Postgraduate Certificate

Nuclear Medicine for Nursing

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Postgraduate Certificate

Nuclear Medicine for Nursing

- Modality: **online**
- Duration: **12 weeks**
- Certificate: **TECH Technological University**
- Dedication: **16h/week**
- Schedule: **at your own pace**
- Exams: **online**

Website: **www.techtitute.com/pk/nursing/postgraduate-certificate/nuclear-medicine-nursing**

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01

Introduction

In the field of Nuclear Medicine, nurses are responsible for administering radioactive materials to patients, monitoring them during the procedure and ensuring that the necessary safety measures are taken to protect both them and the medical staff from radiation. This is all the more reason for them to continually consolidate their update on care strategies through this type of medicine, something they will be able to do with all the guarantees provided by TECH. In this way, they will learn the basics of radiological prevention, the chemical and physical foundations of Nuclear Medicine, the required instrumentation or radiometabolic therapy. All this in only 300 hours and using the experience of leading experts in the field.

Upgrade your care strategies through Nuclear Medicine with a 100% online Postgraduate Certificate"

The administration of radiopharmaceuticals used in Nuclear Medicine requires meticulous and precise attention to avoid dosing errors and ensure that patients receive the right amount of radiation. This has made nursing a crucial profession in this area, where nurses are responsible for treating radioactive materials as responsibly as possible.

For this reason, it is really important for these professionals to be updated in this area in order to assist patients more effectively, as well as to explain the risks and benefits of these treatments or to provide emotional and psychological support during the process. It is in this context that the present Postgraduate Certificate arises, which addresses the different lines of Nuclear Medicine, from isotopic studies of the musculoskeletal system to studies in Neurology, including digestive pathology, endocrinology, cardiology and pneumology. In addition, the nurses will delve into bone, salivary, esophageal transit, gastric emptying and hepatosplenic scintigraphy, as well as isotopic investigations for the diagnosis of thyroid and parathyroid pathology.

But the best thing is that the format of the program is 100% online so that the students can update from home or anywhere at their own pace, always according to their needs and availability. In addition, the program has a great teaching team made up of experts in Nuclear Medicine and Nursing, who will provide constant support to the students. Undoubtedly, a truly valuable opportunity that will launch the nurses' career to new heights.

This **Postgraduate Certificate in Nuclear Medicine for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical case studies presented by experts in Nuclear Medicine for Nursing
- Graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- 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

This is the perfect academic opportunity to get up to date on the latest isotopic studies of the musculoskeletal system"

Review the latest advances in equilibrium and first-pass ventriculography by viewing dynamic explanatory videos or interactive diagrams"

Learn more about the most relevant studies for the diagnosis of Pulmonary Thromboembolism thanks to this program.

Access a complete digital library on Nuclear Medicine for Nursing with resources available 24 hours a day.

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

Its multimedia content, developed with the latest educational technology, will provide the professionals with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

This program's design focuses on Problem-Based Learning, through which the professionals must try to solve the different professional practice situations that arise during the academic program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned experts.

02

Objectives

The main objective of this Postgraduate Certificate is to provide nursing professionals with the advanced knowledge and skills necessary to collaborate effectively in diagnostic and therapeutic procedures performed with the use of Nuclear Medicine. Through this academic opportunity, students will update their care strategies in this type of medicine, mastering its basic principles, the preparation and administration of radiopharmaceuticals, or the recommendations of radiological protection.

Reach the objectives designed by TECH and perform an optimal management of radioactive waste"

General Objectives

- Promote work strategies based on the practical knowledge of a tertiary level hospital and its application in Diagnostic Imaging, Nuclear Medicine and Radiation Oncology services
- Favor the enhancement of technical skills and abilities through care procedures and case studies
- Provide nurses with a process of updating their knowledge in the field of Radiology
- Be up to date with the care management and organization of the Diagnostic Imaging and Treatment Area, in order to optimize the operation of the Radiology Service
- Develop skills and competencies in nurses for their performance in the nursing consultation in the Diagnostic Imaging and Treatment Department (DTI)
- Expand nurses' knowledge of radiation oncology, interventional vascular radiology and neuroradiology to improve patient care in these specific areas
- Develop nurses' skills in performing image-guided procedures, including breast and brachytherapy, to improve the quality of patient care and optimize clinical outcomes

Specific Objectives

- Describe the object of Nuclear Medicine, its physical and chemical fundamentals
- Update knowledge in the handling of radiopharmaceuticals
- Delve into the radioprotection norms appropriate to each radiopharmaceutical and to train us to carry out health education in their application in the intra and intra-hospital environment
- Carry out a correct management of radioactive waste
- Develop nursing skills in techniques derived from metabolic therapies
- Understand the studies performed in PET and the role of the nurse in the care of patients undergoing this test
- Delve into the different techniques of medical diagnostic imaging in MN
- Define the characteristics of radioactive decay, types of radiation, its interaction with the environment and the consequences of clinical interest
- Delve into the structure of a generator
- Differentiate the concepts of radiopharmaceutical, radiotracer and radionuclide
- Describe the general characteristics of radionuclides
- Develop what an activimeter is used for and how it works
- Identify the different elements of a gamma camera
- Describe the basics of scintigraphic imaging
- Evaluate the advantages and disadvantages of scintigraphy
- Identify the main therapeutic applications of some radioisotopes
- Describe the characteristics and kinetics of radiopharmaceuticals associated with each diagnostic examination
- Delve into the development of the studies performed in the Nuclear Medicine Department and the use of the gamma camera
- Delve into the different nursing procedures of isotopic studies in neurology, pneumology, nephrourology, cardiology, vascular, musculoskeletal, hepatic, biliary, etc
- Implement the nursing care process for patients undergoing Gammacamera studies
- Manage the different radiological protection recommendations and their correct explanation to patients and health personnel outside the MN service

