Professional Master's Degree

Hematology Nursing

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Professional Master's Degree
Hematology Nursing

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Global University**
- Accreditation: **90 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: www.techtitute.com/us/nursing/professional-master-degree/master-hematology-nursing

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01

Introduction to the Program

Hematology Nursing plays a key role in the care of patients with blood disorders, including Leukemia, Lymphoma and Anemia. In fact, the importance of their specific training has been recognized due to the rise of advanced therapies such as CAR-T cell treatments, which require expert monitoring. Furthermore, according to the World Health Organization (WHO), the growing demand for nurses specialized in hematology is in response to the increased incidence of hematological diseases, especially in high- and middle-income countries. In this context, TECH has developed an exhaustive 100% online program, completely adaptable to the professional and personal schedules of graduates, based on the innovative Relearning methodology, which is a pioneer in this institution.

With this 100% online Professional Master's Degree, you will equip yourself with specialized skills for the management of patients with hematologic diseases, applying the latest technological and scientific innovations"

The role of nursing staff in hematology services has evolved significantly, with their participation in the management of therapies such as chemotherapy, immunotherapy and hematopoietic stem cell transplants standing out. In fact, according to the International Society of Hematology (ISH), specialized education in hematology for nurses is fundamental for improving clinical outcomes for patients and minimizing the adverse effects of treatment.

This is how this Professional Master's Degree was developed, designed to provide professionals with the knowledge and skills necessary to care for patients with hematological diseases in an efficient and compassionate manner. In this sense, the physiology and diseases of the blood and hematopoietic organs will be studied in depth, identifying and addressing both malignant and non-malignant diseases in pediatric and adult patients.

Likewise, a distinction will be made between conventional and advanced therapies, acquiring tools to solve clinical cases and promote safe practices, both in the administration of medications and in the comprehensive management of patients. It will also explore aspects such as palliative care, addressing techniques for the control of refractory symptoms, effective communication in complex situations and emotional support for patients and families.

Finally, expertise in ethics, digital transformation and research will be fostered, preparing experts to face ethical dilemmas, incorporate innovative technologies such as Artificial Intelligence and data analysis in clinical practice, and participate in clinical trials and scientific studies.

In this way, TECH has implemented a syllabus of high academic quality, 100% online, which will only require an electronic device with an Internet connection to access all the teaching materials, avoiding problems such as traveling to a physical center or adjusting to a fixed schedule. In addition, it will use the revolutionary Relearning methodology, which consists of the reiteration of key concepts for an optimal and organic assimilation of the content.

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

- The development of case studies presented by experts with a deep knowledge of detection and intervention techniques in Hematology Nursing, which facilitate the work of nurses in clinics, hospitals and other healthcare centers
- The graphic, schematic and practical contents with which it is conceived provide scientific and practical information on those 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 multidimensional approach will integrate technical knowledge, interpersonal skills and an up-to-date vision of trends in hematological care, enabling you to improve the quality of life of your patients"

You will be qualified to carry out accurate clinical assessments, interpret diagnostic results and plan personalized care, applying advanced techniques such as chemotherapy and bone marrow transplants"

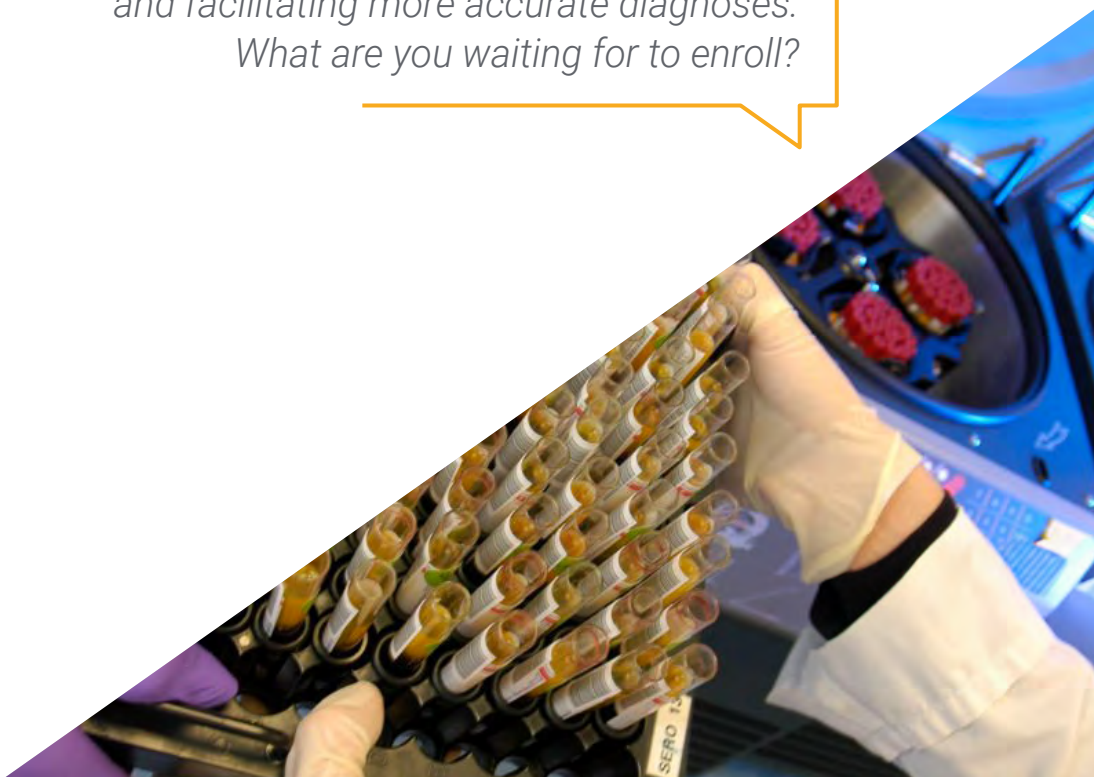
You will develop skills to apply prevention, diagnosis and treatment interventions in Hematology, in adults and children, thanks to an extensive library of innovative multimedia resources.

