

Hybrid Professional Master's Degree

Rehabilitation Medicine in Acquired Brain Injury Management





Hybrid Professional Master's Degree Rehabilitation Medicine in Acquired Brain Injury Management

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 créditos ECTS

Website: www.techtitute.com/us/medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-rehabilitation-medicine-acquired-brain-injury-management

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01

Introduction

The new existing approaches for patients with Acquired Brain Injury have opened a wide range of possibilities in the area of Rehabilitation Medicine. Thus, the latest advances in cellular grafts, among other discoveries, have given patients with these types of conditions better prospects for recovery. Therefore, the professional oriented to this clinical field must be updated, and this TECH program offers a great opportunity to achieve this goal. Thus, this program offers a combination of theory and practice, by proposing an online learning phase, where you can get up to date in the discipline, and then put into practice these new developments in person and in a center of recognized prestige in Rehabilitation Medicine.





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Updating on new approaches to Acquired Brain Injury is of vital importance for rehabilitation physicians working in this field. For this reason, TECH offers this program that includes an internship in a prestigious center in this health area”

The current high prevalence of Acquired Brain Injury among the population has prompted new therapeutic and rehabilitative methods. In this way, a more effective response can be offered in the rehabilitation processes of patients with stroke and other conditions where there is an ACD. In addition, this situation has provoked a great response at a social level, as people with this condition can be treated in an effective way, motivating, in turn, a greater demand for physicians specialized in this field.

Thus, this Hybrid Professional Master's Degree combines the most updated scientific knowledge in neurosciences and rehabilitation. As a result, it offers the professional the latest advances in subjects such as the assessment and therapeutic intervention of ACD in geriatric and pediatric patients, while at the same time it delves into the approach to cases of ACD in patients with altered states of consciousness.

On the other hand, the content of this program is focused on the detailed updating of medical professionals working in the area of rehabilitation in the approach to Acquired Brain Injury, but also on the initiation of their activity as professionals in the field of research.

In addition to all this, there is the irruption of technological innovation in the disciplines related to rehabilitation, since technology has brought us closer to a better diagnostic and therapeutic knowledge of the issues that professionals in this field may face. This boom in information and knowledge has led universities to adapt their training programs to the new health and social realities.

Faced with this situation, TECH presents this blended learning program, which consists of two distinct learning and updating stages. On the one hand, the physician will have the opportunity to access the most advanced theoretical and practical contents in this health area completely online, studying when, where and how they wish. On the other hand, you will have access to an internship in a prestigious center, where, accompanied by the clinic's own experts, you will review real cases.

Thus, this program brings together up-to-date theory and practice, making it a perfect option for professionals who do not wish to opt for a rigid and not very dynamic teaching method that does not allow them to immediately integrate what they have learned into their daily work.

This **Hybrid Professional Master's Degree in Rehabilitation Medicine in Acquired Brain Injury Management** contains the most complete and up-to-date scientific program on the market. Its most outstanding features are:

- ♦ The development of more than 100 clinical cases presented by professionals in rehabilitation medicine in the approach to acquired brain injury, and university professors with extensive experience
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Comprehensive plans of systematized action for patients with acquired brain damage
- ♦ Algorithm-based interactive learning system for decision-making in the situations that are presented to the student
- ♦ Clinical practice guidelines on the approach to different pathologies
- ♦ Its special emphasis on evidence-based medicine and research methodologies in Rehabilitation Medicine in Acquired Brain Injury Management
- ♦ 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



Add to your online study the internship in a hospital center that meets the highest standards of quality and technological level"

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This program combines up-to-date theoretical content on the latest scientific developments in Rehabilitation Medicine in ACD with a practical and intensive 3-week stay”

In this proposed Professional Master's Degree, of a professionalizing nature and blended learning modality, the program is aimed at updating medical professionals who require a high level of qualification. The contents are based on the latest scientific evidence and oriented in a didactic way to integrate theoretical knowledge into medical practice, and the theoretical-practical elements will facilitate the updating of knowledge and will allow decision making in patient management.

Thanks to its multimedia content developed with the latest educational technology, they will allow the medical professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to train in real situations. This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

Take an intensive 3-week program and acquire all the knowledge you need to grow personally and professionally.

TECH provides you with a unique hands-on learning experience by opening the doors to a renowned clinical center.



02

Why Study this Hybrid Professional Master's Degree?

Access to theoretical contents is a first step to be updated in such a complex area as Acquired Brain Injury and its approach from Rehabilitation Medicine. However, in order to catch up effectively, it is necessary to have hands-on experience. That is why TECH has designed this program, which allows the professional to have an advanced syllabus in this area, whose novelties can be put into practice in a face-to-face stay in a prestigious center in DCA and rehabilitation. In this way, the student will obtain a complete learning experience, combining theory and practice, and having participated in a real working environment.



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Access to real health environments in the area of Rehabilitation Medicine in DCA thanks to TECH, which offers you a stay in a center of great prestige in the approach of this type of conditions"

1. Updating from the latest technology available

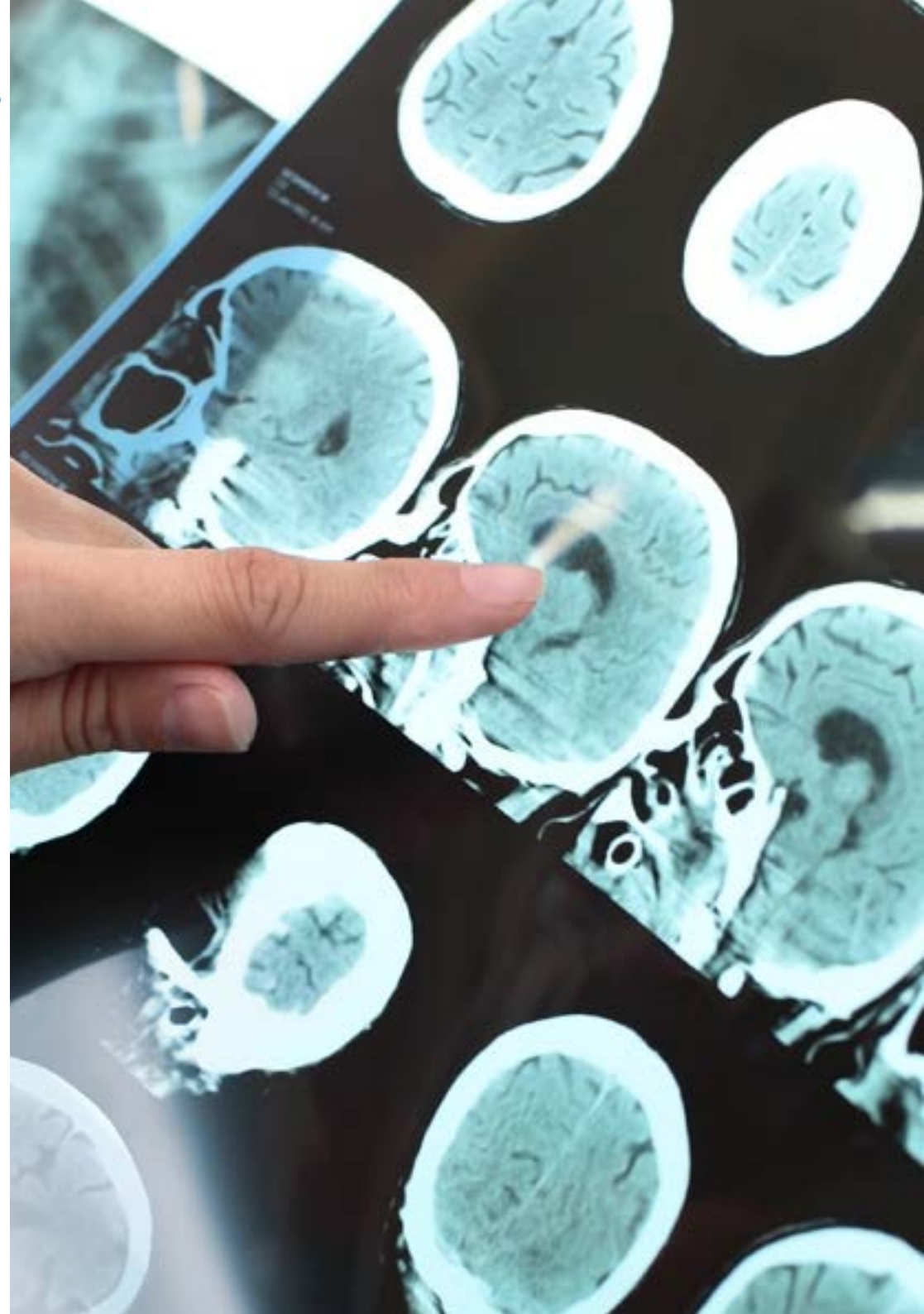
Rehabilitation medicine has advanced enormously in recent years, driven by advances such as the use of molecular bioengineering and stem cells, among other scientific and technological innovations. Thus, with these practices, the professional will be able to approach the most recent developments in equipment oriented to the approach of ACD, and later, can work in their daily work according to the most advanced devices and techniques.

2. Gaining In-Depth Knowledge from the Experience of Top Specialists

One of the great advantages offered by this TECH program is the opportunity to develop in a professional environment with the accompaniment of specialists of great prestige in this clinical field. Thus, this enriching experience will allow the student to learn the working methods of reference physicians in the field of Rehabilitation Medicine and DCA.

