

Postgraduate Certificate

Radiotherapy Treatment of Digestive System Tumors





Postgraduate Certificate Radiotherapy Treatment of Digestive System Tumors

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

9 ECTS Credits

Hours **225 hours**

Website: www.techtitute.com/medicine/postgraduate-certificate/postgraduate-certificate-radiotherapy-treatment-digestive-system-tumors

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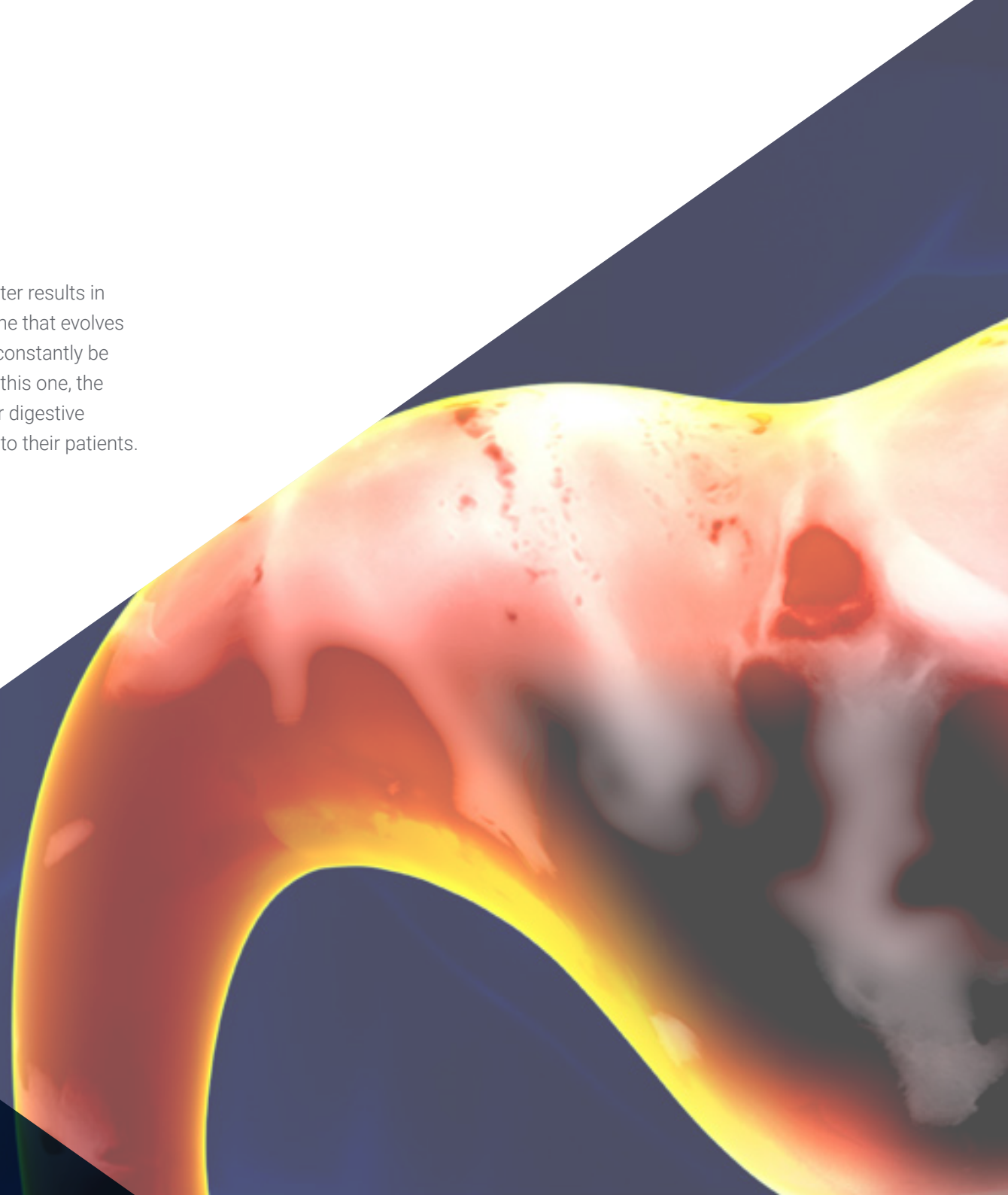
Certificate

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01

Introduction

Research is essential in the field of radiotherapy in order to achieve better results in oncology treatments. In fact, it is one of the techniques used in medicine that evolves the most year on year, which is why the oncology professional should constantly be learning and recycling their knowledge. Thanks to training courses like this one, the specialist will be able to learn the latest information on radiotherapy for digestive system tumors, allowing them to provide the most effective treatment to their patients.



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Radiotherapy is one of the most-used techniques in oncologic treatment and it is therefore necessary to have up-to-date knowledge on the latest research in the field”

Digestive system tumors are the ones that affect the highest number of people. Of these tumors, colon, stomach and pancreatic are those that cause the most deaths. However, the latest advances in medicine are encouraging, with a reduction in mortality thanks to earlier diagnosis and personalized treatments.

Radiotherapy is the main tool for the treatment of these illnesses, which is why it is necessary to invest in research in the field in order to find the most effective treatments and reduce the rate of death among patients with these types of tumor.

