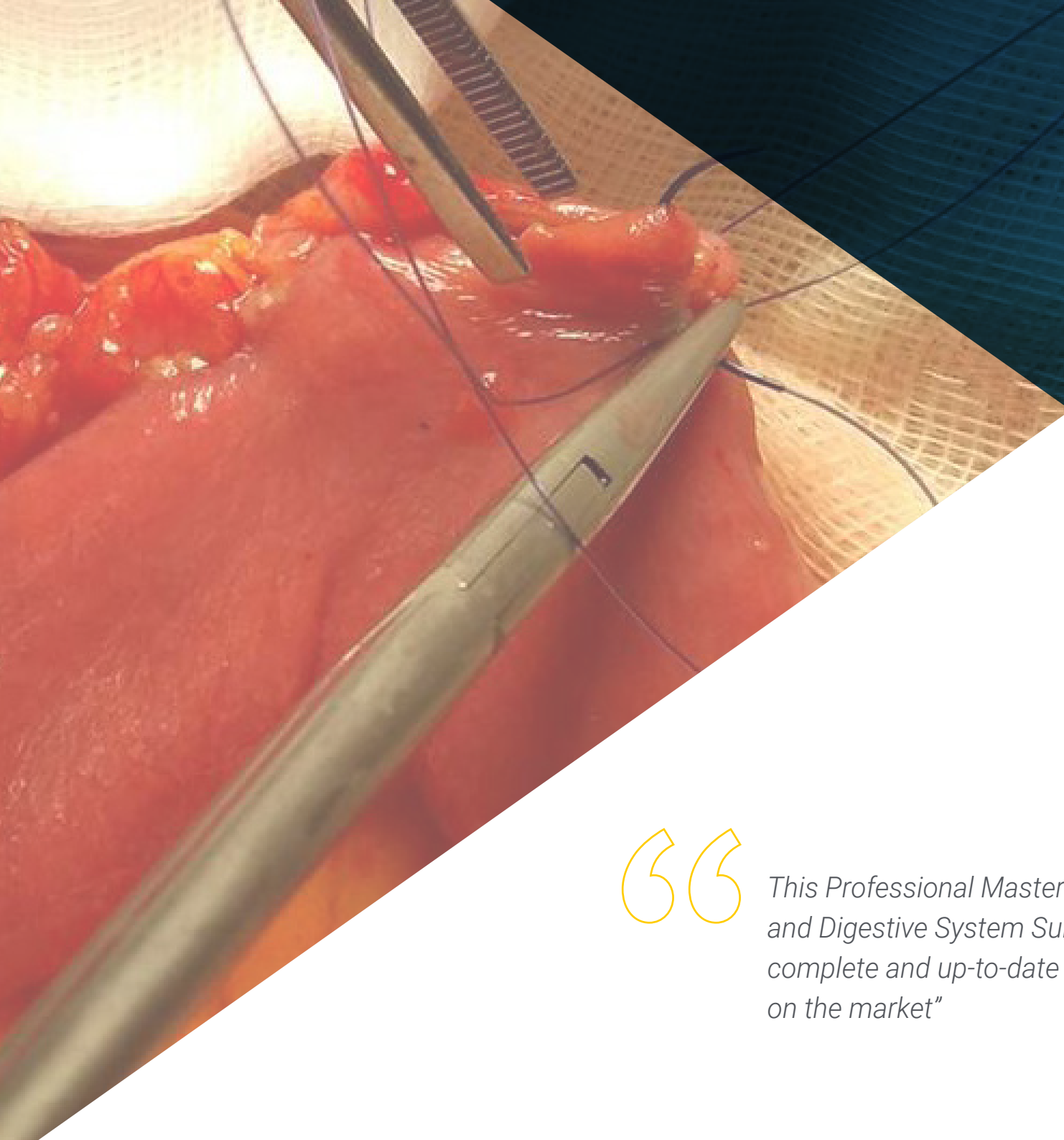
- ◆ Specialist in the area of General Surgery and Digestive System at Puerta Hierro University Hospital Majadahonda
- ◆ Assistant Physician in the Unit of General and Digestive System Surgery at Henares University Hospital
- ◆ Doctorate in Medicine from the University of Alcalá
- ◆ Degree in Medicine and Surgery from the University of Zaragoza.