3. Entering First-Class Clinical Environments

The centers TECH selects have a high reputation in their respective professional and clinical areas. Therefore, the medical specialist will have the opportunity to learn about the operation of this type of centers and to work in them in a completely real way, accessing their technological equipment, their facilities and participating in the different clinical processes present in the day-to-day life of the institution.



4. Combining the Best Theory with State-of-the-Art Practice

Most current academic programs are focused on theory and have a rigid and traditional orientation, without taking into account the current needs of medical specialists. TECH has taken this into account, and has designed this program, which combines up-to-date content presented in an online format with useful practical exercises. Thus, this program has it all: the latest scientific evidence in the approach to ACD from Rehabilitation Medicine and the possibility of putting these recent advances into practice in a prestigious clinical center for 3 weeks.

5. Expanding the Boundaries of Knowledge

The possibility of a practical internship in an internationally recognized center makes this program stand out above all others. Thus, thanks to this program and its professionalizing approach, the specialist in Rehabilitation Medicine will be able to catch up through a transformative experience.

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You will have full practical immersion at the center of your choice”

03

Objectives

Thanks to a top-quality syllabus taught in multimedia format, the specialist will be able to get up to date in the approach to ACD based on the new trends in Rehabilitation Medicine. An academic opportunity that also includes a practical stay where you can put what you have learned into action under the tutelage of real experts in this important area.





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The best academic program on the market today to bring you up to speed in the management of patients with ACD-related complications”



General Objective

- The development of this Hybrid Professional Master's Degree in Rehabilitation Medicine in the Approach to Acquired Brain Injury has been carried out with the aim of bringing the specialist up to date with the advances in neuroscience applied to the clinical field. This will enhance your practice and allow you to hone your skills in a guaranteed way in the management of patients with pathologies affecting their neuroanatomy and neurophysiology



You will be able to get up to date in a practical way, with the accompaniment of great specialists in the approach to Acquired Brain Injury"





Specific Objectives

Module 1. Neuroanatomy and Neurophysiology

- ♦ Know the structural anatomical bases of the nervous system
- ♦ Know the functional anatomical bases of the nervous system
- ♦ Gain up-to-date knowledge of the physiology of movement
- ♦ Analyze the neurophysiological processes of motor learning
- ♦ Revise the different theories of motor control
- ♦ Gain up-to-date knowledge in the neuroscience applied to neurological injuries

Module 2. ABI

- ♦ Recognize what is and what is not ABI
- ♦ Gain in-depth understanding of the epidemiology of ABI
- ♦ Know the implications of ABI according to the age of the patient
- ♦ Identify different symptoms and syndromes according to the area affected by the ABI
- ♦ Learn to identify hemineglect and understand its implications for the patient and for the therapeutic approach
- ♦ Learn to recognize the pusher syndrome and gain up-to-date knowledge about it in view of its implications in the therapeutic approach
- ♦ Understand the difference between cerebellar versus basal ganglia symptomatology
- ♦ Distinguish spasticity from other tone disturbances
- ♦ Recognize apraxia and its implications for the patient and for the therapeutic approach.
- ♦ Learn to identify alien hand syndrome

Module 3. Assessment of a Patient with ABI

- ♦ Interpret the radiological findings in a CAT scan
- ♦ Interpret the radiological findings in MRI
- ♦ Know the different types of complementary radiodiagnostic tests
- ♦ Learn to carry out a complete neurological examination
- ♦ Plan the therapeutic approach according to the findings of the neurological examination and the Rehabilitation Physician
- ♦ Learn examination techniques for the differential diagnosis of the different neurological signs and symptoms
- ♦ Know the pathological reflexes and identify them
- ♦ Conduct a review of assessment scales and tests
- ♦ Learn how to write Rehabilitation Medicine reports
- ♦ Learn to interpret medical reports or reports from other specialists in order to extract the relevant information

Module 4. Multidisciplinary Intervention in ABI

- ♦ Know the different methods and concepts used by neurological rehabilitation physicians
- ♦ Perform a review of the scientific evidence of the different methods, concepts and therapeutic tools
- ♦ Know the therapeutic tools of other professionals from the clinical team
- ♦ Know the expertise of other professionals on the clinical team to refer patients when necessary
- ♦ Review the most useful orthoses and support products for patients with ABI
- ♦ Learn to identify communication disorders in order to refer them to the competent professional and contemplate them in the patient's overall condition
- ♦ Learn to identify swallowing disorders in order to refer them to the competent professional and contemplate them in the overall condition of the patient
- ♦ Know the different cognitive domains
- ♦ Recognize the implication of the different cognitive domains injured or intact in movement impairment and what implication they have in the medical approach
- ♦ Learn to identify behavioral disorders secondary to ABI in order to refer them to the competent professional and contemplate them in the overall condition of the patient
- ♦ Take into account the emotional state of the patient and the family and how it affects the approach and rehabilitation

Module 5. Complications in Patients with ABI

- ♦ Revise the most frequent complication of patients with ABI to prevent them or alleviate them
- ♦ Learn to identify pain and how to approach it
- ♦ Identify the factors which provoke shoulder pain, how to prevent it and how to approach it once it appears
- ♦ Recognize respiratory complications and know how to approach them from the Rehabilitation Medicine point of view
- ♦ Learn to identify the signs and symptoms of complications that must be referred to other professionals

Module 6. ABI in Pediatrics

- ♦ Revise the neurodevelopment normative in order to identify the prognosis in the rehabilitation from the ABI according to the age of the patient
- ♦ Learn to assess pediatric patients for their unique and age-specific characteristics
- ♦ Know the specific approach models of pediatric rehabilitative medicine in ABI
- ♦ Revise the skills of other professionals in the team in the field of pediatrics
- ♦ Know the implication of the educational field in the rehabilitation of minors with ABI



Module 7. ABI in Altered States of Consciousness

- ♦ Review the neurophysiology of consciousness
- ♦ Learn to assess the grade of alteration of consciousness
- ♦ Learn to estimate a prognosis based on examination and evolution
- ♦ Identify the appearance of pain in people with altered consciousness
- ♦ Learn to program a physiotherapeutic approach protocol
- ♦ Know the work of the rest of the professionals of the team in order to carry out the Rehabilitation Physician program
- ♦ Carry out a review of the possible complications in an attempt to avoid them or alleviate them

Module 8. ABI in Geriatrics

- ♦ Know the characteristics specific to geriatric patients with ABI
- ♦ Revise the typical comorbidities in the elderly
- ♦ Learn to create a rehabilitation program in conjunction with the rest of the team
- ♦ Know the discharge options in order to make the best decision for the patient regarding their residence and rehabilitation
- ♦ Learn to appropriately adjust the environment to make it as functional as possible
- ♦ Know the role of the family and legal guardians
- ♦ Carry out a review of the most used technical supports for geriatric patients with ABI

04 Skills

After passing the evaluations of the Hybrid Professional Master's Degree in Rehabilitation Medicine in Acquired Brain Injury Management, the professional will have acquired the professional competencies necessary for up-to-date clinical care, based on the latest scientific evidence.



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This program has been specifically designed to provide physicians with the latest techniques for assessment and intervention in the rehabilitation of patients with ACD”



General Skills

- ♦ Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- ♦ Apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the field of study
- ♦ Integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments
- ♦ Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- ♦ Acquire the learning skills that will enable them to continue studying in a manner that will be largely self-directed or autonomous





Specific Skills

- ♦ Gain in-depth understanding of the epidemiology of ABI
 - ♦ Describe the implications of ABI according to the age of the patient
 - ♦ Explain the therapeutic tools of other professionals from the clinical team
 - ♦ Define the competencies of other professionals in the clinical team in order to learn how to refer to them when necessary
 - ♦ Explain the different types of complementary radiodiagnostic tests
 - ♦ Learn to carry out a complete neurological examination
 - ♦ Plan the therapeutic approach in function with the findings in the neurological examination and Doctor assessment
 - ♦ Explain the work of the rest of the professionals of the team in order to carry out the therapeutic program
 - ♦ Carry out a review of the possible complications in an attempt to avoid them or alleviate them
 - ♦ Gain up-to-date knowledge of the physiology of movement
 - ♦ Analyze the neurophysiological processes of motor learning
 - ♦ Explain the characteristics specific to geriatric patients with ABI
 - ♦ Revise the typical comorbidities in the elderly
- ♦ Learn to create a rehabilitation program in conjunction with the rest of the team
 - ♦ Define the different methods and concepts used by neurological physiotherapists
 - ♦ Perform a review of the scientific evidence of the different methods, concepts and therapeutic tools
 - ♦ Define the different cognitive domains
 - ♦ Recognize the implication of the different cognitive domains, injured or intact, in movement impairment and their implication in the Medicine approach