You will master advanced digital tools, such as the Electronic Health Record and Telemedicine, improving patient monitoring and facilitating more accurate diagnoses. What are you waiting for to enroll?

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing 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 education programmed to prepare for real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it relies on an enormous faculty of more than 6,000 professors of the highest international renown.

Study at the world's largest online university and guarantee your professional success. The future starts at TECH"

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.

Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.

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Syllabus

This syllabus will combine theoretical knowledge of hematology physiology, disease and treatments with the development of practical skills in the management of advanced techniques such as chemotherapy and bone marrow transplant. In addition, essential areas such as prevention, diagnosis, palliative care and patient safety management will be included. Topics related to healthcare ethics, clinical research and digital transformation will also be covered, enabling nurses to integrate technological tools and actively participate in scientific advances.

Upon completion, you will be better prepared to lead multidisciplinary teams, participate in clinical research and contribute significantly to improving health outcomes in Hematology"

Module 1. Hematology Patients in Nursing

1.1. Hematologic Disease. Immune Reactions and Inflammation
- 1.1.1. Hematologic Diseases
- 1.1.2. Immune System in Hematologic Diseases
- 1.1.3. Inflammatory Process in Hematologic Diseases
- 1.1.4. Immune Reactions in Hematologic Diseases
- 1.1.5. Inflammation in Hematologic Diseases

1.2. Hematological System Assessment
- 1.2.1. Hematological System Physiology
- 1.2.2. Blood Groups
- 1.2.3. Key Signs and Symptoms in Emergencies

1.3. Alteration of Cell Growth: Cancer
- 1.3.1. Molecular Basis of Cancer
- 1.3.2. Cell Biology of Cancer
- 1.3.3. Molecular and Cytogenetic Diagnostic Techniques

1.4. Erythrocyte Disorders
- 1.4.1. Structure and Function of Erythrocytes
- 1.4.2. Erythropoiesis
- 1.4.3. Anemias, Polycythemia and Morphological and Functional Alterations of Erythrocytes
- 1.4.4. Diagnosis and Assessment of Erythrocyte Disorders

1.5. Leukocyte Disorders
- 1.5.1. Physiology and Function of Leukocytes
- 1.5.2. Leukopenia, Leukocytosis and Leukocyte Neoplasms
- 1.5.3. Diagnosis and Assessment of Leukocyte Disorders

1.6. Coagulation Disorders
- 1.6.1. Coagulation Physiology
- 1.6.2. Bleeding Disorders
- 1.6.3. Thromboembolic Disorders
- 1.6.4. Diagnosis and Assessment of Coagulation Disorders

1.7. Nursing in the Hematology Department
  1.7.1. Treatment Protocol for Hematologic Diseases
  1.7.2. Specialized Care in Hematology
  1.7.3. Monitoring of Emergency Signs and Symptoms in Hematologic Diseases
1.8. Assessment of Patients with Chronic Diseases: Pain
  1.8.1. Pain Assessment
  1.8.2. Impact of Pain on Quality of Life
  1.8.3. Pain Management
  1.8.4. The Role of Nursing in Pain Assessment and Management
1.9. Adaptation and Coping with Hematologic Diseases
  1.9.1. Development of Positive Coping Mechanisms
  1.9.2. Support Networks and Effective Communication
  1.9.3. Adaptation to Lifestyle Changes
  1.9.4. Patient Education and Empowerment
1.10. Pediatric Hematology. Non-Malignant and Malignant Diseases in Children
  1.10.1. Pediatric Hematology
    1.10.1.1. Diagnosis and Laboratory Tests
    1.10.1.2. Nursing Care
    1.10.1.3. Research and Advances
  1.10.2. Malignant Disease
    1.10.2.1. Childhood Leukemia
    1.10.2.2. Pediatric Lymphoma
    1.10.2.3. Solid Hematologic Tumors
    1.10.2.4. Management and Treatment of Malignant Disease
  1.10.3. Non-Malignant Disease
    1.10.3.1. Anemias
    1.10.3.2. Coagulation Disorders
    1.10.3.3. Autoimmune Diseases
    1.10.3.4. White Blood Cell Disorders

Module 2. Hematological Prevention, Diagnosis and Treatment in Nursing

2.1. Prevention of Hematologic Diseases
  2.1.1. Environmental Factors
  2.1.2. Lifestyles: Stress Reduction. Diet
  2.1.3. Vaccines and Infection Prevention
  2.1.4. Periodic Medical Check-Ups. Early Symptom Detection
  2.1.5. Education and Awareness
  2.1.6. Genetic Counseling and Screening Tests
  2.1.7. Adequate Management of Chronic Diseases. Vulnerable Populations
2.2. Prevention of Hematologic Diseases
  2.2.1. Personal and Family History
  2.2.2. Reason for Consultation and Current Disease
  2.2.3. System Review
  2.2.4. Blood Transfusions and Medication
  2.2.5. Exposure to Risk Factors
  2.2.6. Physical Examination
2.3. Diagnostic Assessment: Medical Tests
  2.3.1. Laboratory Tests
  2.3.2. Bone Marrow Biopsy
  2.3.3. Bone Marrow Aspiration
  2.3.4. Genetic and Molecular Studies
  2.3.5. Imaging Tests
2.4. Interventions for Patients with Hematologic Disorders: Anemias
  2.4.1. Hereditary Anemias
  2.4.2. Acquired Anemias
  2.4.3. Hemolytic Anemias
2.5. Interventions for Patients with Hematologic Disorders: Leukaemias
  2.5.1. Acute Lymphoblastic Leukemia in Adults (ALL)
  2.5.2. Chronic Lymphocytic Leukemia (CLL)
  2.5.3. Acute Myeloid Leukemia (AML)
  2.5.4. Chronic Myeloid Leukemia (CML)
  2.5.5. Adult T-cell Leukemia (ATL)

2.6. Interventions for Hematology Patients: Coagulation Disorders
- 2.6.1. Bleeding Disorders (Hypocoagulability)
- 2.6.2. Thrombotic Disorders (Hypercoagulability)
- 2.6.3. Mixed Coagulation Disorders