Don't miss the opportunity to delve into the different nursing procedures of isotopic studies in Neurology, Pneumology, Nephrourology or Cardiology"

03

Course Management

The teaching team that TECH has assembled to teach this Postgraduate Certificate will be one of the greatest assets in the students' updating of their Nursing procedures in Nuclear Medicine. In this sense, the program brings together experts in areas such as Dialysis, Intensive Care or Hemotherapy, who have excelled with their care activity in hospital institutions of international reference. In addition, students will have tutors who will resolve any and all doubts they may have about the syllabus designed by these prestigious professionals.

Improve all your professional prospects in Nursing with the contributions of experts who have worked in prestigious hospitals"

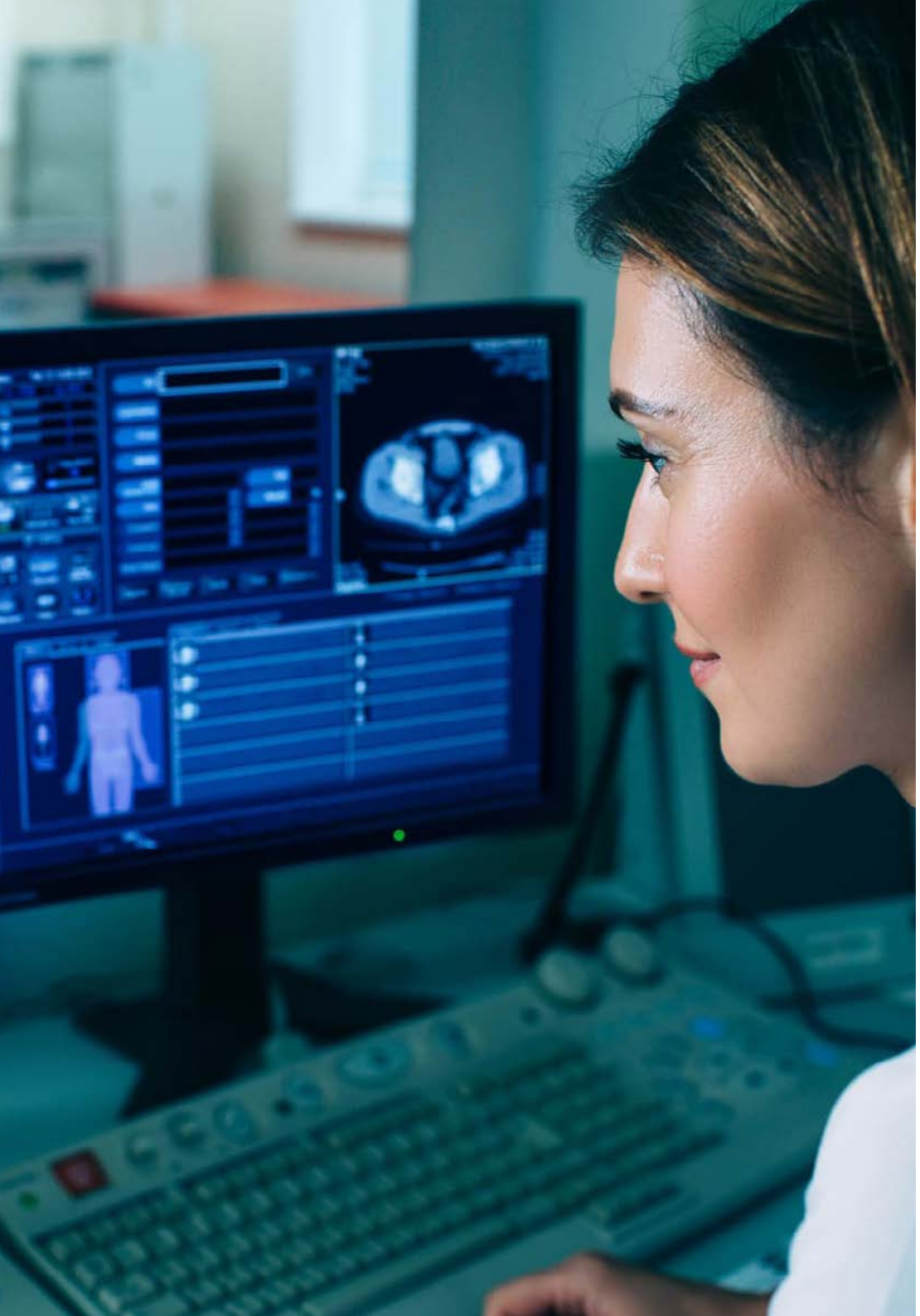
Management

Ms. Viciana Fernández, Carolina

- Nurse in the Radiodiagnosis and Nuclear Medicine
- Postgraduate Certificate in Nursing
- Professional Master's Degree in Pediatric Nursing
- University Specialist in Emergency and Catastrophe Nursing
- University Specialist in Nursing in the Surgical Area
- Nuclear Medicine Radioactive Installations Operator License by the Nuclear Safety Council

