Master's Degree

Neurology Nursing

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Master's Degree
Neurology Nursing

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Global University**
- Credits: **60 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: **www.techtitute.com/us/nursing/master-degree/master-neurology-nursing**

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01

Introduction

Neurological patient care is one of the most common types of care encountered by nurses in their daily practice, which makes a program like this essential for professionals in this area. This syllabus provides theoretical and practical knowledge on pathophysiology, medical/surgical care and training on nursing methodology for neurological patients. This specific care enhances the quality of the nursing professional's work and improves satisfaction in people requiring specialized care. Therefore, the highest quality and most professional care will always be offered. Accordingly, this Neurology Nursing program was designed to provide students with the latest advances and developments in the treatment and nursing care for the main neurological diseases.

You will learn about the specific care that neurological patients require, and recognize the most common complications, a vitally important issue for patients"

Neurological diseases have a broad impact on society. These diseases affect the entire population, regardless of age. Its consequences have a negative impact on the quality of life of the affected patients, preventing a high percentage of them from carrying out basic day-to-day activities, creating great dependence with the resulting cost, both in terms of healthcare and in terms of family and social care for the caregivers in charge of these patients (in Alzheimer's disease, 80% of the family members are cared for by relatives). They also have a major impact on mortality.

Stroke, for example, is the second leading cause of death globally and the first in women. Alzheimer's disease, among other dementias, has a prevalence of between 4% and 9%, reaching 50% in people over 90 years of age. Parkinson's disease, epilepsy, migraine, demyelinating and neuromuscular diseases also represent a serious social and health problem.

In addition, this Master's Degree will study the pathophysiology of the main neurological diseases from a nursing approach. Having nurses who are highly qualified in the management of patients with different neurological pathologies increases the quality of care and reduces complications. Knowing the specific care required by neurological patients and knowing how to recognize the most common complications is of paramount importance in these patients, as it will allow them to recover their autonomy as much as possible. In this regard, there are several scientific articles that show that having nurses who are experts in advanced practices such as sclerosis, movement disorders or headaches and migraines, provides significant benefits. It highlights the adherence to treatment and increased independence, which promotes patients' return to work and other daily activities.

This online Master's Degree is made up of 10 modules and more than 100 units designed by a group of nursing professionals with extensive experience in healthcare and teaching, who carry out their work in a highly complex hospital setting.

This **Master's Degree in Neurology Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- More than 100 practical case studies presented by experts in neurological nursing
- Graphic, schematic and practical contents, which are designed to provide essential scientific and assistance information for professional practice
- Latest developments in neurological nursing
- Practical exercises
- Theoretical lessons, questions to the experts and clinical cases for individual reflection
- Content that is accessible from any fixed or portable device with an Internet connection

Having highly qualified nursing staff increases the quality of care and reduces complications"

It has been proven that having nurses with expertise in advanced practice such as sclerosis, movement disorders or headaches and migraines has significant benefits for the patient, including encouraging them to continue with treatment and gaining increased independence"

Deepen your nursing knowledge and specialize in neurology service care with TECH.

In this Master's Degree, you will learn to apply the pathophysiology of the main neurological diseases from a nursing approach.

The program's teaching staff includes professionals from the sector who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to learn 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 professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

02

Objectives

The Master's Degree in Neurology Nursing is aimed at facilitating the performance of nurses dedicated to the treatment and care of neurological patients. In this field it is necessary to have a high level of competence and training to avoid possible complications and improve the level of self-care. This way, the nurse will be trained in the treatment required by patients in this area, with the utmost scientific rigor and professionalism, in order to achieve the following proposed objectives. This ensures greater satisfaction of future graduates on their way to achieving their professional goals.

The objective of this Master's Degree is to help you become a qualified nurse in the care of patients in the neurology service, and for this you have TECH's guarantee of quality"

General objectives

- Learn and integrate general nursing care in the main neurological pathologies
- Perform standardized care plans, acquiring knowledge on how to perform nursing assessments according to functional patterns and use NANDA-NIC-NOC nursing taxonomy for care planning and evaluation
- Acquire knowledge and fundamentals of the pathophysiology of cerebrovascular diseases, epilepsy, movement disorders, multiple sclerosis, dementia, headache, neuromuscular diseases, neurological oncology and CNS infectious diseases and integrate them into nursing practice
- Understand the necessary knowledge in pathophysiology of neurological diseases
- Acquire in-depth knowledge of the most up-to-date basic medical-surgical treatments
- Acquire in-depth knowledge of diagnostic taxonomy to formulate nursing diagnoses, outcome criteria and nursing interventions

Specific objectives

Module 1. CNS Anatomy CNS Infections and TBI

- Provide and expand basic knowledge in neuroanatomy
- Update knowledge of infectious diseases of the Nervous System
- Gain knowledge of cranioencephalic traumatism
- Develop in-depth knowledge of the specific nursing care in nervous system infectious diseases and cranioencephalic trauma
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 2. Cerebrovascular Diseases

- Contribute to and expand knowledge in cerebrovascular diseases
- Update knowledge on acute ischemic and hemorrhagic stroke
- Gain knowledge about the cerebral venous thrombosis and cerebrovascular syndromes
- Acquire in-depth knowledge of the specific nursing care of cerebrovascular diseases
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 3. Stroke Code and Stroke Hospital Care

- Gain in-depth knowledge of the Ictus Code and its activation
- Update and expand knowledge in acute stroke emergency care
- Update and broaden knowledge in stroke unit care
- Study protocolized procedures in the Stroke Unit
- Have strong knowledge of the specific nursing care needed in the Stroke Unit
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 4. Epilepsy

- Expand knowledge on the classification and etiopathogenesis of epilepsy
- Provide and expand knowledge in diagnostic tests
- Know, in depth, the specific nursing care involved in epilepsy
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 5. Mobility Disorders