2.7. Management of Patients with Bleeding Disorders
- 2.7.1. Assessment and Diagnosis
- 2.7.2. Management of Hemorrhages
- 2.7.3. Pharmacological Treatments
- 2.7.4. Nursing Care in Bleeding Disorders
- 2.7.5. Intervention in Special Situations

2.8. Hemotherapy. Allogeneic Hematopoietic Stem Cell Transplantation (Allo-HSCT)
- 2.8.1. Hematopoietic Stem Cell Transplantation
- 2.8.2. Donation and Collection Process
- 2.8.3. Preparing the Patient for Transplantation
- 2.8.4. Transplantation Procedure
- 2.8.5. Complications and Post-Transplantation Management
- 2.8.6. Nursing Care in Allogeneic Hematopoietic Stem Cell Transplantion

2.9. Therapies: Cytostatics, Radiotherapy, Immunotherapy
- 2.9.1. Cytostatics
  - 2.9.1.1. Mechanisms of Action of Cytostatics
  - 2.9.1.2. Side Effects and Management of Cytostatics
  - 2.9.1.3. Cytostatic Administration Protocol
  - 2.9.1.4. Resistance to Cytostatics
  - 2.9.1.5. New Developments and Emerging Drugs
- 2.9.2. Radiotherapy
  - 2.9.2.1. Treatment Planning
  - 2.9.2.2. Side Effects of Radiotherapy
  - 2.9.2.3. Radiotherapy in Hematology
- 2.9.3. Immunotherapy
  - 2.9.3.1. Types of Immunotherapy
  - 2.9.3.2. Adverse Effects and Management
  - 2.9.3.3. Immunotherapy in Hematology

2.10. Pediatric Hematology
- 2.10.1. Pediatric Hematology
- 2.10.2. Hematologic Diseases in Pediatrics
- 2.10.3. Diagnosis and Treatment of Hematologic Diseases
- 2.10.4. Nursing Care in Pediatric Hematology

Module 3. Hematology Nursing Care Plans

3.1. Drug Administration
- 3.1.1. Routes of Administration of Chemotherapy and Immunotherapy
- 3.1.2. Types of Chemotherapy and Immunotherapy
- 3.1.3. Most Common Adverse Reactions
- 3.1.4. Management of Cytostatic Extravasation
- 3.1.5. Safe Preparation and Handling of Drugs

3.2. Administration of Blood Products
- 3.2.1. Types of Blood Products
- 3.2.2. Acute and Delayed Transfusion Reactions
- 3.2.3. Special Considerations: Pediatric and Geriatric Patients and Patients with Cardiovascular Diseases

3.3. Nursing Approach to the Nutrition of Hematology Patients
- 3.3.1. Changes in Intake
- 3.3.2. Assessment of Nutritional Status
- 3.3.3. Management of Digestive Disorders
- 3.3.4. Nutritional Support: Enteral and Parenteral

3.4. Care of the Skin and Mucous Membranes in the Care Process
- 3.4.1. Alterations of the Skin and Cutaneous Mucous Membranes
- 3.4.2. Prevention and Management
- 3.4.3. Psychosocial and Aesthetic Impact on Skin Disorders

3.5. Emergency Situations in Hematology Patients
- 3.5.1. Immunological Complications
- 3.5.2. Neutropenic Sepsis
- 3.5.3. Hemorrhagic Complications
- 3.5.4. Major Hemorrhage
- 3.5.5. Severe Thrombocytopenia

3.5.6. Acute Anemia
3.5.7. Metabolic Complications
3.5.7.1. Hypercalcemia
3.5.7.2. Tumor Lysis Syndrome
3.5.8. Vascular Complications
3.5.8.1. Hyperleukocytosis
3.5.8.2. Complications of Sickle Cell Disease
3.6. Hematopoietic Stem Cell Transplantation (HSCT)
3.6.1. Differences between Autologous and Allogeneic HSCT. Types e Indicators
3.6.2. Donor Selection and Inclusion Criteria
3.6.3. Obtaining Hematopoietic Stem Cells. Mobilization and Apheresis
3.6.4. Setting Up
3.6.5. Stem Cell Infusion
3.6.6. Post-Transplantion Phase: Follow-up and Care
3.7. Nursing Care in Hematopoietic Stem Cell Transplantation (HSCT)
3.7.1. Pre-transplant Preparation and Conditioning
3.7.2. Nursing Care During Stem Cell Infusion
3.7.3. Management of Post-Transplantion Aplasia
3.7.4. Complications in Stem Cell Transplantation
3.7.5. Graft-Versus-Host Disease (GVHD)
3.7.6. Complications caused by the Toxicity of the Conditioning Treatment
3.7.7. Infectious Complications
3.7.8. Infection Prevention in Hematopoietic Stem Cell Transplantation
3.8. CAR-T Cell Therapy
3.8.1. CAR-T Cell Therapy. Indications
3.8.2. Therapy Process. Obtaining CAR-T Cells
3.8.3. Possible Secondary Effects
3.8.4. Challenges for the Future
3.9. Psychological Approach to CAR-T Cell Therapy
3.9.1. Psychological Impact of Diagnosis and Treatment
3.9.2. Interventions in the Psychological Approach
3.9.3. Support as Part of the Holistic Process
3.10. Physical and Emotional Complications for the Patient and Family in CAR-T Cell Therapy
3.10.1. Management of Chronic Pain and Fatigue
3.10.2. Addressing Body Image Disturbances
3.10.3. Preventing Burnout in the Primary Caregiver

