

Postgraduate Certificate

Neurosurgery of Brain Tumors



Postgraduate Certificate Neurosurgery of Brain Tumors

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Global University
- » Accreditation: 5 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/neurosurgery-brain-tumors

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Certificate

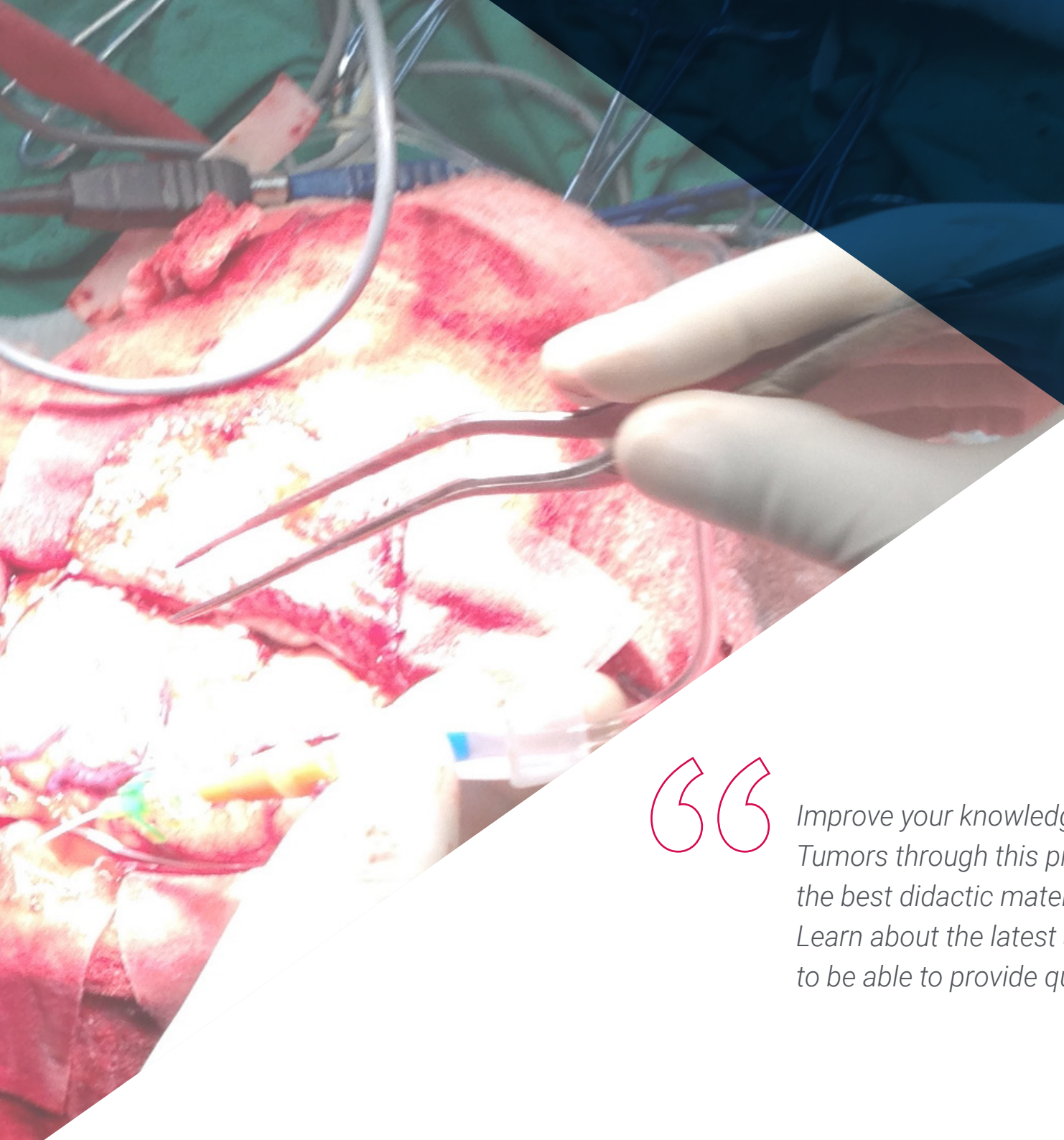
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01

Introduction

The field of neuro-oncology is rapidly evolving, with promising ongoing research that has the potential to influence clinical management in the short and medium-term future. Many significant advances have been recently reported, and other promising studies will substantially impact this field in the coming years, particularly in the areas of high-grade gliomas and brain metastases. In this Postgraduate Certificate, we present an overview of the current state of the field, highlighting the most recent key advances that will influence clinical management.