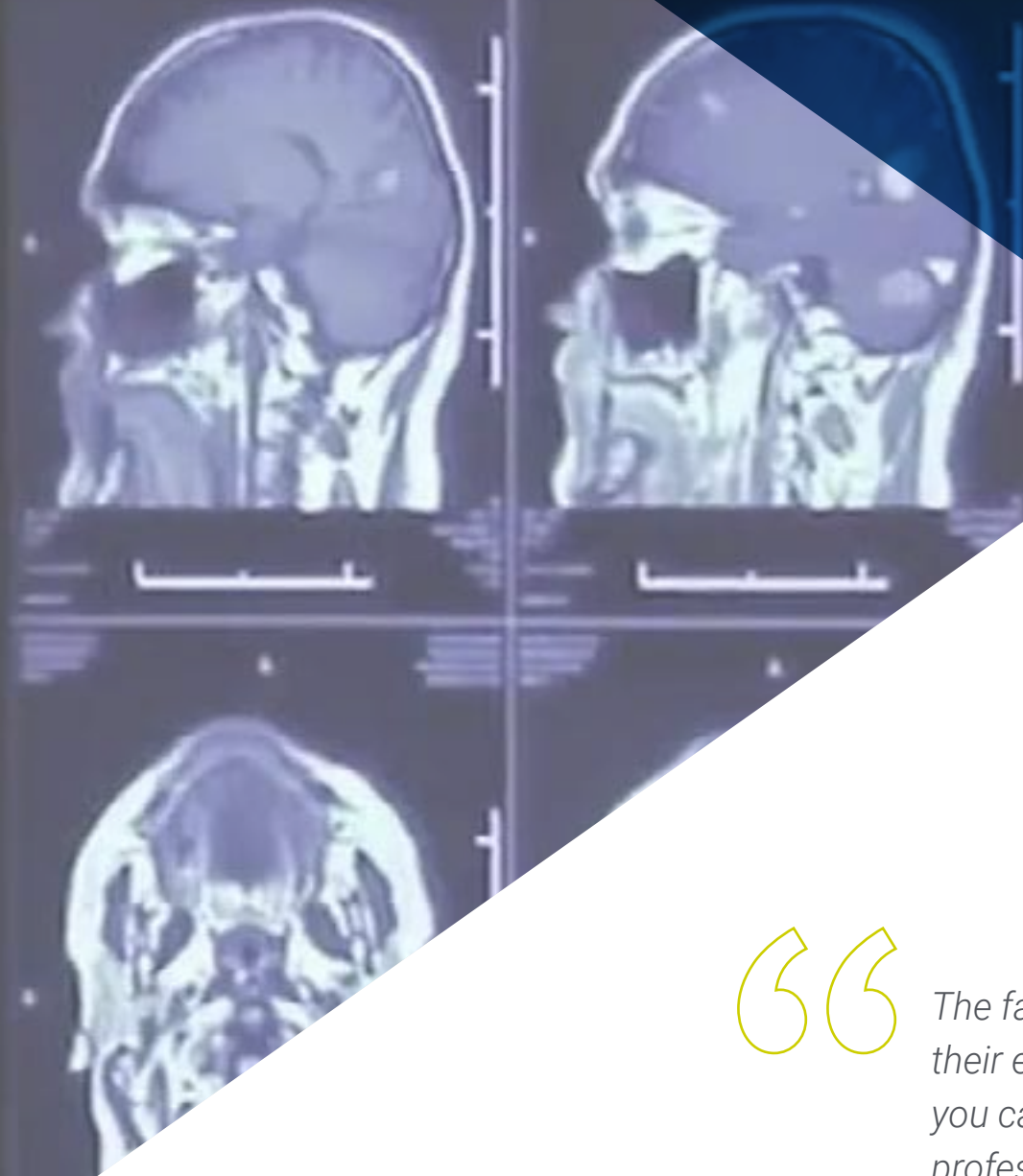
This program contemplates not only the medical approach to ACD, but also a multidisciplinary approach that includes physiotherapy, among other aspects"

05

Course Management

The teaching staff of this program is composed of professionals experienced in the management of patients with ACD. These teachers will transfer to the student, in a direct and immediate way, all their knowledge, presented through the most advanced multimedia resources in the educational market. Therefore, the physician is facing the best option to get up to date in this discipline, with the guarantee of quality that TECH always offers in its programs.





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The faculty of this program will transmit all their experience in a dynamic way, so that you can integrate it directly into your daily professional life"

International Guest Director

Dr. David Lin is an internationally renowned neurologist, specializing in Intensive Care and Neurorehabilitation. As such, his clinical practice focuses on the treatment of patients with acute neurological injuries, including Stroke, Cerebral Hemorrhage, Head Trauma and Spinal Cord Injury, providing a comprehensive approach to the recovery of these patients in the Neurosciences Intensive Care Unit at Massachusetts General Hospital, USA, where he has held a senior position as Director of the Neurorehabilitation Clinic.

In the field of research, he has served as Director of the Translational Recovery Laboratory, where he has employed advanced techniques such as Quantitative Movement Analysis, Neuroimaging and Brain Stimulation to understand and improve motor recovery after a stroke. In fact, his work has been oriented towards the clinical application of these discoveries, seeking to transform Neurological Rehabilitation through a deeper understanding of the brain mechanisms involved.

In addition, David Lin, M.D., has been recognized for his clinical innovations, including the development of the Outpatient Stroke Motor Recovery Program and a follow-up program for patients with post-Covid-19 neurological complications. He has also established an interdisciplinary outpatient program, which integrates various health professionals to provide comprehensive care for patients with acute neurological diseases.

Likewise, his work has been highlighted in international conferences, such as the International Spring School of BCI and Neurotechnology, in Austria, where he has shared his knowledge on the clinical relevance of brain-computer interfaces for stroke rehabilitation. At the same time, he has continued to advance in the field of Neurorehabilitation, with innovative projects such as the design of next generation neurotechnologies, including an Orthotic Arm System based on brain-computer interfaces, in collaboration with the Laboratory of Restorative Neurotechnology (BrainGate).



Dr. David, Lin

- ♦ Director of the Neurological Recovery Clinic at Massachusetts General Hospital, USA
 - ♦ Director of the Translational Recovery Laboratory at Massachusetts General Hospital
 - ♦ Principal Investigator at Providence Veterans Affairs Medical Center, Providence, VA
 - ♦ Fellow in Neurocritical Care at Massachusetts General Hospital and Brigham and Women's Hospital
 - ♦ Neurorecovery Fellow at Massachusetts General Hospital and Spaulding Rehabilitation Hospital
 - ♦ Fellow in Neurology at Massachusetts General Hospital and Brigham and Women's Hospital
 - ♦ M.D. Harvard University
 - ♦ B.S. in Mathematics and Computer Science from Stanford University
- Member of: American Academy of Neurology, Society for Neuroscience, American Heart Association, American Society of Neurorehabilitation



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

Management



Ms. Berta De Andrés Garrido

- ♦ Coordinator of the Physiotherapy Area at Neurointegra
- ♦ Neurophysiotherapist at Neurointegra Neurological Rehabilitation Center
- ♦ Coordinator of the Neurophysiotherapy Study Section of the Spanish Society of Neurology
- ♦ Responsible for the Training Area at Neurointegra Neurological Rehabilitation Center
- ♦ Postgraduate studies in Physiotherapy for Acquired Brain Injury
- ♦ Diploma in Physiotherapy from the University Alfonso X el Sabio. Madrid
- ♦ Master's Degree in Physiotherapy in the Neurological Approach to Child and Adult by the University of Murcia
- ♦ Master's Degree in Neurological Physiotherapy from the University Pablo de Olavide

Professors

Dr. Elisabeth Bravo Esteban

- ♦ Researcher Specializing in Neurological Physical Therapy
- ♦ Physiotherapist at Cefisa Clinic
- ♦ Lecturer in undergraduate and postgraduate studies in Physiotherapy
- ♦ Researcher in Physical Therapy for Neurological Pathologies
- ♦ Author of several scientific articles
- ♦ Dr. in Social and Health Research and Physical Activity from the University of Castilla-La Mancha
- ♦ Diploma in Physiotherapy from the University of Castilla-La Mancha
- ♦ Master's Degree in the Study and Treatment of Pain from Rey Juan Carlos University

Ms. Tatiana Ferreiro Pardo

- ♦ Physiotherapist Specializing in Neurorehabilitation in Fivan
- ♦ Pediatric Physiotherapist at the Early Childhood Care Center
- ♦ Neurological Physiotherapist at EuroEspes
- ♦ Physiotherapist in Residence and Meu Lar CD
- ♦ Physiotherapist
- ♦ Diploma in Physiotherapy from the University of Valencia
- ♦ Master's Degree in Neurosciences by the University of Santiago de Compostela

Dr. Julio Gómez Soriano

- ♦ Head of the Toledo Physiotherapy Research Group (GIFTO)
- ♦ Head of the Toledo Physiotherapy Research Group (GIFTO) at the University School of Nursing and Physiotherapy of Toledo at the University of Castilla-La Mancha
- ♦ Collaborating researcher of the Sensory-Motor Function Group at the Hospital Nacional de Paraplégicos. Toledo, Spain
- ♦ Dr. in Neurological Pathology from the Department of Physical Therapy, Occupational Therapy, Rehabilitation and Physical Medicine
- ♦ Master's Degree in Neurological Pathology from Rey Juan Carlos Univeristy
- ♦ Dr. in Neurological Pathology from Rey Juan Carlos Univeristy
- ♦ Diploma in Physiotherapy
- ♦ Graduate in Physical Activity and Sports Sciences from the University of Castilla-La Mancha

