Professional Master's Degree

Digestive Oncologic Surgery

tech global university

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Professional Master's Degree

Digestive Oncologic Surgery

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

Website: www.techtitute.com/us/medicine/professional-master-degree/master-digestive-oncologic-surgery

Index

01

Introduction

Technological and surgical advances in the field of Digestive Oncologic Surgery are taking place in leaps and bounds. The field of action is especially favorable for specialists in this area, since most solid malignant neoplasms are not treated from a single perspective, but combine surgery and state-of-the-art multimodal therapies. The ability of surgeons to adapt and update to these new circumstances is essential, so TECH has decided to launch this academic program, sponsored by the best experts in the field. In it, specialists will delve into the most outstanding advances in modern Oncologic Surgery from the perspective of clinical practice. All in a 100% online, flexible and adaptable format.

Get up to date in the areas of Digestive Oncologic Surgery that have experienced the most advances in recent years, including complementary studies and advanced surgical techniques"

The developments and milestones achieved in the field of Digestive Oncologic Surgery have allowed to raise the standard of care considerably.
Multimodal therapies such as polychemotherapy, highly focused radiotherapy or targeted molecular therapies have greatly expanded the possibilities of action and intervention for specialists, obliging them in turn to an almost continuous process of updating.

Therefore, the necessary criteria must be developed to determine when new technologies can be useful and how they should be used to get the most out of them. Oncologic Digestive Surgery cannot be understood as a linear specialty, but must be covered with a multidisciplinary vision, allowing the surgeon to get involved with radiology, endoscopy or nutrition units in order to obtain a more effective diagnosis and treatment.

Faced with this situation, TECH has brought together a teaching team of renowned experts in advanced surgical techniques to create this Professional Master's Degree. It is not intended to be a compilation of surgical techniques, but to examine the possibilities of current surgery, the specialties that work around it and the new technologies available to specialists to treat tumors of the digestive system.

Therefore, topics related to the fields of Esophagogastric and Colorectal Oncologic Surgery are included, as well as the latest scientific postulates in Liver Tumors, Liver Metastases, Mesenchymal Tumors and other pathologies in the area of Digestive Oncology. The research aspect is not left aside, dedicating also a space to innovation and development in the field.

It is a great academic opportunity to get up to date in a dynamic and effective way, focusing on clinical practice at the highest level. The format of the program, moreover, is completely online. This means that there are no in person classes or fixed schedules, giving total flexibility to specialists to adapt the teaching load according to their own responsibilities.

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

- The development of practical cases presented by experts in Digestive Surgery and Oncology
- The graphic, schematic and practical contents with which it is conceived provide scientific and practical information on those disciplines that are essential for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection

Delve into the management and endoscopic treatment of a variety of pathologies such as esophageal cancer or biliary tract tumors"

You will be able to download all the didactic material to study it later from the comfort of your tablet, smartphone or computer of choice"

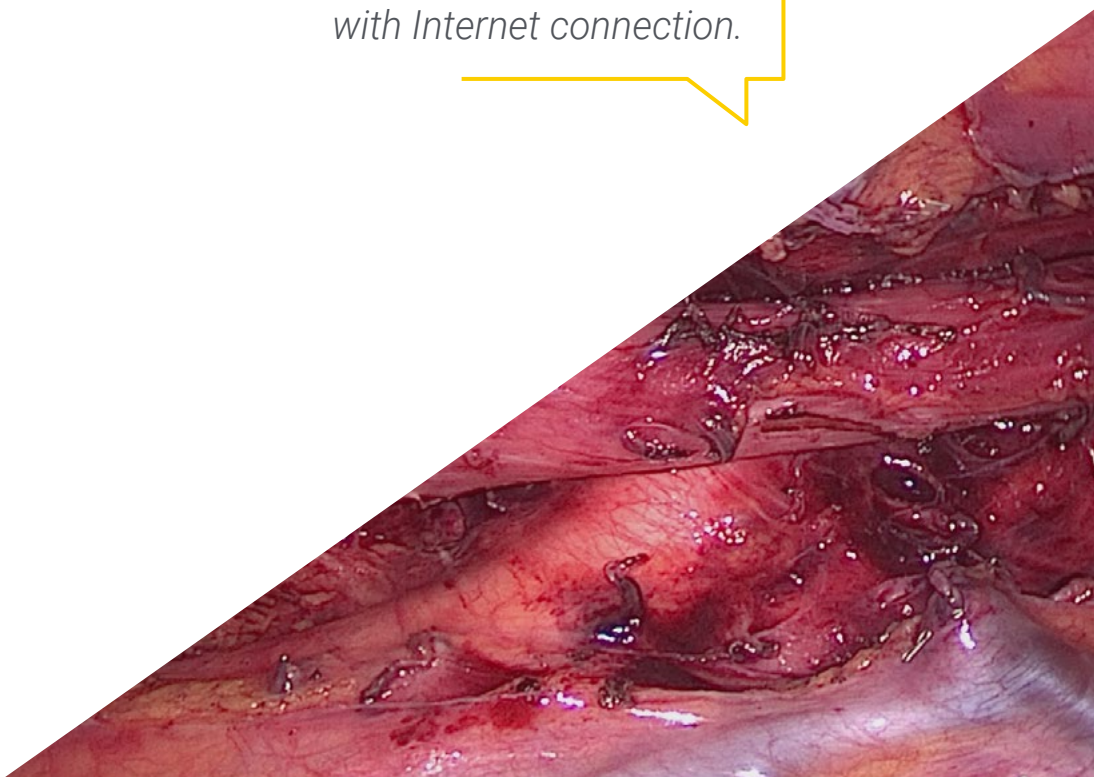
Get updated in the use of Big Data, Artificial Intelligence and Neural Networks for modern oncology research.

Define your own schedule, as the Virtual Campus is accessible 24 hours a day from any device with Internet connection.

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

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 education programmed to learn in real situations.

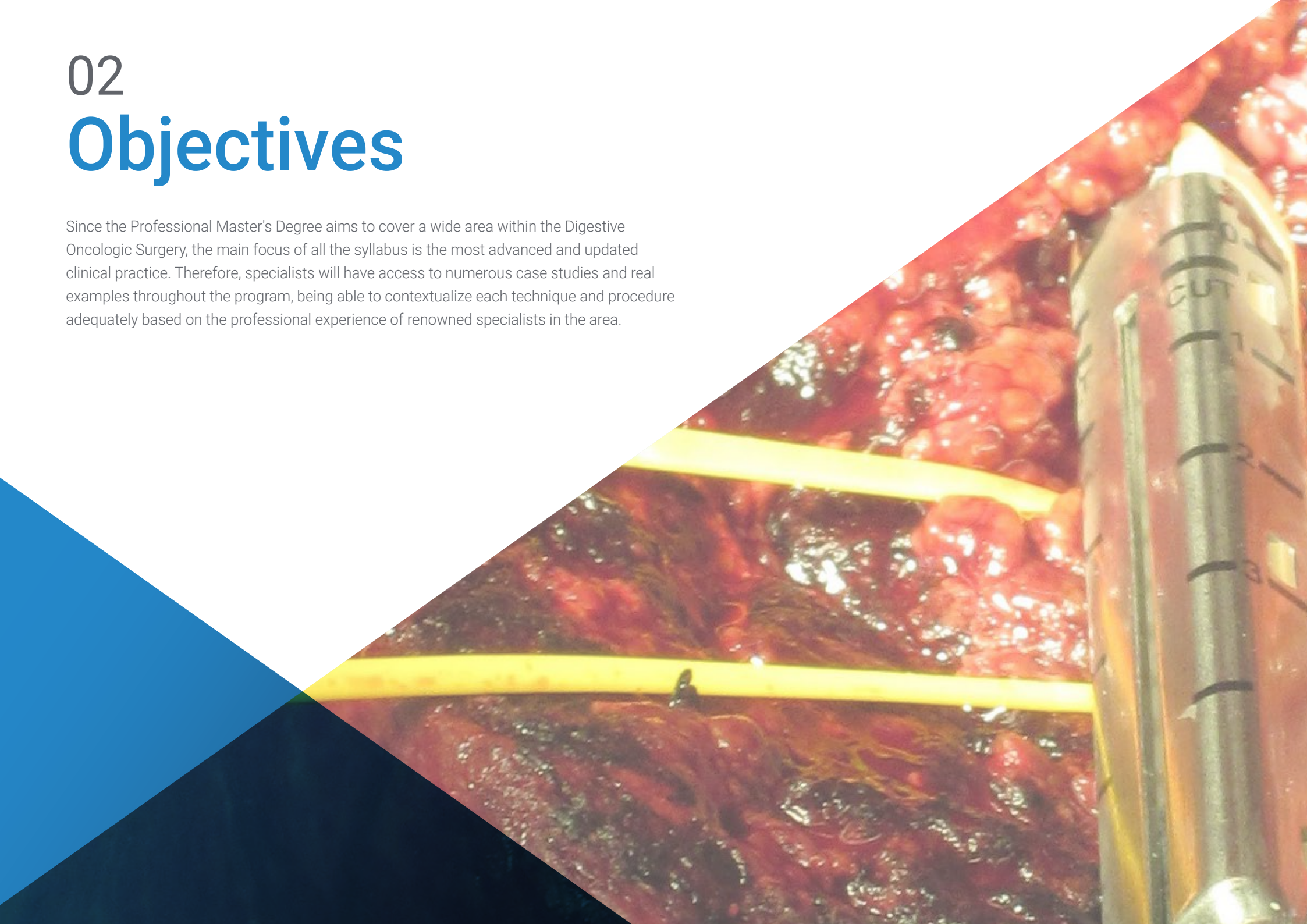
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Objectives

Since the Professional Master's Degree aims to cover a wide area within the Digestive Oncologic Surgery, the main focus of all the syllabus is the most advanced and updated clinical practice. Therefore, specialists will have access to numerous case studies and real examples throughout the program, being able to contextualize each technique and procedure adequately based on the professional experience of renowned specialists in the area.



Incorporate into your daily practice the most advanced methodology in the field of Digestive Oncologic Surgery, offered by a teaching staff of the highest level"

General Objectives

- Delve the specific knowledge on the management of patients with tumors affecting the digestive system
- Discern the surgical techniques to be used and the new technologies currently available for their diagnosis and treatment
- Learn where modern surgery is heading and which are the ways of its development
- Study the fundamentals of research in oncological surgery
- Understand the way to develop research projects, how to do it and where to get help
- Develop skills and technical knowledge with which to face any situation presented by a patient in an oncological surgery unit of the digestive system

Specific Objectives

Module 1. Digestive Oncological Surgery

- Understand in detail the anatomy of the abdomen and the organs of the digestive system, focusing on those structures of special interest to the surgeon, which must be known to apply the corresponding surgical techniques in each organ
- Understand the fundamental aspects of the nutrition of an oncologic and surgical patient, his nutritional needs and ways to improve it to face surgery
- Analyze the peculiarities of anesthesia in the oncologic patient undergoing abdominal surgery, the participation of anesthesia in multimodal therapy and the monitoring and influence of anesthesia on patient recovery
- Acquire the ability to recognize the parameters that indicate the postoperative evolution of patients, detect possible complications early and obtain knowledge for immediate postoperative management
- Learn which are the palliative surgical techniques in Digestive Oncology and recognize which are the factors that must be taken into account when making a decision about palliative treatment
- Understand which surgical techniques should be use used in the context of urgent surgery and depending on the patient's situation and tumor
- Learn the molecular basis of Digestive Oncology
- Study the interference of oncological drugs in the processes of healing or coagulation and how they affect the results of surgery
- Delve into the participation of radiotherapy in the treatment of digestive tumors
- Understand the different ways of application of radiotherapy
- Analyze the side effects of radiotherapy on tissues and how this can affect surgery and its planning

Module 2. Complementary studies in digestive oncology surgery

- Understand the different radiological techniques and their indications in the primary diagnosis of digestive tumors, including ultrasound, CT and MRI
- Study the peculiarities of the different radiological techniques for early diagnosis both in healthy population (screening) and people with risk factors
- Know the contributions of conventional radiology in the follow-up of patients with digestive tumors
- Analyze the different contributions of interventional radiology to the diagnosis of digestive tumors
- Review the basic radiopharmaceuticals used in digestive pathology, as well as the contributions of Nuclear Medicine to the field of Digestive Oncologic Surgery
- Understand the basis of molecular diagnostics and its contribution to the development of cancer panels, as well as its importance in the design of personalized therapies and its value in the analysis of response to treatment
- Examine the main hereditary syndromes involved in the development of digestive tumors, their implication in the detection of high-risk patients and the planning of prophylactic surgeries
- Understand the concept of microbiome and its possible role in the carcinogenesis process that determines the development of digestive tumors
- Know the possible role of the microbiome both in the early diagnosis and prevention of digestive tumors

Module 3. Colorectal Oncologic Surgery

- Examine the epidemiology and etiopathogenesis in colorectal Oncologic Surgery, as well as the diagnostic tests necessary for diagnosis
- Recognize the screening tests for early detection in the general population, as well as to know what the prognosis of these patients will be and what follow-up should be done
- Understand which are the syndromes associated with colon polyposis and their risk of developing colorectal cancer
- Analyze the surgical treatment of colon cancer depending on its location: right, transverse or left
- Study in depth the anatomy of the pelvis and the different organs and structures that are housed in it
- Recognize the differences between the male and female pelvis, studying the anatomical relationships between them and knowing the surgical approach planes
- Delve into the importance and meaning of "complete excision of the mesorectum", differentiating the different treatment options depending on the local stage and location of the tumor
- Learn the different surgical techniques available for each case: transanal minimally invasive surgery (TAMIS), complete transanal mesorectal excision TATME, laparoscopic and robotic surgery, sphincter preservation, pelvic exenteration techniques or abdominoperineal amputation
- Know which are the treatments applied by medical Oncology in colorectal cancer, in which stages it provides benefit, which are the treatment options, at what moment they should be applied and with what duration
- Understand the role of radiotherapy in colorectal cancer, especially in rectal cancer
- Know when it can be applied and the differences in results and side effects and sequelae depending on when it is applied, and its role in other situations such as local recurrences and retroperitoneal lymph node disease
- Analyze the different neoadjuvant treatment modalities in rectal cancer and their results, knowing the benefits of each strategy
- Understand fundamental aspects of the management of patients with colorectal cancer in some special situations: obstruction, treatment with prosthesis or surgery; urgent surgery in patients treated with Anti-VEGF, management of pelvic recurrence; treatment of positive iliac adenopathies; retroperitoneal lymph node recurrence: radiotherapy or surgery