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Improve your knowledge of Neurosurgery of Brain Tumors through this program, where you will find the best didactic material with real clinical cases. Learn about the latest advances in this specialty to be able to provide quality medical practice”

In this way, we analyze the diagnostic and therapeutic management of both primary and metastatic brain tumors. We will discuss current technologies used for the resection of gliomas, such as awake craniotomy, fluorescence-guided surgery, neuronavigation, neuroendoscopy, among many others.

Another advance that we will see extensively comes from the hand of genomics whose advances have made it possible to learn that more than half of pediatric brain tumors have genetic abnormalities that could help in diagnosis or treatment, which is reflected in the recent decision of the World Health Organization to classify such tumors by genetic alterations, rather than by tumor type. Thus, precision medicine for pediatric brain tumors is now a reality, and possibly in the near future also for adult brain tumors.

Lastly, another topic that we will analyze in the Postgraduate Certificate, to highlight some relevant ones, and which is gaining ground in other tumors, is immunotherapy. Immunotherapy has shown promise for the treatment of glioblastoma multiforme. This is because glioblastoma multiforme exhibits powerful adaptive capabilities, a relative lack of immunogenicity, an immunosuppressive tumor microenvironment and intratumoral heterogeneity. Therefore, experts agree that immune-targeted therapies are likely to play a central role in improving the durability of treatment. To date, clinical trials of several vaccine therapies using autologous tumor antigens or specific tumor-associated antigenic peptides with adjuvants have been conducted to treat patients with high-grade gliomas. Therefore, immunotherapy, especially combination therapy, may be a promising strategy for the treatment of patients with brain tumors.

In short, many concepts are currently being investigated that we hope will have a positive influence on the therapeutic treatment of metastatic and primary tumors of the central nervous system, and which we will present since many have already been integrated into routine clinical practice and others will soon form the panoply of options in the broad diagnostic or therapeutic arsenal that we have today.

This **Postgraduate Certificate in Neurosurgery of Brain Tumors** contains the most complete and up-to-date scientific program on the market. The most important features include:

- More than 75 clinical cases presented by experts in Neurosurgery of Brain Tumors
- The graphic, schematic, and 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 the evaluation, diagnosis, and intervention in Neurosurgery of Brain Tumors. It contains practical exercises where the self-evaluation process can be carried out to improve learning
- Iconography of clinical and diagnostic imaging tests
- With special emphasis on evidence-based medicine and research methodologies in Neurosurgery of Brain Tumors
- With special emphasis on evidence-based medicine and research methodologies in Neurosurgery of Brain Tumors
- All 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



*Update your knowledge through
the Postgraduate Certificate in
Neurosurgery of Brain Tumors"*

“

This Postgraduate Certificate can be the best investment you can make when selecting an updating program for two reasons: in addition to updating your knowledge in Neurosurgery of Brain Tumors, you will receive a course certificate from TECH Global University”