Ms. García Argüelles, Noelia

- Area Supervisor of Diagnostic Imaging and Treatment at the Asturias University Central Hospital
- Professor in the Department of Medicine at the University of Oviedo
- Professor at numerous conferences and congresses, including the Congress of the Society of Radiological Nursing
- Postgraduate Certificate in Nursing
- Professional Master's Degree in Prevention Management in the Company
- Professional Master's Degree in Urgency, Emergencies and Catastrophes
- Member of the panel of auditors authorized by the Quality Assessment Unit of the Health Service of the Principality of Asturias
- Certificate of Pedagogical Aptitude for Secondary Education Teachers
- Radioactive Facilities Operator License in Nuclear Medicine by the Nuclear Safety Council



Professors

Ms. Busta Díaz, Mónica

- Supervisor of the Nuclear Medicine Service at the Central University Hospital of Asturias
- Postgraduate Certificate in Nursing
- Bachelor's Degree in History
- Postgraduate Diploma in Intensive Care Unit Nursing
- Postgraduate Diploma in in Dialysis Nursing
- Postgraduate Diploma in Surgical Fields in Nursing
- Postgraduate Diploma in Hemotherapy
- Nuclear Medicine Radioactive Installations Operator's License. Nuclear Safety Council
- Member of: Scientific Committee during the XX Congress of the Spanish Society of Radiological Nursing 2022

Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"

04

Structure and Content

The Postgraduate Certificate in Nuclear Medicine for Nursing has a flexible structure, allowing students to adjust their pace of study to their individual needs and time availability. In this way, and thanks to the online modality, they will save on the need to travel to on-site teaching centers and forget about predetermined schedules.
In addition, the program uses the Relearningmethodology, which consists of the directed reiteration of the concepts of the syllabus through dynamic educational resources, such as interactive diagrams or explanatory videos.

Enjoy a syllabus that will take you through the entire history of Nuclear Medicine and its different fields of application"

Module 1. Nuclear Medicine I

1.1. What is Nuclear Medicine?
- 1.1.1. Introduction to Nuclear Medicine
- 1.1.2. History of Nuclear Medicine
- 1.1.3. Fields of Application of Nuclear Medicine
- 1.1.4. Radiopharmaceuticals

1.2. Physical Fundamentals of Nuclear Medicine
- 1.2.1. Key Concepts
- 1.2.2. Structure of Matter
- 1.2.3. Electromagnetic Radiation
- 1.2.4. Atomic Structure Bohr Atom
- 1.2.5. Nuclear Structure
- 1.2.6. Radioactivity and Nuclear Reactions
- 1.2.7. Interaction of Radiation with Matter

1.3. Chemical Fundamentals of Nuclear Medicine
- 1.3.1. Key Concepts
- 1.3.2. Obtaining Radionuclides
- 1.3.3. Radionuclide Generators
- 1.3.4. Structure of a Molybdenum/Tecnetium Generator
- 1.3.5. Tagging Mechanisms

1.4. Radiopharmaceuticals
- 1.4.1. Characteristics of the Ideal Radiopharmaceutical
- 1.4.2. Physical Form and Routes of Administration of Radiopharmaceuticals
- 1.4.3. Localization Mechanisms of Radiopharmaceuticals

1.5. Fundamentals of Radiological Prevention in Nuclear Medicine
- 1.5.1. Key Concepts
- 1.5.2. Quantities and Units
- 1.5.3. Fundamentals of Radiological Prevention in Nuclear Medicine
  - 1.5.3.1. Patients
  - 1.5.3.2. Workers and Members of the Public
  - 1.5.3.3. Pregnancy and Breastfeeding

1.6. Fundamentals of Radiological Prevention and Medical Physics in Nuclear Medicine
- 1.6.1. Key Concepts
- 1.6.2. Radiation Detection and Measurement
  - 1.6.2.1. Gas Ionization Detectors
  - 1.6.2.2. Semiconductor Detectors
  - 1.6.2.3. Scintillation Detectors
- 1.6.3. Radiation Protection Standards

1.7. Radioactive Waste
- 1.7.1. Key Concepts
- 1.7.2. Radioactive Sources out of Use
- 1.7.3. Solid Waste Materials with Radioactive Content
- 1.7.4. Liquid Radioactive Waste

1.8. Instrumentation in Nuclear Medicine
- 1.8.1. Key Concepts
- 1.8.2. Activimeter or Dose Calibrators
- 1.8.3. Gamma Camera and SPECT
  - 1.8.3.1. Gammacamera Detectors
  - 1.8.3.2. Collimation
  - 1.8.3.3. Image Correctors
  - 1.8.3.4. Planar Image Formation
  - 1.8.3.5. Tomographic Acquisition
- 1.8.4. PET
  - 1.8.4.1. Detectors Used in PET
  - 1.8.4.2. PET Image Formation