Module 4. Esophagogastric Oncologic Surgery

- Study the general aspects of esophageal cancer, its epidemiology and classification, as well as the diagnostic advances available
- Know the updates in the surgical approach to esophageal cancer
- Analyze the reconstruction with gastric plasty and its alternatives
- Define and know the indications of standard and extended lymphadenectomies in esophageal cancer
- Analyze the new classification of esophagogastric junction tumors
- Study the clinical and epidemiological differences of gastric tumors in the western and eastern setting
- Update the surgical treatment of gastric cancer, weighing the technical alternatives for the performance of anastomosis

- Define the new criteria for oncologic lymphadenectomy
- Explain and analyze the possible sequelae after esophagogastric surgery, in order to perform an adequate management and treatment
- Analyze the possible short and long term complications of esophagogastric surgery and the different options to avoid their appearance and minimize their consequences
- Study the new oncological targeted therapies, reviewing the latest published results that recommend their current use
- Learn about endoscopic and interventional therapies in esophagogastric tumors

Module 5. Liver and Biliary Tract I. General. Liver Tumors

- Obtain a thorough knowledge of the anatomy of the liver and biliary tract from a practical point of view and applied to liver surgery
- Obtain a surgical view of the anatomy of the liver to understand liver resection techniques and the importance of knowing that anatomy to avoid complications
- Know the diagnostic tests that currently exist to study the patient with hepatic tumor pathology, as well as the techniques for the study of liver function
- Develop the ability to determine what residual liver volume a patient needs to survive and the techniques to determine the volume that will remain after surgery
- Establish the theoretical basis for liver surgery. Students will obtain the basic and essential knowledge to be able to understand and be initiated in liver surgery
- Present the techniques currently available to increase the residual liver volume of a patient, which allow increasing the resectability of liver tumors at diagnosis
- Know the development of the minimally invasive approach in liver surgery, including approach techniques, differences with open surgery, instruments and necessary material, etc
- Know the complications that can occur in liver and biliary tract surgery
- Study the main benign liver tumors with malignant potential and malignant tumors, with special attention to hepatocarcinoma
- Establish the current surgical treatment options, and the indications for surgical resection and liver transplantation for hepatocarcinoma
- Know what alternatives to surgical treatment exist to treat hepatocarcinoma

Module 6. Liver and Biliary Tract II. Biliary Tract Tumors. Liver metastases

- Distinguish the types of bile duct and gallbladder tumors
- Differentiate the different surgical treatments in the treatment of bile duct and gallbladder tumors
- Know the role of endoscopic and interventional treatment
- Analyze the role of chemotherapy in the treatment
- Study the indications for radiotherapy in bile duct and gallbladder tumors
- Know the different types of hepatic metastases
- Manage the indications and techniques of surgery in hepatic metastases
- Understand the role of interventionism in the treatment of liver metastases
- Deepen in the indications and types of chemotherapy in liver metastases
- Distinguish the role of radiotherapy in liver metastases

Module 7. Pancreas, Duodenum and Spleen

- Understand the epidemiology and genetics of pancreatic cancer
- Study the diagnostic methods used in pancreatic cancer and which is the best in each case and at each specific moment
- Review the NCCN classification of patients with pancreatic tumors and the current strategic treatment algorithm for pancreatic cancer
- Learn about all the techniques used in the treatment of pancreatic cancer performed by laparotomy, laparoscopy or robot
- Know the symptoms presented by patients with unresectable pancreatic cancer and how to palliate them by surgical, endoscopic or radiological techniques
- Distinguish the most frequent complications after pancreatic surgery and to deepen in an updated management
- Study the existing oncological treatments (chemotherapy and radiotherapy) for pancreatic cancer and the lines of research in development
- Learn about pancreatic tumors other than pancreatic adenocarcinoma, especially neuroendocrine tumors and MPCT, and those rare subtypes of pancreatic tumors
- Analyze the epidemiological, genetic, diagnostic and therapeutic aspects of duodenal and splenic tumors

Module 8. Malignant Peritoneal Disease

- Study the basic principles of malignant peritoneal dissemination mechanisms
- Examine the general criteria for indicating radical or palliative treatment of malignant peritoneal diseases in a multidisciplinary context, what they consist of and the prognostic factors involved
- Analyze the diagnostic methods for the adequate evaluation of malignant peritoneal diseases, both in their characterization and classification
- Distinguish principles of cytoreductive surgery and peritonectomy procedures
- Understand the basic principles of intraperitoneal chemotherapy: rationale, administration techniques, modalities and regimens
- Update the histopathological classification of neoplasms of the cecal appendix, prognosis and their surgical treatment
- Review the diagnosis, prognosis, and treatment of peritoneal pseudomyxoma, peritoneal mesothelioma, and peritoneal carcinomatosis secondary to colorectal, gastric, and ovarian cancer

Module 9. Mesenchymal Tumors Small Intestine Tumors

- Analyze the epidemiological characteristics, diagnosis and classification of soft tissue sarcomas and retroperitoneal sarcomas
- Learn the diagnostic tests necessary to evaluate a patient with mesenchymal tumor, which ones are available and their role in evaluating the response to treatment
- Understand the indications and techniques of surgical treatment of gastrointestinal stromal tumors and their metastases
- Identify alternatives or adjuncts to surgical treatment for gastrointestinal stromal tumors
- Study the fundamental aspects of retroperitoneal tumors and their histological types
- Learn the basics of treatment and surgical technique for retroperitoneal sarcomas
- Know what compartment surgery is, how it is performed and its indications
- Analyze the fundamental aspects of soft tissue sarcomas of the extremities and thoracic wall

- Understand which tumors can develop in the small intestine, to know what symptoms can cause them and how to diagnose and treat them
- Learn what desmoid fibromatosis is, how it manifests itself and what treatments currently exist, as well as their indications
- Understand the basics of mesenchymal tumor metastasis surgery

Module 10. Innovation, Research and Development in Digestive Oncologic Surgery

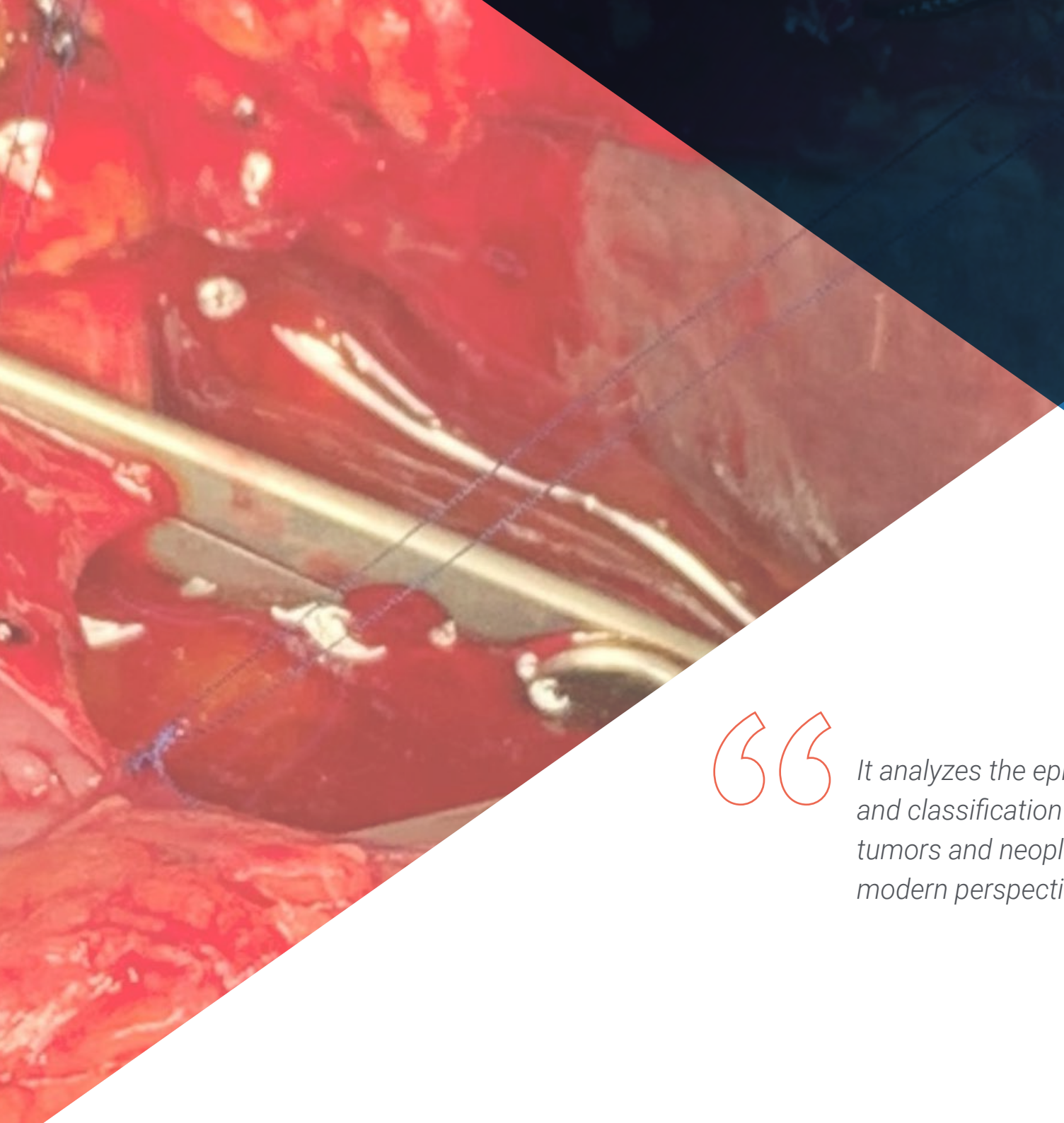
- Implement knowledge in basic-translational research, presenting the different strategies in molecular analysis
- Study the different laboratory research models: animal models, 2D cellular models and 3D organoids
- Obtain the necessary knowledge to start a clinical research in Oncologic Surgery, how to design a clinical trial and to know the sources of funding and the methodology to apply for research grants
- Know the use of Big Data and artificial intelligence in research, what information provide and their validity
- Understand the different techniques for the application of fluorescence as an aid in Digestive Oncologic Surgery, when to use it and the benefits it can provide
- Delve into the knowledge of current technological advances and how they can facilitate the surgical technique in Oncologic Digestive Surgery
- Study navigation systems, 3D models and intraoperative virtual and augmented reality
- Learn about the new minimally invasive surgical approach techniques, their indications and advantages. Understand the differences between laparoscopy and robotics
- Learn about the intraoperative ablative and adjuvant techniques that currently exist, how to use them and in which cases, as well as the side effects or complications they may generate
- Study what liquid biopsy is, how it is performed, what it is used for, how it can be used for diagnosis, prognosis and early detection of recurrences
- Have knowledge of the new lines of diagnosis, prognosis and treatment in Oncology, based on molecular biology, target Therapies or immunotherapy

This Professional Master's Degree will meet even your highest expectations thanks to a detailed and comprehensive syllabus"

03

Skills

Being a particularly demanding and evolving area, the competencies of specialists in Digestive Oncologic Surgery must not only be extensive, but also perfected as much as possible. This is precisely the reason for the practical approach of the entire program, because thanks to this, specialist will be able to update their knowledge based on the most current scientific rigor, incorporating the techniques studied into their own work methodology even before finishing the program.

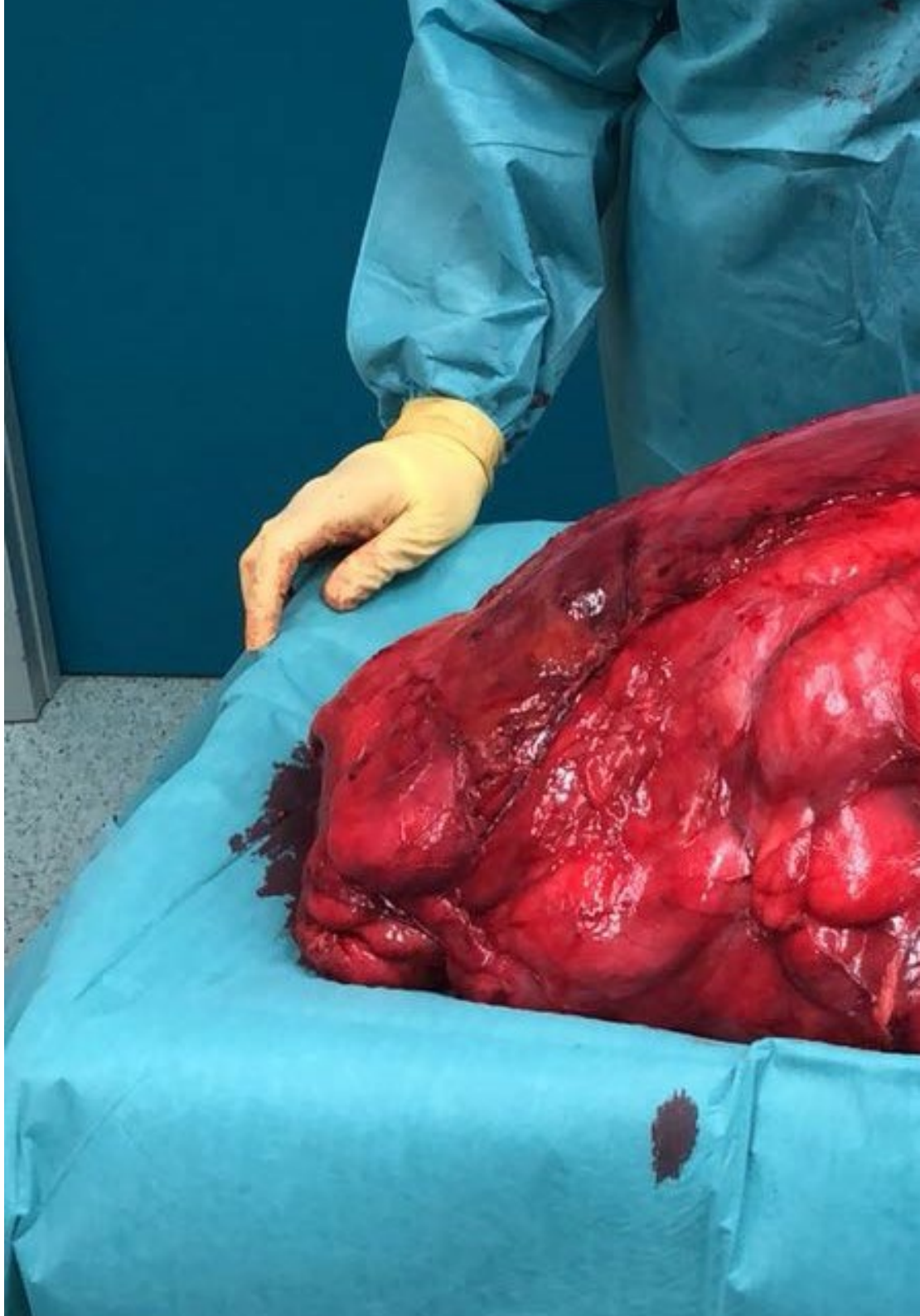


It analyzes the epidemiology, diagnosis and classification of the main digestive tumors and neoplasms, giving you a modern perspective on their approach"