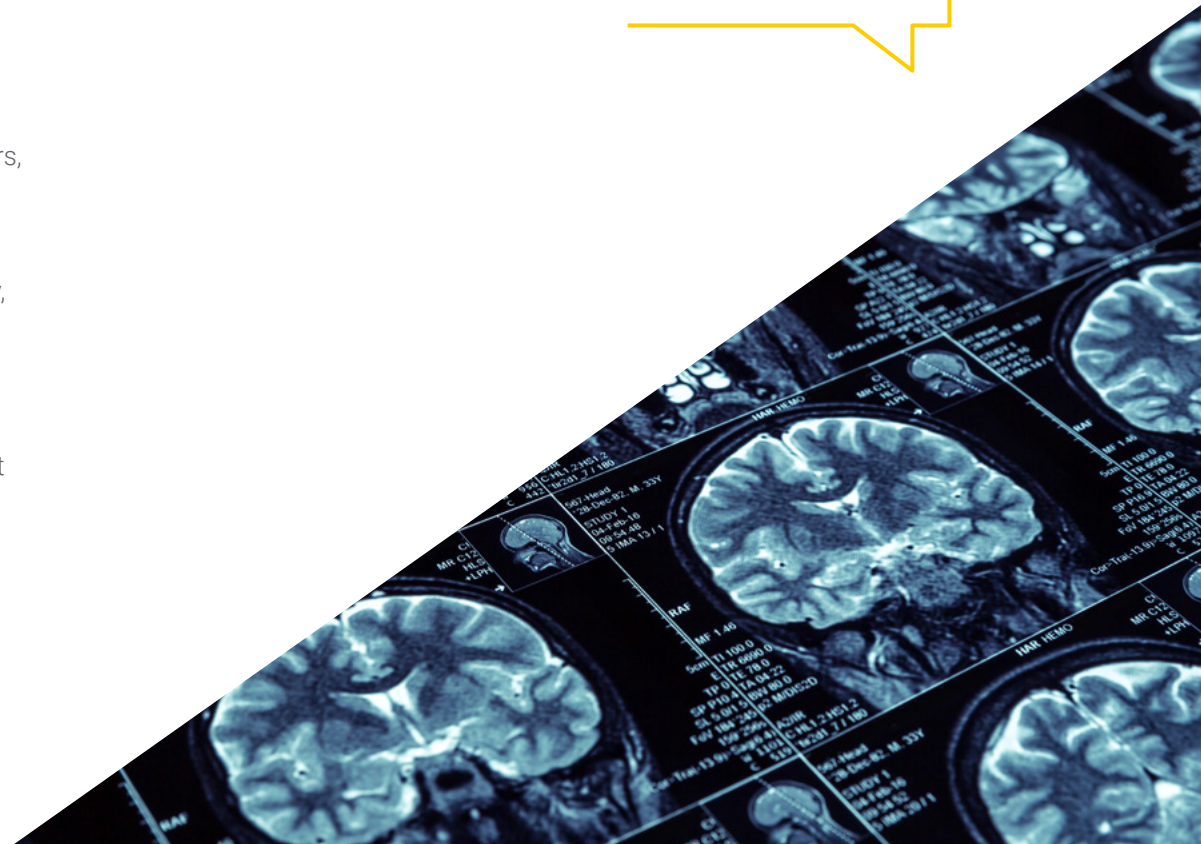
Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.

Take the opportunity to learn about the latest advances in Neurosurgery of Brain Tumors and improve patient care.

Its teaching staff includes professionals in the field of Neurosurgery of Brain Tumors, who bring to this training the experience of their work, in addition to recognized specialists belonging to leading scientific societies.

Thanks to its multimedia content, developed with the latest educational technology, professionals will benefit from situated and contextual learning—simulated environments designed to provide immersive learning experiences that prepare them for real-life 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 Postgraduate Certificate. For this purpose, the physician will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of Neurosurgery of Brain Tumors with extensive teaching experience.



02 Objectives

The Postgraduate Certificate in Neurosurgery of Brain Tumors is aimed at facilitating physician performance in treating neurological oncological pathologies.



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This Postgraduate Certificate is designed for you to update your knowledge of Neurosurgery of Brain Tumors, with the use of the latest educational technology, to contribute quality and safety to decision making, diagnosis, treatment and patient support”