But healthcare professionals cannot remain on the sidelines of this technological evolution. On the contrary, they must know all the new tools available in order to improve their diagnoses and treatments and to be able to provide better care to their patients. Therefore, their training should continue throughout their entire professional career, with training courses like this one in which they will obtain the most up-to-date information in the subject matter.

To be more specific, in this Postgraduate Certificate in Radiotherapy Treatment of Digestive System Tumors, the medical professional will learn the latest advances in radiotherapy treatment. The program is focused on the different types of digestive system cancer, which is why it is a specific and essential training course for medical professionals.



Update your knowledge through the Postgraduate Certificate in Radiotherapy Treatment of Digestive System Tumors

This **Postgraduate Certificate in Radiotherapy Treatment of Digestive System Tumors** contains the most comprehensive and up-to-date scientific program on the market. The most important features of the Postgraduate Certificate are:

- Clinical cases presented by experts in Radiotherapy Treatment of Digestive System Tumors.
- The graphic, schematic, and eminently practical contents of which they are composed provide scientific and practical information on the disciplines that are essential for professional practice.
- Diagnostic-therapeutic developments on assessment, diagnosis, and intervention in digestive system tumors.
- Practical exercises where the self-evaluation process can be carried out to improve learning.
- Clinical and diagnostic imaging and testing iconography.
- Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- With special emphasis on evidence-based medicine and research methodologies in digestive system tumors.
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- Content that is accessible from any fixed or portable device with an Internet connection.

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This Postgraduate Certificate may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in Radiotherapy Treatment of Digestive System Tumors, you will obtain a Postgraduate Certificate from TECH Technological University"

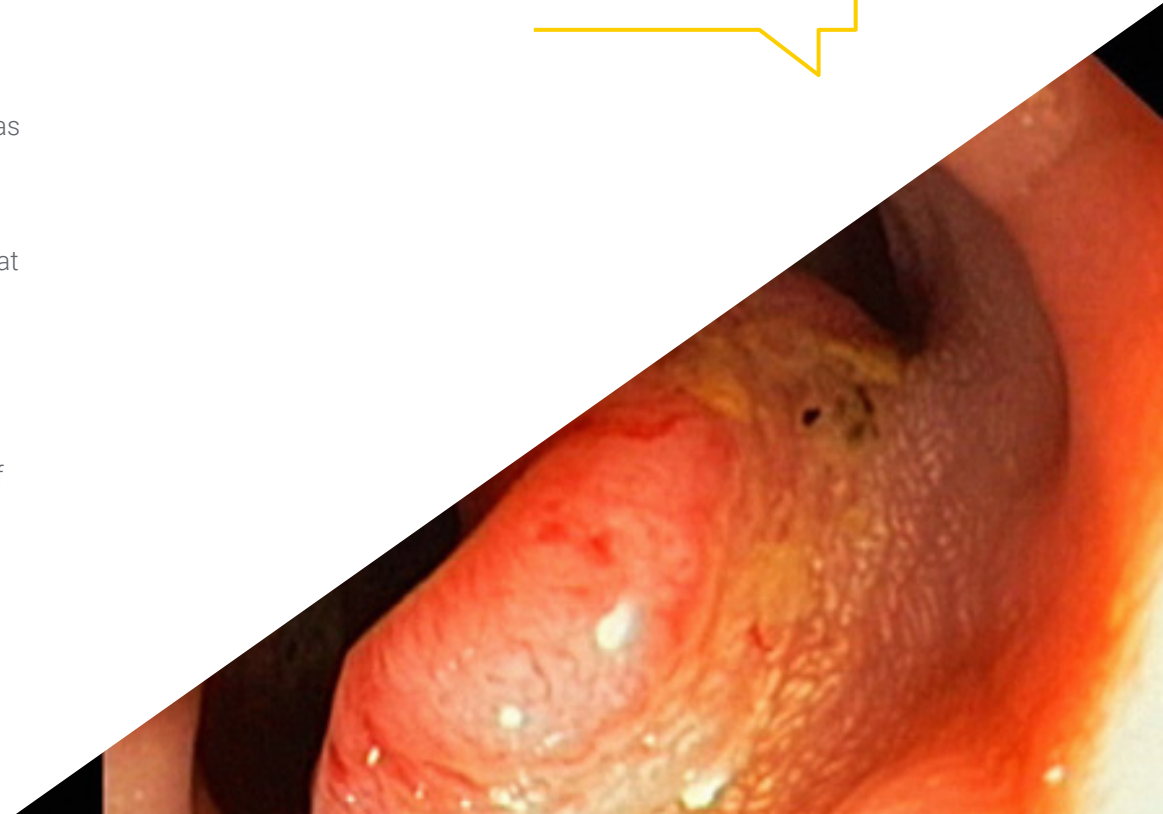
The teaching staff includes professionals from the field of Radiotherapy Treatment of Digestive System Tumors, who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

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

Problem-Based Learning underpins this program design, and the doctor must use it to try and solve the different professional practice situations that arise throughout the course. For this purpose, the physician will be assisted by an innovative interactive video system developed by renowned experts in the field of Radiotherapy Treatment of Digestive System Tumors with extensive teaching experience.