1.9. Radiometabolic Therapy
- 1.9.1. Treatment of Metastatic Bone Pain
- 1.9.2. Treatment of Differentiated Thyroid Cancer
- 1.9.3. Treatment of Hyperthyroidism
- 1.9.4. Treatment of Non-Hodgkin's Lymphoma
- 1.9.5. Treatment of Neuroendocrine Tumors
- 1.9.6. Radiosynoviorthesis

1.10. Scans performed in PET. Nursing care and attention
- 1.10.1. Radionuclides and radiopharmaceuticals in PET
- 1.10.2. Types of Studies
- 1.10.3. Nursing Care at the PET-FDG
- 1.10.4. Nursing Care in the PET-Colina
- 1.10.5. Nursing care in the PET-Vizamil PET
- 1.10.6. Nursing Care at the PET-DOPA
- 1.10.7. Nursing Care at the PET-PSMA
- 1.10.8. Nursing Care in the Myocardial Viability PET

Module 2. Nuclear Medicine II Isotopic Studies

2.1. Isotopic studies of the musculoskeletal system. Nursing care and attention
- 2.1.1. Bone scintigraphy
- 2.1.2. Three-phase bone scintigraphy
- 2.1.3. Bone Marrow Gammagraphy
- 2.1.4. Isotopic studies for diagnosis in Inflammatory and Infectious Pathology
  - 2.1.4.1. 67Ga
  - 2.1.4.2. Labeled leukocytes

2.2. Isotopic studies in Digestive Pathology. Nursing Care and Attention
- 2.2.1. Anatomophysiological Recall
- 2.2.2. Salivary Gammagraphy
- 2.2.3. Esophageal Transit Scintigraphy
- 2.2.4. Gastric scintigraphy Detection of ectopic gastric mucosa Meckel's Diverticulum
- 2.2.5. Gastric Emptying Scintigraphy
- 2.2.6. Gammagraphy for detection of Gastroesophageal Reflux
- 2.2.7. Gammagraphy for the diagnosis of Digestive Hemorrhage

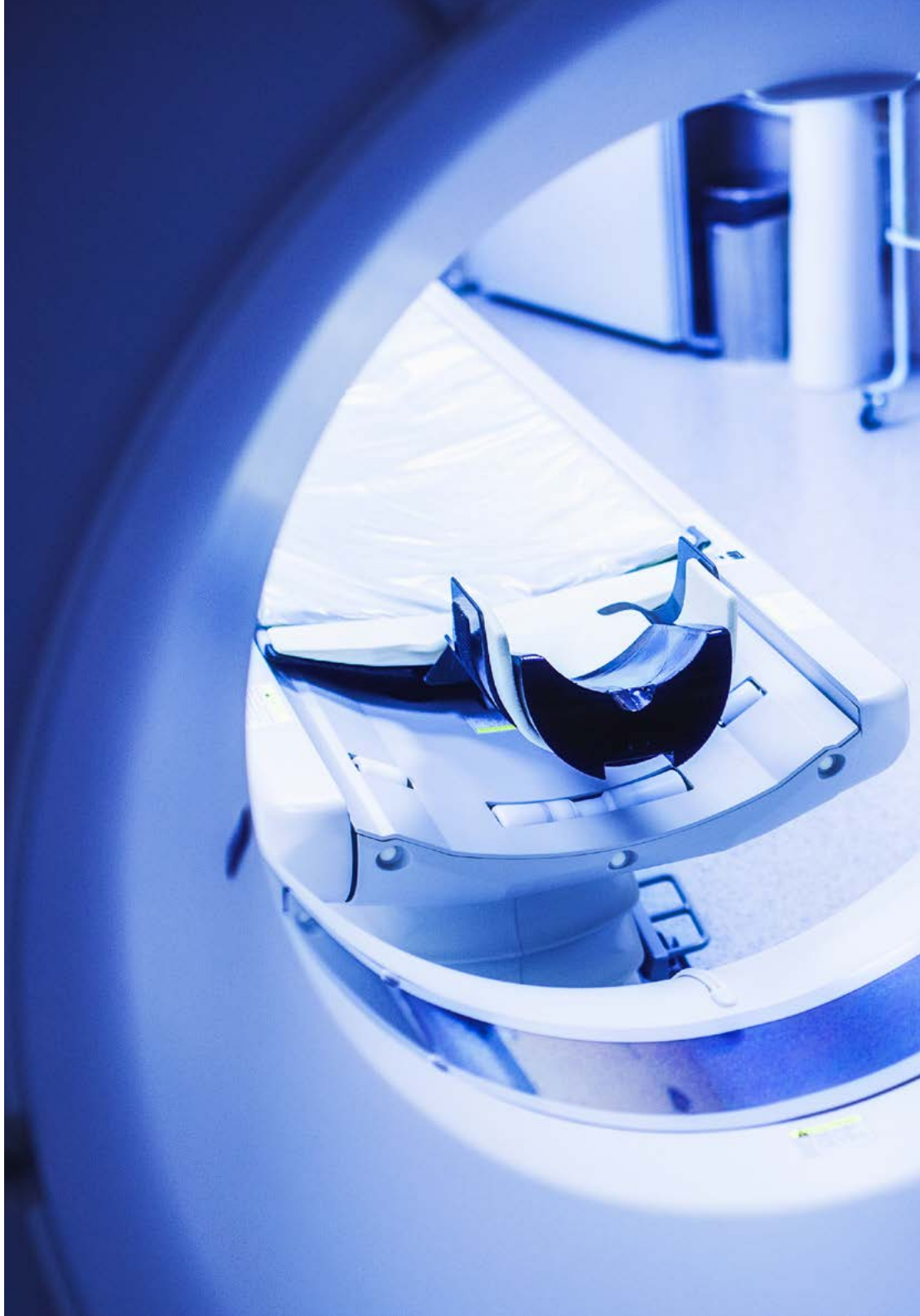
2.3. Isotopic studies in splenic and biliary pathology. Nursing Care and Attention
- 2.3.1. Anatomophysiological Recall
- 2.3.2. Hepatosplenic Scintigraphy
- 2.3.3. Hepatobiliary Gammagraphy
- 2.3.4. Bad absorption of biliary salts