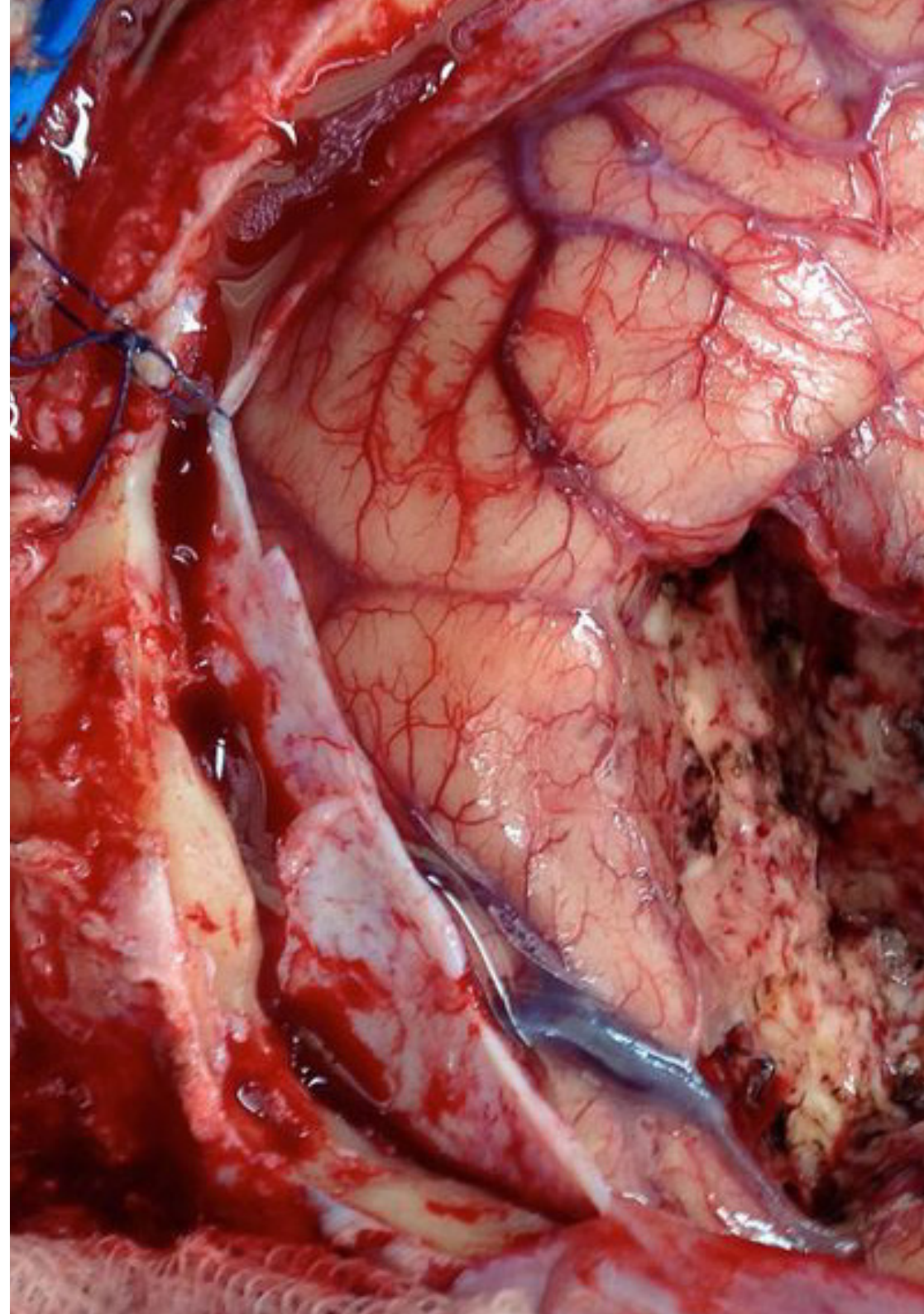
General Objective

- Create a global and updated vision of Neurosurgery of Brain Tumors and all its aspects, allowing students to acquire useful knowledge while generating interest in expanding the information and discovering its application in their daily practice



Specific Objectives

- Explain how the development of magnetic resonance imaging technology has improved diagnostic accuracy supported by functional methods such as diffusion, spectroscopy, perfusion and the BOLD technique
- Learn about the utility of multi-tracer PET-MRI imaging in the management of neuro-oncology patients, both in the characterization of primary injuries and during the follow-up of treated tumors
- Describe the utility of nuclear medicine in the diagnosis of neurological complications of oncological treatments that characterize multiple clinical entities and continue to be an important problem, especially in patients with longer life expectancy



“

Make the most of the opportunity and take the step to get up-to-date on the latest developments in Neurosurgery of Brain Tumors”

03

Course Management

The program's teaching staff includes leading specialists in Neurosurgery of Brain Tumors and other related areas, who bring their years of work experience to this training program. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.



“

Learn from leading professionals about the latest procedure advances in the field of Neurosurgery of Brain Tumors”

Management



Dr. Oruezábal Moreno, Mauro Javier

- ♦ Head of the medical Oncology Service at La Paz University Hospital since 2017
- ♦ Research Fellow at University of Southampton (2016-present)
- ♦ Master's Degree in Bioinformatics and biostatistics UOC-UB (2016-ongoing)
- ♦ Master's Degree in bioinformatic analysis by the Pablo de Olavide University (2015-2016)
- ♦ Doctor of Medicine from the Complutense University of Madrid. Outstanding Cum Laude Qualification (2002)
- ♦ Member of the Spanish Society of Medical Oncology and GECP Group (Spanish Spanish Group of Lung)
- ♦ Specialist (MIR) in Medical Oncology, University Hospital San Carlos of Madrid (2000)
- ♦ Degree in Medicine and Surgery, University of Navarra (1995)

