

Internship Program

Dementias



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Dementias

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01 Introduction

Official data from the World Health Organization reveal that only 4% of patients with some neurodegenerative process are cared for properly. This figure shows the need to provide the professional with updated knowledge and skills to detect or differentiate dementias. Under the premise of keeping the physician up to date on the most innovative diagnostic and therapeutic procedures in this area, this academic program was created. Through it, you will have access to a first class health environment, with state-of-the-art technologies and the best experts. In a 100% practical and face-to-face way, you will learn the latest trends in a medical area on which the quality of life of many patients and their families depends in just 3 weeks.



Get up to date on the latest pharmacological approach offered by the pharmaceutical industry against Dementias during this Practical Training"





Today, science is searching for and exploiting a wide range of pharmacological treatments against neurodegenerative diseases such as Alzheimer's disease. Currently, drug laboratories are making progress in the production of cholinesterase inhibitors to activate neurotransmitters involved in memory and the sense of reality. Also, different exercises have been studied to stimulate, train and rehabilitate cognitive activity. These and many other new developments make it necessary for the physician to be fully updated in the discipline. Thus, TECH has identified this problem and, to solve it, has designed a new study modality.

This way, this Practical Training in Dementias explores the main trends in neuropsychological evaluation for dementias. During 3 weeks, the graduate will exchange with leading experts on diagnostic techniques based on genetic laboratory tests and neuroimaging protocols. At the same time, they will directly address, in real patients, the latest pharmacological and non-pharmacological trends for the treatment and follow-up of patients with disorders such as cognitive vascular impairment or Lewy body disease.

This degree differs from others on the market in that it consists of 120 hours of classroom learning in a leading institution in the health sector. This practical and intensive stay will provide the doctor with an ideal setting to acquire new knowledge and apply it directly to real patients. During the internship, they will also be able to dialogue with the best specialists and, at the same time, they will have an assistant tutor who will supervise all the progress necessary to achieve their educational objectives. In addition, through TECH, you will be able to choose prestigious institutions, located in different countries or continents.

02

Why Study an Internship Program?

Currently, few educational programs offer medical professionals the practical mastery of the latest trends in the diagnosis and therapeutics of neurodegenerative disorders. To distinguish itself in the academic landscape, TECH has designed this Practical Training that, throughout 3 weeks of intensive learning, will provide the specialist with an updated vision regarding the care of diseases such as Alzheimer's or cognitive vascular impairment. The study process will take place in a 100% practical and face-to-face way, in a prestigious institution that stands out for the use of the latest technologies and the collaboration of great experts.



TECH offers you the possibility to take a 100% practical and specialized program in the diagnosis and treatment of dementia, in a real medical scenario of maximum demand"

1. Update from the latest technology available

Neuroimaging technologies and other diagnostic procedures to determine the presence of dementia in a patient are advancing rapidly. Therefore, it is imperative to apply and manage first-hand the most comprehensive tools in this field of care. With TECH, the physician will be able to access these resources and apply them for the benefit of patients with different pathologies from the most specialized centers.

2. Gain in-depth knowledge from the experience of top specialists

In this study program, TECH wants to ensure its graduates the maximum mastery of the latest care trends for the care of patients with neurovegetative disorders. To this end, it will provide them with a face-to-face and intensive stay with the best experts in this field. In addition, it has created the figure of the adjunct tutor, responsible for coordinating the learning and development of new skills in just 3 weeks.

3. Enter first-class clinical environments

TECH maintains close ties with leading centers all over the world. In particular, it has coordinated this Internship Program with several prestigious institutions dedicated to the diagnosis and treatment of Dementias. These centers will host the doctors and provide them with access to the most innovative technologies and highly qualified healthcare personnel that will foster the development of complex care skills.



4. Putting the acquired knowledge into daily practice from the very first moment

Although the educational environment has many programs related to Dementias, none of them emphasizes the updating of the doctor in a 100% practical way. Thus, TECH stands out from its competitors by providing a unique educational program, where the direct approach of real patients is a priority from the very first moment.

5. Expand the boundaries of knowledge

TECH has a wide network of agreements and contacts that help you choose, for this Internship Program, the most competitive institutions on the international scene. This way, the doctor will complete this first class face-to-face stay in centers located in different latitudes. This way, and selecting the location of their choice, they will be able to master the main advances of the specialty under international criteria.