- Know and broaden knowledge in etiopathogenesis of mobility disorders
- Expand knowledge in parkinsonisms
- Gain knowledge about dystonia, Tourette's syndrome and Huntington's disease
- Know the specific nursing care of mobility disorders diseases in depth
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 6. Multiple Sclerosis and Autoimmune CNS Diseases

- Expand knowledge on etiopathogenesis of multiple sclerosis
- Update knowledge of demyelinating diseases
- Gain knowledge about autoimmune diseases of the SNC
- Acquire in-depth knowledge of the specific nursing care of demyelinating diseases
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 7. Dementias and Cognitive Deterioration

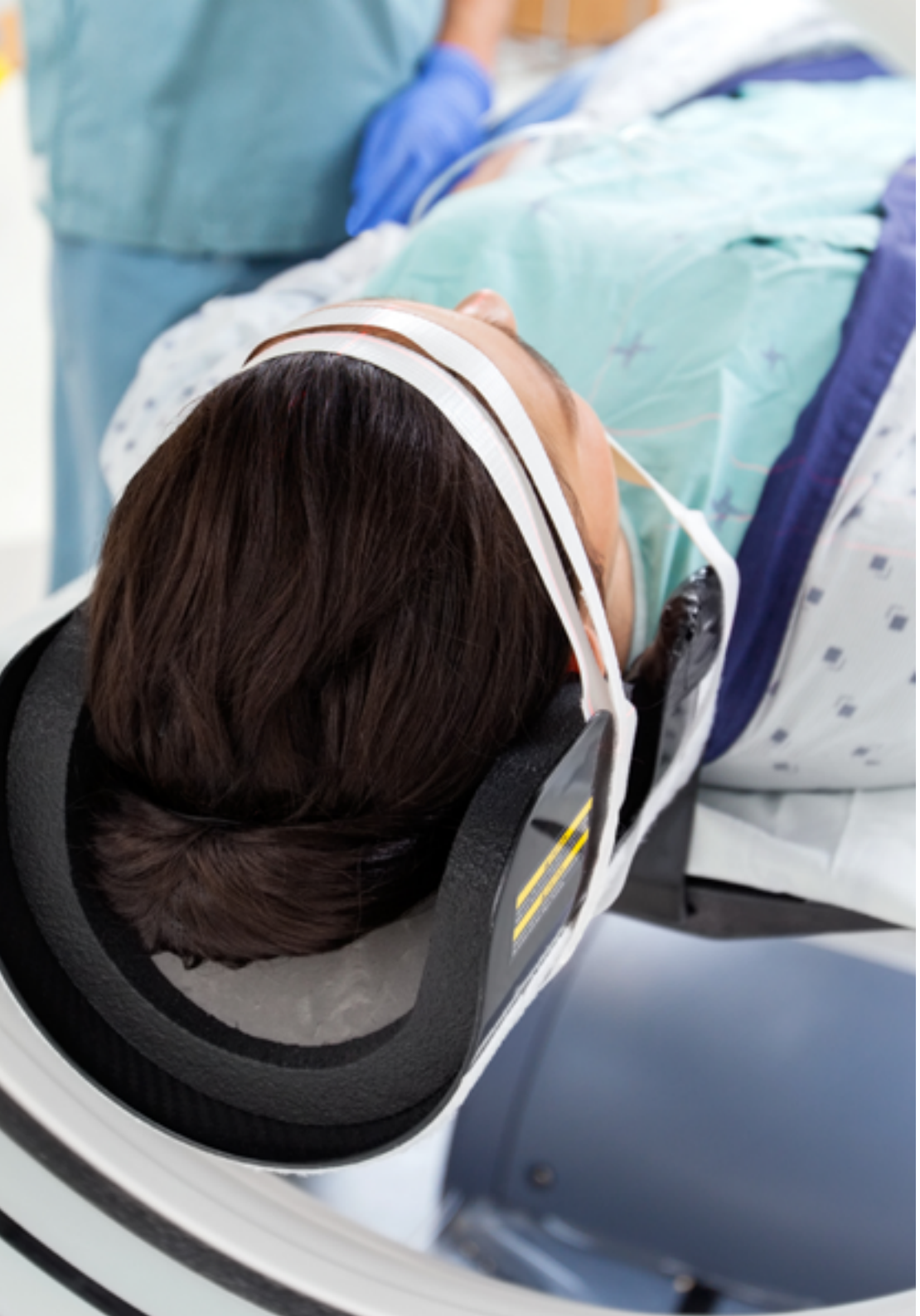
- Acquire and expand knowledge in etiopathogenesis dementias
- Update knowledge on Alzheimer's disease and other degenerative dementias
- Study neuropsychological screening and assessment tests
- Know, in depth, the specific nursing care involved in dementia
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 8. Headaches

- Acquire and expand knowledge in the etiopathogenesis of primary headaches
- Update knowledge in migraine and secondary headaches
- Acquire knowledge about trigeminal autonomic cephalalgias and painful cranial neuropathies
- Acquire in-depth knowledge of the specific nursing care needed in the headaches and migraines
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 9. Neuromuscular Diseases

- Acquire and expand knowledge in the etiopathogenesis of neuromuscular diseases
- Update knowledge in myopathies and dystrophies
- Gain knowledge about myasthenia and motor neuron diseases
- Acquire in-depth knowledge of specific nursing care in neuro-oncological diseases
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies



Module 10. Neurologic Oncology

- Learn about and expand knowledge of primary glial and non-glial brain tumors
- Update knowledge on brain metastasis and meningeal carcinomatosis
- Study neurological complications of chemotherapy, radiotherapy and immunology
- Acquire in-depth knowledge of specific nursing care in neuro-oncological diseases
- Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

You will expand your knowledge of neurological pathologies and develop the skills required for their specific care"

03

Skills

The structure of this Master's Degree has been designed in such a way that professionals will gain the fundamental knowledge to be able to respond to nursing care needs of neurological patients, by learning the best way to proceed in each case. All this thanks to a unique methodology, quality content and the support of the experts who have developed this syllabus. In this way, TECH guarantees students a quality program according to their expectations, giving them the opportunity to stand out in the nursing sector. They will, therefore, be qualified to perform the various functions related to this Master's Degree, together with the most innovative proposals in this field of action, leading them towards excellence. A series of aspects demanded by professionals in the sector, by patients and their relatives.