Management



Dr. Perez Martínez, David

- ♦ Head of the Neurology Department of the "12 de Octubre" University Hospital
- ♦ Associated Professor in Medicine at the Complutense University of Madrid.(2012-present)
- ♦ Director of Neurowikia.com portal (2010-present)
- ♦ Director of the Brain Foundation (2010-2016)
- ♦ University Expert in Evidence-Based Medicine by the UNED (2007)
- ♦ University Expert in Probability and Statistics in Medicine, UNED (2003)
- ♦ MIR specialist in Neurology at the "12 de Octubre" University Hospital (1996-2000)
- ♦ Degree in Medicine from the Complutense University Madrid (1989 - 1995)

Management



Dr. Lagares Gómez-Abascal, Alfonso

- ♦ Head of Neurosurgery Department, 12 de Octubre University Hospital, Madrid
- ♦ Associate Professor of Neurosurgery, Complutense University of Madrid
- ♦ Accredited as Full University Professor of Health Sciences ANECA. 2008
- ♦ Master's Degree in Medical Management and Clinical Management from the National School of Health (2012- 2013)
- ♦ Doctor of Medicine from the Autonomous University Madrid. Outstanding Doctoral Thesis Award. (2004)
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Faculty

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- ♦ Navarra University Clinic

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- ♦ IMO Group Oncology Area

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- ♦ 12 de Octubre Research Institute of Madrid

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Dr. Paredes Sansinenea, Igor

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- ♦ Virgen de los Lirios Hospital in Alcoy

Dr. Pérez Nuñez, Ángel

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Dr. Puente Muñoz, Ana Isabel

- ♦ Neurophysiology Unit
- ♦ Red Cross Hospital

Dr. Quintanar Verdúñez, Teresa

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- ♦ General University Hospital of Elche

Dr. Ramos González, Ana

- ♦ Radiodiagnostic Service
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Dr. Ribalta, Teresa

- ♦ MD, PhD, Head
- ♦ Anatomic Pathology Service
- ♦ Sant Joan de Déu Hospital
- ♦ Biobank Consultor
- ♦ Anatomic Pathology Service
- ♦ Hospital Clínic Professor of Pathology
- ♦ University of Barcelona

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- ♦ Santiago de Compostela University Hospital Complex
- ♦ Translational Medical Oncology Group Health Research Institute

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- ♦ Ipsos Healthcare

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- ♦ Getafe University Hospital

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- ♦ Medical Oncology Department
- ♦ Cruces University Hospital of Bilbao

Dr. Sepulveda, Juan Manuel

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- ♦ Attending Physician at 12 de Octubre University Hospital, Madrid

Dr. Simó Parra, Marta

- ♦ Neurology Service Bellvitge University Hospital
- ♦ L'Hospitalet de Llobregat. Barcelona

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- ♦ Rey Juan Carlos University Hospital of Madrid

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- ♦ Infanta Cristina University Hospital

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- ♦ Anatomy Pathology Service
- ♦ Bellvitge Hospital
- ♦ Llobregat Hospital, Barcelona

Dr. Villarejo Galende, Alberto

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Dr. Weber Sánchez, Alejandro

- ♦ School of Bioethics, Universidad Anáhuac, Naucalpan de Juárez, Mexico

Dr. Yebra Yebra, Miguel

- ♦ Internal Medicine Service
- ♦ Rey Juan Carlos University Hospital



04

Structure and Content

The content structure has been designed by a team of professionals from the best hospitals and universities in the country, aware of the relevance of current training to intervene in the diagnosis and treatment of Neurosurgery of Brain Tumors pathology, and committed to quality teaching through new educational technologies.