05

# Structure and Content

The structure of the syllabus has been designed by a team of professionals with knowledge of the implications of medical preparation in the approach to surgical patients, who are aware of the relevance of the up-to-date specialization, and are committed to quality teaching using new educational technologies.





“

*This Professional Master's Degree in Update in General and Digestive System Surgery contains the most complete and up-to-date scientific program on the market”*

### Module 1. Oesophagogastric Surgery

- 1.1. Achalasia and Other Esophageal Motility Disorders
- 1.2. Hiatal Hernia and GORD. Barret's Oesophagus
- 1.3. Oesophageal Diverticula
- 1.4. Non-Hiatal Diaphragmatic Hernias
- 1.5. Benign Oesophageal and Gastric Tumours
- 1.6. Principles in Surgical Oncology
- 1.7. Malignant Esophageal Tumors
- 1.8. Gastric Cancer Gastrectomy: Sequelae and Complications
- 1.9. Medical and Radiation Oncology in Tumours oesophagogastric

### Module 2. Bariatric Surgery

- 2.1. Principles of Bariatric Surgery
- 2.2. Restrictive Surgery: Gastric Sleeve
- 2.3. Mixed Surgery (Restrictive-Malabsorptive): Gastric Bypass
- 2.4. Other Bariatric Techniques

### Module 3. Bile Duct Surgery

- 3.1. Colelitis
- 3.2. Coledocolitis
- 3.3. Cysts and Primary Sclerosing Cholangitis
- 3.4. Gallbladder Tumors
- 3.5. Bile Duct Tumors

### Module 4. Liver Surgery

- 4.1. Hepatocellular Carcinoma
- 4.2. Benign Liver Tumors
- 4.3. Other Malignant Liver Tumors
- 4.4. Interventional Radiology in Hepatic Lesions
- 4.5. Treatment of Liver Metastases of Colorectal and Non-Colorectal Origin
- 4.6. Medical Oncology in Liver Metastases
- 4.7. Liver Transplant
- 4.8. Liver Cysts and Abscesses

### Module 5. Pancreatic and Spleen Surgery

- 5.1. Acute Pancreatitis
- 5.2. Chronic Pancreatitis.
- 5.3. Head Tumors and Ampulomas
- 5.4. Pancreatic Body and Tail Tumors
- 5.5. Anatomopathologic Considerations in Pancreatic Cancer
- 5.6. Neuroendocrine Tumors
- 5.7. Pancreatic Cystic Tumors
- 5.8. Pancreas, Intestinal, and Multivisceral Transplantation
- 5.9. Benign and Malignant Pathology and Surgery of the Spleen

### Module 6. Colon Surgery

- 6.1. Principles of Colon Cancer Surgery
- 6.2. Right Hemicolectomy
- 6.3. Left Colon Cancer
- 6.4. Transverse Colon Cancer
- 6.5. Medical and Radiotherapy Oncology in Colon Cancer

### Module 7. Rectal Surgery

- 7.1. Principles of Rectal Cancer Surgery
- 7.2. Abdominal Approach to Rectal Cancer Surgery
- 7.3. Transanal Approach to Rectal Cancer Surgery
- 7.4. Combined Approach to Rectal Cancer Surgery
- 7.5. Comprehensive Oncologic Treatment for Rectal Cancer
- 7.6. Anatomopathological Considerations in Rectal Cancer
- 7.7. Rectal Prolapse and Rectocele
- 7.8. Deep Pelvic Endometriosis

### Module 8. Anal Surgery

- 8.1. Anal Fissure
- 8.2. Anal Fistula and Abscess
- 8.3. Anal HPV: Anal Intraepithelial Neoplasia and Epidermoid Carcinoma
- 8.4. Anal Cancer

- 8.5. Hemorrhoids
- 8.6. Anal Incontinence
- 8.7. Pilonidal Sinus and Hidrosadenitis Suppurativa

### Module 9. Inflammatory Bowel Disease

- 9.1. Principles of Inflammatory Bowel Disease
- 9.2. Crohn's Disease Surgery
- 9.3. Perianal Crohn's Disease
- 9.4. Ulcerative Colitis Surgery

### Module 10. Endocrine Surgery

- 10.1. Thyroid Nodule and Multinodular Goiter
- 10.2. Hyperthyroidism
- 10.3. Thyroid Cancer
- 10.4. Primary Hyperparathyroidism
- 10.5. Secondary and Tertiary Hyperparathyroidism
- 10.6. Adrenal Gland Surgery