Module 4. Patient Safety in Hematology Nursing

4.1. Context and Components of Patient Safety in Hematology
4.1.1. Context of Patient Safety
4.1.2. "To Err is Human" Report
4.1.3. Taxonomy of Patient Safety
4.1.4. Concern for Patient Safety at the International Level
4.1.5. Nine Solutions for Patient Safety According to the WHO
4.1.6. Challenges and Improvement of Patient Safety
4.2. Prevention and Notification of Incidents: Adverse Events. Second Victims
4.2.1. Incident Reporting Systems. Structure
4.2.2. Medical Error: Crisis Management
4.2.3. Patient Information
4.2.4. Second Victims
4.3. Safe Clinical Practice. Non-Safety Costs in the Hematology Department
4.3.1. Internationally Recommended Safe Clinical Practices
4.3.2. Costs of Non-Patient Safety
4.3.3. The Culture of Patient Safety
4.4. Patient Safety in the Hematology Department. Importance of the Nurse
4.4.1. Nursing Staff as a Key Element in Patient Safety
4.4.2. Adverse Events in Nursing Practice
4.4.3. Burnout Syndrome as a Cause of Adverse Events
4.4.4. Safety in Hospital Services
4.5. Prevention of Healthcare-Associated Infection in the Hematology Department
4.5.1. Healthcare-Associated Infections (HAIs)
4.5.2. Transmission Mechanisms of HAIs
4.5.3. Environmental Biosafety
4.5.4. Endemic and Epidemic Infections
4.6. Hand Hygiene in the Hematology Department
4.6.1. Healthy Skin. Microorganisms: Skin Flora
4.6.2. The WHO's 5 Moments
4.6.3. Hygienic Washing vs. Washing by Friction
4.6.4. General Recommendations: Skin Care
4.6.5. Hand Hygiene Technique
4.6.6. Correct Use of Gloves

4.7. Antimicrobial Resistance in the Hematology Department
- 4.7.1. Safe Use of Medications
- 4.7.2. Antimicrobials and Classification
- 4.7.3. Antimicrobial Resistance
- 4.7.4. Antimicrobial Resistant Microorganisms
- 4.7.5. Antimicrobial Resistance. Control Strategies

4.8. Nursing Safety Rounds in the Hematology Department
- 4.8.1. Objectives of Patient Safety Rounds
- 4.8.2. Implementation of Patient Safety Rounds in the Hematology Department
- 4.8.3. Methodology: Scheduling, Preparation for the visit and Completion. *Feedback*
- 4.8.4. Checklist in the Rounds

4.9. Informed Consent in the Context of Data Protection
- 4.9.1. Components of Informed Consent. Revocation
- 4.9.2. The Nurse's Role in Informed Consent
- 4.9.3. Special Situations in Informed Consent

4.10. Therapeutic Effort Limitation
- 4.10.1. Reasons for Limiting Therapeutic Effort. Difficulties and Decision Making
- 4.10.2. Therapeutic Effort Limitation: Professionals and Patients
- 4.10.3. Ethical Framework

Module 5. Palliative Care for Patients with Hematological Cancer

5.1. Palliative Care for Terminally Ill Patients with Hematological Cancer
- 5.1.1. Palliative Care for Terminally Ill Patients with Hematological Cancer
- 5.1.2. Current Palliative Care
- 5.1.3. Quality of Life in Palliative Care

5.2. Recurrence: Treatment Options for Hematological Cancer
- 5.2.1. Types of Recurrence in Hematological Cancer
- 5.2.2. Treatment Options for Recurrences in Hematological Cancer
- 5.2.3. Palliative Care from the Onset of Recurrence to Manage Symptoms and Improve the Quality of Life of the Onco-Hematological Patient

5.3. Comprehensive Nursing Plan for the Palliative Patient with Hematological Cancer
- 5.3.1. Assessment of Physical Symptoms: Assessment, Control and Monitoring
- 5.3.2. Emotional Appraisals
- 5.3.3. Socio-Family, Cognitive, Functional and Spiritual Assessment

5.4. End of Life: Well-being and Dignity in the Patient with Hematological Cancer from the Nursing Service
- 5.4.1. Difference between Palliative Care and Terminal Care
- 5.4.2. Care in the Final Stage of Life. Compassionate Accompaniment
- 5.4.3. Emotional and Spiritual Care
- 5.4.4. Emotional and Bereavement Support for the Family

5.5. Scales for Assessing Palliative Needs in Children, Adolescents and Adults with Hematological Cancer
- 5.5.1. Assessment Scales for Hematological Patients in Palliative Care
- 5.5.2. Specific Tools for Symptom Assessment
- 5.5.3. Assessment Adapted to Different Stages of Life

5.6. Nursing Care for Palliative Patients with Hematological Cancer
- 5.6.1. Signs and Symptoms in the Terminally Ill Patient
- 5.6.2. Pharmacological Approach in Palliative Care
- 5.6.3. Non-Pharmacological Approach

5.7. Refractory Symptoms in Palliative Care in Patients with Hematological Cancer
- 5.7.1. Refractory Symptoms and Other Common Symptoms
- 5.7.2. Interventions and Management
- 5.7.3. Care in the Hematological Context

5.8. Nursing Care during the Terminal Phase and the Situation in the Final Days of Patients with Hematological Cancer
- 5.8.1. Agony Phase or Situation in the Final Days
- 5.8.2. Palliative Sedation and Comfort Care
- 5.8.3. Role of the Multidisciplinary Team

5.9. Palliative Care Services at Different Health Levels
- 5.9.1. Evolution of Palliative Care Teams (PCTs)
- 5.9.2. Care Network: Hospital versus Home Care
- 5.9.3. Integration of Palliative Care in Primary, Secondary and Tertiary Care

5.10. Psychosocial Aspects of Palliative Care in Patients with Hematological Cancer
- 5.10.1. Impact on the Family and Caregivers of Patients with Hematological Cancer
- 5.10.2. Family Claudication
- 5.10.3. Comprehensive Care: Fostering, Caring and Accompanying
- 5.10.4. Cultural and Spiritual Aspects
- 5.10.5. Communicating Bad News: Objectives of Nursing Staff

Module 6. Ethics in the Practice of Hematology Nursing

6.1. Bioethics
- 6.1.1. Background of Bioethics
- 6.1.2. Fundamentals in Bioethics
- 6.1.3. Political, Social, Economic and Cultural Events of the 20th Century that Contributed to the Development of Bioethics

6.2. Ethical Principles Focused on the Hematology Patient
- 6.2.1. Autonomy
- 6.2.2. Beneficence
- 6.2.3. Justice
- 6.2.4. Non-Maleficence

6.3. Hematology Patient Autonomy and Shared Decision Making
- 6.3.1. International Convention on Human Rights and Biomedicine
- 6.3.2. International Covenant on Economic, Social and Cultural Rights
- 6.3.3. International Laws on Patient Autonomy