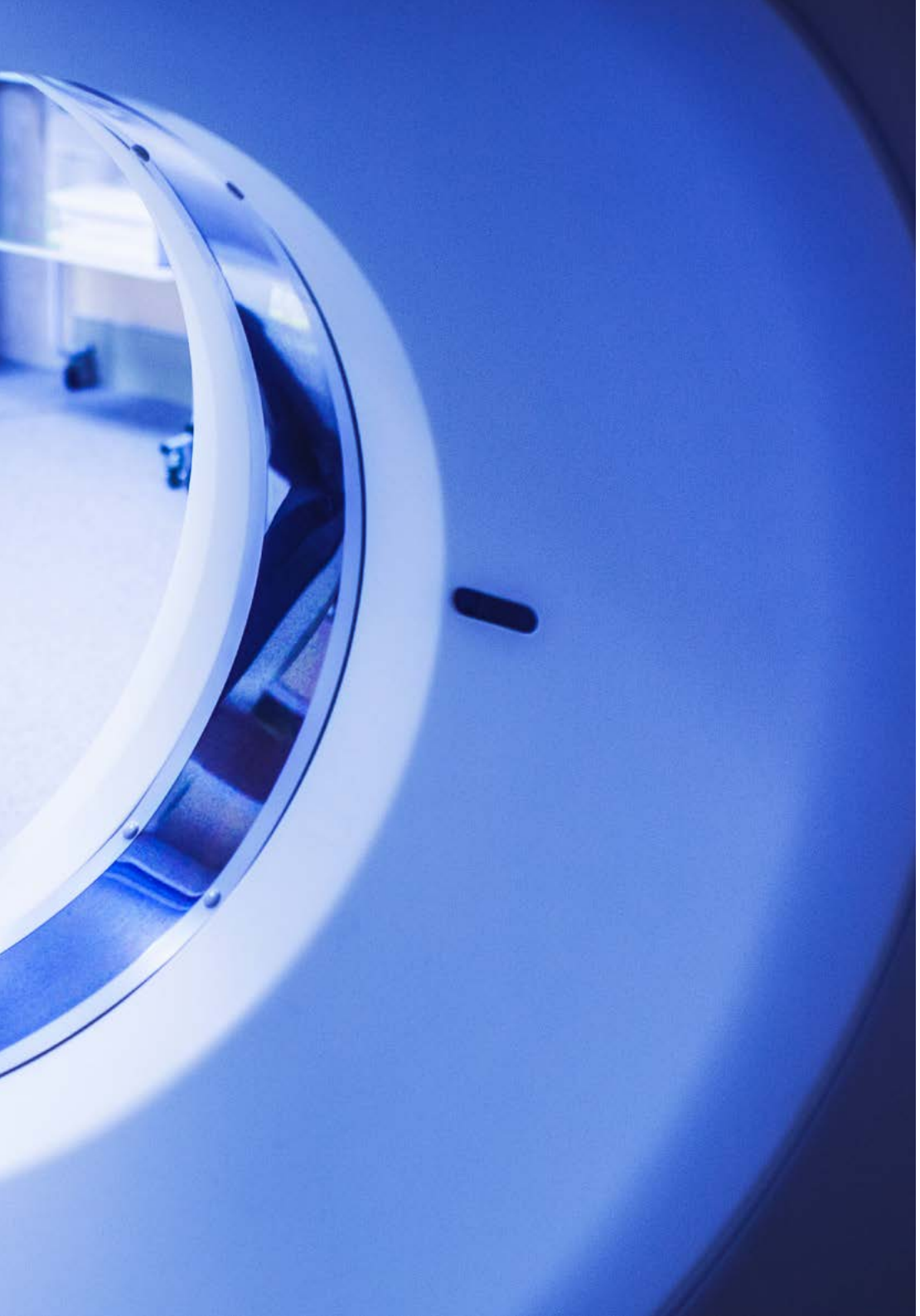
2.4. Isotopic studies in Endocrinology. Nursing Care and Attention
- 2.4.1. Isotopic studies for diagnosis from Thyroid Pathology
- 2.4.2. Isotopic studies for diagnosis from Parathyroid Pathology
- 2.4.3. Isotopic studies for diagnosis from Adrenal Glands Pathology