General Skills

- Prepare the patient for surgery, taking into account the techniques and equipment to be used
- Effectively direct your efforts to improve the surgical care of patients with digestive tumors
- Prepare a patient for oncologic surgery of the digestive tract, taking into account the basics of multimodal rehabilitation, what it contributes to the patient's recovery and how to implement it
- Develop in the current lines of research, technological innovation and design of training programs

Boost your usual work methodology using the most effective laparoscopic and minimally invasive techniques"



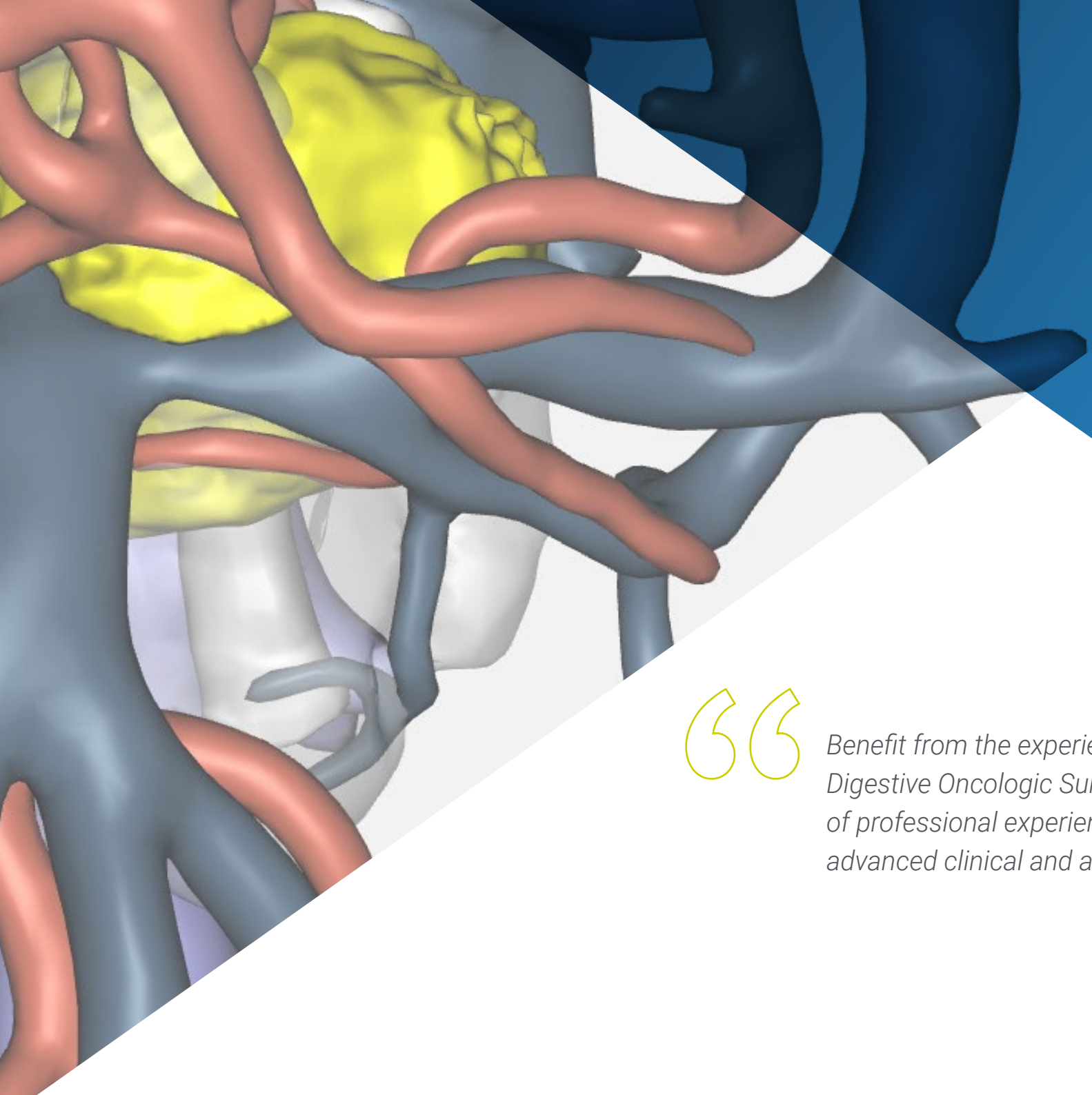
Specific Skills

- Recognize in which situations radiotherapy can collaborate in the treatment
- Know when to schedule a surgery according to the treatment a patient has received
- Make a decision, based on the most current and rigorous criteria, about the most appropriate treatment for a patient that we cannot cure
- Standardize anatomopathologic reports
- Manage the indications and technique of local ablation by radiofrequency in the treatment of Barrett's disease
- Measure the frailty of elderly patients based on the surgical risk assessment scales, preparing them adequately for surgery
- Manage the techniques of endoscopic resection of precursor lesions and early stages, knowing what to do according to the results of the histological study of the resected lesions
- Apply the concept of "organ preservation" and watch and wait strategy in the treatment of rectal cancer and know how to recognize in which situations it can be used

04

Course Management

All the teachers who make up the faculty of this Professional Master's Degree have vast experience in the field of Digestive Oncologic Surgery, specializing in Hepatobiliopancreatic Surgery, Digestive Tumors and Peritoneal Oncology or Advanced Metabolic and Laparoscopic Surgery, among other fields of great interest. This gives a highly specialized approach to the entire syllabus, as they have also developed their professional and academic careers in the most prestigious international clinical centers.



Benefit from the experience of experts in Digestive Oncologic Surgery with decades of professional experience in the most advanced clinical and academic areas"

Management

Dr. Alonso Casado, Oscar

- Chief of Hepatobiliopancreatic Surgery at MD Anderson Cancer Center Madrid Hospital
- Specialist in the General and Digestive Oncology Surgery Service at MD Anderson Cancer Center Madrid, collaborating in the Thoracic Surgery Unit and Plastic Surgery Unit
- Assistant Surgeon at Quirónsalud Sur and El Escorial Hospitals
- Clinical Tutor in Practical Teaching at UFV and MD Anderson Cancer Center Madrid
- Degree in Surgery and Medicine from the UCM
- Certified in Console Surgery of the Da Vinci Xi Robotic System

Professors

Dr. Núñez, Sara

- Specialist in General and Digestive Surgery at MD Anderson International Cancer Center
- General and Digestive System Surgeon at the Infanta Sofia University Hospital
- Master's Degree in Update in General and Digestive System Surgery from Cardenal Herrera University
- Expert in Colorectal Surgery from Cardenal Herrera University
- Expert in Esophagogastric and Bariatric Surgery from Cardenal Herrera University
- Expert in General Surgery from Cardenal Herrera University
- Expert in Pancreatic Hepatobiliary Surgery from Cardenal Herrera University
- Degree in Medicine from the University of Santiago de Compostela

Dr. Ferrero Celemín, Esther

- Specialist in the Departments of General Surgery and Digestive System at Infanta Sofia University Hospital San Sebastián de los Reyes, Madrid
- Specialist in the Department of General Surgery and Digestive System Surgery at Infanta Leonor University Hospital Madrid
- Participation as an autonomous surgeon in the General Surgery Service of the Sur de Alcorcón Hospital Madrid
- Degree in Medicine from the Complutense University of Madrid
- Specialist in General and Digestive System Organs and Intestinal Organ Transplant Service of the 12 de Octubre Hospital Madrid
- Complete Training Diploma by the Spanish Society of Obesity Surgery (SECO)

Dr. Sánchez Antolín, Gloria

- Specialist in Digestive System and Health Authority in Sacyl
- General Director of Planning and Health Care of the Regional Health Management in Castilla y León
- Head of Digestive-Hepatology Section at the Río Hortega University Hospital in Valladolid
- Main Investigator in multiple phase III and phase IV clinical trials
- Author and Speaker in numerous communications to national and international scientific congresses and publications in the field of Hepatology and Liver Transplantation
- President of the Castilian and Leonese Association of Hepatology
- Associate Professor of Digestive System at the Faculty of Medicine of Valladolid
- Accredited Tutor of Specialized Training
- Doctor of Medicine from the University of Valladolid
- Degree in Medicine and Surgery from the Faculty of Medicine of the University of Valladolid
- Medical Specialist in Digestive System via MIR at the Marqués de Valdecilla University Hospital in Santander
- Stay at Thomas E. Starzl Transplantation Institute, Pittsburg University USA
- Member of the Working Group of Hepatitis and Hepatorenal Transplantation of SACYL

Dr. Ortego Zabalza, Ignacio

- Medical Director of the Clinical Trials Unit at the Anderson Cancer Center
- Medical Oncologist in the Thoracic and CNS Tumors Unit at the Clara Campal Integral Oncology Center
- Medical Oncologist at the Hospital Nou Delfos
- Specialty in Medical Oncology at the University Clinic of Navarra
- Degree in Medicine from the University of Navarra

Dr. Pérez Saborido, Baltasar

- Head of the Hepatobiliopancreatic Surgery Unit and the Robotic Surgery Unit at the Recoletas Campo Grande Hospital
- Surgeon in the Advanced Oncological Surgery Unit and the Liver Transplant Unit at the Rio Hortega University Hospital
- Head of the General and Digestive Surgery Service at the Recoletas Campo Grande Hospital
- Coordinator of Innovation in the Valladolid West Health Area
- Associate Professor in the Department of Surgery, Ophthalmology, Otolaryngology and Physiotherapy at the University of Valladolid
- Doctor of Medicine and Surgery, from the Complutense University of Madrid
- Graduate in Medicine and Surgery from the University of Malaga
- Specialty in General and Digestive Surgery at 12 de Octubre University Hospital
- Master's Degree in Clinical Management, Medical and Healthcare Management from the CEU Cardenal Herrera University

Dr. González Fernández, Ana María

- Pediatrician at the Hospital Ruber Internacional
- Specialist in Pediatrics area at Hospital del Sureste
- Assistant Pediatrics Physician at los Arcos del Mar Menor University Hospital
- Pediatrician specialized in Neonatology
- PhD Autonomous University of Madrid
- Master's Degree in Neonatology
- Degree in Medicine and Surgery from the Complutense University of Madrid
- Diploma of Advanced Studies Pediatric Department of the Autonomous University of Madrid

Dr. Loinaz Segurola, Carmelo

- Head of General and Digestive System Surgery Department, 12 de Octubre University Hospital
- Head of the General Surgery Unit, Alcorcón University Hospital
- Degree in Medicine and Surgery, Navarra University
- Specialist in General and Digestive System Surgery, Doce de Octubre University Hospital
- PhD in Medicine and Surgery, Complutense University of Madrid, Outstanding qualification Cum Laude
- Associate Professor of Health Sciences Accredited as a Full Professor by ANECA
- Master's Degree in Medical and Clinical Management, UNED and School of Health - Carlos III Institute
- Coordinator of Humanitarian Collaboration Group, AEC
- Member of: Spanish Association of Surgeons, Spanish Society of Parenteral and Enteral Nutrition, The American College of Surgeons, Spanish Society of Transplantation, The Spanish Society of Liver Transplantation, The European Society of Organ Transplantation, The Transplantation Society (IRTA section, Intestinal Rehabilitation and Transplant Association), The International Society of Surgeons, Gastroenterologists and Oncologists (IASGO), The International Society of Diseases of the Esophagus (ISDE) and Health Cooperation Committee of the UCM Department of Surgery

Dr. Martín Cabezón, Marina

- Assistant Physician specializing in Anesthesiology, Resuscitation and Pain Therapy at the Doce Octubre University Hospital
- MIR in the specialty of Anesthesiology, Resuscitation and Pain Therapy at the Doce de Octubre University Hospital
- Degree in Medicine from the Complutense University of Madrid

Dr. Bretcha Boix, Pedro

- Chief of the General and Digestive Surgery Service and of the Oncologic Surgery Unit at the Hospital Quirónsalud Torrevieja
- President of the Spanish Society of Surgical Oncology
- Coordinator of the Spanish Group of Peritoneal Oncological Surgery
- Degree in Medicine and Surgery from the Autonomous University of Barcelona
- Specialty in General and Digestive System Surgery at the University Hospital MútuaTerrassa
- Practical stay in Advanced Laparoscopic Surgery Techniques at Mount Sinai Hospital
- Practical stay at the Metabolic Surgery Unit of the National Cancer Institute Washington
- European Board of Surgery Qualifications in Oncologic Surgery
- Certificate in Robotic Surgery with the Da Vinci Surgical System
- Certified in the PIPAC Technique for the Treatment of Peritoneal Carcinomatosis at the Institut Régional du Cancer de Montpellier

Dr. Litcheva Gueorguieva, Assia

- Associate Radiologist at Los Ángeles Moncloa University Hospital
- DEA by the Complutense University of Madrid
- Degree in Medicine and Surgery from the Autonomous University of Madrid

Dr. Robledo, Pedro José

- Head of the Clinical Nutrition and Dietetics Unit at MD Anderson Cancer Center
- Degree in Medical Sciences of Human Nutrition from the Miami University
- Diploma in Basic Nutrition and Food Education from the Complutense University of Madrid
- Diploma in Molecular Biology from the National University of Distance Education
- Diploma in Chemical Sciences, National University of Distance Education