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

Make the most of the opportunity and take the step to get up to date on the latest developments in Radiotherapy Treatment of Digestive System Tumors.



02 Objectives

This Postgraduate Certificate aims to facilitate the performance of physicians in the field of Radiotherapy Treatment of Digestive System Tumors.





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This Postgraduate Certificate will allow medical professionals to improve their knowledge in the field”

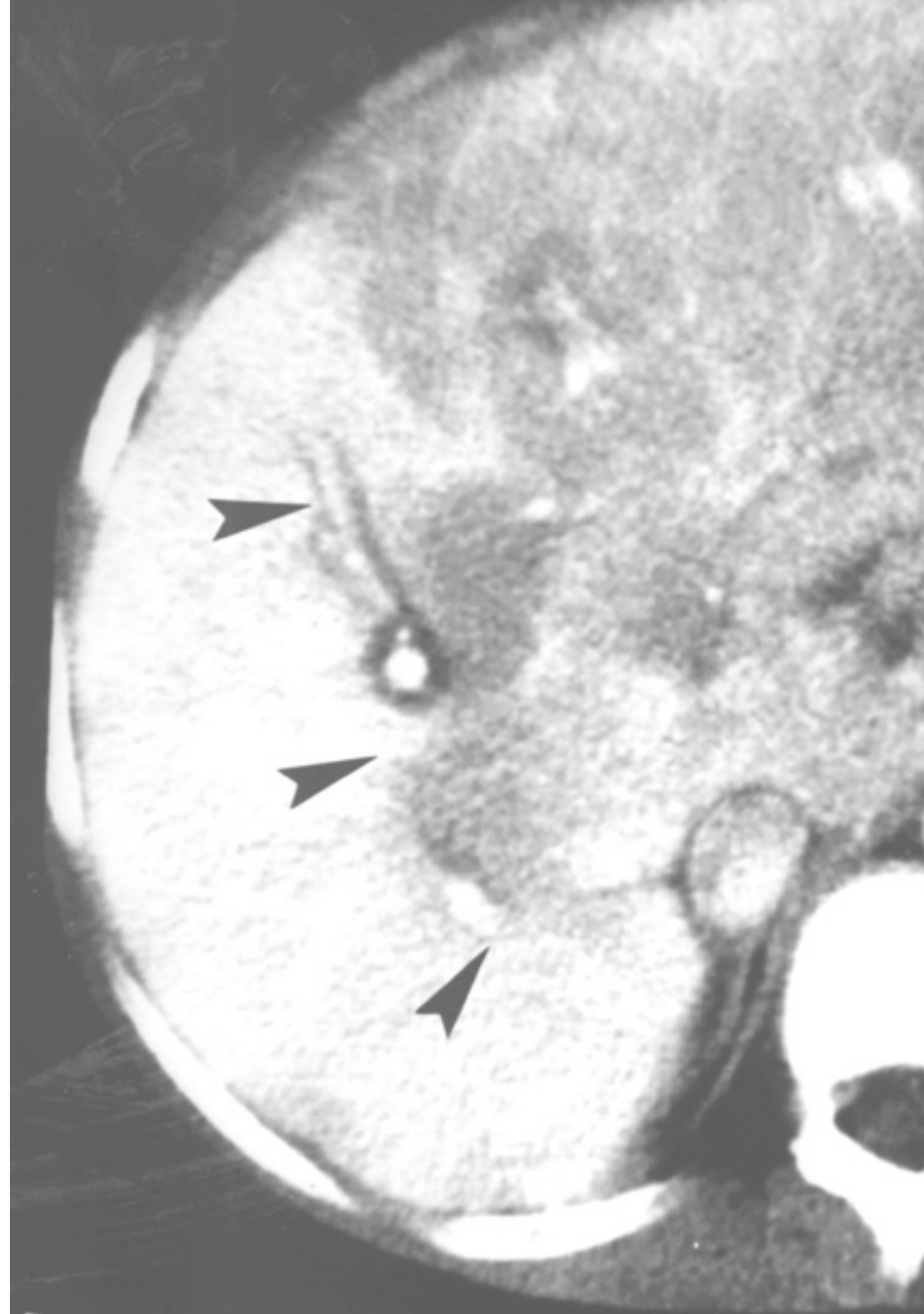


General Objective

- Create a global and updated vision of Radiotherapy Treatment of Digestive System Tumors, allowing the student to acquire useful knowledge and, at the same time, to generate interest in expanding the information and discovering its application in daily practice.