Dr. Soraya Pérez Nombela

- ♦ Physiotherapist at the University of Castilla-La Mancha
- ♦ Research Physiotherapist at the National Paraplegic Hospital
- ♦ Diploma in Physiotherapy from the University of Castilla-La Mancha
- ♦ Master's Degree in Neurological Pathology from Rey Juan Carlos Univeristy
- ♦ Specialist in Human Gait Biomechanics, Neurorehabilitation, Robotics and Spinal Cord Injury

Dr. Esteban Sarrías Arrabal

- ♦ Psychologist Specialized in Neurosciences
- ♦ PhD from the University of Seville
- ♦ Graduate in Psychology from the University of Malaga (UMA)
- ♦ Master's Degree in Advanced Studies of the Brain and Behavior

Mr. Ignacio Mariño Estelrrich

- ♦ Physiotherapist at Hospital Sant Joan de Déu de Martorell
- ♦ Degree in Physiotherapy
- ♦ Master's Degree in Neurophysiotherapy
- ♦ Master's Degree in Direction, Management and Entrepreneurship of Health Centers and Social Services
- ♦ Member of the College of Physiotherapists of Catalonia

Ms. Paloma Amor Hernández

- ♦ Health Psychologist in Amalgama7
- ♦ Health Psychologist at NB Psicología
- ♦ Health Psychologist at the Center for Clinical and Social Intervention
- ♦ Predoctoral researcher in the Constructivist Research Group of the National University of Distance Education (UNED)
- ♦ Graduate in Psychology from the National University of Distance Education (UNED)
- ♦ Master's Degree in Intervention in Psychology from the National University of Distance Education (UNED)
- ♦ Master's Degree in General Health Psychology from the National University of Distance Education (UNED)

Ms. Laura Bacardit Riu

- ♦ Physiotherapist at MiT Fisioterapia
- ♦ Physiotherapist Expert in the Treatment of Stroke or Traumatic Brain Injury
- ♦ Speaker at Physiotherapy 2.0, from opinion to evidence
- ♦ Master's Degree in Neurorehabilitation by Guttmann Institute Neurorehabilitation Hospital

Ms. Arantzazu Aguirre Moreno

- ♦ Occupational Therapist in the Child and Adolescent Unit
- ♦ Occupational Therapist of the Child and Adolescent Unit at the Day Hospital in the Mental Health Area
- ♦ Occupational Therapist at the Galey Clinic
- ♦ Occupational Therapist at Orion Children's Therapy Center
- ♦ Teacher in programs and workshops related to Sensory Integration.
- ♦ Diploma in Occupational Therapy from the Complutense University of Madrid
- ♦ Master's Degree in Early Childhood Care at the Technical Institute of Applied Studies (ITEAP)

Dr. Carina Salgueiro

- ♦ Physiotherapist Specializing in Neurocognitive Rehabilitation
- ♦ PhD from the University of Seville
- ♦ Degree in Physiotherapy
- ♦ Master's Degree in Rehabilitation in Neurology: Practical Application of Assessment and Treatment
- ♦ Professional Master's Degree in Neurosciences
- ♦ Master's Degree in Translational Research in Physiotherapy
- ♦ Bobath Concept Specialist
- ♦ Lecturer at different universities and specialized centers

Mr. Pablo Ruiz García

- ♦ Physiotherapist Specializing in Neurorehabilitation
- ♦ Physiotherapist at the Acquired Brain Injury Association (ADACEA). Alicante, Spain
- ♦ Degree in Physiotherapy
- ♦ Master's Degree in Neurorehabilitation

Dr. Patricia Ferrand Ferri

- ♦ Specialist in Physical Medicine and Rehabilitation
- ♦ Specialist in Physical Medicine and Rehabilitation at the Virgen del Rocío University Hospital
- ♦ Speaker at congresses and conferences in her specialty
- ♦ Co-author of the article Análisis de consistencia de los parámetros temporoespaciales con la valoración de la marcha en pacientes con Ictus (Consistency analysis of temporo-spatial parameters with gait assessment in stroke patients)

Dr. Lidia Lara Lezama

- ♦ Assistant Physician of the Neurology Service at the University Health Care Complex of León
- ♦ Specialist in Neurology
- ♦ Degree in Medicine and Surgery

Dr. Sergio Lerma Lara

- ♦ Co-Founder of Smart Dyspnea and Dean of the Faculty of Health Sciences CSEU La Salle
- ♦ Researcher at the Niño Jesús University Children's Hospital
- ♦ Lecturer of the Master's Degree in Applied Biomechanics
- ♦ Technical Coordinator of the Movement Analysis Laboratory at the Niño Jesús University Children's Hospital
- ♦ Doctor Cum Laude in Physiotherapy from Rey Juan Carlos Univeristy
- ♦ Master's Degree in the Study and Treatment of Pain at Rey Juan Carlos Univeristy
- ♦ Graduate in Physiotherapy from Comillas Pontifical University
- ♦ Curso de Concepto Maitland de Terapia Manual Ortopédica

Ms. Belén Gallego

- ♦ Occupational Therapist

Mr. Juan Luis Abeledo

- ♦ Physical Therapist Specialist in Aquatic Therapy for People with Disabilities
- ♦ Physiotherapist at the Upacesur Foundation
- ♦ Physiotherapist at the Ceutí Rehabilitation Institute
- ♦ Physiotherapist at the Association for the Disabled of Rota
- ♦ Vice President of RETacua
- ♦ Diploma in Physiotherapy from the University of Cadiz
- ♦ Specialist in Hydrotherapy by the University of Castilla-La Mancha
- ♦ Specialist in Hydrotherapy by the University of Castilla-La Mancha Courses and participation in the program of Physiotherapy Applied to People with Cerebral Complexities

Dr. José Ángel Rubiño Díaz

- ♦ Researcher and lecturer at the University of the Balearic Islands. Spain
- ♦ Member of the Neuropsychology and Cognition Research Team at the Foundation
- ♦ Balearic Islands Health Research Institute
- ♦ Neuropsychologist and Psychogerontologist at the Calvià Foundation
- ♦ Nurse at the University Hospital Son Espases
- ♦ Director of the María Aguilera Foundation
- ♦ PhD in Neuroscience from the University of the Balearic Islands
- ♦ Expert in Direction and Management of Senior Citizen Centers by the National University of Distance Education (UNED)
- ♦ Degree in Psychology from the University of Granada

D. Antonio Calderón Lucena

- ♦ Medical Park Rehabilitation Clinic (Bad Feilnbach)
- ♦ Occupational Therapist

Mr. Alberto Del Barco Gavala

- ♦ Clinical Neuropsychologist at the Valencian Neurorehabilitation Institute Foundation
- ♦ Coordinator of the Clinical Neuropsychology Program at the Virgen Macarena University Hospital
- ♦ Clinical Neuropsychologist at the Chárbel Neurorehabilitation Institute
- ♦ Clinical Neuropsychologist at the General Hospital of Jerez de la Frontera
- ♦ Director of the Consortium for Clinical Neuropsychology
- ♦ Author of the book Neuropsychology of Brain Injury due to Stroke and TBI
- ♦ University postgraduate studies teacher
- ♦ Degree in Psychology from the University of Granada
- ♦ Master's Degree in Clinical Neuropsychology from the Pablo Olavide University

Ms. Patricia Aguado Caro

- ♦ Neuropsychologist Specialized in Pediatric Treatment
- ♦ Neuropsychologist at Neurointegra Neurological Rehabilitation Center
- ♦ Neuropsychologist at Ineuro Rehabilitation Center
- ♦ Degree in Psychology from the University of Seville
- ♦ Master's Degree in Pediatric Neuropsychology from Universidad Pablo de Olavide
- ♦ Master's Degree in Neurosciences and Behavioral Biology from Universidad Pablo de Olavide
- ♦ Expert in Speech Therapy by ICSE

Mr. José Luis Montero Leyva

- ♦ Rehabilitation Coordinator at the Beato Fray Leopoldo Nursing Home
- ♦ Physiotherapist at the Residence Beato Fray Leopoldo
- ♦ Physiotherapist Specialized in Geriatrics and Gerontology
- ♦ Member of: Spanish Society of Geriatrics and Gerontology

Dr. Natividad Narbona González

- ♦ Neuropsychologist in Neurointegra
- ♦ Neuropsychologist at CPM Aljarafe
- ♦ Neuropsychologist at the Sevillian Association of Asperger Syndrome
- ♦ Graduate from the University of Seville
- ♦ Dr. in Neurosciences from the Universidad Pablo de Olavide.
- ♦ Master's Degree in Advanced Studies in Brain and Behavior, University of Seville, Spain
- ♦ Expert in Psychosocial Patient Support, Health Services, University of Seville, Spain

Dr. Augusto Rembrandt Rodríguez Sánchez

- ♦ Researcher at the University of Seville
- ♦ Owner of ENGYmove
- ♦ Substitute teacher at the University of Seville
- ♦ Degree in Physical Activity and Sports Sciences from the University of Seville.
- ♦ PhD from the University of Seville
- ♦ Master's Degree in Social Education and Sociocultural Animation from the University Pablo de Olavide
- ♦ Diploma in Physical Education from the University of Seville

Dr. Rebeca De la Fuente

- ♦ Doctor specialized in Neurology
- ♦ Médico Adjunto del Servicio de Neurología en el Hospital Universitario de León. Spain
- ♦ Author of several scientific publications related to Neurology
- ♦ Ponente en congresos relacionados con la Neurología