The skills you will acquire after completing this Master's Degree will guide you towards performing successful diagnoses based on the assessment of functional patterns"

General skills

- Possess and understand knowledge that provides a basis for responding to the nursing care needs of neurological patients
- Students should be able to apply the knowledge acquired and have problem-solving skills in hospital or outpatient settings
- Integrate knowledge and deal with the complexity of formulating nursing diagnoses based on assessment by functional patterns
- Plan their care and correctly assess effective compliance with care plans through nursing taxonomies of outcome criteria and nursing interventions
- Possess the learning skills that will enable them to foster user and family participation in their care program to achieve the best health outcomes

Specific skills

- Create a global and up-to-date vision of the exposed topics that will allow the student to acquire useful knowledge and at the same time, generate interest in expanding the information and discovering its application in their daily practice
- Understand the necessary knowledge in pathophysiology of neurological diseases
- Learn the symptomatology that appears throughout the disease process and anticipate possible complications that may occur
- Acquire in-depth knowledge of the most up-to-date basic medical-surgical treatments
- Acquire in-depth knowledge of diagnostic taxonomy to formulate nursing diagnoses, outcome criteria and nursing interventions

You will learn the symptomatology that appears throughout the process of neurodegenerative diseases and you will anticipate possible complications that may occur"

04

Course Management

In its maxim of offering an elite education for all, TECH counts on renowned professionals so that the student acquires extensive knowledge in the specialty of Neurology Nursing. For this reason, this Master's Degree has a highly qualified team with extensive experience in the sector, who will offer the best possible resources for students in the development of their skills during the course. In this way, the students have the guarantees they need to specialize in an environment that requires precision and patience, oriented to the well-being and improvement of the patient.

Learn from the best and acquire the knowledge and skills you need to act appropriately with each patient according to their condition"

Management

Mr. Cano Manchón, Antonio Rafael

- Nursing Supervisor of the Neurology-Neurosurgery- Stroke Unit of La Princesa University Hospital
- Associate Professor of the Faculty of Nursing at the Autonomous University of Madrid, belonging to the Faculty of Medicine
- Degree in Nursing

Professors

Ms. Belascoaín Gómez, María Rocío

- Nursing Assistant in the Neurology-Neurosurgery- Stroke Unit of La Princesa University Hospital
- Advanced Practice Nurse in Headache and Dementia Nursing Specialty Practice
- Degree in Nursing

Ms. Fernández Quiñones, Eva

- Nursing Assistant in the Neurology-Neurosurgery- Stroke Unit of La Princesa University Hospital
- Postgraduate Diploma in Vascular Neurology Nursing Care
- Clinical Collaborator at the Autonomous University of Madrid
- Degree in Nursing

Ms. Sanz de la Plaza, Carmen

- Nursing Assistant in the Neurology-Neurosurgery- Stroke Unit of the University Hospital la Princesa
- Postgraduate Diploma in Neuroncology Nursing Care
- Degree in Nursing

Ms. del Río Muñoz, Beatriz

- Nursing Assistant in the Neurology-Neurosurgery- Stroke Unit of La Princesa University Hospital
- Advanced Practice Nurse Practitioner in Multiple Sclerosis and Demyelinating Diseases Nursing Practice
- Degree in Nursing

