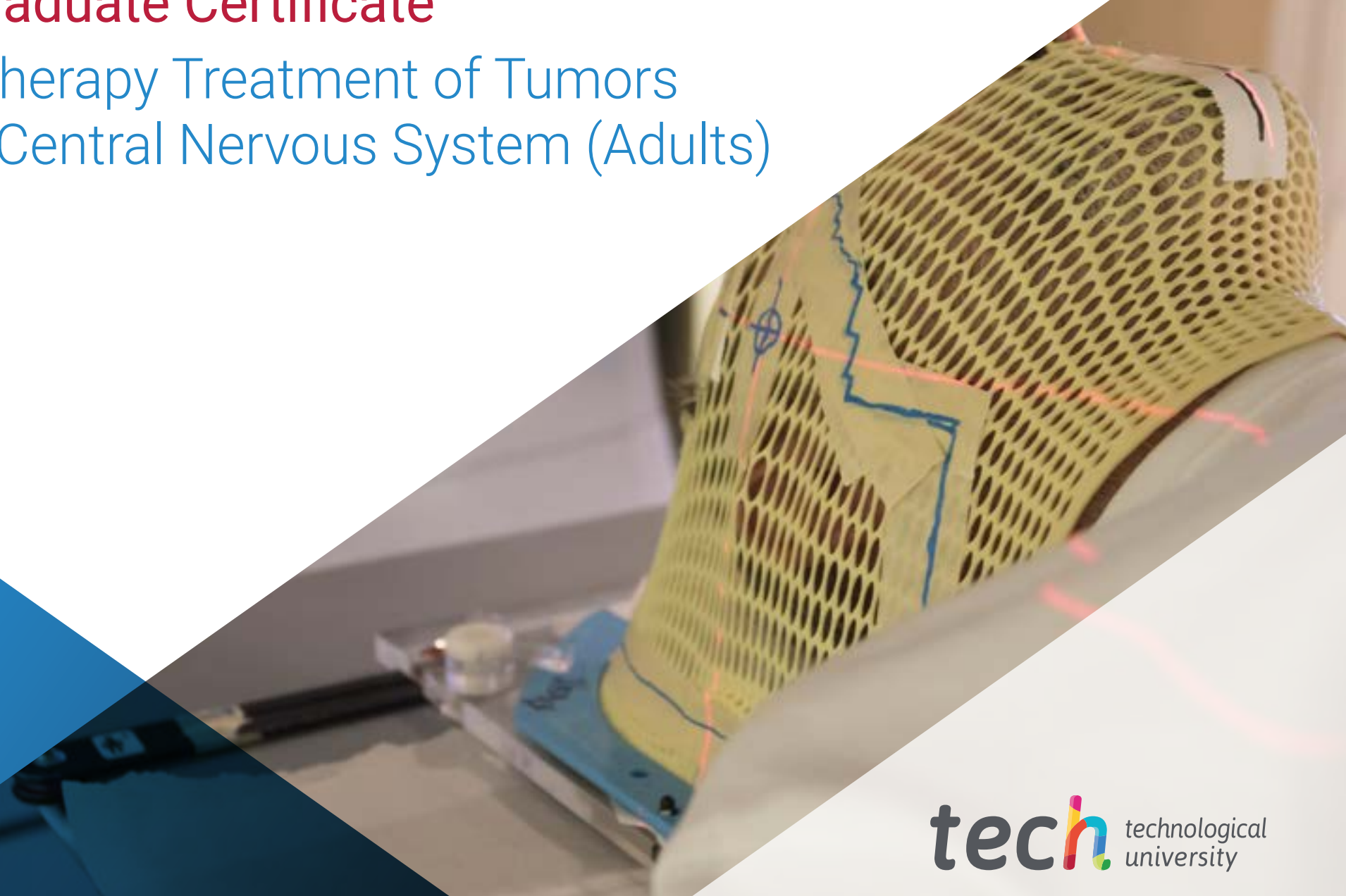


Postgraduate Certificate

Radiotherapy Treatment of Tumors of the Central Nervous System (Adults)