### Module 11. Abdominal Wall Surgery

- 11.1. Laparotomies and Closure Midline and Lateral Hernias
- 11.2. Inguinocrural Hernias
- 11.3. Eventrations. Eventration Prophylaxis
- 11.4. Management of Open Abdomen and Evisceration

### Module 12. Breast Surgery

- 12.1. Diagnostic Methods. Breast Pathology Screening
- 12.2. Benign Breast Pathology
- 12.3. Principles of Breast Cancer
- 12.4. Breast Surgery

### Module 13. Peritoneal Carcinomatosis

- 13.1. Multimodal Treatment of Peritoneal Carcinomatosis

### Module 14. Digestive Surgery Emergencies

- 14.1. Upper Gastrointestinal Bleeding
- 14.2. Acute Cholecystitis
- 14.3. Acute Cholangitis
- 14.4. Acute Appendicitis
- 14.5. Acute Diverticulitis
- 14.6. Lower Gastrointestinal Bleeding
- 14.7. Acute Mesenteric Ischemia
- 14.8. Intestinal Obstruction

### Module 15. Surgical Innovation

- 15.1. Introduction to Surgical Innovation
- 15.2. Innovation in Surgical Learning
- 15.3. ICT
- 15.4. Innovation in Surgical Devices
- 15.5. Innovation in NOTES Surgery
- 15.6. Robotic Surgery
- 15.7. Financing, Protection, and Transfer of Innovation in Surgery



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

06

# Methodology

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

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





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

## At TECH, we use the Case Method

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

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



According to Dr. 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 assess 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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*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 prepared with unprecedented success in all clinical specialties regardless of surgical load. Our educational 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 adapted in 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 assess and re-assess 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

This Professional Master's Degree in Update on General and Digestive System Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Professional Master's Degree issued by TECH Global University.







*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"*

This private qualification will allow you to obtain a **Professional Master's Degree diploma in General and Digestive System Surgery** 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.

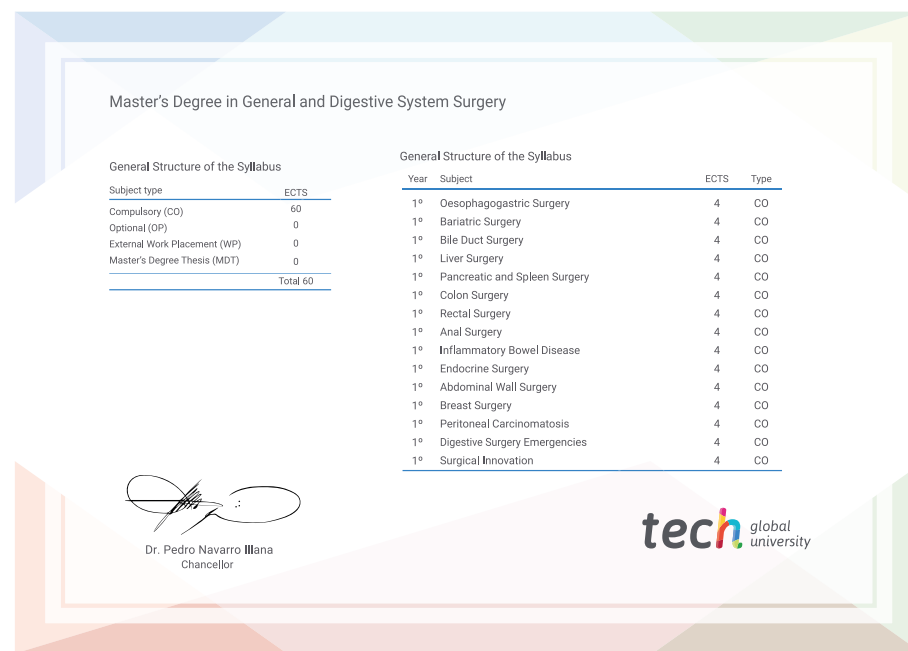
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Master's Degree in General and Digestive System Surgery**

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.



## Professional Master's Degree

Update in General and Digestive System Surgery

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

# Professional Master's Degree

Update in General and Digestive  
System Surgery