Mr. Víctor Crespillo

- ♦ Psychologist
- ♦ Domus vi sad Sevilla

Ms. Estela Monís Rufino

- ♦ Pediatric Physical Therapist at Neurointegra
- ♦ Neurophysiotherapist
- ♦ Diploma in Physiotherapy
- ♦ Program of Introduction to the Bobath Concept in Pediatrics: Normal Movement by the Bobath Foundation
- ♦ Master's Degree in Neufisioterapia from the University Pablo de Olavide
- ♦ Postgraduate Specialization in Early Childhood Care by the University of Nebrija
- ♦ Specialization Program on Autism Spectrum Disorders by the Seville Autism Association (Asociación Autismo Sevilla)
- ♦ Specialization Program in Neonatal Pediatric Physiotherapy
- ♦ Member of: Spanish Society of Neurology, Spanish Society of Pediatric Physiotherapy, Spanish Association of Early Childhood Intervention, Interprofessional Association of Early Childhood Care of Andalusia

Mr. Ignacio Lafuente Jándula

- ♦ Physiotherapist Expert in Neurophysiotherapy and Neuroimaging
- ♦ Self-Employed Physiotherapist
- ♦ Coordinator of the Master's Degree in Neurophysiotherapy at the Universidad Pablo de Olavide Physiotherapist at the AISSE Foundation
- ♦ Senior Diagnostic Imaging Technician at Vithas Parque San Antonio Hospital
- ♦ Postgraduate Expert in Neuroimaging Techniques
- ♦ Master's Degree in Neurophysiotherapy from the Universidad Pablo de Olavide
- ♦ Graduate in Physiotherapy from the University of Malaga

Ms. Alba Mena

- ♦ Social Worker



Ms. Mónica Pérez Rodríguez

- ◆ Neuropsychologist in Neurointegra
- ◆ Neuropsychologist at Ineuro-SCA
- ◆ Psychologist at Rincomed Medical Examination Center
- ◆ PhD Candidate and Neuropsychologist at the CRECER Brain Injury Rehabilitation Center of the University of Seville
- ◆ Master's Degree in General Health Psychology from the Universidad Nacional de Educación a Distancia (UNED)
- ◆ Degree in Psychology from the University of Seville

Dr. Fernando Vázquez Sánchez

- ◆ Neurology of the University Hospital of Burgos. Spain
- ◆ Neurologist at the de Bigorre Hospital Center. France
- ◆ Neurologist at the Public du Cotentin Hospital Center. France
- ◆ Neurologist at the Don Benito-Villanueva Hospital Center. Spain
- ◆ Neurologist at the University Hospital of León. Spain
- ◆ Author of numerous national and international articles
- ◆ Degree in Medicine from the University of Salamanca
- ◆ Interuniversity Diploma in Neurophysiology from the University of Lille. France

Ms. Alba Hurtado de Mendoza Fernández

- ◆ Specialty in Cognitive Neuroscience
- ◆ Diploma in Occupational Therapy
- ◆ Master's Degree in Neuroscience
- ◆ Advanced training in Neurorehabilitation

Dr. Mario Lozano Lozano

- ♦ Teaching Researcher in the Department of Physiotherapy in the Faculty of Health Sciences at the University of Granada
- ♦ Doctorate in Clinical Medicine and Public Health
- ♦ Graduate in Occupational Therapy from the University of Granada
- ♦ Member of: Cuídate, Research Group of the Oncology Patient Support Unit, Steering Committee of the European Task Force of Occupational Therapy in Palliative Care

Ms. Inmaculada Piñel Cabas

- ♦ Occupational Therapist at Neurointegra
- ♦ Occupational Therapist at Ineuro Project
- ♦ Degree in Occupational Therapy from the University of Granada
- ♦ Master's Degree in New Trends in Health Sciences Research by the University of Malaga, Spain

Mr. Alejandro Moreno Martínez

- ♦ Physiotherapist in Pediatrics, Early Care and Dry Needling in Pain Syndrome
- ♦ Respiratory Physiotherapist in SISU Andalusian Association in Palliative Care
- ♦ Pediatric Respiratory Physiotherapist at New Health Foundation
- ♦ Physiotherapist at the La Cruz Azul Association
- ♦ Physiotherapist in Physiotherapy Alejandro Vallejo
- ♦ Physiotherapist in Zona Sportiva Empresarial
- ♦ Physiotherapist in the Hockey Championship at FC Barcelona
- ♦ Physiotherapist in Fisioterapia Alcha
- ♦ Health Consultant at Solutia Global Health Solutions, SL
- ♦ Physiotherapist from the University of Seville
- ♦ Master's Degree in New Trends in Health Sciences, Physiotherapy, University of Seville, Spain

- ♦ Master's Degree in Advanced Manual Physical Therapy and Therapeutic Exercise by the Complutense University of Madrid
- ♦ Expert in Respiratory Physiotherapy in the Adult and Pediatric Patient by the European University of Madrid
- ♦ General Advisor Spanish General Council of Physiotherapists' Associations in the Therapeutic Exercise Update Training Program
- ♦ Therapeutic Exercise Program for Fragile People at the College of Physiotherapists of Andalusia
- ♦ Program of Dry Needling in Myofascial Pain Syndrome, Physiotherapy by Rey Juan Carlos University

Ms. María del Rocío Arjona Vegas

- ♦ Speech Therapist Expert in Speech Therapy Intervention for Brain Damage
- ♦ Speech therapist at the Hospital San Juan de Dios. Sevilla, España
- ♦ Speech therapist at INEUROSCA
- ♦ Speech therapist at Casaverde Hospital
- ♦ Diploma in Speech Therapy from the University of Malaga
- ♦ Program of Specialization in Speech Therapy Intervention in Cerebral Damage by the Official College of Speech Therapists of Andalusia
- ♦ Specialization Program in Autism Spectrum Disorder by the Official College of Speech Therapists of Andalusia

Mr. José Antonio Pérez Miralles

- ♦ Physiotherapist at Nueva Opción, Asociación de Daño Cerebral Adquirido. Valencia, Spain
- ♦ Physician associated with the Faculty of Physiotherapy at the University of Valencia
- ♦ Diploma in Physiotherapy from the University of Valencia
- ♦ Specialist in Neurological Physiotherapy

Mr. Álvaro Entrena Casas

- ♦ Physiotherapist at Neurons clinic
- ♦ Physiotherapist at Neuron Clinic
- ♦ Physiotherapist at ICTIA: Specialized Rehabilitation Unit for Neurological Impairment of ASPAYM Castilla y León
- ♦ Physiotherapist Expert in Neurorehabilitation
- ♦ Degree in Physiotherapy from the University of Jaén
- ♦ Master's Degree in Physiotherapy in Neurology from the University Pablo de Olavide
- ♦ Diploma in Respiratory Physiotherapy by the Catholic University of Ávila

Ms. Julia Campos Martínez

- ♦ Physiotherapist Expert in Neurophysiotherapy
- ♦ Physiotherapist at Hospital Vithas Almeria
- ♦ Neurophysiotherapist in Neurodem Clinic
- ♦ Physiotherapist at the Saavedra Physiotherapy Clinic
- ♦ Diploma in Physiotherapy from the University of Almeria
- ♦ Master's Degree in Neurophysiotherapy
- ♦ Program in Functional Neuropsychology
- ♦ Program in Joint Contention Techniques and Neuromuscular Taping, Physiotherapy and Traumatology
- ♦ Program in Diagnosis and Assessment in Physical Therapy and International Classification of Dysfunction

Ms. María Fernández Muñoz

- ♦ Physiotherapist in AFAD Molina de Aragon
- ♦ Physiotherapist at the Santa Ana Residence. Madrid
- ♦ Physiotherapist at Las Sabinas Residence. Spain

- ♦ Physiotherapist at La Solana Residential Center. Madrid
- ♦ Geriatric Physical Therapist
- ♦ Neurorehabilitation Expert
- ♦ Degree in Physiotherapy from the University of Alcalá, Spain
- ♦ Basal Stimulation program
- ♦ Program of Physiotherapy in Geriatrics: Psychomotor Re-education in the Frail Elderly

Ms. Lucrecia Mendoza González

- ♦ Specialist in Physical Medicine and Rehabilitation
- ♦ Master's Degree in Evaluative Medicine and Medical Expertise
- ♦ Specialist Degree in Child Disability
- ♦ Expert in Child Rehabilitation
- ♦ Expert in Musculoskeletal Ultrasound

Dr. Ana Carrasco Pérez

- ♦ Physical Therapist Specializing in Pediatric Neurophysiotherapy
- ♦ Pediatric Physical Therapist at La Paz Early Childhood Care Center
- ♦ Physiotherapist at the Crecer Brain Injury Rehabilitation Center
- ♦ Pediatric Physical Therapist in Wild Souls Association
- ♦ Dr. in Physiotherapy, Physical Exercise, Health and Dependence from the University of Murcia
- ♦ Graduate in Physiotherapy from the University of Seville
- ♦ Master's Degree in Child and Adult Neurological Patient Management from the University of Murcia.