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

03 Objectives

This Internship Program in Dementia aims to provide the physician with the most up-to-date knowledge on diagnostic and therapeutic procedures in an exclusively practical way. To achieve this goal, TECH has designed a fully immersive stay through which specialists will become directly familiar with different pathologies.



General Objectives

- Identify risk factors, the possibility of prevention, diagnosis and treatment of dementia
- Explore different clinical presentations of dementia through clinical, motor, cognitive, dysautonomia and neuropsychiatric symptoms
- Master the different imaging techniques that are used in the evaluation of patients with cognitive impairment, either by structural, functional or perfusion studies and diffusion
- Recognize the syndromic categories of rapidly progressive dementia, the most prevalent diseases in each of these categories and the diagnostic algorithm to follow





Specific Objectives

- ♦ Appropriate use of diagnostic biomarkers
- ♦ Diagnose Cognitive Vascular Impairment (VaD) from its clinical phenotypes, risk factors, as well as prevention against vascular diseases
- ♦ Understand the value of structural Magnetic Resonance Imaging (MRI) in the diagnostic process of dementias
- ♦ Apply different neuropsychological assessment tools in different cognitive areas (attention, memory, praxis, visuospatial functions, language and executive functions), as well as the main tests to assess the functional and behavioral area in dementias
- ♦ Identify the cognitive patterns of dementias (cortical vs. subcortical and frontotemporal vs. parieto-occipital and frontotemporal vs. parieto-occipital), as well as cognitive rehabilitation strategies
- ♦ Perform and read PET and SPECT molecular imaging in dementia
- ♦ Apply molecular neuroimaging in the diagnosis of Alzheimer's disease and other neurodegenerative conditions associated with dementia
- ♦ Identify clinical recommendations for using neuroimaging to support the diagnosis of neurodegenerative disorders with dementia
- ♦ Develop diagnostic algorithms in patients with mild cognitive impairment and in patients with dementia
- ♦ Relate the different imaging markers in neurodegenerative diseases: qualitative grading of medial temporal atrophy, frontal and parietal atrophy
- ♦ Master global and hippocampal volumetry techniques
- ♦ Know the MRI semiology of vascular dementia and the main neurodegenerative diseases
- ♦ Extract all the relevant information from a neuropathological report in a case of dementia
- ♦ Evaluate the potential relevance of available genetic and clinical data to the patient's family members



With this degree you will develop broad competencies for the direct handling of diagnostic neuroimaging tools such as CT scans or MRIs"

04

Educational Plan

This Internship Program in Dementias consists of a practical stay in a prestigious center, lasting 3 weeks, from Monday to Friday with 8 consecutive hours of work. During this period of time, the physician will have the personalized guidance of an associate specialist. Thus, they will acquire a dynamic mastery of the most sought-after skills for the diagnosis and treatment of neurodegenerative pathologies.

This academic proposal, completely practical, represents a unique learning opportunity. Thanks to them, the graduates will delve into the most updated strategies of approach, treatment and follow-up for Lewy body disease, Alzheimer's disease, among others. Also, they will explore the impact of genetic testing for the scope of these disorders for the patient and their families.

The practical teaching 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 fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for the practice of medicine (learning to be and learning to relate).