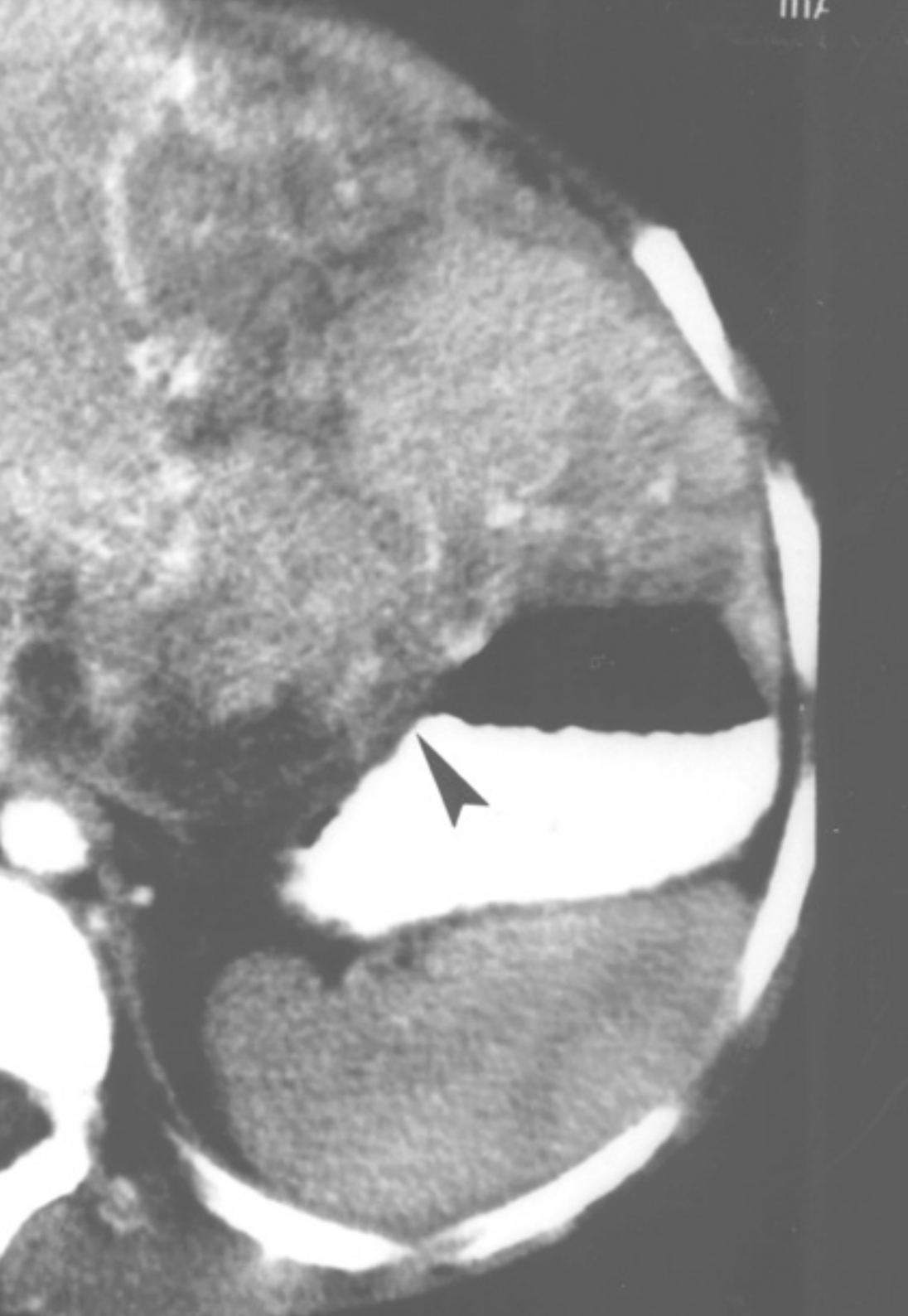
If you want to be up-to-date in the latest advances in radiotherapy, don't think twice about taking this Postgraduate Certificate which will allow you to learn the different techniques available for treating digestive system tumors"





Specific Objectives

- ♦ Analyze how the advances of the last decades in both diagnosis and treatment of cancer have managed to increase survival.
- ♦ Review the different types of cancer that warrant radiotherapeutic management and show the specific issues for each tumor.
- ♦ Create a global and updated vision of the exposed topics that will allow the student to acquire useful knowledge and at the same time, generate interest in expanding the information and discovering its application in their daily practice.
- ♦ Learn the basics of radiotherapy, as well as the different techniques available and their efficacy in order to know the place of each in the management of different digestive system tumors.
- ♦ Know the radiotherapeutic advances that allow a differential diagnosis to be made, making it possible to precisely define the field of resection, and providing information on prognosis and post-treatment monitoring.
- ♦ Know the best indications for radiotherapy treatment of different digestive system tumors.



03

Course Management

The program's teaching staff includes leading specialists in radiotherapy treatment of digestive system tumors and other related areas, who bring their years of work experience to this training. In addition, other specialists of recognized prestige participate in its design and elaboration, completing the program in an interdisciplinary manner.



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The teaching staff includes renowned specialists from prestigious universities”

International Guest Director

Awarded by the Royal College of Radiologists of the United Kingdom for his BCRM presentation, Christopher Nutting is a prestigious **Oncologist** specialized in the areas of **Radiotherapy** and **Chemotherapy**. He has an extensive professional background of more than 30 years, where he has been part of reference health institutions such as the Royal Marsden Hospital or the Institute of Cancer Research in London.

In his firm commitment to optimize the quality of life of his patients, he contributed to the installation of **Magnetic Resonance Imaging** machines for the first time in Great Britain, incorporating a scanner and Linear Accelerator to locate tumors with greater precision. In addition, his clinical research has contributed to the development of several advances in the oncological field. His most outstanding contribution is **Intensity-Modulated Radiation** Therapy, a technique that improves the efficacy of cancer treatments by directing radiation to a specific target so as not to damage nearby healthy tissue.