6.4. Right to Information in the Healthcare Environment of the Hematology Patient
- 6.4.1. Patient Rights
- 6.4.2. Right to Information in the Healthcare Field
- 6.4.3. Role of the Nursing Professional: Patient Confidentiality

6.5. Advance Directives and Living Wills in Relation to Healthcare
- 6.5.1. Advance Directives and Living Wills of the Hematology Patient
- 6.5.2. Living Will and Advance Directives of the Hematology Patient
- 6.5.3. Ethical Dilemmas in the Application of Living Wills

6.6. Euthanasia in the Hematology Patient
- 6.6.1. Euthanasia in the Hematology Patient
- 6.6.2. International Laws and Regulatory Bases
- 6.6.3. Right to Conscientious Objection

6.7. Blood Transfusions in the Treatment of Hematology Patients
- 6.7.1. Administration of Blood Transfusions in Hematology Patients
- 6.7.2. International Regulations on the Administration of Blood Transfusions
- 6.7.3. Religious Beliefs and Their Impact on the Refusal of Blood Transfusions

6.8. Refusal of Treatment in Hematology Patients
- 6.8.1. International Legislation on the Right to Refuse Treatment
- 6.8.2. Refusal of Treatment in Vulnerable Patients
- 6.8.3. Ethical and Legal Implications in Critical Situations

6.9. International Committees on Clinical Research and Healthcare Ethics
- 6.9.1. International Experiences in Clinical Consulting
- 6.9.2. Deliberation in International Committees on Healthcare Ethics: Courses of Action
- 6.9.3. International Clinical Research Committees

6.10. Responsibility in the Nursing Profession
- 6.10.1. International Regulations on Professional Practice
- 6.10.2. The Importance of Ethics and Legislation in Nursing
- 6.10.3. Challenges and Opportunities in Nursing Responsibility

Module 7. Relationship with the Hematology Patient

7.1. Humanization of Hematology Patient Care in Nursing
- 7.1.1. Humanization, Therapeutic Relationship
- 7.1.2. Evolution of the Nurse-Patient Relationship
- 7.1.3. Importance of Humanization in Nursing Care

7.2. Humanization Tools and Techniques in Daily Nursing Practice
- 7.2.1. Active Listening
- 7.2.2. Verbal and Non-Verbal Communication
- 7.2.3. Impact of Empathy on the Relationship with the Patient

7.3. Models of Nurse-Patient Bonding and Relationship
- 7.3.1. Nursing Models
- 7.3.2. Holistic Model of Care
- 7.3.3. Traditional and Humanized Models. Comparison
- 7.3.4. Nurse-Patient Relationship in Today's Nursing

7.4. Humanized Environments (I): Grief and Support for Hematology Patients in the Nursing Department
- 7.4.1. Stages of Grief
- 7.4.2. Physical and Emotional Consequences
- 7.4.3. Importance of Grief Support

7.5. Humanized Environments (II): Relationship between the Health Team, Patient and Family
- 7.5.1. Role of the Patient in Shared Decision Making
- 7.5.2. Impact of the Disease on the Family
- 7.5.3. Communication between the Health Team, the Patient and the Family

7.6. Support Network and Resources for the Well-being and Satisfaction of Patients and Families
- 7.6.1. Family Therapy and Support Groups
- 7.6.2. Strategies for Emotional Support for Families
- 7.6.3. Support Networks and Resources

7.7. Nurse-Hematology Patient Relationship in Terminal Situations. Personalized Care
- 7.7.1. Nurse-Hematology Patient Relationship in Terminal Situations
- 7.7.2. Management of Patient Needs
- 7.7.3. Compassionate and Personalized Care

7.8. Care Burden and Impact on the Nurse-Patient Relationship in Care
- 7.8.1. Care Burden
- 7.8.2. Dehumanization in Health Systems
- 7.8.3. Impact of Care Burden on Quality of Care

7.9. Self-Care in Nursing Professionals: Stress and Emotion Management in Multidisciplinary Teams
- 7.9.1. Time Management Techniques
- 7.9.2. Prioritization of Tasks and Care
- 7.9.3. Fostering Teamwork and Interdisciplinary Collaboration
- 7.9.4. Training in Stress Management Skills

7.10. Self-Care Strategies in Nursing Professionals
- 7.10.1. Strategies for Self-Help and Self-Care
- 7.10.2. Working in Humanized Hospital Environments
- 7.10.3. Importance of Supervision and Support
- 7.10.4. Implementation of Healthy Boundaries

Module 8. Digital Transformation in the Hematology Department in Nursing

8.1. Electronic Health Records (EHR) for Hematology Patients
- 8.1.1. Implementation and Management of Electronic Health Records (EHR)
- 8.1.2. Benefits and Challenges of Electronic Health Records (EHR) in Hematology
- 8.1.3. Data Security and Privacy in Electronic Health Records (EHR)

8.2. Telemedicine and Teleconsultation in the Hematology Department
- 8.2.1. Use of Telemedicine in the Follow-up of Hematology Patients
- 8.2.2. Tools and Platforms for Teleconsultations
- 8.2.3. Success Stories and Best Practices

8.3. Artificial Intelligence and Big Data in the Nursing Department
- 8.3.1. Applications of AI in the Diagnosis and Treatment of Hematologic Diseases
- 8.3.2. Analysis of Large Volumes of Data for Research and Improvement of Treatments
- 8.3.3. Ethics and Use of AI and Big Data in Healthcare

8.4. Remote Monitoring of Hematology Patients by Nurses
- 8.4.1. Devices and Technologies for Remote Monitoring
- 8.4.2. Integration of Monitoring Data in Clinical Practice
- 8.4.3. Impact on the Quality of Life of Hematology Patients

8.5. 3D Printing and Simulation Models for Nursing Service Training
- 8.5.1. Bioprinting: Current and Future Applications in Hematology
- 8.5.2. Use of 3D printing in the Creation of Anatomical Models for Treatment Planning
- 8.5.3. Virtual Simulations for the Education and Training of Nursing Staff