The procedures described below will form the basis of the practical part of the internship, and their implementation 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
Trends in neuropsychological assessment of dementias	Develop neurological examinations to assess the state of cognitive areas related to language, executive and visuospatial functions
	Apply neuropsychological assessment tools for cognitive areas related to language, executive and visuospatial related to language, executive and visuospatial functions
	Perform memory, attention and praxis tests to assess functional and behavioral areas of dementia
	Identify neuropsychiatric symptoms associated with dementia through a detailed examination of pathologies such as depression and stress in patients
Genetic and laboratory diagnostic techniques and laboratory techniques for identification of dementia today	Screen for vitamin B12 deficiency through laboratory testing in patients with signs of dementia
	Evaluate underactive thyroid gland in potential patients with dementia
	Appropriate use of diagnostic biomarkers
	Develop genetic diagnostics and deploy decision-making algorithms based on clinical phenotypes
MRI and other protocols of neuroimaging in the detection of dementias	Using various PET and SPECT techniques in the differential diagnosis of neurodegenerative disorders
	Check for evidence of stroke, bleeding, tumor, or hydrocephalus by CT or MRI scans
	Detect patterns of brain activity or the deposition of amyloid protein in the brain in the brain by positron emission tomography
	Determine, by imaging markers, neurodegenerative diseases, such as qualitative gradation of medial temporal atrophy, frontal and parietal atrophy
Latest trends in the pharmacological	Indicate Occupational Therapy as a rehabilitation strategy against dementias
	Implementing cognitive stimulation, training and rehabilitation exercises to strengthen the autonomy of the patient with dementia
	Prescribe cholinesterase inhibitors to activate neurotransmitters involved in memory and sense of reality
	Assess the use of antipsychotics, antidepressants, anxiolytics, sedatives or neuroleptics in case of detection of dementia

05

Where Can I Do the Internship Program?

TECH is willing to broaden the academic horizons of health professionals, offering them a unique learning opportunity of its kind. Thus, it has selected a wide network of medical institutions, located in different latitudes, which will open their doors and help the specialist to get up to date on the latest trends in the management of Dementias.

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Apply the most important advances in the diagnostic and therapeutic field of Dementias, through the knowledge acquired in this on-site stay and with the analysis of real clinical cases”





The student will be able to do this program at the following centers:



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 HM Rosaleda

Country City
Spain La Coruña

Address: Rúa de Santiago León de Caracas,
1, 15701, Santiago de Compostela, A Coruña

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

Related internship programs:

- Hair Transplantation
- Orthodontics and Dentofacial Orthopedics



Medicine

Hospital HM La Esperanza

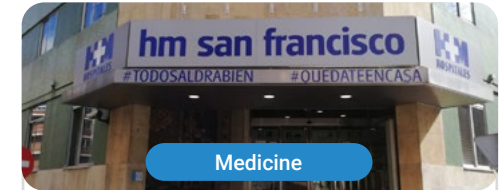
Country City
Spain La Coruña

Address: Av. das Burgas, 2, 15705, Santiago
de Compostela, A Coruña

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

Related internship programs:

- Oncology Nursing
- Clinical Ophthalmology



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
- Nursing in the Traumatology Department



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 Montepíncipe

Country City
Spain Madrid

Address: Av. de Montepíncipe, 25, 28660,
Boadilla del Monte, Madrid

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

Related internship programs:

- Palliative Care
- Aesthetic Medicine



Medicine

Hospital HM Torrelodones

Country City
Spain 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 City
Spain 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 Nuevo Belén

Country City
Spain Madrid

Address: Calle José Silva, 7, 28043, Madrid

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

Related internship programs:

- General and Digestive System Surgery
- Clinical Nutrition in Medicine



Medicine

Hospital HM Puerta del Sur

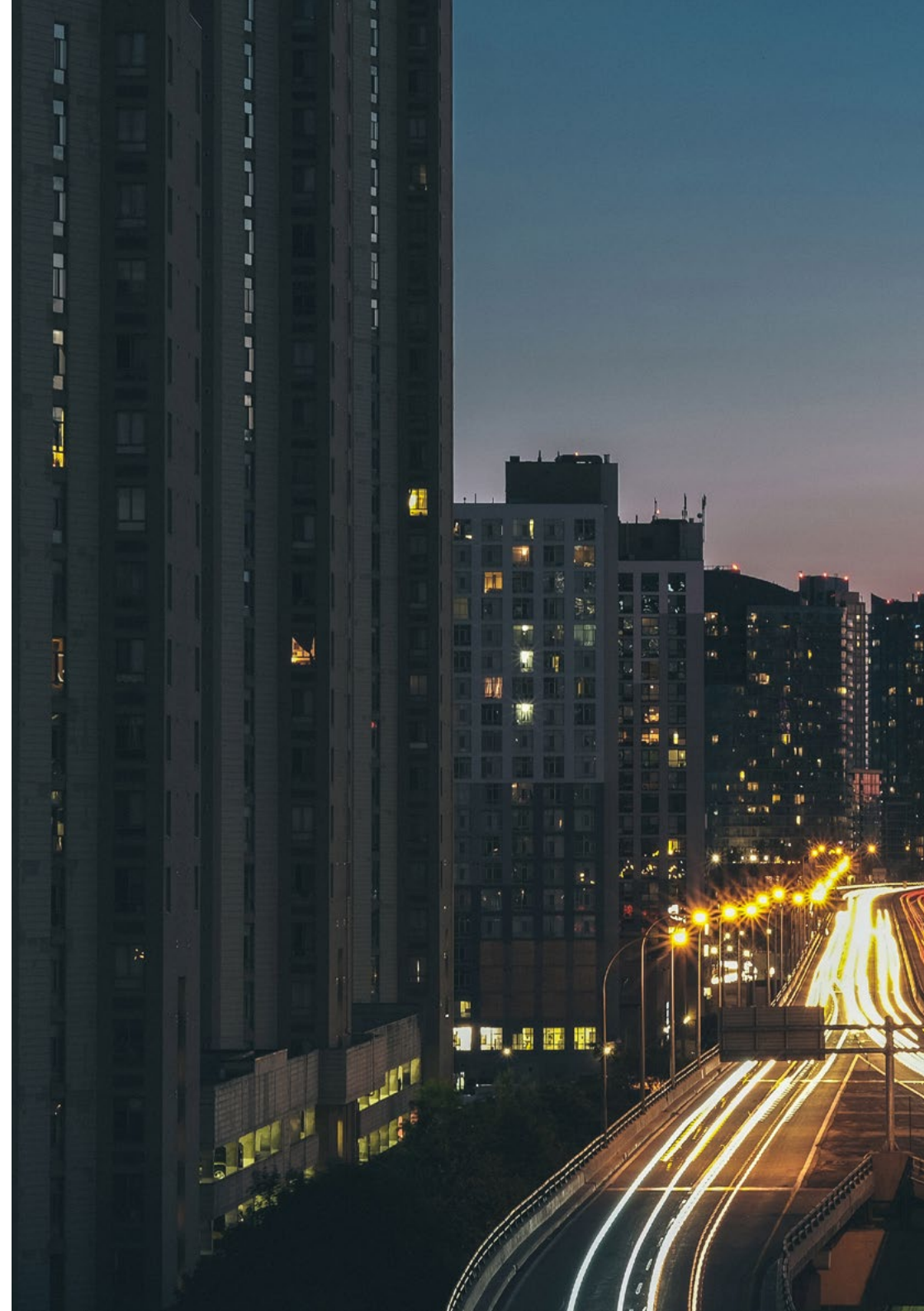
Country City
Spain Madrid

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 La Paloma

Country City
Spain Madrid

Address: Calle Hilados, 9, 28850,
Torrejón de Ardoz, Madrid

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

Related internship programs:

- Advanced Operating Room Nursing
- Orthodontics and Dentofacial Orthopedics



Medicine

Policlínico HM Sanchinarro

Country City
Spain Madrid

Address: Av. de Manoteras, 10,
28050, Madrid

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

Related internship programs:

- Gynecological Care for Midwives
- Nursing in the Digestive Tract Department



Medicine

Policlínico HM Virgen del Val

Country City
Spain 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

06

General Conditions

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 entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the internship program period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

1. TUTOR: During the Internship Program, 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 Internship Program, 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 Internship Program will receive a certificate accrediting their stay at the center.

5. EMPLOYMENT RELATIONSHIP: The Internship Program shall not constitute an employment relationship of any kind.

6. PRIOR EDUCATION: Some centers may require a certificate of prior education for the Internship Program. 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. DOES NOT INCLUDE: The Internship Program 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.

07 Certificate

This **Internship Program of Dementias** contains the most complete and up-to-date program in the professional and academic landscape.

After the student has passed the assessments, they will receive their corresponding Internship Program diploma issued by TECH Technological University via tracked delivery*.

The certificate issued by TECH will reflect the grade obtained in the test.

Title: **Internship Program in Dementias**

Duration: **3 weeks**

Attendance: **from Monday to Friday, 8 consecutive hour shifts**

Total Hours: **120 h. of professional practice**





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