In turn, he has performed more than 350 clinical studies and scientific publications that have facilitated the understanding of malignant tumors. For example, its **"PARSPOT"** trial provided relevant clinical data on the efficacy of Linear Accelerator Intensity Modulated Radiation Therapy in terms of local carcinoma control and patient survival. Thanks to these results, the UK Department of Health established practices to optimize both the accuracy and effectiveness of Radiotherapy in the treatment of **Head and Neck Cancer**.

He is a regular speaker at **Scientific Congresses**, where he shares his solid knowledge in subjects such as Radiotherapy Technology or innovative therapies for the approach of people with Dysphagia. In this way, he helps medical professionals to stay at the forefront of advances in these fields in order to provide excellent services.



Dr. Nutting, Christopher

- Medical Director and Oncology Consultant at The Royal Marsden Hospital in London, United Kingdom
- Chairman of the Oncology Section at the Royal Society of Medicine, London, United Kingdom
- Clinical Head of Head and Neck Cancer at the Department of Health and Social Care, United Kingdom
- Consultant Oncologist at The Harley Street Clinic in London, United Kingdom
- Chairman of the National Cancer Research Institute in London, United Kingdom
- President of the Association of British Oncology in London, United Kingdom
- Senior Research Fellow at the National Institute for Health and Care Research, United Kingdom
- PhD in Medicine and Cellular Pathology from the University of London
- Member of: UK College of Physicians, UK College of Radiologists

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

Management



Morera López, Rosa María

- ♦ Degree in Medicine and General Surgery from the Complutense University of Madrid
- ♦ Specialist in Radiation Oncology University Hospital 12 de Octubre
- ♦ PhD in Medicine from the Complutense University of Madrid
- ♦ Master's Degree in Administration and Management of Health Services, (2013-2013) Pompeu Fabra University
- ♦ Head of the Radiation Oncology Service at La Paz University Hospital since 2016.
- ♦ Head of the Radiation Oncology Service at Ciudad Real General University Hospital (2012-2015)
- ♦ Associate Professor in the Medicine Degree at the Faculty of Medicine of the UCLM in Ciudad Real (2013- 2015)
- ♦ Faculty Specialist in the Radiation Oncology Service at Ramón y Cajal University Hospital (2000-2012)
- ♦ Coordinator of the Tomotherapy Unit "La Milagrosa" Clinic IMO Group (2006- 2009)
- ♦ Founding member of SBRT Spanish Group Coordinator of SBRT Working Group of the Spanish Society of Radiation Oncology
- ♦ Spokesperson of the Spanish National Commission of Radiation Oncology
- ♦ Member of the National Executive Committee of the Spanish Association Against Cancer (AECC)
- ♦ Participation as Head Researcher and collaborator in a large number of research projects.
- ♦ Editor of several dozen articles in high-impact scientific journals



Rodríguez Rodríguez, Isabel

- Degree in Medicine Specialist in Radiation Oncology
- Specialist in the Radiation Oncology at La Paz University Hospital. Madrid
- Clinical Teaching Collaborator at the Autonomous University of Madrid
- Resident tutor in Radiation Oncology at La Paz University Hospital
- Coordinator of the Brachytherapy Unit of the Radiation Oncology Department of La Paz University Hospital
- Collaborator in basic and clinical research in the Spanish pharmaceutical industry (Pharmamar).
- Coordinator of the National Alliance for the Prevention of Colon and Rectal Cancer (2016-2018)
- Coordinator in Clinical Research of the Biomedical Foundation at Ramón y Cajal University 2002-2006
- Participation as Head Researcher and collaborator in a large number of clinical research projects
- Editor of several dozen articles in high-impact scientific journals



Dr. Belinchón Olmeda, Belén

- ◆ Degree in Medicine and Surgery from the University of Alcalá de Henares, Madrid
- ◆ Specialist in Radiation Oncology Puerta de Hierro University Hospital, Madrid
- ◆ Diploma of Advanced Studies from the Autonomous University of Madrid.
- ◆ Attending Physician of the Radiation Oncology Service at La Paz University Hospital since 2007.
- ◆ Attending Physician of the Radiation Oncology Service at Ruber International Hospital since 2013.
- ◆ Training clinical residencies in prestigious centers such as The Christie Hospital, Manchester
- ◆ Participation as Head Researcher and collaborator in a large number of research projects.
- ◆ Author of various articles in high impact scientific journals and frequent collaborator in chapters of books and presentations at congresses.

Coordinators

Dr. Celada Álvarez, Francisco Javier

- ◆ Attending physician of the Radiotherapy Oncology Department
- ◆ La Fe Polytechnic University Hospital, Valencia

Dr. Conde Moreno, Antonio José

- ◆ Head of Radiation Oncology Section
- ◆ La Fe Polytechnic University Hospital, Valencia

Dr. Gómez Camaño, Antonio

- ◆ Head of Radiation Oncology Service
- ◆ Clinical University Hospital of Santiago de Compostela

Dr. Lozano Martín, Eva María

- ◆ Head of Radiation Oncology Service
- ◆ General University Hospital, Ciudad Real. University of Castilla La Mancha

Dr. Palacios Eito, Amalia

- ◆ Head of Radiation Oncology Service
- ◆ Reina Sofia University Hospital, Córdoba

Dr. Romero Fernández, Jesús

- ◆ Head of Radiation Oncology Service
- ◆ Puerta de Hierro University Hospital.