Postgraduate Certificate

Radiotherapy Treatment of Tumors of the Central Nervous System (Adults)

Course Modality: Online

Duration: 6 weeks

Endorsed by: TECH Technological University

6 ECTS Credits

Hours 150 hours

Website: www.techtitute.com/medicine/postgraduate-certificate/postgraduate-certificate-radiotherapy-treatment-tumors-central-nervous-system-adults

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01

Introduction

Radiotherapy is one of the most in-demand therapeutic techniques in the field of oncology and its use on tumors of the Central Nervous System is complex and requires the mastery of the latest procedures and advances. In fact, each year there are new technological advances in the subject matter. Therefore, it is essential for physicians to have up-to-date knowledge so that they can deal with this type of diagnosis appropriately. This program allows you to obtain the most up-to-date information in a comfortable way and 100% online.



“

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

Advances in the study and treatment of tumors of the Central Nervous System are becoming more and more widespread. However, there is still a long way to go in finding a simple process in order to cure these types of tumor.

But as well as having the necessary technological advances to treat patients, it is equally as important that healthcare professionals have the ability to make a proper diagnosis from the very beginning. Therefore, it is essential that they have all the information and updated training to provide personalized and effective care to their patients.

In this Postgraduate Certificate we delve into the knowledge of radiotherapy in patients with tumors of the central nervous system, with the possible effects that such treatment with radiotherapy can cause. In this way, medical professionals will update their knowledge in the different types of tumors of the Central Nervous System.

In short, this Postgraduate Certificate provides oncology professionals with the keys for the use of the main advances in radiation treatment of tumors of the Central Nervous System which will help them to evolve in their profession and to keep up to date with recent research in this field of oncology.



Keeping up-to-date is key to providing better care to our patients”

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

- ♦ Development of more than 75 clinical cases presented by experts in Radiation Oncology.
- ♦ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ Diagnostic-therapeutic developments on assessment, diagnosis and intervention in Tumors of the Central Nervous System.
- ♦ Practical exercises where the self-evaluation process can be carried out to improve learning.
- ♦ Clinical and diagnostic imaging and testing iconography.
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ♦ With special emphasis on evidence-based medicine and research methodologies in Radiation Oncology.
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.

“

Make the most of this Postgraduate Certificate to update your knowledge, expand your training and obtain a certified qualification from the TECH Technological University”

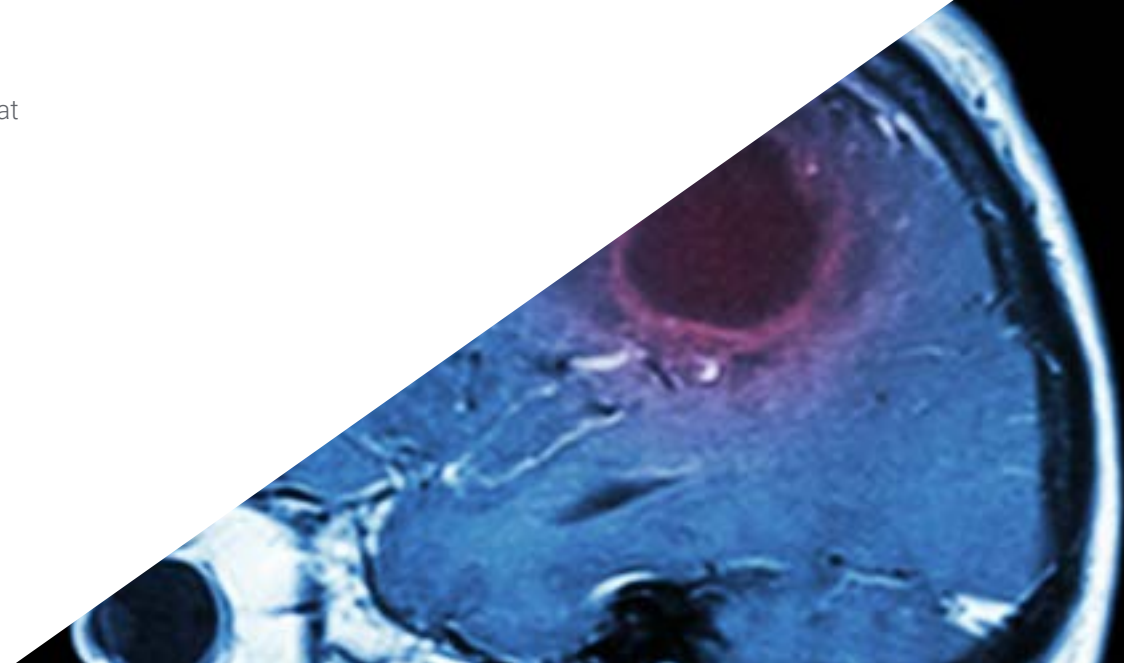
The teaching staff includes professionals from the field of Radiation Oncology, who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