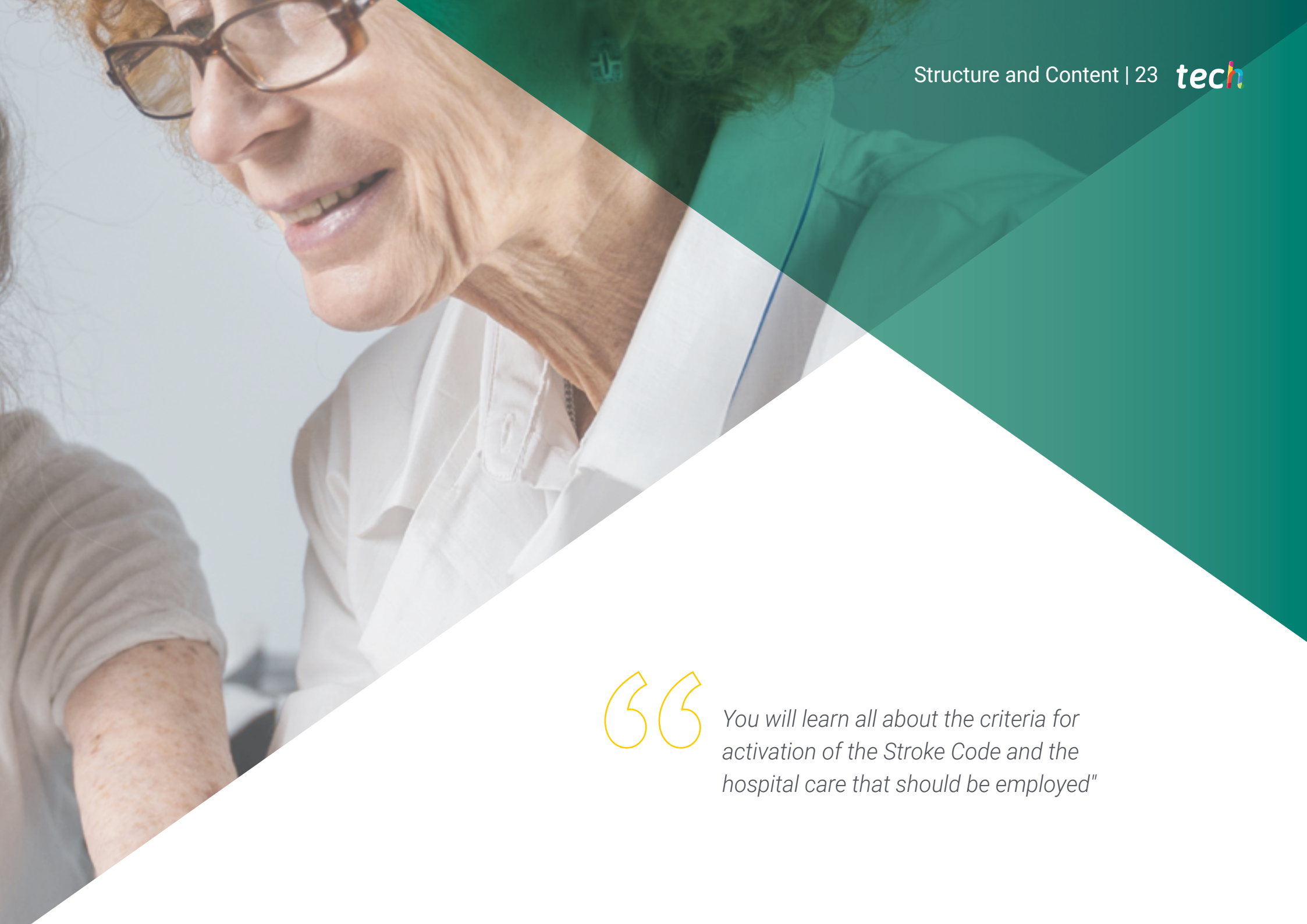
Ms. González García, Beatriz

- Nursing Assistant in the Neurology-Neurosurgery- Stroke Unit of La Princesa University Hospital
- Advanced Practice Nurse Practitioner in specialized practice of Movement Disorders and Parkinson's Disease Nursing
- Degree in Nursing

05

Structure and Content

The structure of the contents has been designed by a team of nursing professionals from a leading hospital in neurological care at all levels, who are aware of the relevance of current specialization in order to intervene in the treatment and care of neurological pathology, and who are committed, in turn, to quality teaching through new educational technologies. This has established a syllabus whose modules offer a broad perspective of the nursing functions in this area of healthcare, with which you will expand your knowledge and acquire full competence for your day-to-day work, knowing that you have the support of a team of experts and the quality assurance of TECH.



You will learn all about the criteria for activation of the Stroke Code and the hospital care that should be employed"

Module 1. CNS Anatomy CNS Infections and TBI

1.1. Central Nervous System
  1.1.1. CNS Parts. Brain, Spinal Cord, Meninges and CSF
1.2. Peripheral Nervous System
  1.2.1. PNS Parts. Spinal Nerves and Cranial Nerves
1.3. Autonomic Nervous System
  1.3.1. ANS Parts. Sympathetic and Parasympathetic Nervous System
1.4. Viral Infections of the CNS
  1.4.1. Types of Viral Infection
1.5. Bacterial Infections of the CNS
  1.5.1. Types of Bacterial Infection
1.6. Parasitic Diseases of the CNS
  1.6.1. Types of Parasitic Infection
1.7. Cranioencephalic Traumas
  1.7.1. TBI Treatment
  1.7.2. Specific Nursing Care
1.8. Treatment of CNS Infections
  1.8.1. Pharmacological Treatment
  1.8.2. Non-Pharmacological Treatment
1.9. Nursing Care in Pathology CNS Infectious
  1.9.1. Specific Care in Viral Infections
  1.9.2. Specific Care in Bacterial Infections
  1.9.3. Specific Care in Parasitic Infections
1.10. Standardized NANDA-NIC-NOC Care Plans in Infectious Pathologies
  1.10.1. Nursing Assessment by Gordon Functional Patterns
  1.10.2. Nursing Diagnoses NANDA Taxonomy
  1.10.3. Care Planning According to NIC-NOC Taxonomy

Module 2. Cerebrovascular Diseases

2.1. Transient Ischemic Attack
  2.1.1. Causes, Signs and Symptoms
2.2. Acute Ischemic Stroke. Classification According to Location
  2.2.1. Total Ischemic Stroke (TACI)
  2.2.2. Posterior Circulation Stroke (POCI)
  2.2.3. Lacunar Stroke
2.3. Acute Ischemic Stroke II. Classification According to Etiology
  2.3.1. Atherothrombotic Infarction
  2.3.2. Cardioembolic Infarction
  2.3.3. Lacunar Infarction, Small Vessel Occlusion
  2.3.4. Cerebral Infarction of Unusual Cause
  2.3.5. Cerebral Infarction of Undetermined Origin
2.4. Cerebral Hemorrhage
  2.4.1 Causes, Signs and Symptoms
2.5. Subarachnoid Hemorrhage
  2.5.1. Causes, Signs and Symptoms
2.6. Cerebral Venous Thrombosis
  2.6.1. Causes, Signs and Symptoms
2.7. Other Cerebrovascular Syndromes. (Lacunar, Vertebrobasilar)
  2.7.1. Causes, Signs and Symptoms
2.8. Neurorehabilitation in Strokes
  2.8.1. Importance of Rehabilitation after a Stroke
  2.8.2. Subacute Rehabilitation: Outpatient Rehabilitation and Home Care
2.9. Nursing Care in Acute Strokes
  2.9.1. Specific Care in Ischemic Strokes
  2.9.2. Specific Care in Hemorrhagic Strokes
  2.9.3. Specific Care in Subarachnoid Hemorrhage
  2.9.4. Specific Care in Cerebral Venous Thrombosis
  2.9.5. Specific Care in Cerebrovascular Syndromes
2.10. Standardized NANDA-NIC-NOC Care Plans
  2.10.1. Nursing Assessment by Gordon Functional Patterns
  2.10.2. Nursing Diagnoses NANDA Taxonomy
  2.10.3. Care Planning According to NIC-NOC Taxonomy