Ms. Alba Alicia Soto Martínez

- ♦ Physical Therapist Specializing in Neurological Physical Therapy
- ♦ Neurological Physiotherapist in Atece Araba
- ♦ Neurophysiotherapist in Fisun
- ♦ Neurological Physiotherapist at Integra Cerebral Damage
- ♦ Physiotherapist in CEAM Generalitat Valenciana
- ♦ Diploma in Physiotherapy from CEU Cardenal Herrera University.
- ♦ Master's Degree in Neurological Physiotherapy from the University Pablo de Olavide

Ms. Sandra Agúndez Leroux

- ♦ Occupational Therapist at Neurointegra Neurological Rehabilitation Center
- ♦ Occupational Therapist at Ineuro SCA
- ♦ Occupational Therapist at Plena Inclusión
- ♦ Occupational Therapist Specializing in Neurotherapy
- ♦ Graduate in Occupational Therapy from the University of Extremadura
- ♦ Master's Degree in Research in Social and Health Sciences from the University of Extremadura
- ♦ Master's Degree in Occupational Neurotherapy from Pablo de Olavide University

Mr. Óscar Díez Meleiro

- ♦ Physiotherapist Expert in Neurorehabilitation
- ♦ Founding Partner and Clinical Co-Director of Neurem
- ♦ Expert Physiotherapist in Neurorehabilitation at the Alberto Guitián Neuronal Injury Therapeutic Center
- ♦ Physiotherapist Expert in Neurorehabilitation at the Multiple Sclerosis Association of Pontevedra, Vigo

- ♦ Physiotherapist at the Association of Families of Persons with Cerebral Palsy
- ♦ Graduate in Physiotherapy from the University of Vigo
- ♦ Degree in Psychology from the National University of Distance Education (UNED)
- ♦ Master's Degree in Acupuncture in Rehabilitation and Pain Treatment from the University of Santiago de Compostela
- ♦ Program in Intensive Therapies in Neurorehabilitation

Ms. Estefanía Abelleira Sánchez

- ♦ Physiotherapist Specializing in Neurorehabilitation
- ♦ Physiotherapist in private practice
- ♦ Physiotherapist at the Purísima Concepción Foundation of Hermanas Hospitalarias.
- ♦ Neurophysiotherapist at Vibra Therapeutic Center
- ♦ Physiotherapist at the Malagueña Association of Parents of Cerebral Palsy
- ♦ Physiotherapist in nursing homes
- ♦ Diploma in Physiotherapy from the University Ramon Llull
- ♦ Master's Degree in Neurophysiotherapy from the Universidad Pablo de Olavide
- ♦ Master's Degree in Nervous System Sciences, University of Almeria, Spain.

Mr. Óscar Arévalo Mora

- ♦ Geriatric and Child Physiotherapist
- ♦ Physiotherapist in Association with CAIT Montilla Bono
- ♦ Physiotherapist at the Center for Physiotherapy and Osteopathy Mágina
- ♦ Diploma in Physiotherapy from the University of Jaén.
- ♦ Expert in Manual Physiotherapy in the Management of Musculoskeletal Pain by the University of Jaén.

Mr. Antonio Francisco García Peñalver

- ◆ Specialist in Physical Therapy
- ◆ Physiotherapist at home. Motril, Spain
- ◆ Physiotherapist at the Physiotherapy Clinic Europa
- ◆ Master's Degree in Neurophysiotherapy from the Universidad Pablo de Olavide
- ◆ Diploma in Physiotherapy from the University of Granada
- ◆ Program in Perinatal Aquatic Activities
- ◆ Program in Mulligan Concept in Modules A and B
- ◆ Postgraduate in Neuromuscular Taping
- ◆ Physiotherapeutic Treatment in Temporomandibular Disjunctions

Ms. Beatriz Moral Saiz

- ◆ Child Physiotherapist of the Childhood and Adolescence Assistance Unit
- ◆ Child Physiotherapist of the Child and Adolescent Assistance Unit at the La Salle Functional Rehabilitation Institute
- ◆ Physiotherapist at Efisiopediatric
- ◆ Teacher of the program of Professional Development in Child Physiotherapy at the Center for University Studies La Salle
- ◆ Lecturer of the program of Expert in Child Physiotherapy at the University of Castilla-La Mancha
- ◆ Professor of the Master's Degree in Child Physiotherapy at CEU San Pablo University
- ◆ Physiotherapy Degree from the La Salle Higher Center for University Studies, attached to the Universidad Autonoma of Madrid
- ◆ Master's Degree in Physiotherapy of the Musculoskeletal System: Advanced Physiotherapy in the Treatment of Pain by the La Salle Higher Center for University Studies, attached to the Universidad Autonoma of Madrid

- ◆ Program of Updating in Physiotherapy in the COVID-19 Affectation
- ◆ Recognizing Early Motor Delays and the Importance of Tummy Time. Pathways.org
- ◆ Program on General Movements for the Early Detection of Neurological Pathologies
- ◆ Exoskeleton Handling-EKSO Bionics Level I and II
- ◆ Program on Therapeutic Exercises in Neurological Pathologies
- ◆ Autogenous Drainage program. Respiratory Physiotherapy Level I and II, Jean Chevalier's official program
- ◆ Sensorimotor Development as a Basis for Intervention in Pediatric Physical Therapy
- ◆ Respiratory Physiotherapy in Pediatrics
- ◆ Pediatric Physiotherapy Expert Program
- ◆ Program of Muscular Taping in Pediatrics
- ◆ Program Introduction to the Bobath Concept for Children
- ◆ Basic Introduction to Vojta Therapy Program
- ◆ Introduction to the Bobath Concept. Normal Movement
- ◆ Basic and Advanced Balance and Vestibular Rehabilitation Program
- ◆ Program of Continuing Education in Manual Physical Therapy of Myofascial Pain Syndrome
- ◆ Instructor and Coordinator of Free Time at the Fernando Soto Campos School. Castilla y León
- ◆ Member of: Spanish Society of Physiotherapy in Pediatrics
The European Academy for Childhood Disability, Asociación Convives con Espasticidad as Physiotherapist, Physiotherapy Volunteer with Children with Spatial Needs at the Yayasan Widya Guna Center. Bali, Physiotherapy Volunteering with Children with Spatial Needs at the Hospital Catholique Notre Dame de la Santé Servantes de Marie

Mr Álvaro Garrido Gálvez

- ◆ Occupational Therapist
- ◆ Occupational Therapist Beato Fray Leopoldo Residence

06

Educational Plan

This curriculum has been designed by a team of professionals knowledgeable about the latest advances in Rehabilitation Medicine in Acquired Brain Injury Management, who, aware of the relevance of the current relevance of this discipline, offer students the most cutting-edge content. Thus, everything the physician studies in this program will have an immediate application in his or her real work environment.





“

This Hybrid Professional Master's Degree in Rehabilitation Medicine in Acquired Brain Injury Management contains the most complete and updated scientific program in the market. on the market"

Module 1. Neuroanatomy and Neurophysiology

- 1.1. Anatomy
 - 1.1.1. Introduction to Structural Anatomy
 - 1.1.2. Introduction to Functional Anatomy
 - 1.1.3. Spinal Cord
 - 1.1.4. Brainstem
 - 1.1.5. Frontal
 - 1.1.6. Parietal
 - 1.1.7. Temporal
 - 1.1.8. Occipital
 - 1.1.9. Cerebellum
 - 1.1.10. Basal Ganglia
- 1.2. Physiology
 - 1.2.1. Neuroplasticity
 - 1.2.2. Muscle Tone
- 1.3. Motor Control
 - 1.3.1. Motor Behavior
 - 1.3.2. Motor Control

Module 2. ABI

- 2.1 Defining ABI
 - 2.1.1. ABI in Adults
 - 2.1.2. ABI in Childhood
 - 2.1.3. ABI in Elderly People
- 2.2. Functional Alterations
 - 2.2.1. Tone Alterations
 - 2.2.2. Hemineglect
 - 2.2.3. Pusher Syndrome
 - 2.2.4. Cerebellar Syndrome vs. Basal Ganglia Injury
 - 2.2.5. Alien Hand Syndrome
 - 2.2.6. Apraxia

Module 3. Assessment of a Patient with ABI

- 3.1. Medical History
- 3.2. Neuroimaging
 - 3.2.1. Structural
 - 3.2.2. Functional Criteria
- 3.3. Neurological Examination
 - 3.3.1. Cranial Nerves
 - 3.3.2. Pathological Reflexes
 - 3.3.3. Muscular
 - 3.3.3.1. Osteotendinous Reflexes
 - 3.3.3.2. Tone
 - 3.3.3.3. Strength
 - 3.3.4. Sensitivity
 - 3.3.4.1. Sensitivity
 - 3.3.4.2. Gnosis
 - 3.3.5. Coordination
 - 3.3.6. Balance
 - 3.3.7. March
 - 3.3.8. Manipulation
- 3.4. Neurological Assessment Scales
- 3.5. Writing the Report
 - 3.5.1. Writing a Physiotherapy Report
 - 3.5.2. Interpretation of Medical Information

Module 4. Therapeutic Approaches to ABI Patients

- 4.1. Physiotherapy
 - 4.1.1. Ease of Movement
 - 4.1.2. Neurodynamics
 - 4.1.3. Mirror Therapy
 - 4.1.4. Approach in Context
 - 4.1.5. Approach Oriented to the Task
 - 4.1.6. Intensive Treatment
 - 4.1.7. Constraint Induced Movement Therapy