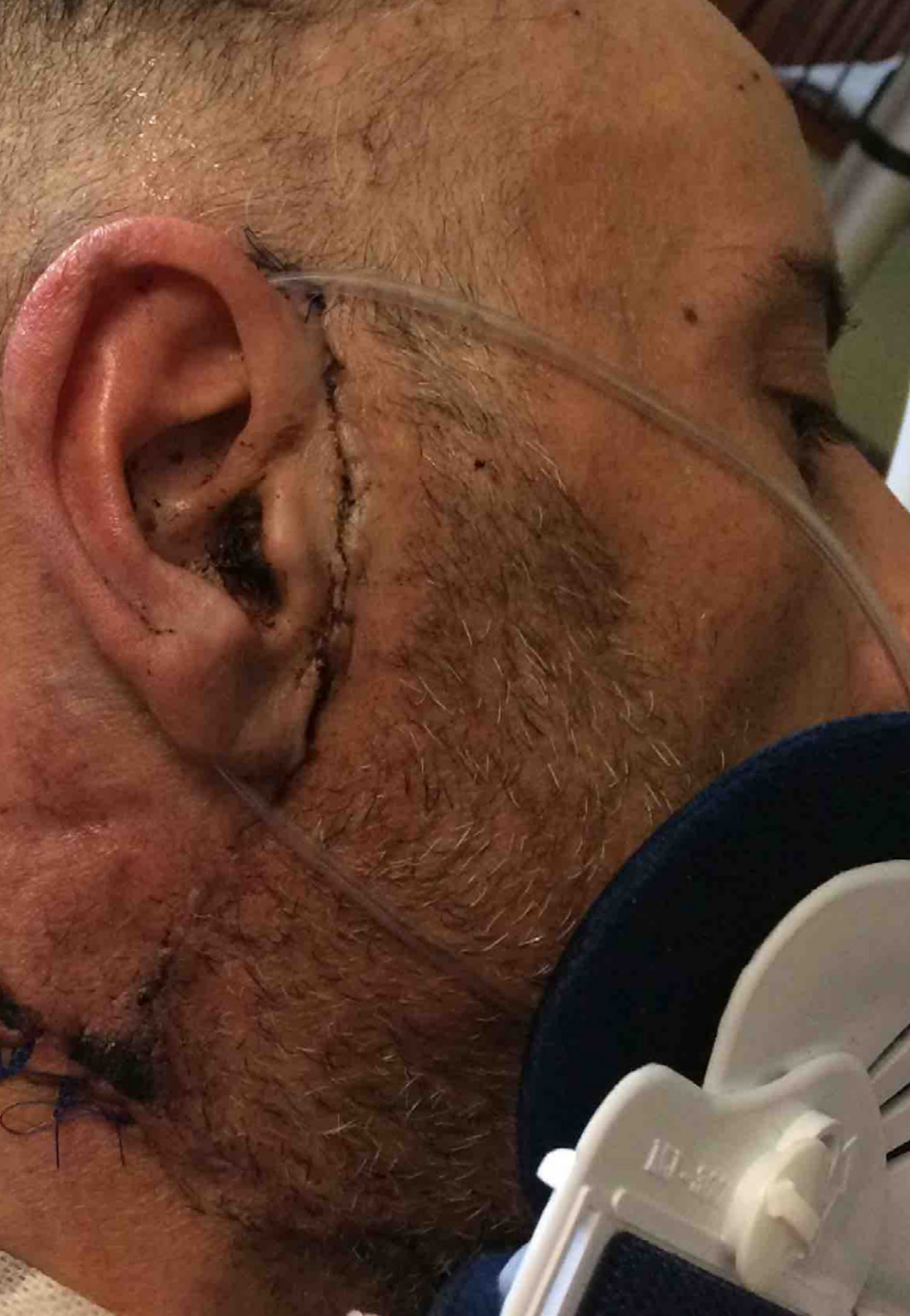
“

This Postgraduate Certificate in Neurosurgery of Brain Tumors contains the most complete and up-to-date scientific program on the market”

Module 1. Neurosurgery of Brain Tumors

- 1.1. General Surgical Strategy in the Treatment of Patients with Primary Brain Tumors
- 1.2. Neuromonitoring in Primary Brain Tumor Surgery
 - 1.2.1. Neurophysiological Basis
- 1.3. Neuromonitoring in Brainstem and Spinal Cord Tumor Surgery
- 1.4. New Technologies to Aid Surgical Treatment
 - 1.4.1. Neuronavigation
 - 1.4.2. Intraoperative Imaging
 - 1.4.3. Fluorescence
- 1.5. Awake Surgery
 - 1.5.1. Indications
- 1.6. Awake Surgery
 - 1.6.1. Anesthetic Considerations
- 1.7. Awake Surgery
 - 1.7.1. Neuropsychological Evaluation and Preparation Protocols
- 1.8. Surgery in Special Locations
 - 1.8.1. Supplementary Motor Area
- 1.9. Surgery in Special Locations
 - 1.9.1. Language Preservation





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*A unique, essential and decisive
learning experience to boost
your professional development”*

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



“

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

“

*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

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.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