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 Radiation Oncology with extensive teaching experience.

This Postgraduate Certificate is the best opportunity you could have to complete your training.

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



02 Objectives

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





“Continue your training with this Postgraduate Certificate and learn the newest advances in radiotherapy in the treatment of tumors of the central nervous system. It will help you to carry out your professional work in a more effective way, offering the best treatment to your patients”



General Objective

- Create a global and updated vision of Radiotherapy Treatment of Tumors of the Central Nervous System, 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..

This type of teaching-learning encourages curiosity and skill development, as well as allowing the doctor to feel like an active part of the process.

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TE:15/Fr
EC:1/1 7.81kHz

Head
FOV:26x36
5.0thk/2.0sp
20/02:40
320X192/2 NEX
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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 central nervous 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 tumors of the central nervous system.

03

Course Management

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





“

Excel in your profession with this program created by the leading professionals in this field”

Management



Dr. Morera López, Rosa María

- Degree in Medicine and General Surgery from the Complutense University of Madrid
- Specialist in Radiation Oncology 12 de Octubre University Hospital
- 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



Dr. 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

- ♦ Adjunct physician of the Radiation Oncology Service
- ♦ 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. Castilla La Mancha University.

Dr. Palacios Eito, Amalia

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

Dr. Romero Fernández, Jesús

- ♦ Head of Radiation Oncology Service
- ♦ Puerto de Hierro University Hospital Majadahonda.

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 tumors of the central nervous system. 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.