Dr. Rodríguez Pérez, Aurora

- ◆ Head of Radiation Oncology Service
- ◆ Ruber International Hospital, Madrid

Dr. Rubio Rodríguez, Carmen

- ◆ Head of Radiation Oncology Service
- ◆ University Hospital H.M. Sanchinarro, Madrid

Dr. Samper Ots, Pilar María

- ◆ Head of Radiation Oncology Service
- ◆ Rey Juan Carlos Hospital, Móstoles

Dr. Vallejo Ocaña, Carmen

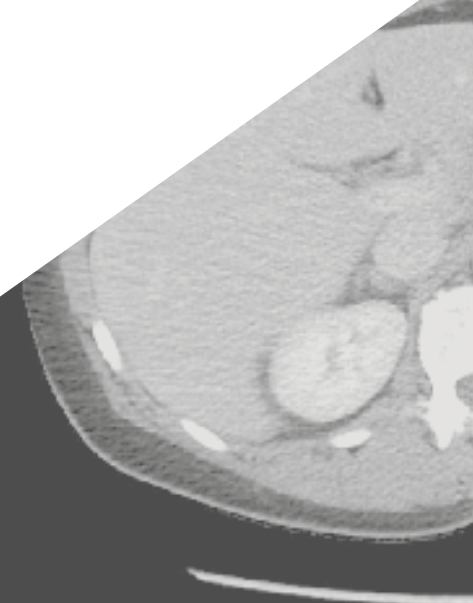
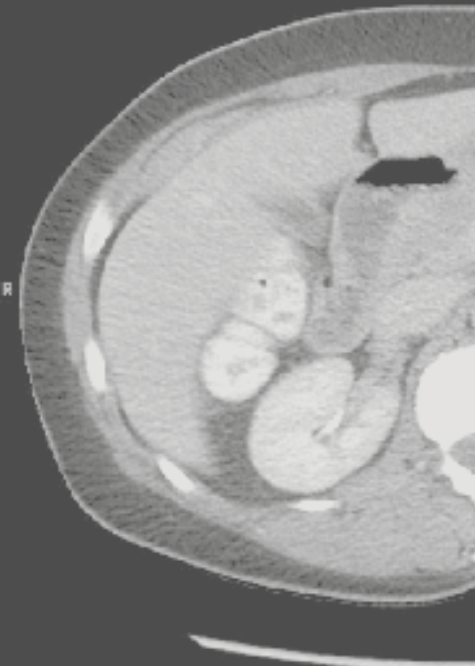
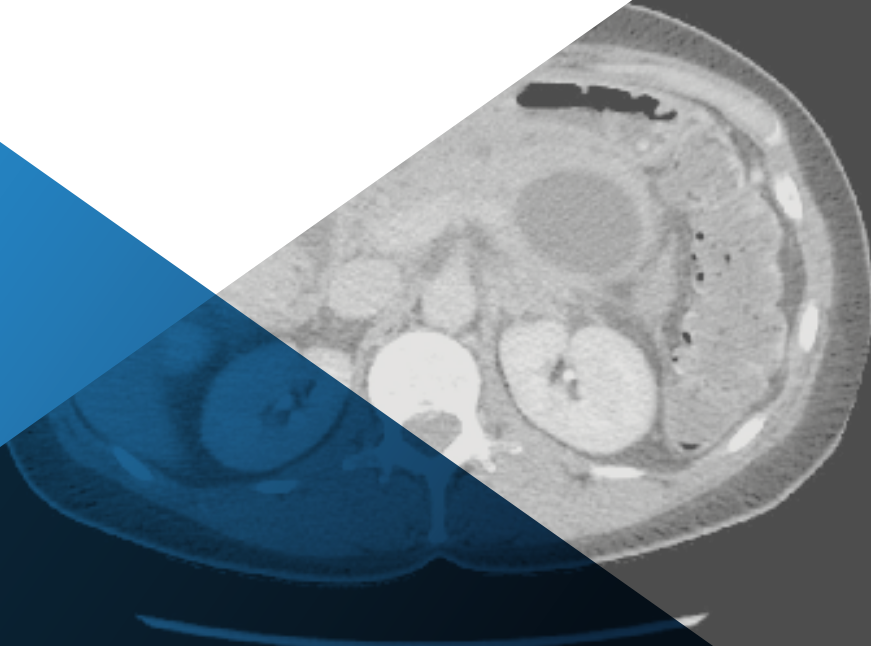
- ◆ Head of Radiation Oncology Section
- ◆ Ramón y Cajal University Hospital, Madrid