2.5. Isotopic studies in Cardiology. Nursing Care and Attention
- 2.5.1. Study of Cardiac Function
  - 2.5.1.1. Equilibrium ventriculography
  - 2.5.1.2. First-pass ventriculography
- 2.5.2. Study of Myocardial Perfusion
  - 2.5.2.1. Myocardial perfusion SPECT during exercise
  - 2.5.2.2. Myocardial perfusion SPECT at rest
- 2.5.3. PET

2.6. Isotopic studies in Pneumology. Nursing Care and Attention
- 2.6.1. Anatomophysiological Recall
- 2.6.2. Studies for the diagnosis of pulmonary thromboembolism
  - 2.6.2.1. Pulmonary Ventilation Scintigraphy
  - 2.6.2.2. Pulmonary Perfusion Scintigraphy
- 2.6.3. Diffuse Interstitial Lung Disease Evaluation Scintigraphy
- 2.6.4. Gammagraphy in the evaluation of Infectious Processes
- 2.6.5. Gammagraphy in the evaluation of Thoracic Neoplasms

2.7. Isotopic studies in Neurology. Nursing Care and Attention
- 2.7.1. Anatomophysiological Recall
- 2.7.2. Brain perfusion SPECT Technique Clinical applications
- 2.7.3. Studies for the diagnosis of Epilepsies
  - 2.7.3.1. CSF fistula detection. Cisternography
- 2.7.4. Studies for the diagnosis of Movement Disorders
  - 2.7.4.1. Studies for the differential diagnosis of Parkinsonisms
  - 2.7.4.2. Study of Dopamine Transporters DATSCAN
  - 2.7.4.3. Study of postsynaptic D2 Dopaminergic Dopamine Receptors. 123I-IBZM
  - 2.7.4.4. Myocardial Sympathetic Sympathetic Denervation Study with 123I-MIBG
- 2.7.5. Studies for the diagnosis of Cerebrovascular Pathology and Encephalic Death 99Tc-HMPAO





2.8. Isotopic studies in Nephrourology. Nursing Care and Attention
- 2.8.1. Anatomophysiological Recall
- 2.8.2. Studies for the diagnosis of Renal Functionality.. Glomerular filtration
- 2.8.3. Isotopic Renogram
- 2.8.4. Renal Cortical Gammagraphy: DMSA
- 2.8.5. Isotopic cystography
- 2.8.6. Scrotal or testicular scintigraphy

2.9. Isotopic studies in Vascular Pathology. Nursing Care and Attention
- 2.9.1. Anatomophysiological Recall
- 2.9.2. Isotopic phlebography
- 2.9.3. Lymphogrammagraphy
- 2.9.4. Sentinel lymph node study
  - 2.9.4.1. Sentinel Lymph Node in Breast Cancer
  - 2.9.4.2. Sentinel lymph node in malignant melanoma
  - 2.9.4.3. Sentinel node in other applications

2.10. Isotopic studies in Oncology. Nursing Care and Attention
- 2.10.1. Tracking with 67 Ga citrate
- 2.10.2. Tracking with 99mTc-sestaMIBI
- 2.10.3. Traceback with 123I-MIBG and 131I-MIBG
- 2.10.4. Traceback with labeled peptides
- 2.10.5. Traceback with labeled monoclonal antibodies

You will only need a PC or Tablet with an Internet connection to benefit from the most global and up-to-date view of Nuclear Medicine for Nursing"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