- 4.1.8. Dry Needling for Spasticity
- 4.1.9. Therapeutic Exercise
- 4.1.10. Hydrotherapy
- 4.1.11. Electrotherapy
- 4.1.12. Robotics and Virtual Reality
- 4.2. Equipment
 - 4.2.1. Work Models
 - 4.2.2. Medicine
 - 4.2.2.1. Pharmacology
 - 4.2.2.2. Botulinum toxin
 - 4.2.3. Speech Therapy
 - 4.2.3.1. Communication Disorders
 - 4.2.3.2. Swallowing Disorders
 - 4.2.4. Occupational Therapy
 - 4.2.4.1. Autonomy
 - 4.2.4.2. Occupation
 - 4.2.5. Cognitive Deficit Implications on Movement
 - 4.2.6. Neuropsychology.
 - 4.2.6.1. Cognitive Domains
 - 4.2.6.2. Behavioral Disorders
 - 4.2.6.3. Psychological Care for Patients and Their Family
- 4.3. Orthopedics
 - 4.3.1. Orthotics and Support Products
 - 4.3.2. Low-Cost Material
- 4.4. Acute, Subacute and Chronic Phases in ABI
 - 4.4.1. Acute Phase
 - 4.4.2. Subacute Phase
 - 4.4.3. Chronic Phase of ABI

Module 5. Complications in Patients with ABI

- 5.1. Pain
 - 5.1.1. Comprehensive Pain Assessment
 - 5.1.2. Painful Shoulder
 - 5.1.3. Neuropathic Pain
- 5.2. Respiratory System.
 - 5.2.1. Associated Respiratory Complications
 - 5.2.2. Respiratory Physiotherapy
- 5.3. Epilepsy
 - 5.3.1. Injury Prevention
 - 5.3.2. Injury Recovery
- 5.4. Musculoskeletal Complications
 - 5.4.1. Comprehensive Assessment
 - 5.4.2. Physiotherapy Applied to These Complications
 - 5.4.3. Monitoring Injuries
- 5.5. Complications of Spinal Cord Injury
 - 5.5.1. Characteristics of Such Complications
 - 5.5.2. Physiotherapy Approach

Module 6. ABI in Childhood

- 6.1. Normative Neurodevelopment
 - 6.1.1. Features
 - 6.1.2. Aspects to take into account
- 6.2. Pediatric Examination in Physiotherapy
 - 6.2.1. Exploration
 - 6.2.2. Neurological Assessment Scales

- 6.3. Intervention
 - 6.3.1. Physiotherapy
 - 6.3.2. Rest of the Team
 - 6.3.2.1. Medicine
 - 6.3.2.2. Speech Therapy
 - 6.3.2.3. Occupational Therapy
 - 6.3.2.4. Neuropsychology
 - 6.3.2.5. Educational Team

Module 7. ABI and Altered States of Consciousness

- 7.1. What is an Altered State of Consciousness?
 - 7.1.1. Arousal
 - 7.1.2. Awareness
 - 7.1.3. Neuroanatomy
 - 7.1.4. Neurophysiology
 - 7.1.5. Neuroplasticity
 - 7.1.6. Prognosis
- 7.2. Assessment
 - 7.2.1. Physical Examination
 - 7.2.2. Neurological Assessment Scales
 - 7.2.3. Pain
- 7.3. Intervention
 - 7.3.1. Physiotherapy
 - 7.3.1.1. Stimulation
 - 7.3.1.2. Movement
 - 7.3.1.3. Environment



Module 8. ABI in Geriatrics

- 8.1. Distinguishing Features of ABI in Geriatrics
 - 8.1.1. Pluripathology
 - 8.1.1.1. Advantages and Disadvantages Associated with Age
 - 8.1.2. Physiotherapeutic Treatments
 - 8.1.2.1. The Importance of Setting Team Objectives
- 8.2. Institutionalization vs. Usual Housing
 - 8.2.1. Adaptation to Surroundings
 - 8.2.2. The Role of the Family
 - 8.2.3. Legal Guardians
 - 8.2.4. Technical Aids

“Enroll now and advance in your field of work with a comprehensive program that will allow you to put into practice everything you have learned”



07

Clinical Internship

After completing the online training period, the program includes a practical training period in a reference clinical center. The student will have at their disposal the support of a tutor who will accompany them during the whole process, both in the preparation and in the development of the clinical practice.





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Do your clinical internship in one of the most prestigious international clinical centers"

The Internship Program's Internship Program consists of a 3-week practical stay in a Reference: center, from Monday to Friday, with 8 consecutive hours of practical training with an assistant specialist. This stay will allow you to student to see real patients alongside a team of professionals of reference in the area of Rehabilitation Medicine in Acquired Brain Injury Management, applying the most innovative diagnostic procedures for each case.

In this training proposal, Update completely practical nature, the activities are aimed at developing and perfecting the competencies necessary for the provision of health care in areas and conditions that require a high level of qualification, and which are oriented towards specific training for the exercise of the activity, in a safe environment for the patient and with high professional performance.

The practical part will be performed with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other training partners that facilitate teamwork and multidisciplinary integration as transversal competencies for the praxis of Rehabilitation Medicine (learning to be and learning to relate).





The procedures described below will form the basis of the practical part of the training, and their completion is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:

Module	Practical Activity
Acquired Brain Injury Diagnosis	Treating patients with ischemia, paying attention to those parts of the brain that are affected
	Receiving patients with TBI, analyzing the contusions and possible appearance of cerebral edema to assess the severity of the damage
	Address brain tumors that may lead to Acquired Brain Damage based on cancer Stage.
	Evaluate the patient's motor control by means of specific techniques of Rehabilitation Medicine
Approach to the problems derived from Acquired Brain Injury	Analyze the possible occurrence of communication difficulties such as aphasia or alexia, as well as speech articulation disorders
	Address hemiplegias and hemiparesis that may result from ACD
	To cover the mental health sphere in the patient with ACD, with special interest in emotional instability, loss of control or depression
	Attend to difficulties arising in the visual capacity such as hemianopsia or diplopia, as well as olfactory difficulties such as hyposmia or auditory difficulties such as fractures of the temporal bone scale
Communication and expectations of the ACD patient	Communicate with the ACD patient by addressing acceptance of the disability as well as ways to find a better quality of life in their home environment
	Advise and orient family members and people affected by ACD on the complications and risks involved
	Work in conjunction with other clinical areas such as physiotherapy or speech therapy in search of a comprehensive recovery
Assessment and intervention techniques in the patient with ACD	Perform and interpret neuroimaging studies
	Perform neurological examination
	Use the assessment scales to later treat the patient in a specific way according to his functional status
	Perform valuation reports
	Treat in acute, subacute and chronic phase in ACD
Addressing complications and DCA in altered states of consciousness	Perform a comprehensive pain assessment
	Recognize and treat associated respiratory complications
	Diagnosing and treating epilepsy
	Recognize and treat musculoskeletal complications, as well as those of spinal cord injury and altered states of consciousness
	Apply the appropriate assessment methods in special cases of ACD, indicating, when necessary, physiotherapy and other multidisciplinary approaches

Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this educational entity undertakes to take out civil liability insurance to cover any eventuality that may arise during the stay at the internship center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. In this way, the professional will not have to worry in case he/she has to face an unexpected situation and will be covered until the end of the practical program at the center.



General Conditions for Practical Training

The general terms and conditions of the internship program agreement shall be as follows:

1. TUTOR: During the Hybrid Professional Master's Degree, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

2. DURATION: The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

3. ABSENCE: If the students does not show up on the start date of the Hybrid Professional Master's Degree, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

4. CERTIFICATION: Professionals who pass the Hybrid Professional Master's Degree will receive a certificate accrediting their stay at the center.

5. EMPLOYMENT RELATIONSHIP: the Hybrid Professional Master's Degree shall not constitute an employment relationship of any kind.

6. PRIOR EDUCATION: Some centers may require a certificate of prior education for the Hybrid Professional Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