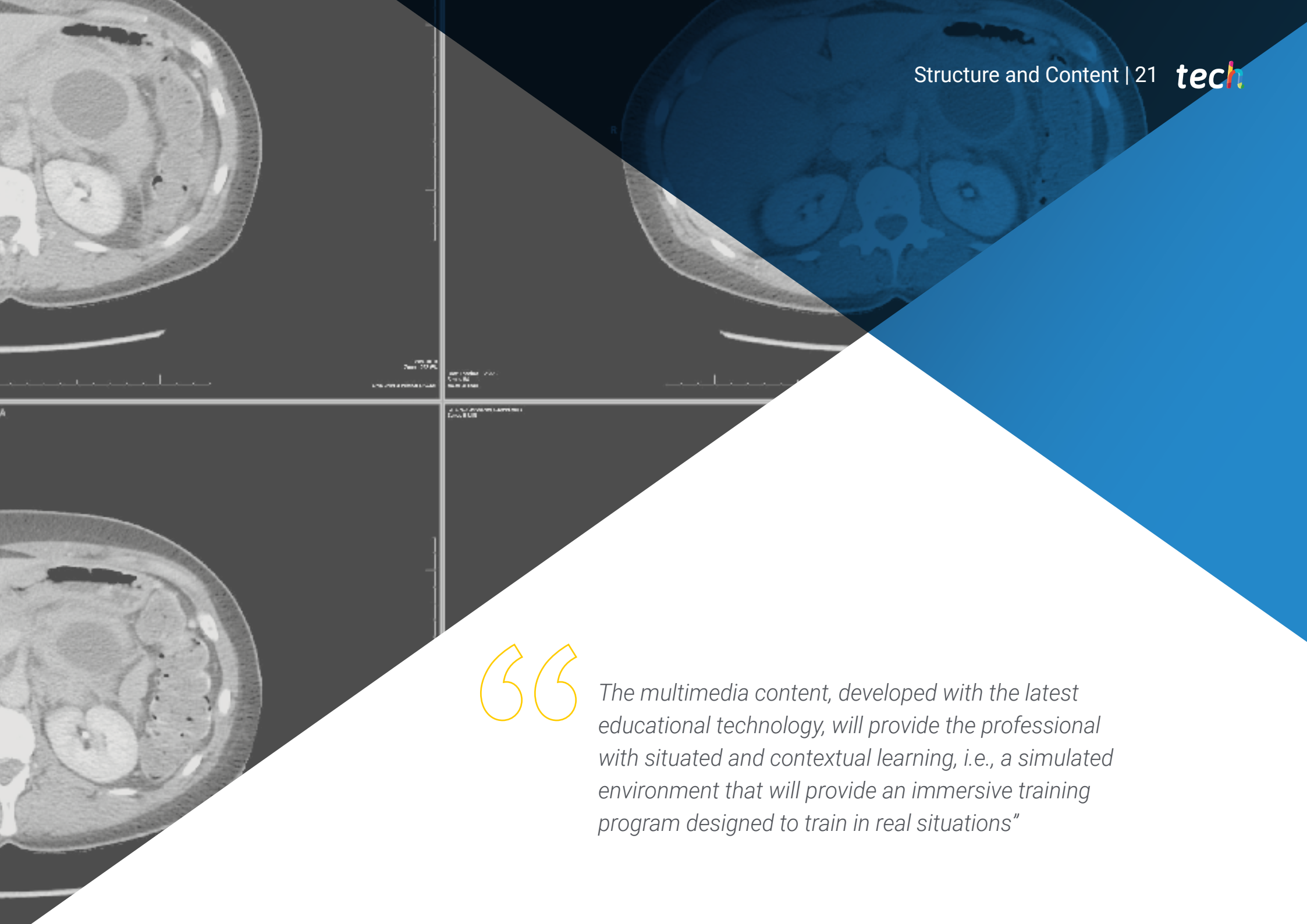


04

Structure and Content

The structure of the content has been designed by the best professionals in radiation oncology who work in centers of national reference. These experts are aware of the need for training in the world of medicine in order to advance in radiotherapy treatment of digestive system tumors. That is why they offer this quality training, adapted to new educational technologies, so that health professionals can provide the best medical care, adapting it to the needs of their patients.





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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 an immersive training program designed to train in real situations”

Module 1. Update in Digestive System Tumors

- 1.1. Esophageal Tumors
 - 1.1.1. General Information on Esophageal Tumors
 - 1.1.2. Radical Treatment of Cervical Esophageal Cancer
 - 1.1.3. Radical Treatment of Thoracic Esophageal Cancer
 - 1.1.4. Adjuvant Treatment of Thoracic Esophageal Cancer
 - 1.1.5. Palliative Radiotherapy Treatment
- 1.2. Gastric and Gastroesophageal Junction Tumors
 - 1.2.1. General Information About Gastric and Gastroesophageal Junction Cancer
 - 1.2.2. Neoadjuvant Radiochemotherapy
 - 1.2.3. Adjuvant Radiochemotherapy
 - 1.2.4. Role of Radiotherapy in the Context of Perioperative Chemotherapy
 - 1.2.5. Radical Radiochemotherapy
 - 1.2.6. Palliative Radiotherapy Treatment
- 1.3. Pancreatic Tumors
 - 1.3.1. Overview of Pancreatic Cancer
 - 1.3.2. Role of Radiotherapy in Resectable Tumors
 - 1.3.3. Role of Radiotherapy in Potentially Resectable Tumors (Borderline)
 - 1.3.4. Role of Radiation Therapy in Unresectable Tumors
 - 1.3.5. Role of Radiotherapy in Inoperable Tumors
 - 1.3.6. Palliative Radiotherapy Treatment
- 1.4. Hepatobiliary Tumors
 - 1.4.1. General Information on Hepatobiliary Tumors
 - 1.4.2. Hepatocellular Carcinoma
 - 1.4.3. Gallbladder Cancer
 - 1.4.4. Cholangiocarcinoma
 - 1.4.5. Liver metastases