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- Head of the General and Digestive System Service at Infanta Leonor University Hospital
- Specialist in General and Digestive System Surgery at the Infanta Leonor University Hospital
- Specialist of the General and Digestive Surgery Service at the Guadalajara University Hospital
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- PhD in Medicine and Surgery from the Complutense University of Madrid
- Degree in Medicine and Surgery from the Autonomous University of Madrid
- Specialty in General and Digestive Surgery at Hospital university 12 de Octubre
- Master's Degree in Clinical Management, Medical and Healthcare Management from the CEU Cardenal Herrera University

Dr. Solis, Miguel
- Physician specializing in Anesthesiology, Resuscitation and Pain Therapy at MD Anderson Cancer Center Hospital
- Specialist in Anesthesiology, Resuscitation and Pain Therapy at La Moraleja University Hospital
- Degree in Medicine

Dr. Olavarria Delgado, Andreina
- Medical Specialist in the Radiology Service at MD Anderson Cancer Center in Madrid
- Medical Specialist in the Radiology Department at Ramón y Cajal University Hospital
- Radiology Department Resident Tutor at the Ramón y Cajal University Hospital
- Master's Degree in Vascular and Non Vascular Interventional Procedures at the University of Zaragoza

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- PhD in Medicine and Surgery from the University of Alcalá de Henares
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- Specialist in General and Digestive System Surgery at the Ramón y Cajal University Hospital

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- Postgraduate Diploma in Dermatology, Tumors and Proctological Cancers
- Postgraduate Diploma in Pelvic Floor
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- Specialist in the Musculoskeletal and Breast Area at the Red Cross Hospital
- Doctor of Philosophy (PhD) in Medicine from the Francisco de Vitoria University
- Degree in Medicine from the University of Alcalá

Dr. Diaz Laugart, Enrique
- Specialist in Nuclear Medicine and Molecular Imaging at the Anderson Cancer Center Hospital
- Global Clinical Director at Oncovision INC
- Supervisor of Radioactive Installations of application in the field of Nuclear Medicine at the Center for Energy, Environmental and Technological Research
- Supervisor of Radioactive Facilities for application in the field of Radiodiagnosis at Hospital La Paz
- Degree in Medicine and Surgery from the Autonomous University of Las Palmas of Gran Canaria

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- Master's Degree in Neuroendocrine Tumors at the Complutense University of Madrid

Dr. Muñoz Hernández, Patricia
- Specialist in Anatomic Pathology at La Princesa University Hospital
- Expert in Digestive Pathology and Dermatopathology
- Specialist in Anatomic Pathology at MD Anderson Hospital

Dr. Encinas García, Sara
- Assistant Medical Oncologist in the Multidisciplinary Digestive Neoplasms Team at MD Anderson Cancer Center in Madrid
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- Researcher at MD Anderson Cancer Center of Madrid
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- Specialist in Surgery at La Paz University Hospital
- Degree in Medicine and Surgery from the Autonomous University of Madrid

Dr. Navarro, Ignacio
- Specialist in Radiation Oncology at Jiménez Díaz Foundation Hospital
- Lecturer of Europe Surface Guided Radiation Therapy
- Graduated in Medicine at the Complutense University of Madrid

Dr. Romero Ruiz, Antonio
- Biomedical Researcher at the Maimonides Institute of Biomedical Research of Cordoba
- Specialist in Oncological Surgery
- Molecular Biologist at Canvax Biotech
- Graduate in Biochemistry Medicine from the University of Córdoba

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- Specialist in General and Digestive Tract Surgery at La Fe University and Polytechnic Hospital in Valencia
- Master's Degree in Medical and Surgical Pathology of the Pelvic Floor by the Miguel Hernandez University of Elche
- Degree in Medicine from the Medical University of Silesia

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- Official Master's Degree in Research in Medicine from the Miguel Hernández University of Elche
- Degree in Medicine from the University of Valladolid

Dr. Castillo Tuñon, Juan Manuel
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- Doctorate in Medicine, University of Alcala
- Graduate in Medicine and Surgery from the University of Seville

Dr. Toledano Fonseca, Marta
- Researcher at the Maimonides Institute of Biomedical Research of Cordoba
- Master's Degree in Translational Biomedical Research from the University of Cordoba
- Master's Degree in Biotechnology, Pablo de Olavide University

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- Medical Oncology Specialist at Reina Sofía University Hospital of Córdoba
- Expert in Digestive Tumors in the Pancreaticobiliary area at Reina Sofía University Hospital of Córdoba
- Degree in Medicine from the University of Córdoba

Dr. Arizón, Alejandro
- Specialist in Anesthesiology and Resuscitation at 12 de Octubre University Hospital
- Specialist in Anesthesiology and Resuscitation at 12 de Octubre University Hospital
- Expert in Advanced Trauma Life Support at the Gregorio Marañón Hospital
- Graduate in Medicine

Dr. Franco Perez, Fernando Fabio
- Medical Specialist in the Medical Oncology Service at the Anderson Cancer Center of Madrid
- Medical Oncologist and researcher at the Puerta de Hierro University Hospital
- Specialist in Molecular Analysis of Primary Breast Lymphomas
- Expert in Thoracic Malignant Neoplasms
- Degree in Medicine and Surgery

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- Specialist in Gynecologic Oncology at MD Anderson Cancer Center Madrid
- Specialist in Gynecological Laparoscopic Surgery
- Master's Degree in Human Reproduction at the Complutense University of Madrid and Spanish Fertility Society
- Specialist in Menopause, Pelvic Floor and Sexuality
- Graduated in Medicine at the Complutense University of Madrid

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- Assistant Doctor in the Radiodiagnostic Service, Department of Vascular Radiology at 12 de Octubre University Hospital of Madrid
- Physician in the Radiodiagnostic Department
- Specialist in Vascular Radiology
- Lecturer at symposiums in the medical field
- Degree in Medicine

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- Specialist in Anesthesiology and Resuscitation at Puerta de Hierro Majadahonda University Hospital
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- Graduate in Medicine

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- Specialist in the Protocols and Transplants Unit
- Graduate in Medicine from the Complutense University of Madrid

Dr. Pérez Enguix, Daniel Bernardo
- Clinical Chief of the Interventional Radiology section of La Fe University and Polytechnic Hospital
- PhD in Medicine and Surgery from the University of Valencia
- Specialist in interventional oncology with special dedicationto hepatic pathology
- Medical Specialist in Radiodiagnosis

Dr. Calvo Pulido, Jorge
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- Lecturer at symposiums in the medical field
- Hospital Academic in Medicine and Surgery
- Degree in Medicine and Surgery

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- Specialist in General Surgery, Digestive System and Abdominal Organ Transplantation at 12 de Octubre Hospital
- Specialist in Digestive System and Abdominal Organ Transplantation
- Expert in General Surgery
- Degree in Medicine from the University of Santiago de Compostela

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- Doctor of General and Digestive System Surgery and Abdominal Organ Transplant at the 12 Octubre University Hospital
- Specialist in General and Digestive System Surgery
- Specialist in Abdominal Organ Transplantation
- Observership in the Hepatobiliary and Pancreatic Surgery Unit of the Mayo Clinic, Florida
- Graduate in Medicine from the University of Granada

Dr. Lozano, Pablo
- Specialist in Surgery of Malignant Peritoneal Disease, Sarcomas and Advanced Pelvic Tumors at Gregorio Marañón General University Hospital
- Medical Officer in International Cooperation campaigns as General Surgeon
- Specialist in the units of Oncological Cancer, Neoplasia or Peritoneal Pseudomyxoma
- Specialist in the Organ Transplantation Unit
- International Surgical Oncology Fellow at Memorial Sloan Kettering Cancer Center
- Lecturer at symposiums on Entrepreneurship in Surgery
- Degree in Medicine and Surgery

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- Specialist in General and Digestive System Surgery
- Researcher in the field of General and Digestive System Surgery
- Degree in Medicine from the University of Santiago de Compostela

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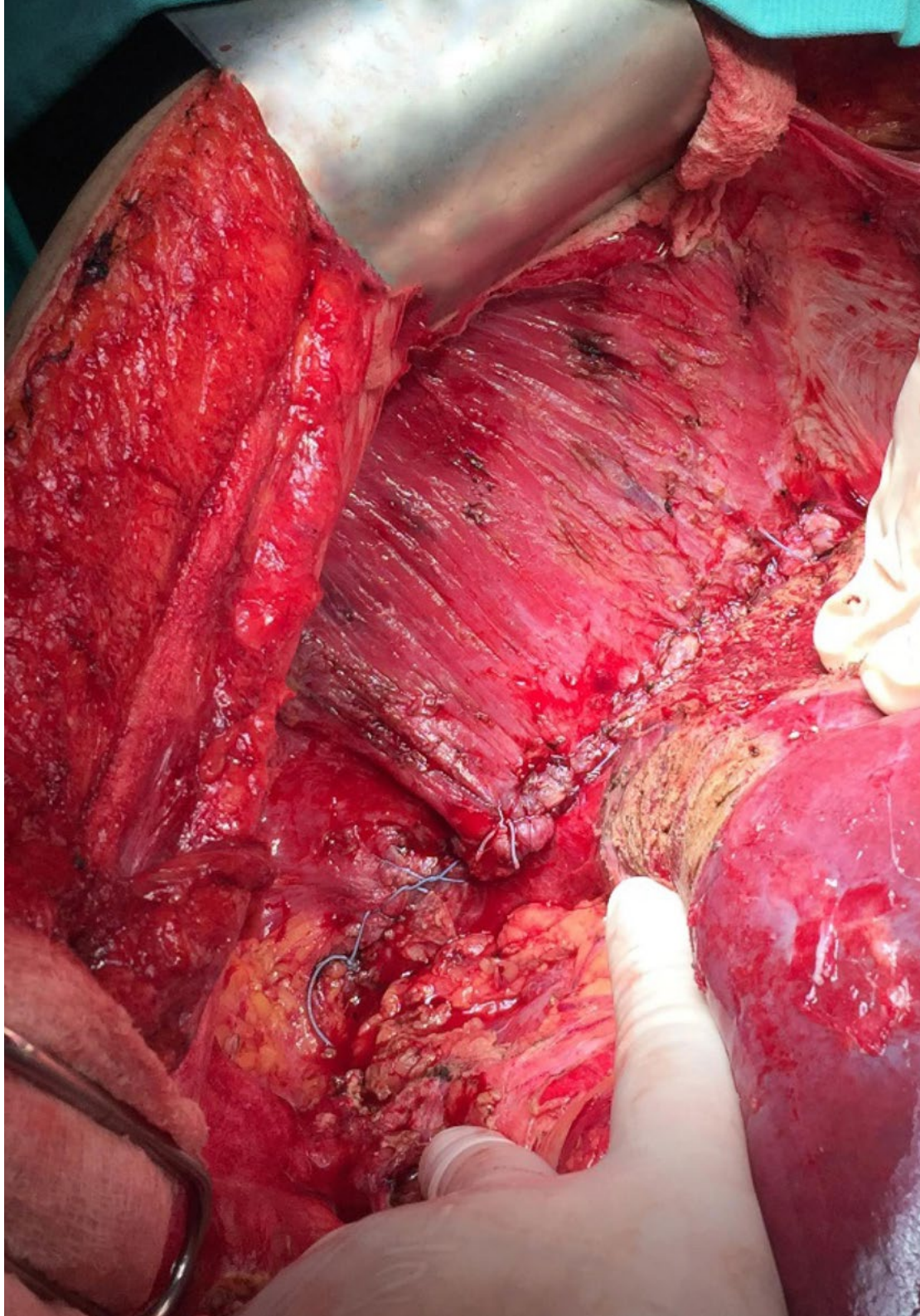
- Specialist in the Service of Peritoneal Surgery, Sarcoma and Complete Pelvis in the Gregorio Marañón General University Hospital
- Specialist in Peritoneal Surgery, Sarcoma and Pelvis
- Lecturer at symposiums in the medical field
- Degree in Medicine and Surgery

Dr. Ayllón Terán, María Dolores
- Specialist of Hepatobiliary Surgery at Reina Sofía University Hospital
- Doctor in Surgery
- Scientific researcher in the field of Artificial Intelligence applied to Liver Transplantation and Damage Control Surgery
- Degree in Medicine and Surgery



Dr. Ortiz Tarín, Inmaculada

- Specialist in General and Digestive System Surgery at Dr. Peset University Hospital in Valencia
- General Surgeon in Valencia
- Researcher in the field of General and Digestive Surgery
- Author of several scientific publications
- General and Digestive System Surgery Physician