8.6. Mobile Apps and mHealth for Monitoring Hematology Patients
- 8.6.1. Development and Use of Mobile Applications for the Monitoring of Hematology Patients
- 8.6.2. Evaluation of the Effectiveness of Health Apps in Hematology
- 8.6.3. Health Promotion and Patient Education through mHealth

8.7. Gamification in Education and Treatment Adherence in the Hematology Department
- 8.7.1. Use of Gamification Techniques to Improve Adherence to Treatment
- 8.7.2. Educational Games and Applications for Patients and Healthcare Professionals
- 8.7.3. Future Trends in Gamification

8.8. Augmented Reality (AR) and Virtual Reality (VR) for the Treatment of Hematologic Diseases from the Nursing Department
  8.8.1. AR Applications in Nursing Training
  8.8.2. VR Applications in Nursing Training
  8.8.3. Use of AR and VR for the Visualization of Complex Procedures
8.9. Cybersecurity in Healthcare
  8.9.1. Principle of Cybersecurity in the Healthcare Environment
  8.9.2. Cybersecurity Practices in the Healthcare Environment
  8.9.3. Protection of Patient Information and Regulatory Compliance
8.10. Future Trends in Digital Transformation in the Hematology Department
  8.10.1. Emerging Innovations and their Potential Impact
  8.10.2. Preparing Nursing Staff to Adapt to New Technologies
  8.10.3. Automation of Clinical Processes in Hematology

Module 9. Research and Clinical Trials in Hematology Nursing

9.1. Phases in the Development of a Drug
  9.1.1. Discovery and Development
  9.1.2. Preclinical and Clinical Phase
  9.1.3. Registration, Launch and Monitoring
  9.1.4. Post-Launch Actions
9.2. Clinical Trials in Hematology
  9.2.1. Clinical Trials
  9.2.2. Multidisciplinary Team
  9.2.3. Responsibilities of the Research Team
9.3. Classification of Clinical Trials in Hematology
  9.3.1. Types of Clinical Trials in Hematology
  9.3.2. Phases of Clinical Trial (CT)
  9.3.3. Representation of the Current Situation
9.4. International Regulation of Clinical Trials
  9.4.1. Specific and Current International Legislation
  9.4.2. The Declaration of Helsinki and Standardized Procedures for Good Clinical Practice
  9.4.3. International Regulatory Framework
9.5. Clinical Trials Management in the Hematology Department
  9.5.1. Origin of a Clinical Trial
  9.5.2. Screening, Recruitment and Inclusion of Patients
  9.5.3. Contractual Relationship between the Subjects of the Trial
  9.5.4. Early Termination or Suspension of the Clinical Trial
9.6. Monitoring of Clinical Trials (CT) in Hematology
  9.6.1. Monitoring Objectives
  9.6.2. Deviations
  9.6.3. Pharmacovigilance in Clinical Trials
9.7. Follow-up of Patients in Clinical Trials in Hematology
  9.7.1. Data Collection and Management
  9.7.2. Data Protection and Confidentiality
  9.7.3. Strategies for Keeping Patients in Clinical Trials
9.8. Observational Studies in Hematology
  9.8.1. Observational Studies in Hematology
  9.8.2. Current Status of Clinical Trials
  9.8.3. Clinical Trials vs. Observational Studies
9.9. Financial Implications of Clinical Research
  9.9.1. Economic Impact of Clinical Trials (CT) on the Health System
  9.9.2. Economic Analysis of Clinical Trials: Costs and Benefits
  9.9.3. Funding of Clinical Trials
9.10. Audits and Inspections: Pillars of Clinical Trial Integrity
  9.10.1. Clinical Research Ethics Committee
  9.10.2. Difference between Audit and Inspection
  9.10.3. Objectives of Inspections and Audits

Module 10. Update on the Hematology Nursing Department

10.1. Update on the Hematology and Hemotherapy Department
- 10.1.1. Structure of a Hematology and Hemotherapy Unit
  - 10.1.1.1. Cytostatic Preparation Cabinet
  - 10.1.1.2. Transplant Unit
  - 10.1.1.3. Blood Bank
  - 10.1.1.4. Negative Pressure Rooms
  - 10.1.1.5. Medication Preparation Area
  - 10.1.1.6. Laboratory
- 10.1.2. Roles and Responsibilities in the Multidisciplinary Team in a Hematology Unit
- 10.1.3. Innovative Teaching and Learning Strategies in Hematology

10.2. Update on the Role of the Nursing Unit in the Hematology Department
- 10.2.1. Update on the Role of the Nursing Unit in the Hematology and Hemotherapy Department
- 10.2.2. Common Nursing Techniques in the Hematology Department
- 10.2.3. Responsibilities of Nursing Professionals in the Hematology and Hemotherapy Department

10.3. Standardized Protocols for Procedures to Improve Efficiency and Quality in the Hematology Department
- 10.3.1. Protocols for Administration of Chemotherapy
- 10.3.2. Protocols for Central and Peripheral Catheter Care
- 10.3.3. Protocols for Blood Sample Collection
- 10.3.4. Protocols for Post-Bone Marrow Transplant Care

10.4. Importance of the Nursing Approach to the Efficiency and Quality of the Hematology Service and Opportunities for Improvement
- 10.4.1. Critical Points and Margins for Improvement in Efficiency and Quality in the Hematology Department
- 10.4.2. Professional Development and Empowerment of a Hematology Nurse
- 10.4.3. Key Strategies for the Prevention of Complications in the Hematology and Hemotherapy Department

10.5. Intra-Hospital Support Services Referrals from the Nursing Department to Other Services and Specialties
- 10.5.1. Resolution of Referrals
- 10.5.2. Supervision of the Treatment and Transfusion of Blood Products
- 10.5.3. Resolution and Education in the Management of Hematologic Complications

10.6. Teamwork in the Hematology Nursing Department to Improve Efficiency and Quality in Patient Care
- 10.6.1. Nursing Teamwork in the Hematology Department to Improve Efficiency and Quality of Performance
- 10.6.2. Nursing Teamwork Strategies in the Hematology Department
- 10.6.3. Interdisciplinary Communication as a Key Element for Teamwork Among Nursing Professionals