Module 3. Code Stroke and Stroke Hospital Care

3.1. Code Stroke
- 3.1.1. Activation Criteria for Code Stroke
- 3.1.2. Code Stroke Circuit

3.2. Code Stroke Attention in the Emergency Department
- 3.2.1. Emergency Triage
- 3.2.2. Emergency Nursing Care

3.3. Advanced Treatment in Acute Strokes
- 3.3.1. Intravenous Fibrinolysis
- 3.3.2. Vascular Neurointerventionism

3.4. Stroke Unit
- 3.4.1. Stroke Unit Entry and Exit Criteria

3.5. Protocol Procedures in the Stroke Unit. Care Management
- 3.5.1. Ischemic Stroke Protocol
- 3.5.2. Ischemic Stroke Protocol with Heparin Treatment
- 3.5.3. Ischemic Stroke Protocol with Fibrinolytic Treatment and/or Vascular Neurointerventional Treatment
- 3.5.4. Hemorrhagic Stroke Protocol
- 3.5.5. Protocol Subarachnoid Hemorrhage
- 3.5.6. Embolization-Angioplasty-Endarterectomy Protocol

3.6. Rehabilitation in the Acute Stroke Patient
- 3.6.1. Importance of Early Rehabilitation in Acute Stroke
- 3.6.2. Postural Treatment, Mobilizations and Transfers

3.7. Language and Swallowing. Nursing Care
- 3.7.1. Aphasia and Specific Nursing Care
- 3.7.2. Dysphagia Swallowing Test. Specific Nursing Care

3.8. Treatment of Cerebrovascular Diseases
- 3.8.1. Pharmacological Treatments and Side Effects

3.9. Standardized NANDA-NIC-NOC Care Plans
- 3.9.1. Nursing Assessment by Gordon Functional Patterns
- 3.9.2. Nursing Diagnoses NANDA Taxonomy
- 3.9.3. Care Planning According to NIC-NOC Taxonomy

3.10. Neurological Assessment. Scales and Glossary of Terms
- 3.10.1. Neurological Assessment
- 3.10.2. Scales: NIHHS, Canadian Scale, Glasgow Scale
- 3.10.3. Dictionary of Terms

Module 4. Epilepsy

4.1. Classification of Epilepsy
- 4.1.1. Idiopathic Epilepsy
- 4.1.2. Structural Epilepsy
- 4.1.3. Epilepsy of Unknown Origin

4.2. Symptomatology and Classification of Epileptic Crises
- 4.2.1. Signs and Symptoms
- 4.2.2. Focal Origin
- 4.2.3. Generalized Origin
- 4.2.4. Unknown Origin

4.3. Causes of Epilepsy
- 4.3.1. Casuistry

4.4. Diagnostic Tests in Epilepsy
- 4.4.1. EEG
- 4.4.2. Video-EEG Diagnosis
- 4.4.3. Neuroimaging

4.5. Differential Diagnosis of Epileptic Seizures
- 4.5.1. Syncope and Non-Epileptic Events of Psychogenic Origin

4.6. Status Epilepticus
- 4.6.1. ICU Admission Criteria

4.7. Refractory Epilepsy
- 4.7.1. Pre-Surgery Evaluation
- 4.7.2. Epilepsy Surgery

4.8. Pharmacological Treatment of Epilepsy
- 4.8.1. Indications for Treatment According to Type of Epilepsy
- 4.8.2. Side Effects

4.9. Epilepsy Nursing Care
- 4.9.1. Specific Crisis Care
- 4.9.2. Specific Care in Epilepsy Surgeries

4.10. Standardized NANDA-NIC-NOC Care Plans
- 4.10.1. Nursing Assessment by Gordon Functional Patterns
- 4.10.2. Nursing Diagnoses NANDA Taxonomy
- 4.10.3. Care Planning According to NIC-NOC Taxonomy

Module 5. Mobility Disorders

5.1. Mobility Disorders
- 5.1.1. Classification

5.2. Parkinson's Disease

5.3. Atypical Parkinsonisms

5.4. Dystonia

5.5. Huntington's Disease

5.6. Tremor and Myoclonus

5.7. Tourette's Syndrome

5.8. Ataxias and Paraparesis

5.9. Treatment in Mobility Disorders
- 5.9.1. Pharmacological Treatments and Side Effects
- 5.9.2. Non-Pharmacological Treatment

5.10. Nursing Care in Mobility Disorders
- 5.10.1. Specific Care in Parkinson's Disease
- 5.10.2. Specific Care in Dystonia
- 5.10.3. Specific Care in Huntington's Disease
- 5.10.4. Specific Care in Tremors and Myoclonias
- 5.10.5. Specific Care in Tourette's Syndrome
- 5.10.6. Specific Care in Ataxias and Paraparesias

5.11. Standardized NANDA-NIC-NOC Care Plans
- 5.11.1. Nursing Assessment by Gordon Functional Patterns
- 5.11.2. Nursing Diagnoses NANDA Taxonomy
- 5.11.3. Care Planning According to NIC-NOC Taxonomy