Dr. Aranaz Murillo, Amalia

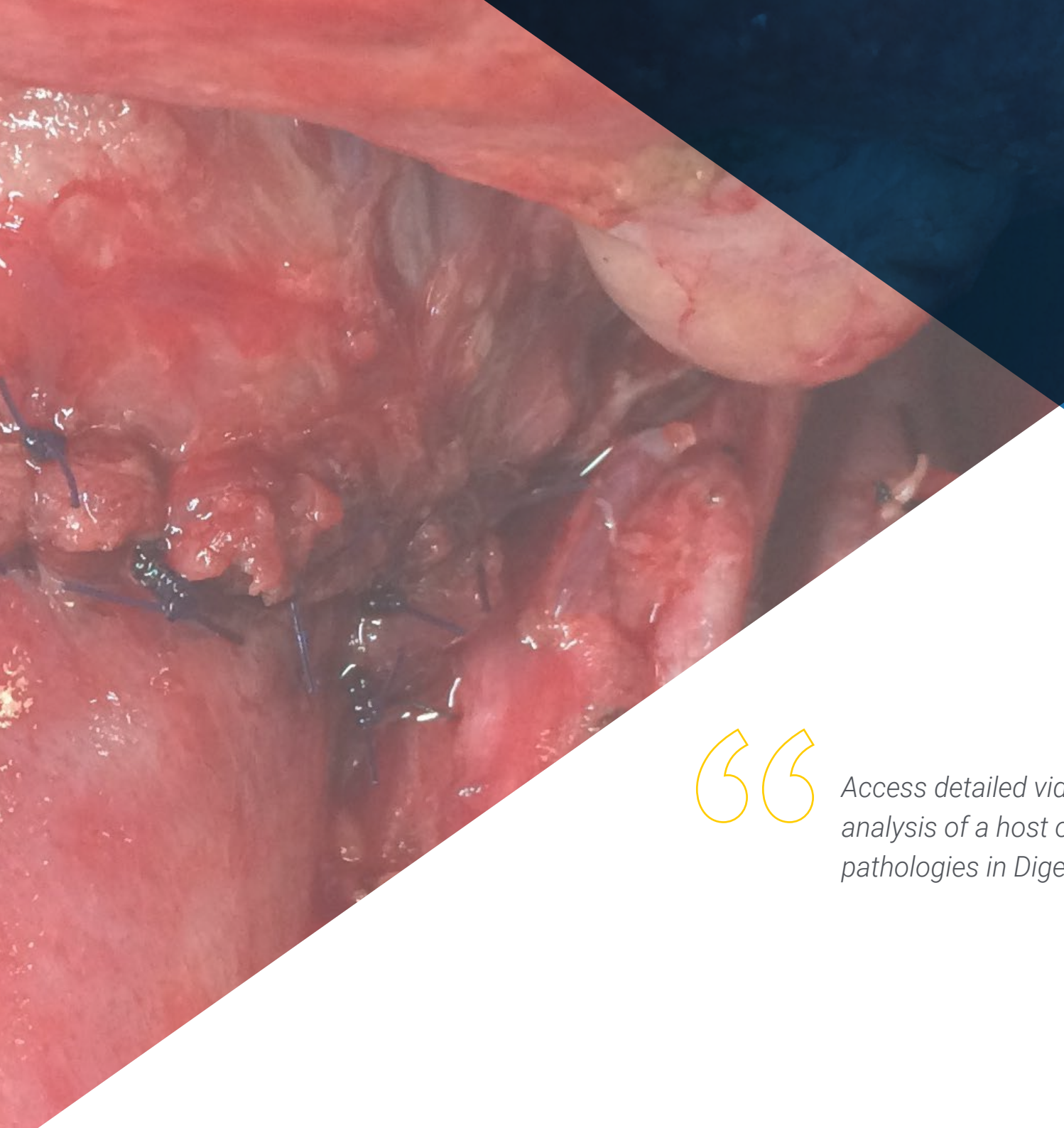
- Resident Doctor in Radiodiagnosis at Miguel Servet University Hospital
- Specialist in the area of Radiodiagnosis.
- Expert in the Radiology and Diagnostic Imaging Unit
- Expert in Urinary Sepsis and Hemodynamic Instability
- Degree in Medicine by the University of Seville

A unique, crucial and decisive learning experience to boost your professional development"

05

Structure and Content

All the contents of this Professional Master's Degree have been developed based on the Relearning pedagogical methodology. This implies that the academic experience is more dynamic and effective, since the key concepts in Digestive Oncologic Surgery are reiterated and provided in a natural way throughout the program. In turn, this saves a considerable amount of the study hours required to pass the course.



Access detailed videos, case studies and practical analysis of a host of common and uncommon pathologies in Digestive Oncologic Surgery"

Module 1. Digestive Oncologic Surgery

1.1. Surgical Anatomy of the Abdomen
- 1.1.1. Anatomy of the Abdominal Cavity
- 1.1.2. Esophagogastric Anatomy
- 1.1.3. Hepatobiliary Anatomy
- 1.1.4. Colorectal Anatomy

1.2. Prehabilitation Multimodal Rehabilitation
- 1.2.1. Prehabilitation
- 1.2.2. Intraoperative Measures
- 1.2.3. Postoperative Measures

1.3. Fundamentals of Nutrition in Oncological Digestive Surgery
- 1.3.1. Determination of Nutritional Status
- 1.3.2. Consequences of Malnutrition
- 1.3.3. Measures to Improve Preoperative Nutritional Status

1.4. Anesthesia in Oncologic Digestive Surgery
- 1.4.1. Preparation for Anesthesia
- 1.4.2. The Importance of Anesthesia in Oncologic Surgery
- 1.4.3. Anesthesia in Complex Surgeries

1.5. Post-Surgical Resuscitation
- 1.5.1. Patient Optimization after Surgery
- 1.5.2. Detection of Early Complications
- 1.5.3. Sepsis and Systemic Inflammatory Response

1.6. Palliative Surgery in Digestive Oncology
- 1.6.1. What is Palliation?
- 1.6.2. When do we Talk about Palliation?
- 1.6.3. Palliative Surgical Techniques

1.7. Fundamentals of Emergency Surgery in Digestive Oncology
- 1.7.1. Urgent Situations in Oncologic Surgery
- 1.7.2. Urgent Esophagogastric Surgery
- 1.7.3. Urgent Hepatobiliary Surgery
- 1.7.4. Urgent Colorectal Surgery

1.8. Molecular Basis of Digestive Oncology

1.9. Interaction Between Systemic Treatments and Surgery
- 1.9.1. Mechanism of Action of Systemic Oncologic Treatments
- 1.9.2. Interaction and Consequences on Surgery
- 1.9.3. Measures to Minimize Related Surgical Complications Systemic Contracting

1.10. Radiation Oncology in Digestive Oncologic Surgery
- 1.10.1. Fundamental Concepts of Radiotherapy
- 1.10.2. Principles of Radiotherapy in the Different Organs of the Digestive Tract
- 1.10.3. Side Effects of Radiotherapy on the Gastrointestinal Tract Prevention and Treatment

Module 2. Complementary Studies in Digestive Oncologic Surgery

2.1. Role of Conventional Radiological Techniques
- 2.1.1. Initial Diagnosis
- 2.1.2. Extension Study in Patients with Digestive Tumors
- 2.1.3. Treatment Plan

2.2. Role of Conventional Radiology in the Early Diagnosis and Follow-Up of Patients with Digestive Tumors
- 2.2.1. Ultrasound
- 2.2.2. CAT
- 2.2.3. MRI

2.3. Role of Interventional Radiology in Digestive Tumors
- 2.3.1. Diagnostic Techniques
- 2.3.2. Participation in Treatment
- 2.3.3. Role in the Management of Complications

2.4. Nuclear Medicine in the Management of Digestive Tumors
- 2.4.1. Diagnostic Techniques
- 2.4.2. Role in Treatment
- 2.4.3. Radioguided Surgery

2.5. Anatomopathologic Diagnosis Beyond Morphology
- 2.5.1. Importance of Intraoperative Biopsy
- 2.5.2. Handling of Fresh Specimen and Study of Margins
- 2.5.3. Histological Risk Factors
- 2.5.4. Standardization of Reports

2.6. Molecular Diagnoses
- 2.6.1. Concept of Molecular Diagnostics
- 2.6.2. Cancer Panels
- 2.6.3. From Diagnosis to the Design of Personalized Therapies

2.7. Genetic Study in Patients with Risk Factors for Digestive Tumors
- 2.7.1. Hereditary Syndromes Associated with Digestive Tumors
- 2.7.2. Detection of Patients at Risk
- 2.7.3. Follow-Up and Prophylactic Treatment in Patients at Risk

2.8. Endoscopy in the Diagnosis and Treatment of Digestive Tumors
- 2.8.1. Conventional and Advanced Diagnostic Endoscopy
- 2.8.2. Introduction to Endoscopic Techniques for the Treatment of Digestive Tumors
- 2.8.3. Endoscopy in Palliative Treatment

2.9. Microbiome and Digestive Tumors
- 2.9.1. Microbiota Concept
- 2.9.2. Role of the Microbiome in Carcinogenesis
- 2.9.3. Role of the Microbiome in the Early Diagnosis and Prevention of Digestive Tumors

2.10. Preoperative Assessment of the Elderly Patient
- 2.10.1. Surgical Risk Scales
- 2.10.2. Concept of Fragility
- 2.10.3. Prehabilitation in the Elderly

Module 3. Colorectal Oncologic Surgery

3.1. Colorectal Cancer
- 3.1.1. Epidemiology and Etiopathogenesis
- 3.1.2. Diagnosis and Staging
- 3.1.3. Follow-up and Prognosis of Colorectal Adenocarcinoma

3.2. Polyposis Syndromes
- 3.2.1. Diagnosis
- 3.2.2. Treatment
- 3.2.3. Monitoring

3.3. Endoscopic Management of Precursor Lesions and Early Cancer
- 3.3.1. Biliopancreatic Precursor Lesions
- 3.3.2. Early Cancer
- 3.3.3. Decisions after Endoscopic Resection

3.4. Surgical Treatment of Colon Cancer Fundamental Concepts about Ostomies
- 3.4.1. Right Colon
- 3.4.2. Transverse Colon
- 3.4.3. Left Colon
- 3.4.4. Colostomies and Ileostomies

3.5. Surgical Anatomy of the Pelvis
- 3.5.1. General Concepts
- 3.5.2. Male Pelvis
- 3.5.3. Female Pelvis

3.6. Surgical Treatment of Rectal Cancer
- 3.6.1. Early Stages
- 3.6.2. Advanced Stages
- 3.6.3. Functional Sequelae

3.7. Medical Oncology in Colorectal Cancer
- 3.7.1. Non-Metastatic Colorectal Cancer
- 3.7.2. Metastatic Colorectal Cancer
- 3.7.3. Palliative Treatment

3.8. Radiation Oncology in Colorectal Cancer
- 3.8.1. Radiotherapy in Rectal Cancer
- 3.8.2. Radiotherapy in Pelvic Recurrence
- 3.8.3. Radiotherapy in Special Situations

3.9. Total Neoadjuvant Treatment in Rectal Cancer *Watch and Wait*
- 3.9.1. Concept and Justification of TNT
- 3.9.2. Current TNT Schemes
- 3.9.3. Watch and Wait Concept, Handling and Indications

3.10. Surgical Treatment in Special Situations
- 3.10.1. Pelvic Recurrence of Rectal Cancer
- 3.10.2. Positive Pelvic Adenopathies in Rectal Cancer
- 3.10.3. Retroperitoneal Lymph Node Recurrence: Surgery vs. Radiotherapy

Module 4. Esophagogastric Oncologic Surgery

4.1. General Aspects from Esophageal Cancer
- 4.1.1. Epidemiology and Etiopathogenesis
- 4.1.2. Classification and Diagnosis
- 4.1.3. Monitoring and Prognosis

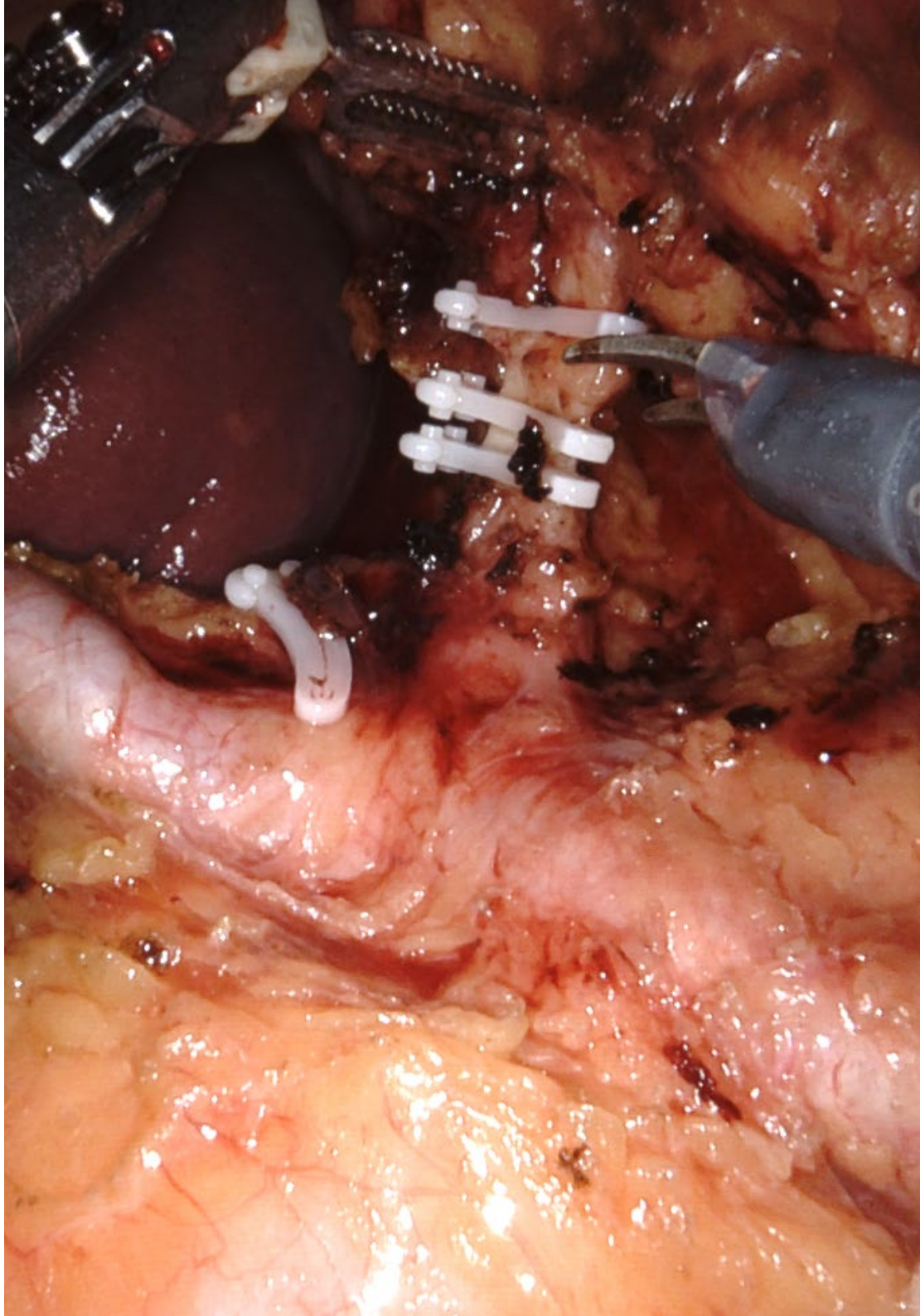
4.2. Surgical Treatment of Esophageal Cancer
- 4.2.1. Types of Anastomosis
- 4.2.2. Standard and Extended Lymphadenectomy
- 4.2.3. Alternatives to Gastric Plasty Reconstruction