10.7. Update on the Hematology Day Hospital
- 10.7.1. Structure of the Hematology Day Hospital
- 10.7.2. Functioning of the Hematology Day Hospital
- 10.7.3. Benefits of the Hematology Day Hospital

10.8. Clinical Sessions in Hematology. Methodology
- 10.8.1. Clinical Sessions in Hematology
- 10.8.2. Purpose of Clinical Sessions in Hematology
  - 10.8.2.1. Case Analysis to Optimize Therapeutic Decisions
- 10.8.3. Methodology for Building an Effective Clinical Session

10.9. Support Associations for Patients with Hematological Cancer
- 10.9.1. Association Types
- 10.9.2. Functions of Support Associations for Patients with Hematological Cancer
- 10.9.3. Impact of Associations on Patients and their Families

10.10. Update on Oncohematological Nursing Consultations
- 10.10.1. Update on Oncohematological Nursing Consultations
- 10.10.2. Common Procedures in Oncohematological Nursing Consultations
- 10.10.3. Health Education in the Hematology Department

04

Teaching Objectives

The university program will develop advanced skills in clinical evaluation, interpretation of diagnostic tests, planning and implementation of personalized care, as well as the management of complex treatments such as chemotherapy and bone marrow transplantation. In addition, training in prevention, education for patients and their families, and the strengthening of ethical and communication skills will be encouraged. Professionals will also be instructed in the use of digital technologies, clinical research and leadership in interdisciplinary teams, promoting an innovative and evidence-based approach that improves the quality of care and outcomes in Hematology.

The main objective of the Professional Master's Degree will be to prepare highly qualified professionals to provide specialized and comprehensive care to patients with hematological diseases"

General Objectives

- Develop specific clinical skills in the management of hematology patients
- Generate specialized knowledge about hematologiy patients, from the prevention of diseases to their assessment, diagnosis and treatment
- Develop advanced knowledge about pediatric hematology and analyze the differences with hematology in adults
- Determine the clinical management of hematology patients through the application of care plans that include the safe administration of drugs, blood products and adequate nutritional support
- Qualify nursing staff to detect and act on frequent complications and emergencies in hematology patients
- Develop a comprehensive and specialized approach to the care of patients undergoing Hematopoietic Stem Cell Transplantation, both Allogeneic and Autologous
- Generate emotional and psychological support in the care of hematology patients, through the implementation of basic interventions and accompaniment
- Examine international strategies to promote patient safety
- Determine the elements of risk management and patient safety promotion
- Develop care strategies that enable the provision of quality palliative care to hematology patients
- Strengthen the ability to evaluate and manage complex situations such as refractory symptoms or familial claudication
- Analyze the development to the present day of palliative care and understand the different options available to hematology patients
- Underpin the concepts of humanization in nursing care for hematology patients
- Foster the development of communication, emotional and ethical skills in nursing professionals
- Establish care practices that place the patient and their family at the center of the care process
- Identify key technologies and their application in the Hematology Department
- Train professionals to perform the role of nursing in clinical trials, both at the research and care level
- Establish the basis for good clinical practice in the field of hematology clinical trials (CT)
- Examine the structure, functioning and role of nursing staff in hematology units
- Develop skills for the comprehensive care of hematology patients both in outpatient and inpatient settings

You will be able to identify the risk factors of hematologic diseases and apply effective preventive measures, through the best teaching materials, at the technological and academic forefront"

Specific Objectives

Module 1. Hematology Patients in Nursing

- Acquire fundamental knowledge of the physiology and pathology of blood and hematopoietic organs
- Identify and describe the main hematologic diseases, both malignant and non-malignant, in pediatric and adult patients
- Perform complete and accurate clinical assessments of patients with hematologic diseases
- Correctly interpret the results of hematology-related diagnostic and laboratory tests
- Plan and implement individualized care plans for patients with hematologic diseases
- Apply advanced nursing techniques for the management of symptoms and side effects of hematological treatments, such as chemotherapy and bone marrow transplantation

Module 2. Hematological Prevention, Diagnosis and Treatment in Nursing

- Identify the risk factors and preventive measures for hematologic diseases in order to reduce their incidence in the population
- Apply clinical assessment techniques and specific diagnostic tests in patients with suspected hematologic diseases
- Analyze and compare the different treatments available for hematologic diseases, including conventional and advanced therapies
- Distinguish the characteristics of pediatric hematology, identifying the key differences with hematology in adults for an adequate management in each age group
- Resolve doubts and frequent clinical cases that arise in daily practice, improving evidence-based clinical decision making
- Develop skills in education and support for patients and their families, facilitating understanding of the disease and promoting adherence to treatment

- Strengthen the role of nursing in the prevention, diagnosis and treatment of hematologic diseases, highlighting specific interventions in different clinical settings
- Promote safe and quality practices in the management of hematology patients, including infection prevention measures and safe administration of medication
- Update knowledge on scientific and technological advances in hematology that can improve clinical outcomes and quality of care
- Foster interdisciplinary collaboration, integrating healthcare teams for a comprehensive approach to hematology patients

Module 3. Hematology Nursing Care Plans

- Develop skills to apply different types of chemotherapy and blood products effectively and safely
- Implement specific care strategies for hematology patients with a focus on nutritional assessment, management of digestive disorders and nutritional support
- Strengthen the ability to respond to emergency situations in hematology patients
- Develop specialized skills to provide comprehensive care to patients undergoing HSCT
- Propose effective interventions to address the emotional impact of diagnosis, providing support and accompaniment during the different phases of the disease

Module 4. Patient Safety in Hematology Nursing

- Standardize concepts and use the same language in patient safety
- Analyze the real impact of healthcare liability
- Examine the main transformations that have taken place in healthcare practice
- Analyze the economic scope of the consequences of patient safety issues
- Define strategies for the prevention and control of healthcare-associated infections
- Establish the incident reporting tool as a system designed to identify the most frequent problems and learn from mistakes