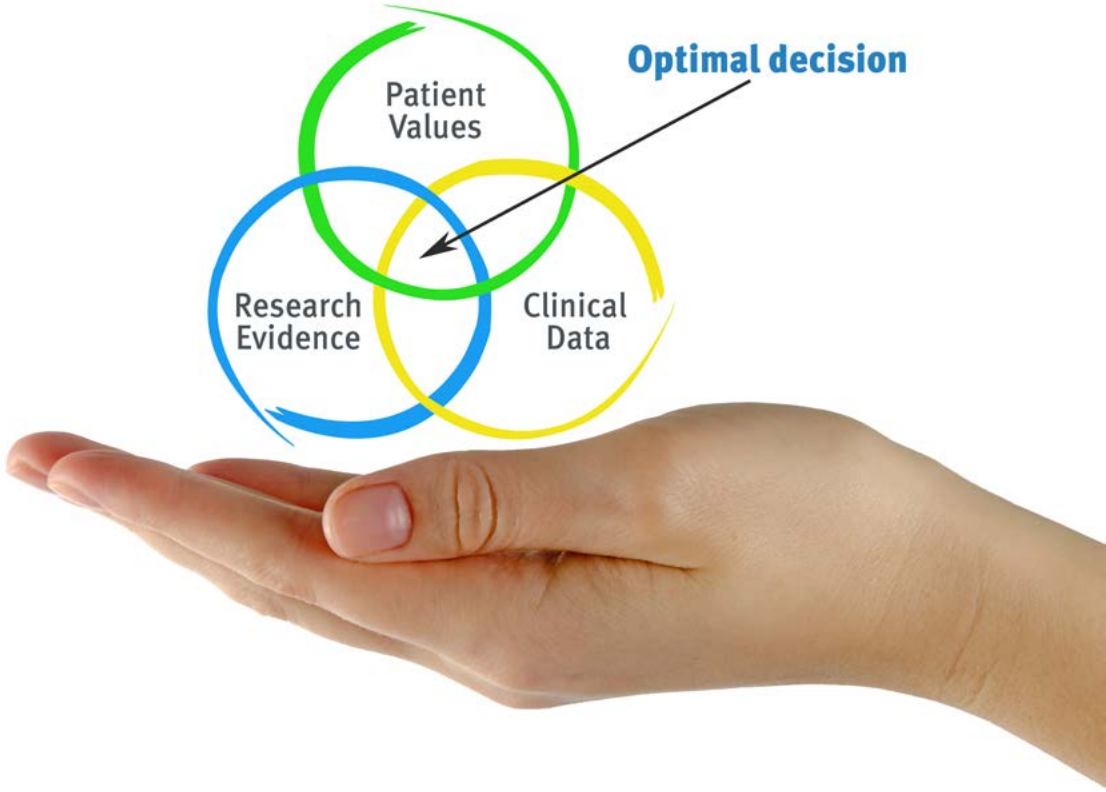
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

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:

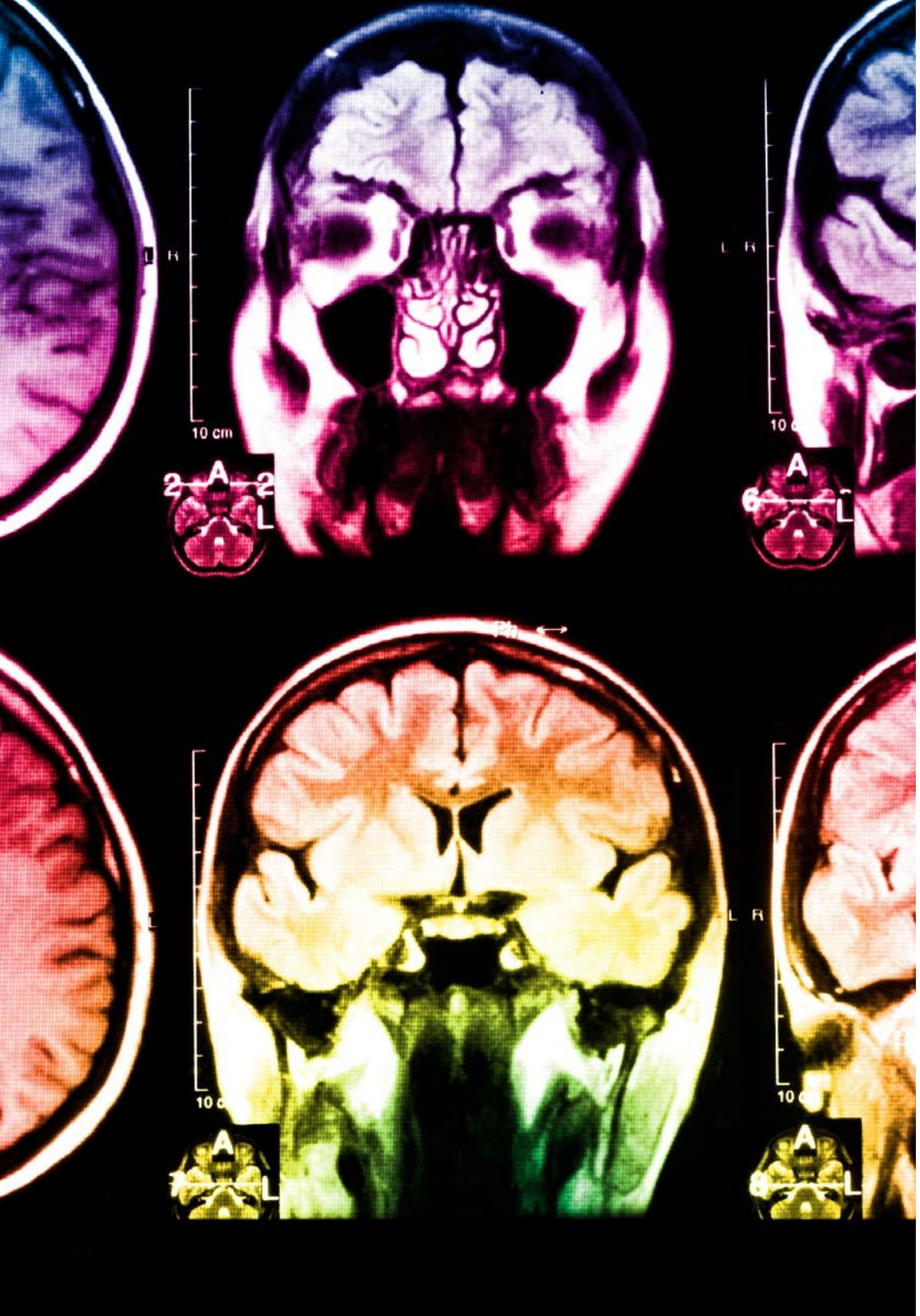
1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into 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.