4.3. Endoscopic and Interventional Treatment of Esophageal Cancer
- 4.3.1. Treatment of Precursor Lesions
- 4.3.2. Treatment of Early Cancer
- 4.3.3. Palliative Treatment
- 4.3.4. Management of Complications

4.4. Cancer of the Oesophagogastric Junction
- 4.4.1. Controversies in the Management of UEG Cancer
- 4.4.2. Approach According to the New Clinical Guidelines
- 4.4.3. Lymphadenectomy and Surgical Approach

4.5. General Aspects of Gastric Cancer
- 4.5.1. Epidemiology and Etiopathogenesis
- 4.5.2. Classification and Diagnosis
- 4.5.3. Monitoring and Prognosis

4.6. Surgical Treatment of Gastric Cancer
- 4.6.1. Anastomosis
- 4.6.2. Technical Basis of Lymphadenectomy
- 4.6.3. Treatment of Non-Adenocarcinoma Tumors
- 4.6.4. Endoscopic Treatment



4.7. Oncologic Therapies for Esophagogastric Tumors
- 4.7.1. Neoadjuvant and Adjuvant Chemotherapy
- 4.7.2. Neoadjuvant and Adjuvant Radiotherapy
- 4.7.3. New Oncological Therapies: Immunotherapy

4.8. Oncologic Esophagogastric Surgery Complications
- 4.8.1. Immediate Postoperative Complications
- 4.8.2. Post Gastrectomy Sequelae
- 4.8.3. Post-Thesophagectomy Sequelae

4.9. Intensified Recovery in Esophagogastric Surgery
- 4.9.1. Prehabilitation
- 4.9.2. Optimization
- 4.9.3. Clinical Pathway

4.10. Research and Innovation in Esophagogastric Oncologic Surgery

Module 5. Liver and Biliary Tract I. General. Liver Tumors

5.1. Surgical Anatomy of the Liver
- 5.1.1. Hepatic Segmentation
- 5.1.2. Hepatic Vascular Distribution
- 5.1.3. Anatomy of the Biliary Tract

5.2. Diagnostic Tests in Hepatobiliary Pathology
- 5.2.1. Ultrasound
- 5.2.2. CAT
- 5.2.3. MRI

5.3. Assessment of Residual Liver Volume and Function
- 5.3.1. Concept and Limits of Residual Hepatic Volume
- 5.3.2. Techniques for Measuring RHV
- 5.3.3. Methods of Liver Function Determination

5.4. Principles of Liver Surgery
- 5.4.1. Fundamental Aspects and Phases of Hepatic Resection
- 5.4.2. Parenchymal Section Techniques
- 5.4.3. Pringle's Maneuver and Vascular Control
- 5.4.4. Hemostasis and Bilistasis

5.5. Techniques to Increase Hepatic Resectability
- 5.5.1. Hepatic Regeneration
- 5.5.2. Portal Embolization and 2-Stage Surgery
- 5.5.3. ALPPS Technique

5.6. Minimally Invasive Hepatic Surgery: Laparoscopy and Robotics
- 5.6.1. Basis of Minimally Invasive Surgery in Hepatobiliary Surgery
- 5.6.2. Laparoscopic Approach
- 5.6.3. Contribution of the Robotic Approach

5.7. Complications of Hepatic Surgery and Postoperative Management
- 5.7.1. Post-Operative Care ERAS
- 5.7.2. Complications of Hepatobiliary Surgery
- 5.7.3. Treating Complications

5.8. Benign and Malign Hepatic Tumors
- 5.8.1. Benign Hepatic Tumors
- 5.8.2. Malign Hepatic Tumors
- 5.8.3. Hepatocellular Carcinoma: Epidemiology, Risk Factors, Classification and Diagnosis

5.9. Hepatocarcinoma: Non-Surgical Treatment
- 5.9.1. Alternative Treatments and "Bridges" to Surgery
- 5.9.2. Medical Treatment

5.10. Hepatocarcinoma: Surgical Treatment
- 5.10.1. Study of the Patient with Hepatocarcinoma
- 5.10.2. Surgical Resection
- 5.10.3. Liver Transplant

Module 6. Liver and Biliary Tract II. Tumors of the Biliary Tract. Liver Metastases

6.1. General Aspects of Gallbladder and Bile Duct Cancer
- 6.1.1. Epidemiology and Etiopathogenesis
- 6.1.2. Classification
- 6.1.3. Diagnosis

6.2. Surgery of the Bile Duct and Gallbladder Tumors
- 6.2.1. Surgery of Intrahepatic BV Tumors
- 6.2.2. Surgery of Extrahepatic BV Tumors
- 6.2.3. Surgery of Gall Bladder Tumors

6.3. Endoscopic and Interventional Treatment of Biliary Tract and Gallbladder Tumors
- 6.3.1. Preoperative Endoscopic Treatment
- 6.3.2. Preoperative Interventional Radiology
- 6.3.3. Endoscopic Treatment of Complications
- 6.3.4. Interventional Radiology in Complications

6.4. Medical Oncology Treatment of Biliary Tract and Gallbladder Tumors
- 6.4.1. Medical Oncology in Biliary Tract Cancer
- 6.4.2. Medical Oncology in Gallbladder Cancer

6.5. Radiation Oncology Treatment of Biliary Tract and Gallbladder Tumors
- 6.5.1. Radiotherapy in Biliary Tract Cancer
- 6.5.2. Radiotherapy in Gallbladder Cancer

6.6. General Aspects of Liver Metastases
- 6.6.1. Epidemiology and Etiopathogenesis
- 6.6.2. Classification
- 6.6.3. Diagnosis and Prognosis

6.7. Surgical Treatment of Liver Metastases from Colorectal Cancer and Alternatives to Surgical Treatment
- 6.7.1. Evaluation and Surgical Planning in Patients with Colorectal Cancer Liver Metastases
- 6.7.2. Surgical Alternatives and Transplantation
- 6.7.3. Non-Surgical Alternatives

6.8. Medical Oncology in the Treatment of Liver Metastases from Colorectal Cancer
- 6.8.1. Neoadjuvant and Adjuvant Treatment
- 6.8.2. Palliative Treatment
- 6.8.3. New Perspectives

6.9. Metastases of Neuroendocrine Tumors
- 6.9.1. Classification, Diagnosis and Prognosis
- 6.9.2. Surgical Treatment
- 6.9.3. Role of Liver Transplantation

6.10. Hepatic Metastases of other Non-Colorectal Non-Neuroendocrine Tumors
- 6.10.1. Metastases of ENT Tumor
- 6.10.2. Esophagogastric Tumor Metastases
- 6.10.3. Metastasis of Breast Cancer 1
- 6.10.4. Metastases of Pancreatic Cancer

Module 7. Pancreas, Duodenum and Spleen

7.1. Epidemiological, Risk and Genetic Factors of Pancreatic Cancer
- 7.1.1. Epidemiology of Pancreatic Cancer
- 7.1.2. Risk Factors
- 7.1.3. Genetics

7.2. Diagnosis of Pancreatic Cancer
- 7.2.1. Radiology
- 7.2.2. Endoscopy
- 7.2.3. PET-CAT

7.3. Therapeutic Strategy according to the NCCN Classification of Pancreatic Cancer
- 7.3.1. Resectable Tumor
- 7.3.2. Borderline Tumor
- 7.3.3. Unresectable Tumor
- 7.3.4. Metastatic Tumor

7.4. Surgical Techniques by Laparotomy in Pancreatic Cancer
- 7.4.1. Cephalic Duodenopancreatectomy
- 7.4.2. Distal Pancreatectomy
- 7.4.3. Central Pancreatectomy

7.5. Minimally Invasive Techniques: Laparoscopic and Robotic in Pancreatic Cancer
- 7.5.1. Laparoscopic Duodenopancreatectomy
- 7.5.2. Laparoscopic Distal Pancreatectomy
- 7.5.3. Robotic Surgery of the Pancreas

7.6. Palliative Surgical Techniques in Pancreatic Cancer
- 7.6.1. Palliation of Jaundice
- 7.6.2. Digestive Obstruction
- 7.6.3. Pain Control
- 7.6.4. Palliative Ablative Techniques

7.7. Postoperative Complications in Pancreatic Cancer
- 7.7.1. Pancreatic Fistula
- 7.7.2. Delayed Gastric Emptying
- 7.7.3. Postoperative Hemorrhage
- 7.7.4. Biliary Fistula
- 7.7.5. Other Complications

7.8. Chemotherapy and Radiotherapy in Pancreatic Cancer
- 7.8.1. Neoadjuvant
- 7.8.2. Adjuvants
- 7.8.3. Palliative Medical Treatment
- 7.8.4. Radiotherapy

7.9. Other Pancreatic Tumors
- 7.9.1. Cystic Tumors
- 7.9.2. Neuroendocrine Tumors
- 7.9.3. Infrequent Tumors of the Pancreas

7.10. Duodenal and Spleen Tumors
- 7.10.1. Duodenal Tumors
- 7.10.2. Spleen Tumors

Module 8. Malignant Peritoneal Disease

8.1. Principles of Treatment of Malignant Peritoneal Diseases
- 8.1.1. Pathophysiology of Peritoneal Dissemination Mechanisms
- 8.1.2. Indications for Radical vs. Palliative Treatment
- 8.1.3. Prognostic Factors

8.2. Assessment of Malignant Peritoneal Disease
- 8.2.1. Prognostic Factors
- 8.2.2. The role of Laparoscopy
- 8.2.3. Histological Classification

8.3. Cytoreductive Surgery: Technique
- 8.3.1. Patient Preparation and Positioning
- 8.3.2. Peritonectomy Procedures
- 8.3.3. Criteria of Non-Viability

8.4. Intraperitoneal Chemotherapy
- 8.4.1. Pharmacokinetic Basis
- 8.4.2. Modalities of Intraperitoneal Chemotherapy: Indications and Use
- 8.4.3. HIPEC Technique

8.5. Neoplasms of the Cecal Appendix
- 8.5.1. Histological Classification
- 8.5.2. Natural History and Staging
- 8.5.3. Surgical Treatment

8.6. Pseudomyxoma Peritoneum
- 8.6.1. Definition and Epidemiology
- 8.6.2. Histopathological Classification and Prognosis
- 8.6.3. Treatment

8.7. Peritoneal Carcinomatosis due to Colorectal Cancer
- 8.7.1. Treatment
- 8.7.2. Role of MRI
- 8.7.3. Early Diagnosis and Prevention

8.8. Peritoneal Carcinomatosis due to Gastric Cancer
- 8.8.1. Treatment with Radical Intent: Selection
- 8.8.2. Palliative Treatment: Intraperitoneal Options
- 8.8.3. Prevention

8.9. Peritoneal Carcinomatosis due to Ovarian Cancer
- 8.9.1. Primary Treatment
- 8.9.2. Role of MRI
- 8.9.3. Treatment of Peritoneal Recurrence

8.10. Peritoneal Mesothelioma
- 8.10.1. Definition and Epidemiology
- 8.10.2. Histopathological Classification and Prognosis
- 8.10.3. Treatment

Module 9. Mesenchymal Tumors Small Intestine Tumors

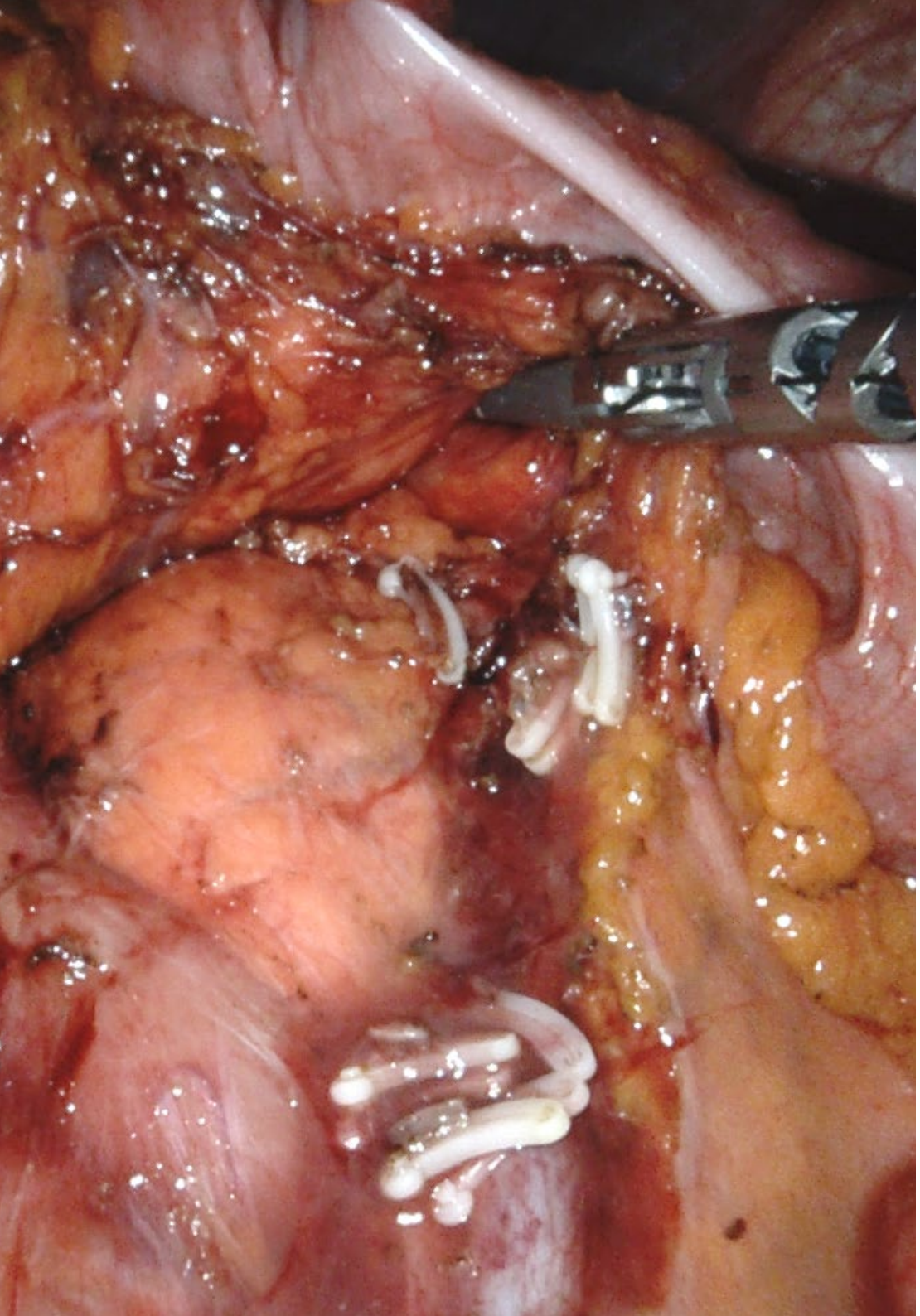
9.1. Epidemiology, Diagnosis and Classification of Soft Tissue Sarcomas and Retroperitoneal Sarcomas Role of Biopsy
- 9.1.1. Epidemiology
- 9.1.2. Classification
- 9.1.3. Diagnostic Techniques
- 9.1.4. Role of Biopsy