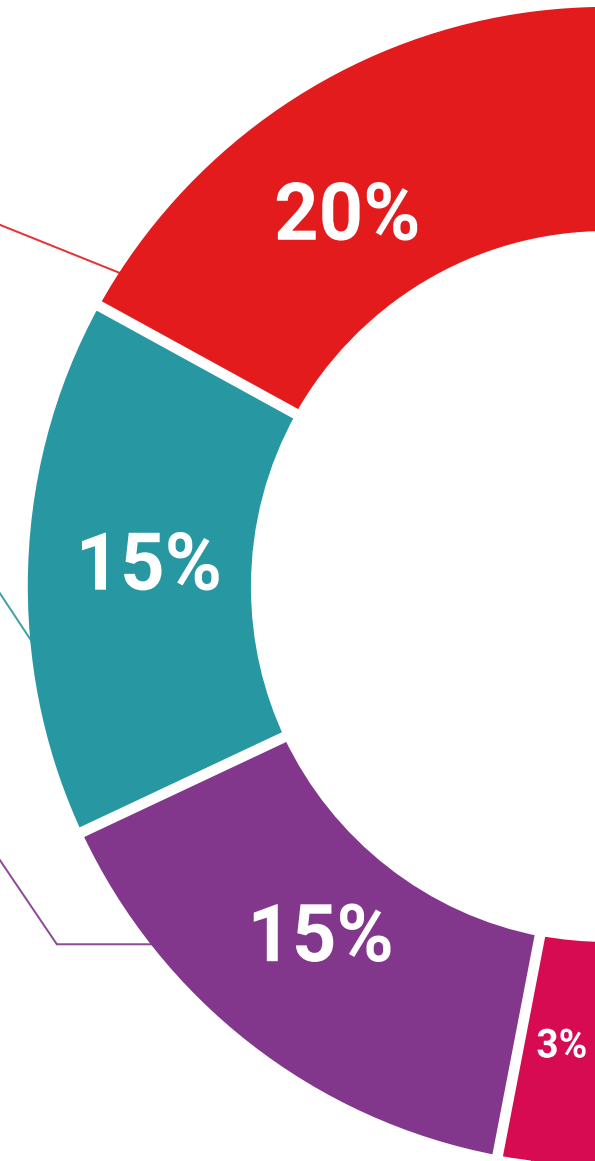
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

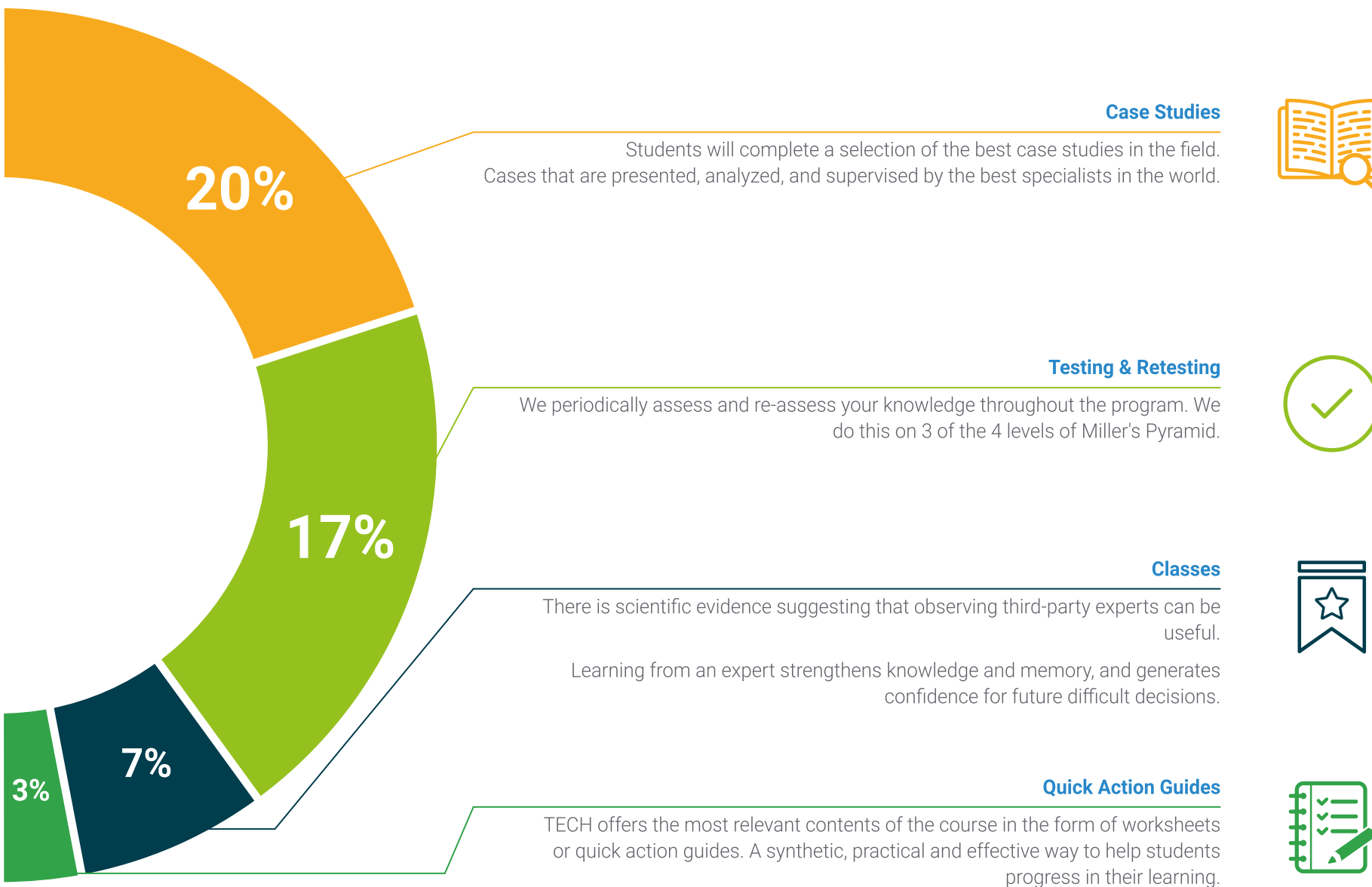
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