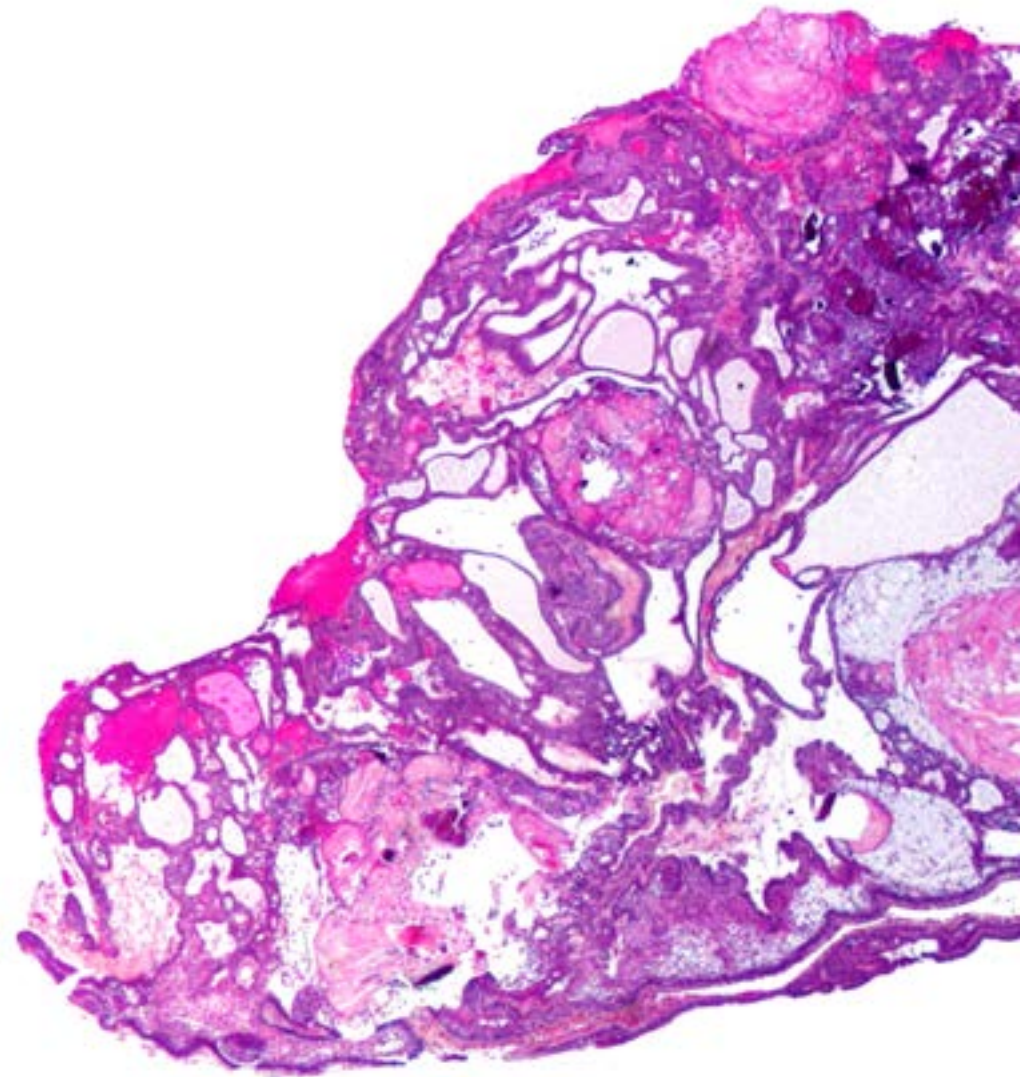


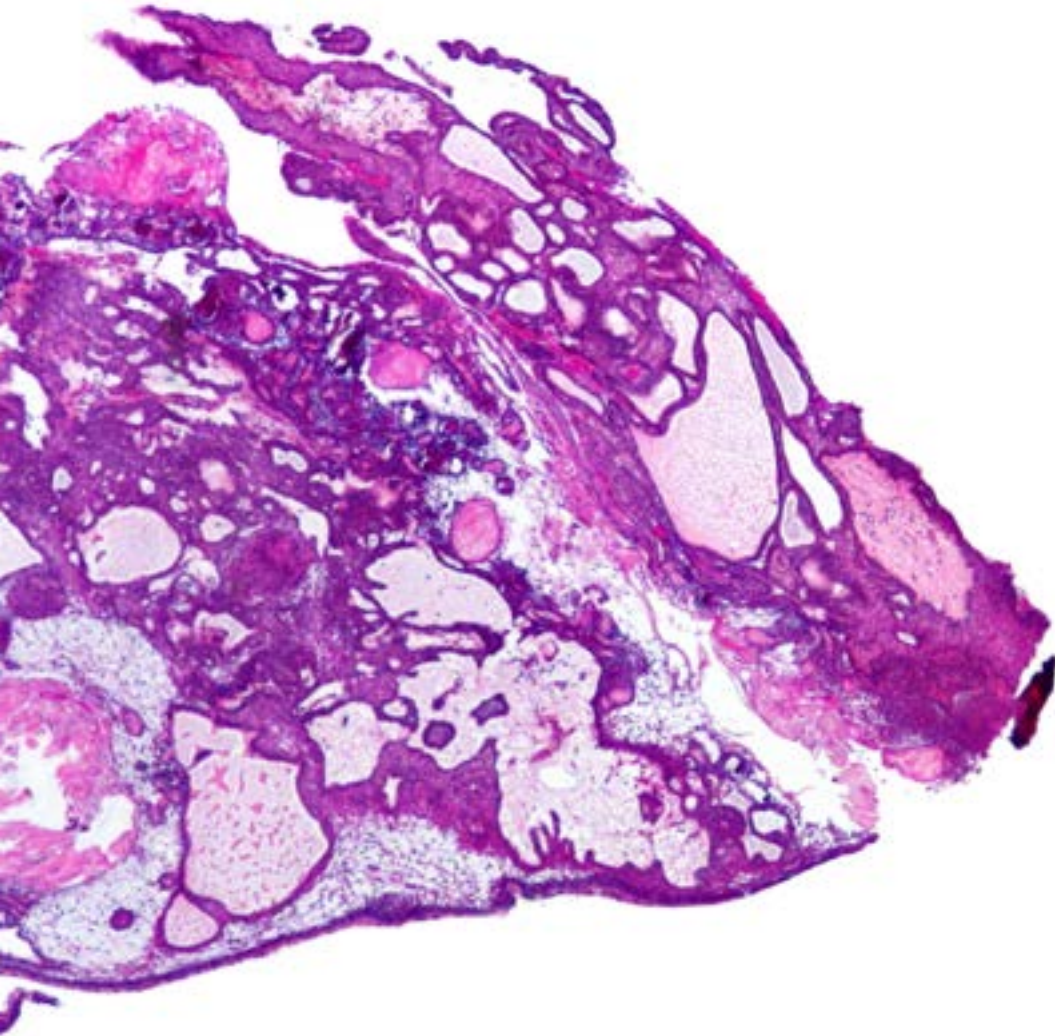
“

Study this specialist training course in Radiotherapy Treatment of Tumors of the Central Nervous System and learn from leading professionals in the field”

Module 1. Update of Radiotherapy Treatment in Central Nervous System Tumors (Adults)

- 1.1. Low-Grade Gliomas
- 1.2. High-Grade Gliomas
- 1.3. Benign Brain Tumors
 - 1.3.1. Meningiomas
 - 1.3.2. Vestibular Schwannoma
 - 1.3.3. Neurinoma
- 1.4. Pituitary Tumors
 - 1.4.1. Non-Functioning Adenomas
 - 1.4.2. Prolactinoma
 - 1.4.3. GH-Producing Adenoma
 - 1.4.4. Cushing's Disease
 - 1.4.5. TSH-Secreting Adenomas, GnRH-Secreting Adenomas
 - 1.4.6. Pituitary Carcinomas
- 1.5. Spinal Cord Tumors
 - 1.5.1. Astrocytoma
 - 1.5.2. Ependymoma
 - 1.5.3. Meningioma
 - 1.5.4. Chordoma
 - 1.5.5. Chondrosarcoma
 - 1.5.6. Miscellaneous Spinal Tumors
 - 1.5.7. Spinal Cord Compression
 - 1.5.8. Medulloblastoma
 - 1.5.9. Craniopharyngioma





- 1.6. Orbital, Ocular and Optic Nerve Tumors.
 - 1.6.1. Rhabdomyosarcoma
 - 1.6.2. Pineal Gland Tumors
 - 1.6.3. Orbital Lymphoma
 - 1.6.4. Ocular Melanoma
 - 1.6.5. Ocular Metastases
 - 1.6.5. Optic Nerve Glioma
 - 1.6.6. Optic Nerve Meningioma
- 1.7. Primary cerebral Lymphoma
- 1.8. Cerebral Metastases
- 1.9. Arteriovenous Malformations

“*Study a complete training course in the field of Radiotherapy Treatment of Tumors of the Central Nervous System thanks to a teaching program with innovative methodologies”*

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. Gervas, 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.

“

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 Tumors of Tumors of the Central Nervous System (Adults)** guarantees you, in addition to the most rigorous and updated specialization, access to a **Postgraduate Certificate** issued by **TECH Technological University**.



“

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

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

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

The certificate issued by **TECH Technological University** will specify the qualification obtained through the course, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Radiotherapy Treatment of Tumors of the Central Nervous System (Adults)**

ECTS: 6

Nº Hours: 150



*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
classroom



Postgraduate Certificate

Radiotherapy Treatment
of Tumors of the Central
Nervous System (Adults)

Course Modality: Online

Duration: 6 weeks

Endorsed by: TECH Technological University

6 ECTS Credits

Hours 150 hours

Postgraduate Certificate

Radiotherapy Treatment of Tumors of the Central Nervous System (Adults)