9.2. Principles of Diagnostic Imaging of Mesenchymal Tumors
The Role of Radiology in the Evaluation of Response to Treatment
- 9.2.1. Mesenchymal Tumors: General Information
- 9.2.2. Types of Soft Tissue Tumors
- 9.2.3. Soft Tissue Tumors: Diagnostic Approach
- 9.2.4. Soft Tissue Tumors: in Detail
- 9.2.5. Retroperitoneal Sarcomas
- 9.2.6. Mesenchymal Tumors of the Gastrointestinal Tract
- 9.2.7. GIST (GastroIntestinal Stromal Tumours)
- 9.2.8. Role of Radiology in the Response to Treatment and Follow-Up of Non-GIST Soft Tissue Sarcomas

9.3. Surgical Treatment of Gastrointestinal Stromal Tumors (GIST) Radical Surgery, Minimally Invasive Surgery, Surgery for Recurrence, Surgery for Metastasis
- 9.3.1. Incidence and Epidemiology
- 9.3.2. Histology and Molecular Biology
- 9.3.3. Clinical Features and Diagnostic Approach
- 9.3.4. Staging and RISK FACTORS
- 9.3.5. Treating Locoregional Disease
  - 9.3.5.1. Radical Surgery
  - 9.3.5.2. Anatomical Location and Surgical Technique
  - 9.3.5.3. Minimally Invasive Surgery
  - 9.3.5.4. Indications for Adjuvant Therapy in Localized Disease
- 9.3.6. Treatment of Locally Advanced Disease
- 9.3.7. Treatment of Residual, Recurrent or Metastatic Disease
- 9.3.8. Monitoring

9.4. Systemic Treatment, Prognosis, and Genotyping of GISTs
- 9.4.1. Introduction
- 9.4.2. Molecular Biology and Classification
  - 9.4.2.1. GIST with SDH-Competent Complex and Mutations in KIT or PDGFRA
    - 9.4.2.1.1. KIT Gene
    - 9.4.2.1.2. PDGFRA Gene
    - 9.4.2.1.3. Therapeutic Consequences in Localized and Advanced Disease
  - 9.4.2.2. GIST without KIT/PDGFRA Mutations and SDH-Competent SDH Complex
    - 9.4.2.2.1. NF1 Mutations
    - 9.4.2.2.2. BRAF Mutations
    - 9.4.2.2.3. NTRK Mutations
    - 9.4.2.2.4. FGFR Mutations
    - 9.4.2.2.5. Other Rare Mutations
- 9.4.3. GIST with Deficient SDH Complex
- 9.4.4. Histopathology of GIST
- 9.4.5. Localized Disease and Risk Stratification

9.5. Retroperitoneal Sarcomas Principles of Systemic and Radiotherapeutic Treatment
- 9.5.1. Introduction
- 9.5.2. Content
- 9.5.3. Neoadjuvant/Preoperative Therapy
  - 9.5.3.1. Radiotherapy
  - 9.5.3.2. Chemotherapy
  - 9.5.3.3. Hyperthermia
- 9.5.4. Intraoperative Radiotherapy
- 9.5.5. Adjuvant/Postoperative Therapy
  - 9.5.5.1. Radiotherapy
  - 9.5.5.2. Chemotherapy
- 9.5.6. Expert Recommendations
  - 9.5.6.1. National Comprehensive Cancer Network (NCCN)
  - 9.5.6.2. European Society for Medical Oncology (ESMO)
  - 9.5.6.3. Transatlantic Task Force on Retroperitoneal Sarcomas (TARPSWG)
- 9.5.7. Monitoring



9.6. Surgical Treatment of Retroperitoneal Sarcomas
- 9.6.1. Introduction
- 9.6.2. Surgery in Retroperitoneal Liposarcoma
  - 9.6.2.1. Basics of Compartment Surgery
  - 9.6.2.2. Surgical Technique of Compartment Surgery
- 9.6.3. Surgery in Other Retroperitoneal Sarcomas
- 9.6.4. Surgical Management of Recurrence

9.7. Soft Tissue Sarcomas of the Extremities and Thoracic Wall
- 9.7.1. Introduction
  - 9.7.1.1. Classification
  - 9.7.1.2. Incidence, Location and Risk Factors
- 9.7.2. Diagnosis
  - 9.7.2.1. Local Exploration
  - 9.7.2.2. Complementary Tests
- 9.7.3. Histological Diagnosis
  - 9.7.3.1. Degrees
  - 9.7.3.2. Histology
  - 9.7.3.3. Tumor Staging
- 9.7.4. Treatment Management
  - 9.7.4.1. Localized Disease
    - 9.7.4.1.1. Surgery
    - 9.7.4.1.2. Radiotherapy
    - 9.7.4.1.3. Chemotherapy
    - 9.7.4.1.4. Isolated Limb Perfusion
- 9.7.5. Metastatic Cancer
  - 9.7.5.1. Monitoring

9.8. Small Intestine and Mesenteric Tumors Neuroendocrine Tumors of the Gastrointestinal Tract
- 9.8.1. Classification
- 9.8.2. Adenocarcinoma of the Small Intestine
  - 9.8.2.1. Pathogenesis, Risk Factors and Predisposing Conditions
  - 9.8.2.2. Staging and Prognosis
  - 9.8.2.3. Clinical Characteristics
  - 9.8.2.4. Diagnosis
  - 9.8.2.5. Treatment
- 9.8.3. Lymphomas
  - 9.8.3.1. Clinical Characteristics
  - 9.8.3.2. Diagnosis
- 9.8.4. Neuroendocrine Tumors of the Gastrointestinal Tract
  - 9.8.4.1. Classification and Nomenclature
  - 9.8.4.2. Incidence and Epidemiology
  - 9.8.4.3. Anatomy and Pathophysiology
  - 9.8.4.4. Clinical Presentation
  - 9.8.4.5. Diagnosis
  - 9.8.4.6. Staging and Risk Factors
  - 9.8.4.7. Surgical Treatment
  - 9.8.4.8. Medical Treatment
  - 9.8.4.9 Follow-Up

9.9. Desmoid Fibromatosis Role of Molecular Biology, Radiotherapy, Chemotherapy and "Watch and Wait"
- 9.9.1. Introduction
- 9.9.2. Molecular Biology
- 9.9.3. Radiotherapy
- 9.9.4. Chemotherapy
- 9.9.5. Watch and wait

9.10. Surgery for Metastatic Disease in Mesenchymal Tumors
- 9.10.1. Surgical Treatment of Pulmonary Metastases
- 9.10.2. Surgical Treatment of Hepatic Metastases
- 9.10.3. Surgical Treatment of Peritoneal Metastases
  - 9.10.3.1. Role of HIPEC Therapy in Peritoneal Sarcomatosis
    - 9.10.3.1.1. Peritoneal Sarcomatosis of Uterine Origin
    - 9.10.3.1.2. Peritoneal Sarcomatosis of Retroperitoneal Origin
    - 9.10.3.1.3. Peritoneal Sarcomatosis Secondary to GIST

Module 10. Innovation, Research and Development in Digestive Oncologic Surgery

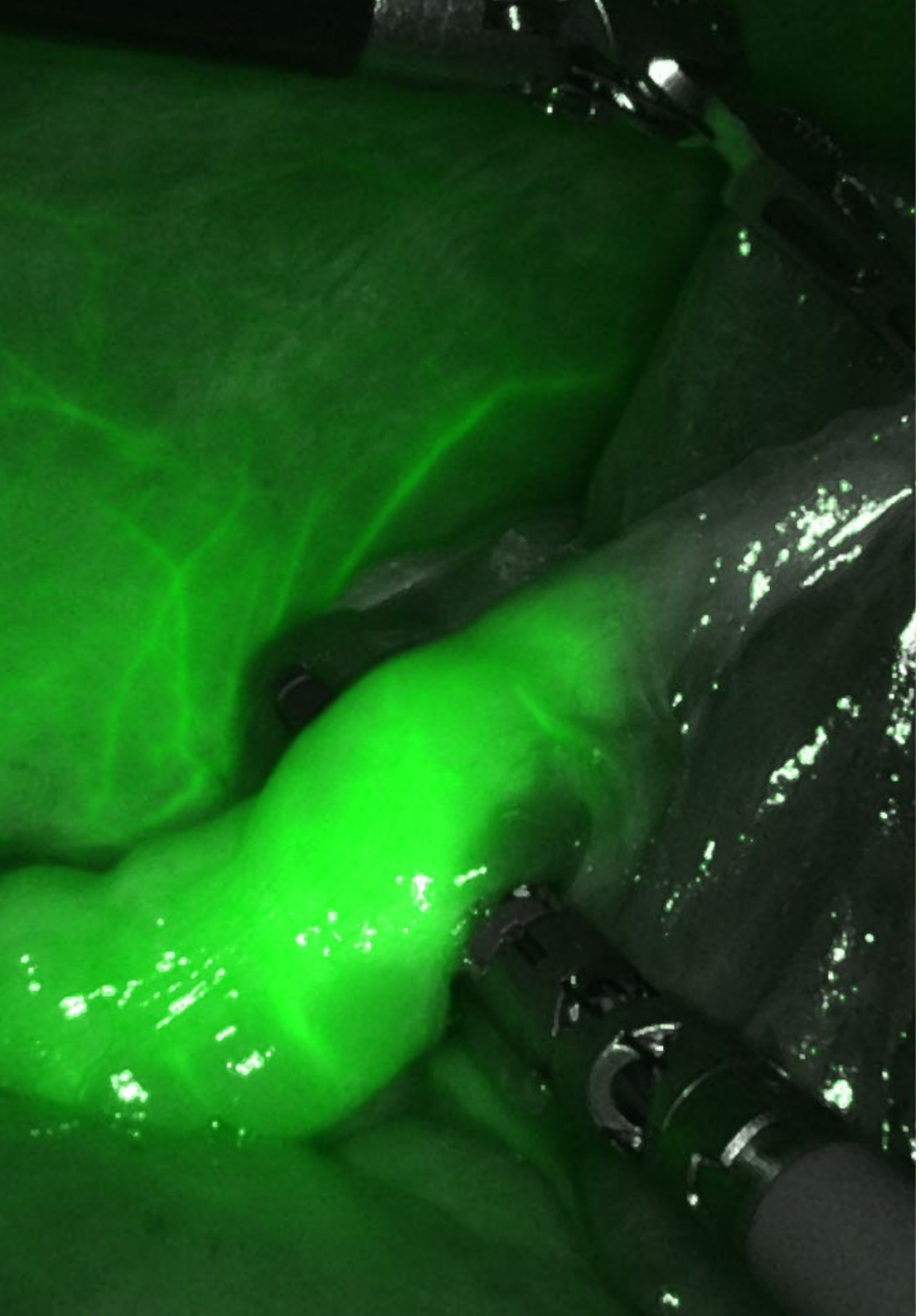
10.1. Basic Research in Oncological Surgery
- 10.1.1. Genomic Introduction
- 10.1.2. Introduction to Proteomics
- 10.1.3. Introduction to Cytometry

10.2. Platforms for Testing New Therapies
- 10.2.1. Animal Models
- 10.2.2. 2D Cellular Models
- 10.2.3. 3D Organoid Models

10.3. Clinical Research in Oncologic Surgery
- 10.3.1. Clinical Trial Design
- 10.3.2. Sources of Financing
- 10.3.3. Introduction to Grant Application Methodology

10.4. Big Data, Artificial Intelligence and the Use of Neural Networks in Oncology Research
- 10.4.1. Introduction to Big Data
- 10.4.2. Artificial Intelligence in Oncological Surgery
- 10.4.3. Use of Neural Networks in Oncologic Research

10.5. Techniques and Applications of Fluorescence in Advanced Oncologic Surgery
- 10.5.1. Use of Fluorescence in Oncologic Surgery
- 10.5.2. Techniques of Use, Doses, Times
- 10.5.3. Results



10.6. Navigation Systems, 3D Models and Intraoperative Virtual Reality in the Approach to Oncologic Disease
- 10.6.1. Browsing Systems
- 10.6.2. Uses and Application of 3D Models
- 10.6.3. Intraoperative Virtual Reality

10.7. Minimally Invasive Approach in Complex Oncologic Surgery
- 10.7.1. Concept of Minimally Invasive Approach and Modalities
- 10.7.2. Description of the Different Modalities
- 10.7.3. Robotics

10.8. Intraoperative Ablative and Adjuvant Techniques in Oncologic Surgery
- 10.8.1. Intraoperative Ablation Techniques: Mechanism of Action
- 10.8.2. Differences, Advantages, and Disadvantages
- 10.8.3. Intraoperative Radiotherapy

10.9. Liquid Biopsy and Circulating DNA as Diagnostic and Prognostic Methods in Advanced Neoplastic Disease
- 10.9.1. What is Liquid Biopsy?
- 10.9.2. How is an Fluid Biopsy Done?
- 10.9.3. Applications of Liquid Biopsy

10.10. New lines of Oncological Treatment
- 10.10.1. Target Therapy in Digestive Oncology and Sarcomas
- 10.10.2. Immunotherapy in Digestive Tumors
- 10.10.3. CAR-T Therapy

Download all the contents to gain an essential reference guide in the field of Oncologic Digestive Surgery, being useful even after the end of the program"