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06 Certificate

The Postgraduate Certificate in Neurosurgery of Brain Tumors guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate 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 diploma for the **Postgraduate Certificate in Neurosurgery of Brain Tumors** 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.

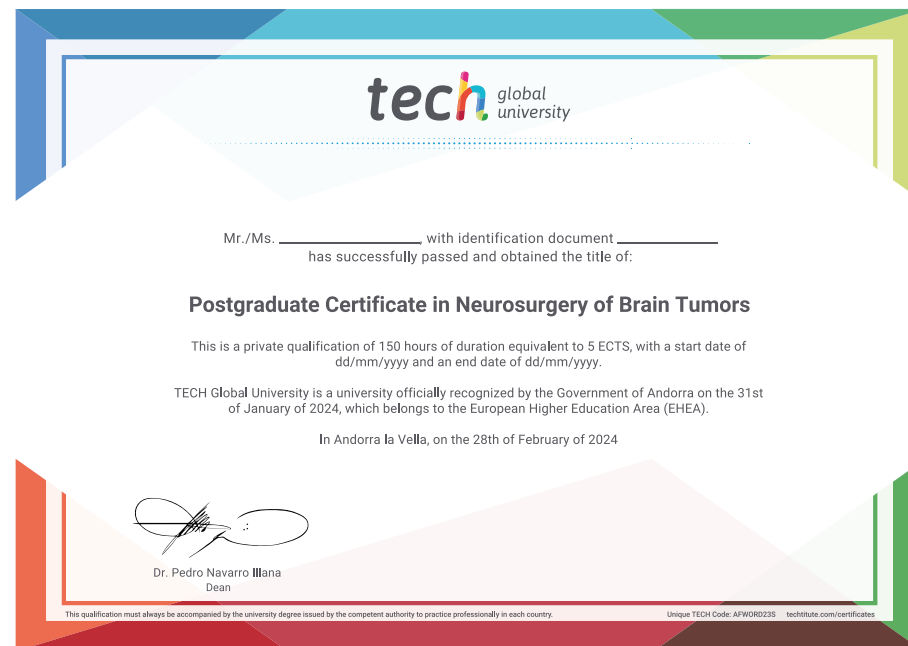
This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Neurosurgery of Brain Tumors**

Modality: **online**

Duration: **2 months**

Accreditation: **5 ECTS**





Postgraduate Certificate

Neurosurgery of Brain Tumors

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Global University
- » Accreditation: 5 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Neurosurgery of Brain Tumors