Module 6. Multiple Sclerosis and Autoimmune CNS Diseases

6.1. Multiple Sclerosis
  6.1.1. Diagnosis
6.2. Multiple Sclerosis Diagnosis
6.3. Pathophysiology Multiple Sclerosis
  6.3.1. Immunology
  6.3.2. Treatment of Disease
6.4. Spectrum of Neuromyelitis Optica
6.5. Demyelinating Diseases of the CNS
6.6. CNS Manifestations in Systemic Autoimmune Diseases
6.7. Autoimmune Encephalitis
6.8. Treatments in Demyelinating and Autoimmune Diseases
  6.8.1. Pharmacological Treatments and Side Effects
  6.8.2. Non-Pharmacological Treatment
6.9. MS Nursing Care
  6.9.1. Specific Care in MS
  6.9.2. Specific Care in Demyelinating Diseases
  6.9.3. Specific Care in Autoimmune Diseases
6.10. Standardized NANDA-NIC-NOC Care Plans
  6.10.1. Nursing Assessment by Gordon Functional Patterns
  6.10.2. Nursing Diagnoses NANDA Taxonomy
  6.10.3. Care Planning According to NIC-NOC Taxonomy

Module 7. Dementias and Cognitive Deterioration

7.1. Dementias and Cognitive Deterioration
- 7.1.1. Risk factors

7.2. Classification of Degenerative Dementias
- 7.2.1. Primary Dementias
- 7.2.2. Cortical Dementias
- 7.2.3. Subcortical Dementias

7.3. Current Diagnostic Criteria for Cognitive Impairment and Major Degenerative Dementias

7.4. Non-Degenerative Dementias
- 7.4.1. Vascular Dementia
- 7.4.2. Infectious Dementia
- 7.4.3. Dementia Hydrocephalus

7.5. Neuropsychological Screening and Assessment Test
- 7.5.1. Screening Test
- 7.5.2. Appropriate Choice of Test Assessment

7.6. Treatments for Cognitive Impairment and Neuropsychiatric Symptoms
- 7.6.1. Pharmacological Treatments and Side Effects
- 7.6.2. Non-Pharmacological Treatment

7.7. Dementia Nursing Care
- 7.7.1. Specific Care in Degenerative Dementias
- 7.7.2. Specific Care in Non-Degenerative Dementias

7.8. Standardized NANDA-NIC-NOC Care Plans
- 7.8.1. Nursing Assessment by Gordon Functional Patterns
- 7.8.2. Nursing Diagnoses NANDA Taxonomy
- 7.8.3. Care Planning According to NIC-NOC Taxonomy

Module 8. Headaches

8.1. Primary Headaches
- 8.1.1. Classification
- 8.1.2. Epidemiology
- 8.1.3. Medical History
- 8.1.4. Exploration

8.2. Migraine

8.3. Chronic Migraine

8.4. Trigeminal Autonomic Cephalalgias

8.5. Other Primary Headaches

8.6. Secondary Headaches

8.7. Painful Cranial Neuropathies and Atypical Facial Pains

8.8. Headache in the Emergency Department. Headache in Special Situations
- 8.8.1. Initial Triage. Diagnosis and Treatment
- 8.8.2. Evaluation. Diagnosis and Treatment

8.9. Treatment on Headaches and Migraines
- 8.9.1. Pharmacological Treatment. Side Effects. Preventive Treatment
- 8.9.2. Anesthetic Blocks
- 8.9.3. Botulinum Toxin
- 8.9.4. Deep Brain Stimulation (DBS)
- 8.9.5. Trigeminal Neuralgia Surgery

8.10. Nursing Care in Headaches
- 8.10.1. Specific Care in Headaches
- 8.10.2. Specific Care in Trigeminal Neuralgia and DBS Surgeries

8.11. Standardized NANDA-NIC-NOC Care Plans
- 8.11.1. Nursing Assessment by Gordon Functional Patterns
- 8.11.2. Nursing Diagnoses NANDA Taxonomy
- 8.11.3. Care Planning According to NIC-NOC Taxonomy

Module 9. Neuromuscular Diseases

9.1. Clinical History and Neuromuscular Examination
- 9.1.1. Assessment and Anamnesis
- 9.1.2. Assessment of Motor Function Deficits

9.2. Complementary Tests in the Study of Neuromuscular Diseases
- 9.2.1. Immunological Tests
- 9.2.2. Electromyogram
- 9.2.3. Neuroimaging

9.3. Acquired and Genetic Myopathies
9.4. Muscular Dystrophies
9.5. Myasthenia and Myastheniform Syndromes
9.6. Acquired Polyneuropathies
9.7. Hereditary Neuropathies
9.8. Motor Neuron Diseases
9.9. Treatments for Neuromuscular Diseases
- 9.9.1. Pharmacological Treatments and Side Effects
- 9.9.2. Non-Pharmacological Treatment

9.10. Nursing Care in Neuromuscular Diseases
- 9.10.1. Specific Care in Myopathies
- 9.10.2. Specific Care in Dystrophies
- 9.10.3. Specific Care in Myasthenia
- 9.10.4. Specific Care in Polyneuropathies
- 9.10.5. Specific Care in Hereditary Neuropathies
- 9.10.6. Specific Care in Motor Neuron Diseases

9.11. Standardized NANDA-NIC-NOC Care Plans
- 9.11.1. Nursing Assessment by Gordon Functional Patterns
- 9.11.2. Nursing Diagnoses NANDA Taxonomy
- 9.11.3. Care Planning According to NIC-NOC Taxonomy