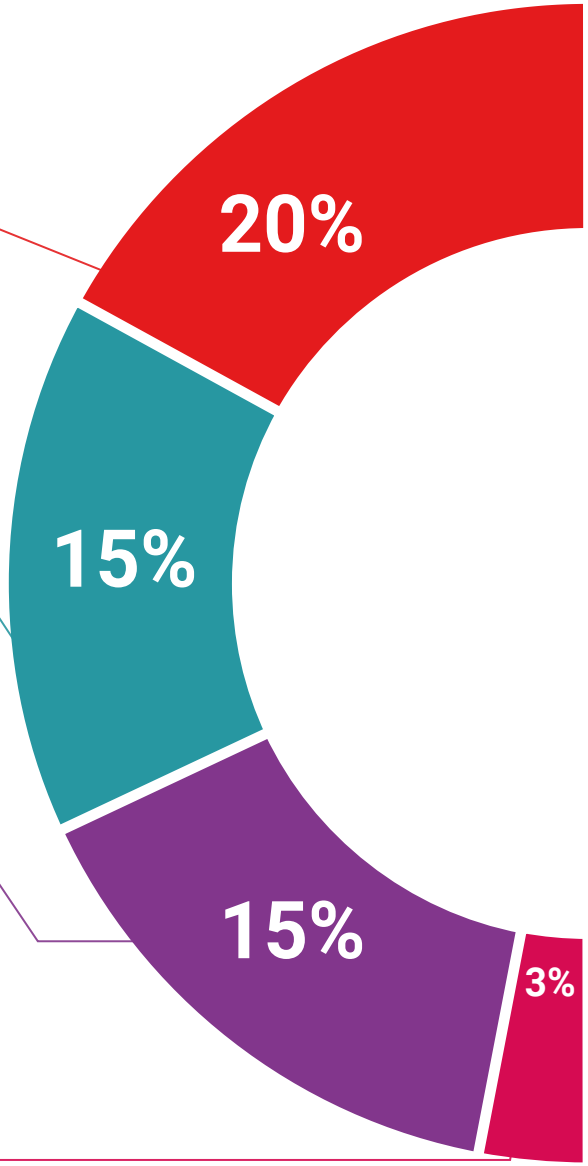
Interactive Summaries

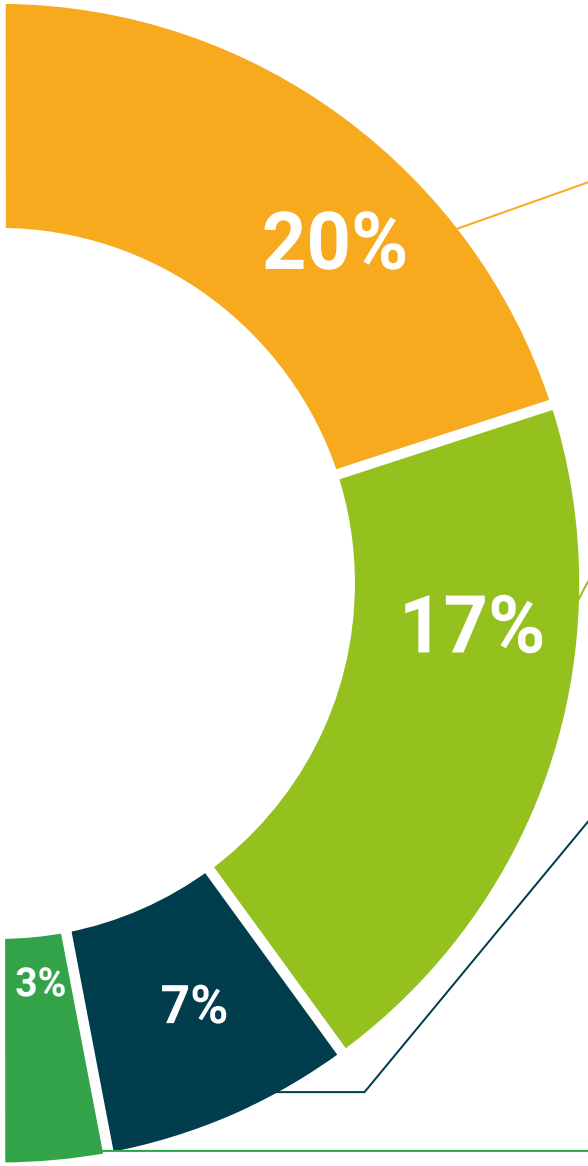
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.

06

Certificate

The Postgraduate Certificate in Nombre del Porgrama guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.

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

This **Postgraduate Certificate in Nuclear Medicine for Nursing** contains the most complete and up-to-date scientific on the market.

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

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Nuclear Medicine for Nursing**

Official N° of Hours: **300 h.**


tech technological university

Awards the following

CERTIFICATE

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Nuclear Medicine for Nursing

This is a qualification awarded by this University, equivalent to 300 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

Dean

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

*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

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