06

Methodology

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

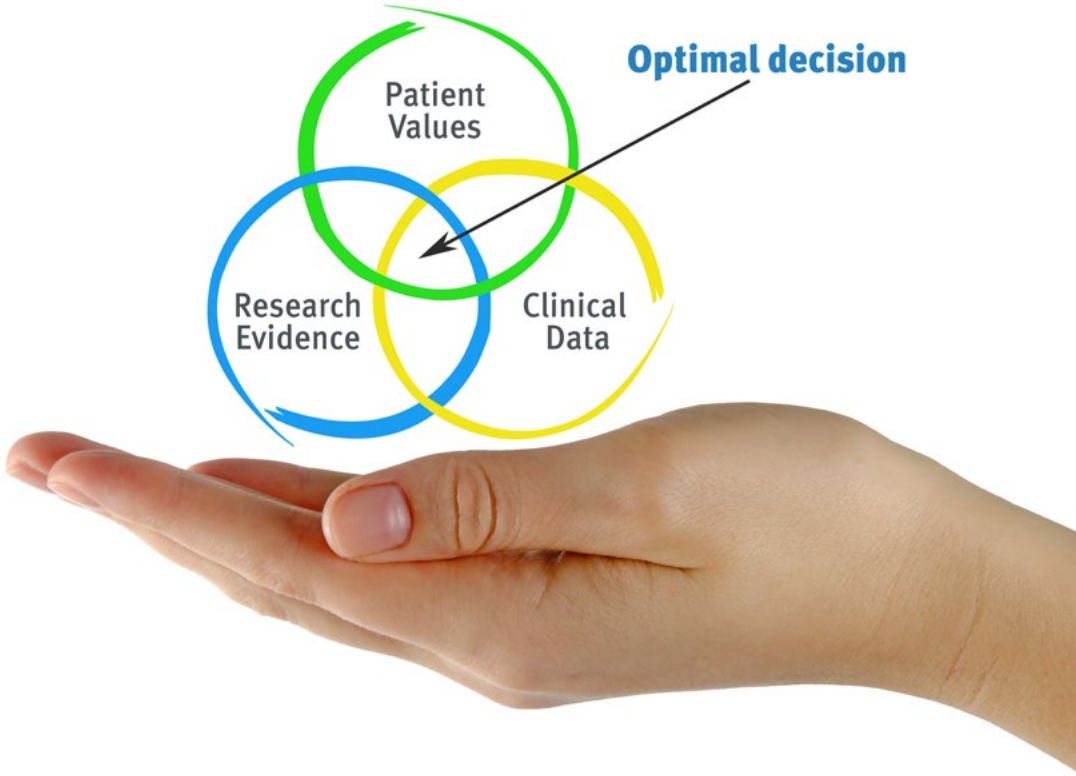
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

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.

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:

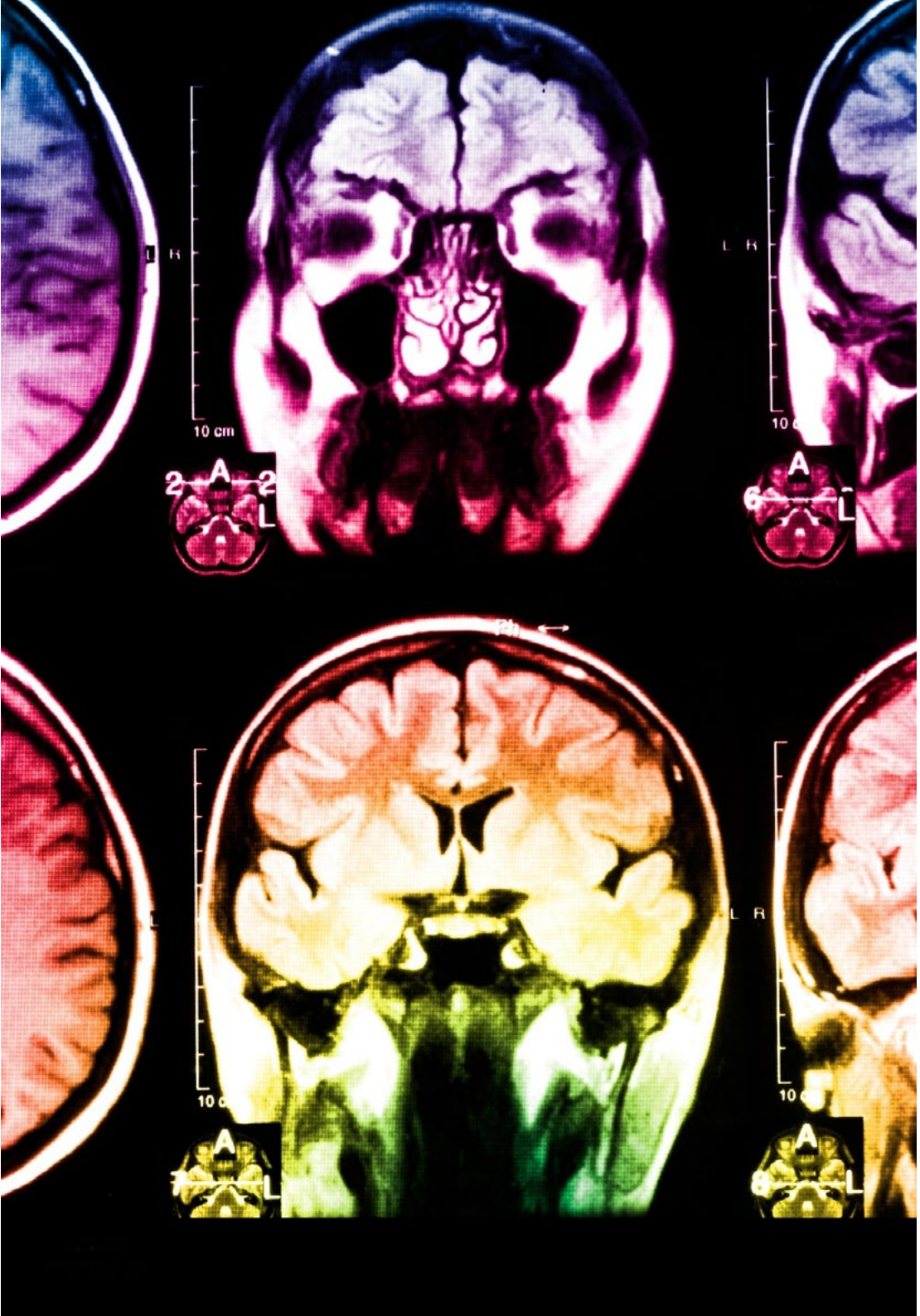
1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better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

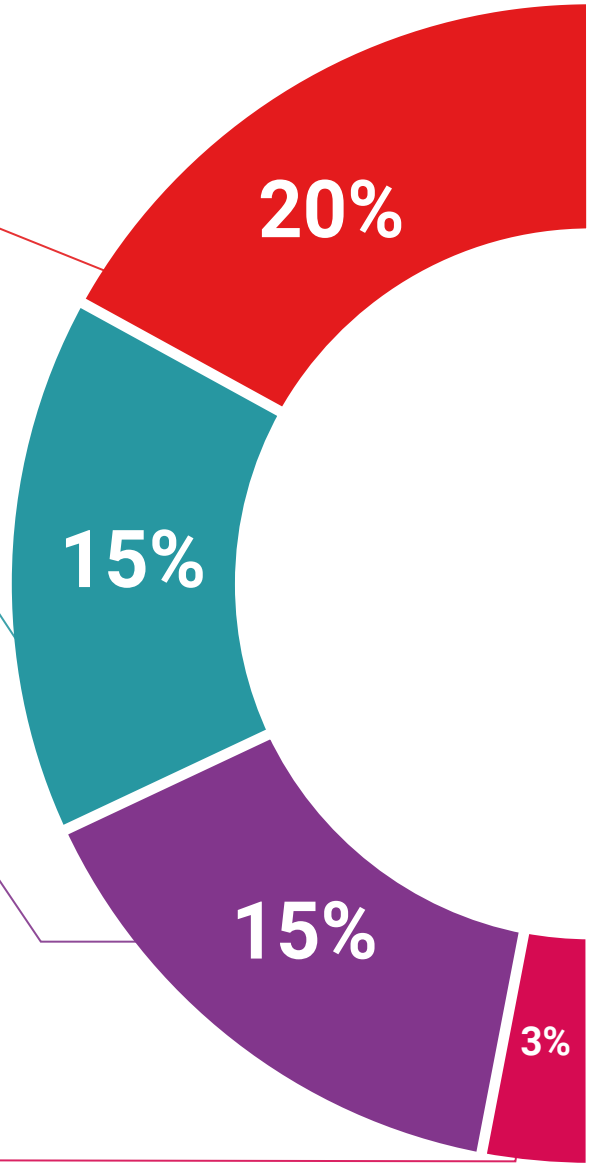
Interactive Summaries

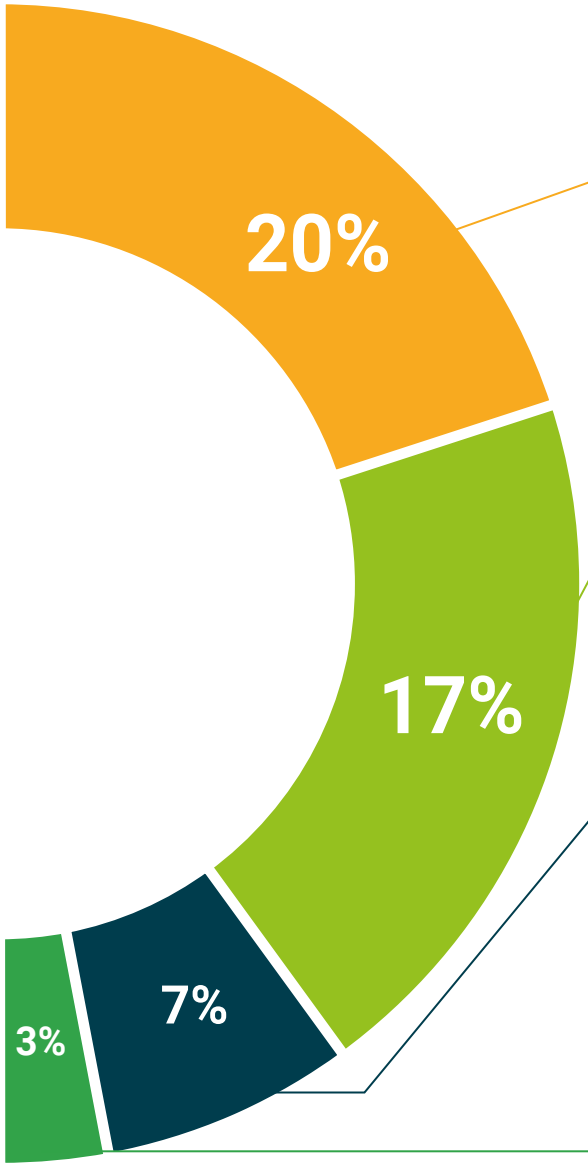
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Digestive Oncologic Surgery guarantees, 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 in Digestive Oncologic 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: **Professional Master's Degree in Digestive Oncologic Surgery**

Modality: **online**

Duration: **12 months**

Accreditation: **60 ECTS**


tech global university

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

Professional Master's Degree in Digestive Oncologic Surgery

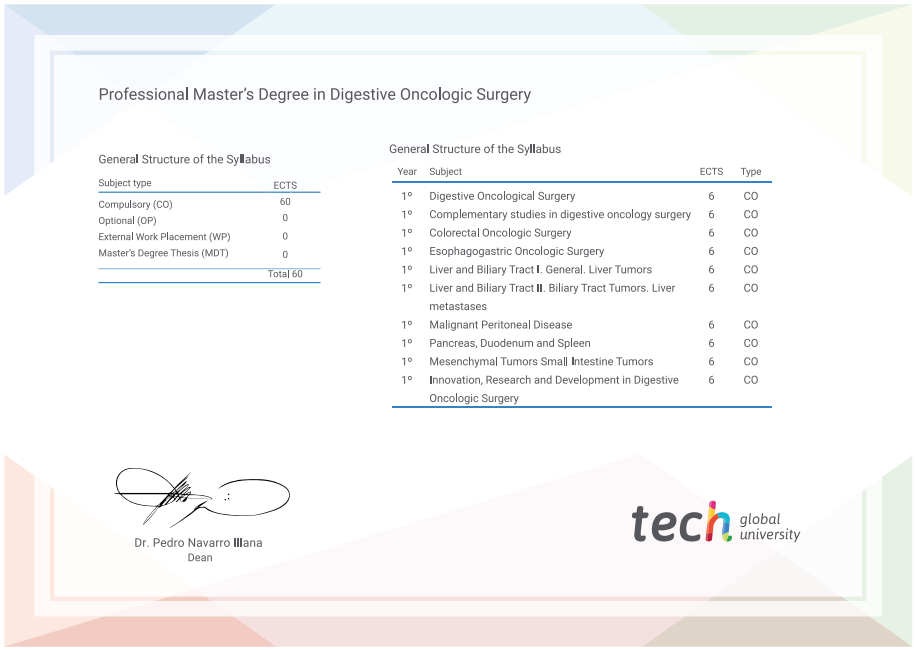
This is a private qualification of 1,800 hours of duration equivalent to 60 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

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


Professional Master's Degree in Digestive Oncologic Surgery

General Structure of the Syllabus

Subject type	ECTS
Compulsory (CO)	60
Optional (OP)	0
External Work Placement (WP)	0
Master's Degree Thesis (MDT)	0
	Total 60

General Structure of the Syllabus

Year	Subject	ECTS	Type
1º	Digestive Oncological Surgery	6	CO
1º	Complementary studies in digestive oncology surgery	6	CO
1º	Colorectal Oncologic Surgery	6	CO
1º	Esophagogastric Oncologic Surgery	6	CO
1º	Liver and Biliary Tract I. General. Liver Tumors	6	CO
1º	Liver and Biliary Tract II. Biliary Tract Tumors. Liver metastases	6	CO
1º	Malignant Peritoneal Disease	6	CO
1º	Pancreas, Duodenum and Spleen	6	CO
1º	Mesenchymal Tumors Small Intestine Tumors	6	CO
1º	Innovation, Research and Development in Digestive Oncologic Surgery	6	CO

Dr. Pedro Navarro Illana
Dean

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*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

Digestive Oncologic Surgery

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

Professional Master's Degree

Digestive Oncologic Surgery

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