Module 10. Neurologic Oncology

10.1. Primary Brain Tumors
- 10.1.1. High Grade Glioma
- 10.1.2. Low-Grade Glioma

10.2. Non-Glial Primary Brain Tumors
10.3. Cerebral Metastases and Meningeal Carcinomatosis
10.4. Neurological Complications of Chemotherapy and Immunotherapy
10.5. Neurological Complications of Radiotherapy
10.6. Paraneoplastic Syndromes
10.7. Hematological Neoplasms and their Neurological Complications
10.8. Treatments in Neurological Oncology
- 10.8.1. Pharmacological Treatment
- 10.8.2. Non-Pharmacological Treatment
- 10.8.3. Surgical Treatments

10.9. General Tumor Nursing Care
- 10.9.1. Specific Care for Tumors
- 10.9.2. Specific Care for Tumors Requiring Surgery
- 10.9.3. Specific Care for Tumors Requiring Chemotherapy
- 10.9.4. Specific Care for Tumors Requiring Radiotherapy

10.10. NANDA-NIC-NOC Care Plans
- 10.10.1. Nursing Assessment by Gordon Functional Patterns
- 10.10.2. Nursing Diagnoses NANDA Taxonomy
- 10.10.3. Care Planning According to NIC-NOC Taxonomy

This Master's Degree in Neurology Nursing will make you stand out professionally, boosting your professional and personal career towards excellence"

06

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **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 Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

With TECH, nurses can experience a learning methodology 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, in an attempt to recreate the real conditions in professional nursing 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:

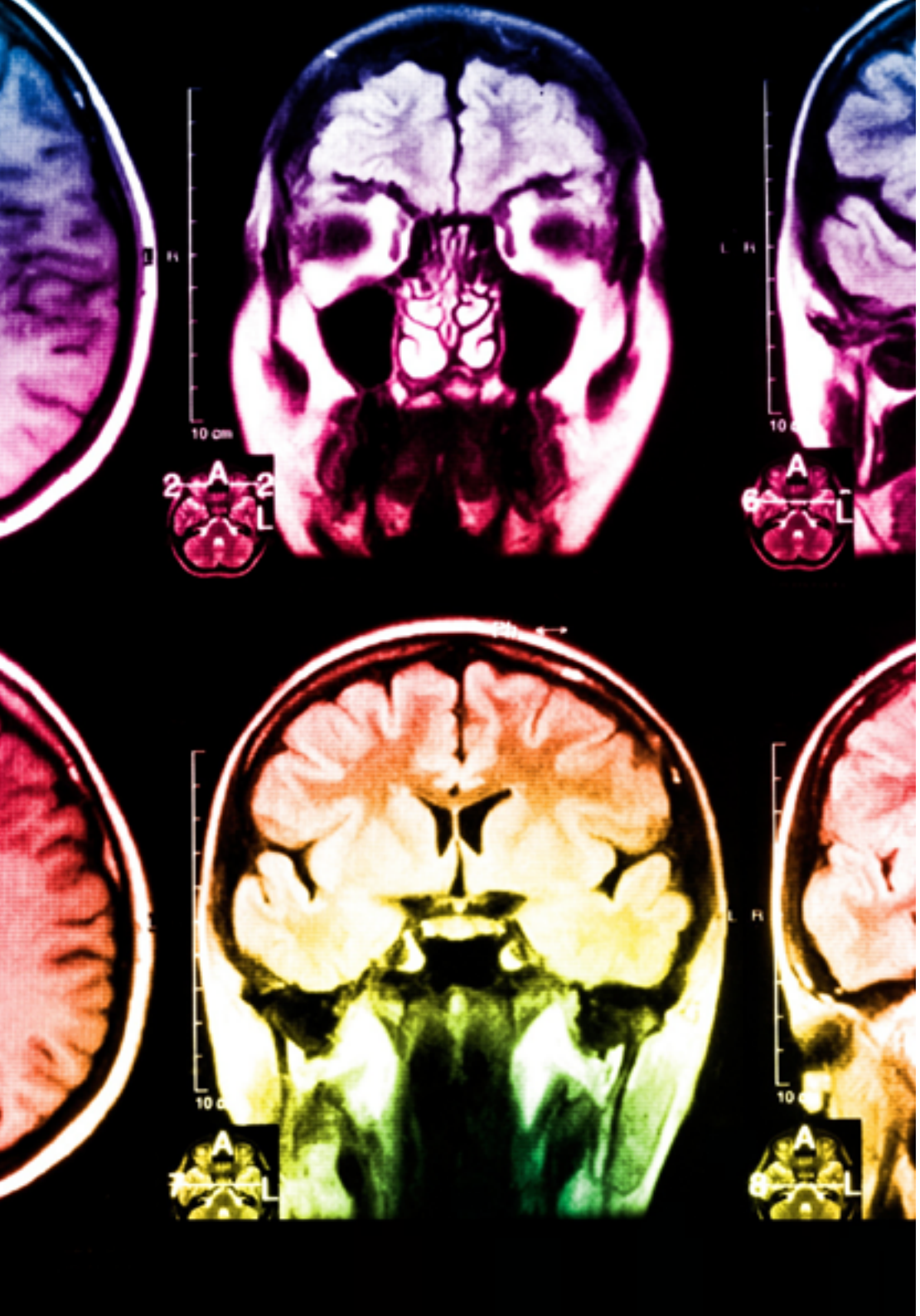
1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.

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



At the forefront of world teaching, the 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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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 really 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.

Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All 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 them as many times as you want.