7. DOS NOT INCLUDE: The Hybrid Professional Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed

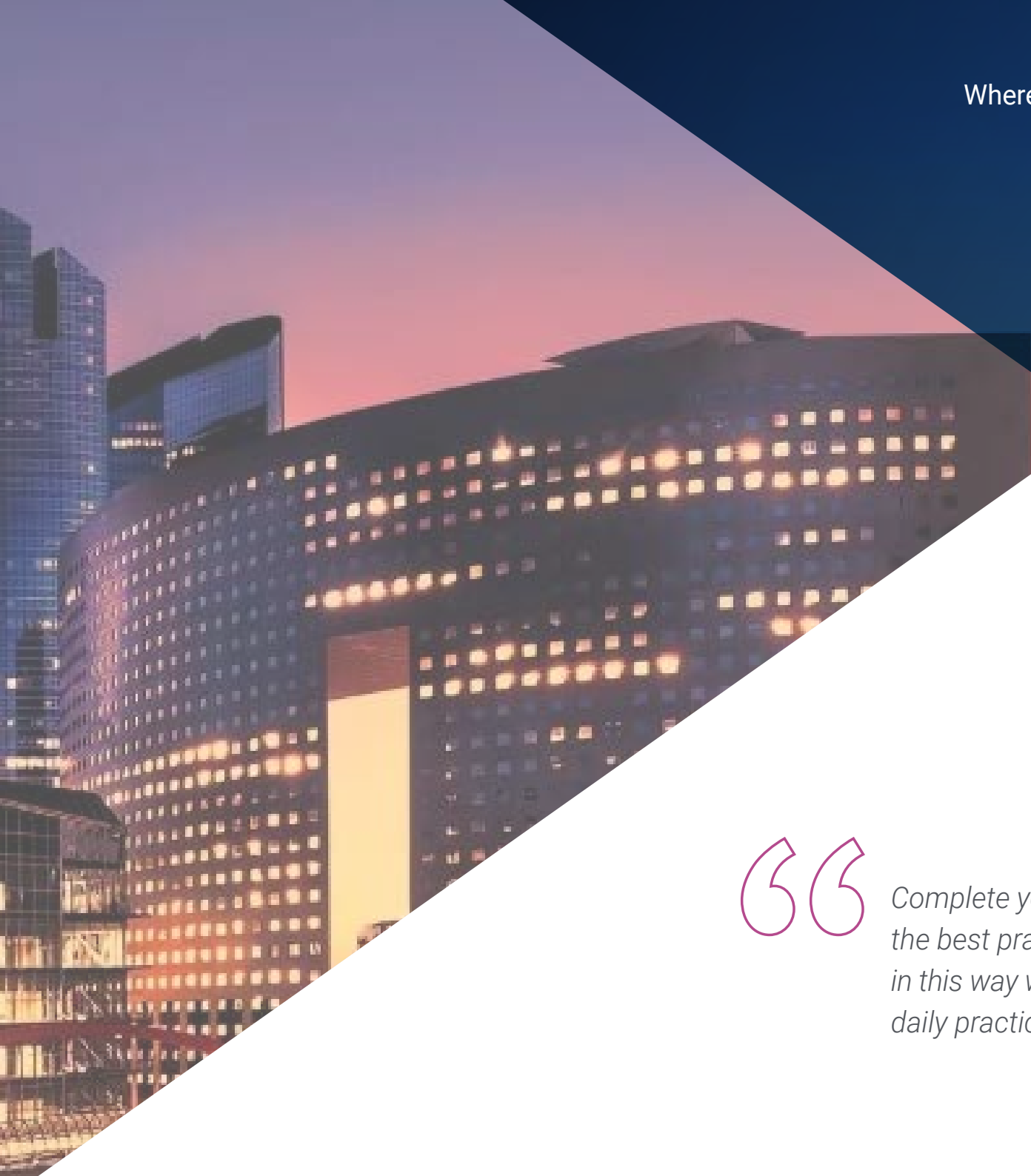
However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

08

Where Can I Do the Clinical Internship?

This Hybrid Professional Master's Degree program includes in its itinerary a practical stay in a prestigious hospital center where the student will put into practice everything learned in Rehabilitation Medicine in the approach to acquired brain injury. In this sense, and to bring this program to more professionals, TECH offers students the opportunity to take it in different centers around the country. In this way, this institution strengthens its commitment to quality and affordable education for all.





“

Complete your theoretical education with the best practical stay in the market. Only in this way will you achieve success in your daily practice"



The student will be able to take the practical part of this Hybrid Professional Master's Degree in the following centers:



Medicine

ASPAYM Principado de Asturias

Country	City
Spain	Asturias

Address: Av. Roma, 4, 33011 Oviedo, Asturias

National federation dedicated to the physical and mental promotion of patients.

Related internship programs:

- Neurological Physiotherapy
- Neurodegenerative Diseases



Medicine

Hospital Hestia Madrid

Country	City
Spain	Madrid

Address: Carr. Vía de Servicio, km 16, 28049 Madrid

Multidisciplinary clinical center for social-health care

Related internship programs:

- Rehabilitation Medicine in Acquired Brain Injury Management



Medicine

Hospital HM Modelo

Country	City
Spain	La Coruña

Address: Rúa Virrey Osorio, 30, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

Hospital Maternidad HM Belén

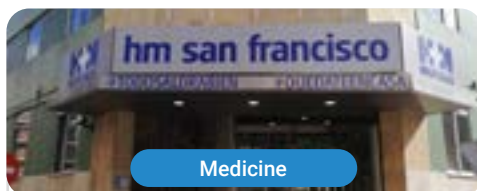
Country	City
Spain	La Coruña

Address: R. Filantropía, 3, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Update in Assisted Reproduction
- Hospitals and Health Services Management



Medicine

Hospital HM San Francisco

Country	City
Spain	León

Address: C. Marqueses de San Isidro, 11, 24004, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Update in Anesthesiology and Resuscitation
- Trauma Nursing



Medicine

Hospital HM Regla

Country	City
Spain	León

Address: Calle Cardenal Landázuri, 2, 24003, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Update on Psychiatric Treatment in Minor Patients



Medicine

Hospital HM Nou Delfos

Country	City
Spain	Barcelona

Address: Avinguda de Vallcarca, 151, 08023 Barcelona

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Aesthetic Medicine
- Clinical Nutrition in Medicine



Medicine

Hospital HM Madrid

Country	City
Spain	Madrid

Address: Pl. del Conde del Valle de Súchil, 16, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Palliative Care
- Anaesthesiology and Resuscitation



Medicine

Hospital HM Torrelodones

Country: Spain
City: Madrid

Address: Av. Castillo Olivares, s/n, 28250, Torrelodones, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

Hospital HM Sanchinarro

Country: Spain
City: Madrid

Address: Calle de Oña, 10, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

Hospital HM Puerta del Sur

Country: Spain
City: Madrid

Address: Av. Carlos V, 70, 28938, Móstoles, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Palliative Care
- Clinical Ophthalmology



Medicine

Policlínico HM Las Tablas

Country: Spain
City: Madrid

Address: C. de la Sierra de Atapuerca, 5, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Trauma Nursing
- Diagnosis in Physiotherapy



Medicine

Policlínico HM Moraleja

Country: Spain
City: Madrid

Address: P.º de Alcobendas, 10, 28109, Alcobendas, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Rehabilitation Medicine in Acquired Brain Injury Management



Medicine

Policlínico HM Virgen del Val

Country: Spain
City: Madrid

Address: Calle de Zaragoza, 6, 28804, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Diagnosis in Physiotherapy
- Physiotherapy in Early Care



Medicine

Policlínico HM Imi Toledo

Country: Spain
City: Toledo

Address: Av. de Irlanda, 21, 45005, Toledo

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation



Medicine

Nueva Opción

Country: Spain
City: Valencia

Address: Carrer de Greses, 21, bajo, 46020 Valencia

Association dedicated to the integral treatment of Acquired Brain Injury.

Related internship programs:

- Physiotherapy in the Approach to Acquired Brain Injury

09

Methodology

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

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



“

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.



10 Certificate

The Professional Master's Degree in Rehabilitation Medicine in Acquired Brain Injury Management guarantees students, in addition to the most rigorous and up-to-date education, access to a Professional Master's Hybrid: issued by TECH Global University.



“

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

This program will allow you to obtain your **Hybrid Professional Master's Degree diploma in Acquired Brain Injury Management** 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** title 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.

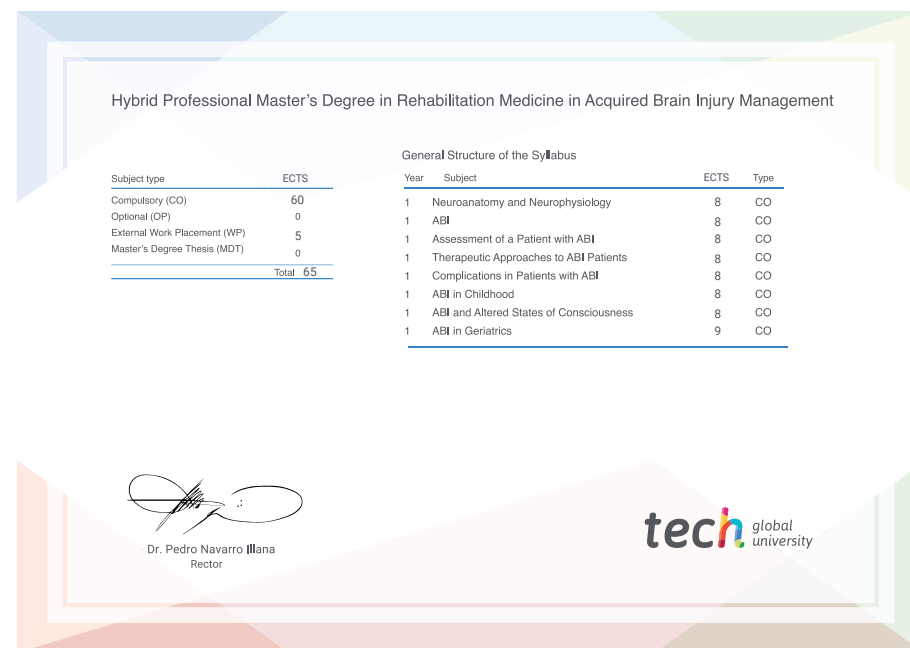
Title: **Hybrid Professional Master's Degree in Acquired Brain Injury Management**

Course Modality: **Hybrid (Online + Clinical Internship)**

Duration: **12 months**

Certificate: **TECH Global University**

Recognition: **60 + 5 ECTS Credits**



*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.



Hybrid Professional Master's Degree
Rehabilitation Medicine in
Acquired Brain Injury Management

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 créditos ECTS

Hybrid Professional Master's Degree

Rehabilitation Medicine in Acquired Brain Injury Management