- 1.5. Colorectal Cancer
 - 1.5.1. General Information on Colorectal Tumors
 - 1.5.2. Neoadjuvant Treatment in Rectal Cancer
 - 1.5.3. Adjuvant Treatment in Rectal Cancer
 - 1.5.4. Radical Treatment in Rectal Cancer
 - 1.5.5. Radiotherapeutic Treatment of Recurrences Reirradiation
 - 1.5.6. Role of Radiation Therapy in Colon Cancer
 - 1.5.7. Palliative Radiotherapy Treatment
- 1.6. Anal Canal and Perianal Skin Cancer
 - 1.6.1. Overview of Anal Canal and Perianal Skin Cancer
 - 1.6.2. Role of Radiotherapy in Early Tumors and Carcinoma In Situ
 - 1.6.3. Radical Treatment of Locally Advanced Tumors
 - 1.6.4. Palliative Radiotherapy Treatment



Update your knowledge with this specialized Training in Radiotherapy Treatment of Digestive System Tumors”

05

Methodology

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

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



“

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

At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

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



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in professional medical practice.

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Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Re-Learning Methodology

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

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



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

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

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

Re-learning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



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



Study Material

All the teaching materials are specifically created for the course, by specialists who teach on the course, so that the teaching content is highly specific and precise.

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



Latest Techniques and Procedures on Video

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



Interactive Summaries

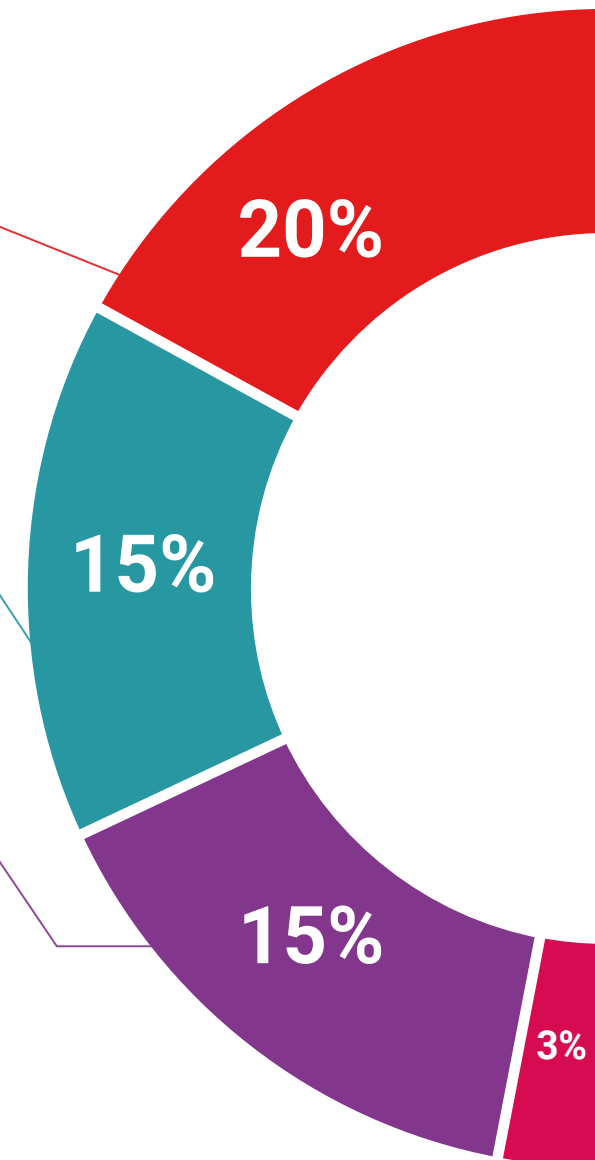
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



Additional Reading

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





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Re-Testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



Classes

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

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



Quick Action Guides

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



06

Certificate

The **Postgraduate Certificate in Radiotherapy Treatment of Digestive System Tumors** guarantees you, in addition to the most rigorous and updated specialization, access to a **Postgraduate Certificate** issued by **TECH Technological University**.



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Successfully complete this training and receive your diploma without the hassle of travel or paperwork”

This **Postgraduate Certificate in Radiotherapy Treatment of Digestive System Tumors** contains the most comprehensive and up-to-date scientific program on the market.

After the student has passed the evaluations, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the **Postgraduate Diploma**, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Radiotherapy Treatment of Digestive System Tumors**

ECTS: 9

Nº Hours: 225



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

health future
confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development languages
virtual classroom



Postgraduate Certificate
Radiotherapy Treatment
of Digestive System
Tumors

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

9 ECTS Credits

Hours 225 hours

Postgraduate Certificate

Radiotherapy Treatment of Digestive System Tumors