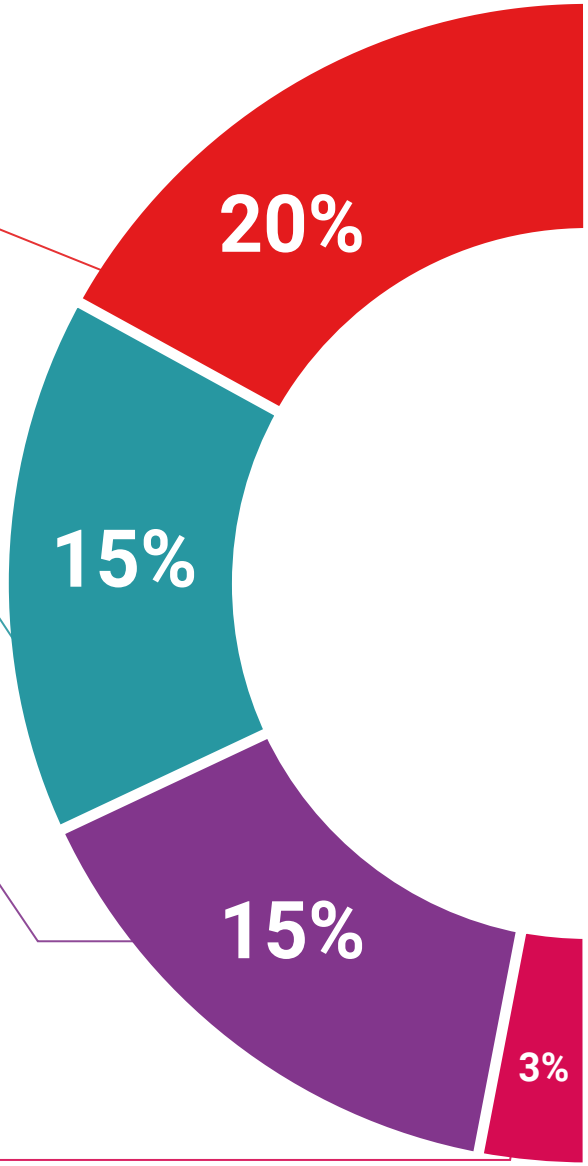
Interactive Summaries

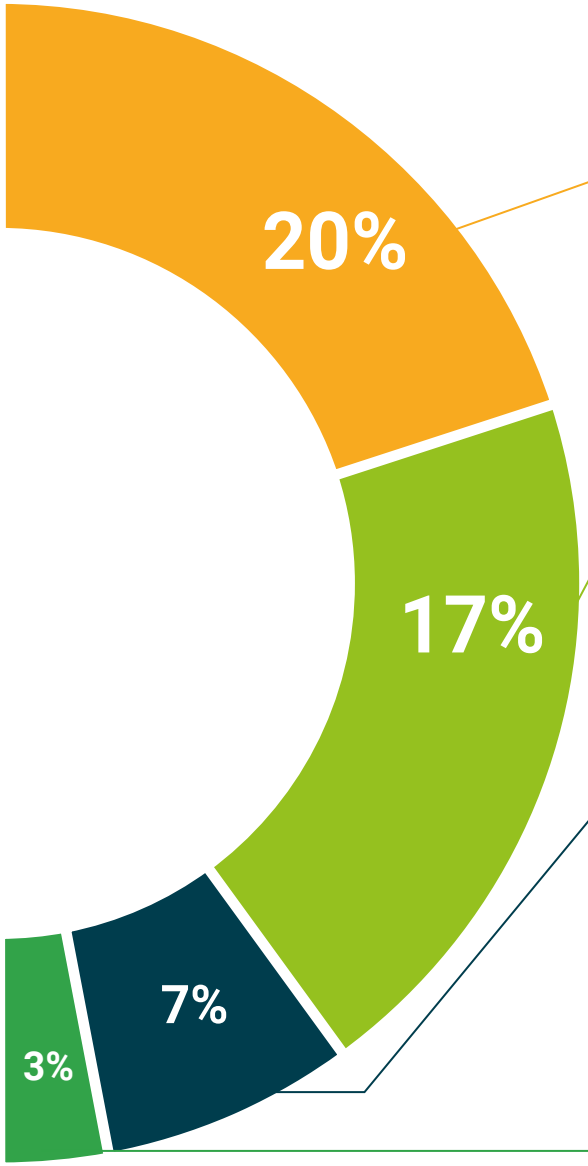
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 suggesting that observing third-party experts can be useful.

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.

07

Certificate

The Master's Degree in Neurology Nursing guarantees you, in addition to the most rigorous and up-to-date training, access to a Master's Degree issued by TECH Global University.

Successfully complete this program and receive your university degree without travel or laborious paperwork”

This program will allow you to obtain your **Master's Degree diploma in Neurology Nursing** 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: **Master's Degree in Neurology Nursing**

Modality: **online**

Duration: **12 months**

Accreditation: **60 ECTS**

tech global university

Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Master's Degree in Neurology Nursing

This is a program of 1,500 hours of duration equivalent to 60 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Rector

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

Master's Degree in Neurology Nursing

General Structure of the Syllabus

Subject type	ECTS
Compulsory (CO)	60
Optional (OP)	0
External Work Placement (WP)	0
Master's Degree Thesis (MDT)	0
	Total 60

General Structure of the Syllabus

Year	Subject	ECTS	Type
1º	CNS Anatomy CNS Infections and TBI	6	CO
1º	Cerebrovascular Diseases	6	CO
1º	Code Stroke and Stroke Hospital Care	6	CO
1º	Epilepsy	6	CO
1º	Mobility Disorders	6	CO
1º	Multiple Sclerosis and Autoimmune CNS Diseases	6	CO
1º	Dementias and Cognitive Deterioration	6	CO
1º	Headaches	6	CO
1º	Neuromuscular Diseases	6	CO
1º	Neurologic Oncology	6	CO

Dr. Pedro Navarro Illana
Chancellor

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*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.

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Master's Degree
Neurology Nursing

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Global University**
- Credits: **60 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Master's Degree
Neurology Nursing

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