Module 5. Palliative Care for Patients with Hematological Cancer

- Implement comprehensive assessment techniques to identify and monitor the main refractory symptoms in hematology patients
- Establish personalized care plans that include pharmacological and non-pharmacological interventions
- Develop effective and compassionate communication in the transmission of bad news, ensuring that the patient and their family understand the therapeutic options and the prognosis of the disease
- Apply support strategies for both the patient and their family members, offering an appropriate end of life

Module 6. Ethics in the Practice of Hematology Nursing

- Understand and apply the fundamental ethical principles (autonomy, beneficence, non-maleficence and justice) in the care of patients with hematologic diseases
- Develop skills in the management of informed consent, ensuring that patients clearly understand the risks, benefits and alternatives of treatments
- Manage ethical dilemmas related to the use of advanced and experimental treatments, such as bone marrow transplants, immunotherapy or gene therapies
- Be able to resolve ethical conflicts between multidisciplinary teams, patients and their families
- Provide specific knowledge about the functioning of healthcare ethics and clinical research committees, knowing their functions and processes

Module 7. Relationship with the Hematology Patient

- Develop interpersonal skills in order to establish effective and comprehensive communication with hematology patients, their families and the multidisciplinary team
- Identify the emotional and psychological needs of hematology patients and their families and offer strategies to support them during difficult times
- Develop skills to manage stress and healthcare burdens, promoting knowledge of self-care techniques and the well-being of nursing staff
- Study in depth the evolution of humanization models in the health system and create work environments that allow the patient to be assessed from a holistic point of view
- Analyze the stages and manifestations of critical situations in vulnerable patients, training nursing staff to offer support, interventions and support groups

Module 8. Digital Transformation in the Hematology Department in Nursing

- Educate students in the use and management of advanced digital technologies, such as the Digital Health Record (DHR), telemedicine and remote monitoring devices
- Promote the integration of Artificial Intelligence (AI) tools and Big Data analysis in clinical practice, facilitating more accurate diagnoses and personalized treatments
- Use 3D printing models and virtual simulations for treatment planning and continuing education
- Provide guidance on best practices in cybersecurity, ensuring the protection of patient data and compliance with current regulations

Module 9. Research and Clinical Trials in Hematology Nursing

- Enable students to design, execute and coordinate clinical trials in Hematology
- Develop the skills necessary to monitor and control a clinical trial in Hematology
- Evaluate how international regulations affect the process, development, approval and commercialization of new treatments and therapies
- Promote the integration of research into healthcare practice

Module 10. Update on the Hematology Nursing Department

- Acquire autonomy in the management of hematology patients and in clinical decision making
- Promote health education in the patient and family on the care necessary for the care of the hematology patient
- Implement and maintain up-to-date care protocols based on the most common techniques of a Hematology Unit

05

Career Opportunities

Professionals will be able to access specialized positions in hospitals and health centers, where they can work as nurses in Hematology Units, lead work teams as Nursing Coordinators or take on roles in palliative care for patients with advanced hematologic diseases. In addition, they will have the opportunity to get involved in clinical research, participating in trials and studies related to innovative treatments. They will also be able to work in patient and family education and support, as well as in areas of quality and patient safety, contributing to the design and implementation of protocols and best practices in the treatment of hematologic diseases.

The career opportunities of a Professional Master's Degree in Hematology Nursing will be diverse and will offer you ample opportunities in the healthcare field"

Graduate Profile

Graduates will have in-depth knowledge of the physiology and pathology of blood and hematopoietic organs, as well as the management of complex treatments such as chemotherapy, bone marrow transplants and other advanced therapeutic approaches. They will also have the skills to carry out accurate clinical assessments, interpret diagnostic test results and design personalized care plans. In addition, their profile will include skills in effective communication with patients and families, the management of emotional and ethical situations, and the ability to work in interdisciplinary teams.

You will be able to get involved in innovative studies on new therapies, treatments and approaches in the management of hematologic diseases, contributing to the advancement of knowledge in this field.

- **Ability to Work in an Interdisciplinary Team:** Collaborate effectively with professionals from different disciplines (hematologists, oncologists, nutritionists, psychologists, among others) to offer comprehensive and coordinated care to the hematological patient, improving clinical outcomes and quality of care
- **Effective Communication Management:** Develop skills to establish clear, empathetic and effective communication with patients and their families, facilitating understanding of treatments and management of the disease, as well as to work fluidly with other members of the healthcare team
- **Evidence-Based Decision Making:** Acquire the ability to apply critical thinking and scientific research in clinical decision making, using best practices and the latest advances in hematology to personalize care and improve patient health outcomes
- **Adaptation to New Health Technologies:** Integrate advanced technological tools, such as Digital Medical Records, Telemedicine and Big Data analysis, optimizing the diagnosis, treatment and monitoring of hematology patients

After completing the program, you will be able to use your knowledge and skills in the following positions:

1. **Nurse Expert in Hematology:** Nursing professional with advanced skills in the care of patients with hematologic diseases, working in Hematology Units in both hospitals and specialized centers.
2. **Nursing Supervisor in Hematology Services:** Leader within the Nursing team in a Hematology Department, in charge of supervising and coordinating the activities of the staff in the care of hematology patients.
3. **Nurse in Clinical Research in Hematology:** Nursing professional who collaborates in the execution of clinical trials and research studies in the field of Hematology.
4. **Health Educator and Hematology Patient Support:** Nurse expert in educating patients and families on the management of hematology diseases and the monitoring of complex treatments.
5. **Palliative Care Nurse in Hematology:** Nursing professional expert in the care of hematology patients in advanced stages of the disease, focused on improving quality of life and symptom control.
6. **Hematology Patient Quality and Safety Manager:** Nurse responsible for ensuring that quality and safety standards are maintained in the treatment of hematological patients, so that institutional regulations and guidelines are met.

"You will become a highly qualified professional specialized in the care of patients with hematologic diseases, always hand in hand with the world's best online university, according to Forbes: TECH"

06

Study Methodology

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

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

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

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.
The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

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

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

The most comprehensive study plans at the international level

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

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

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

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

Case Studies and Case Method

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

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

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

Relearning Methodology

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

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

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

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

A 100% online Virtual Campus with the best teaching resources

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

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

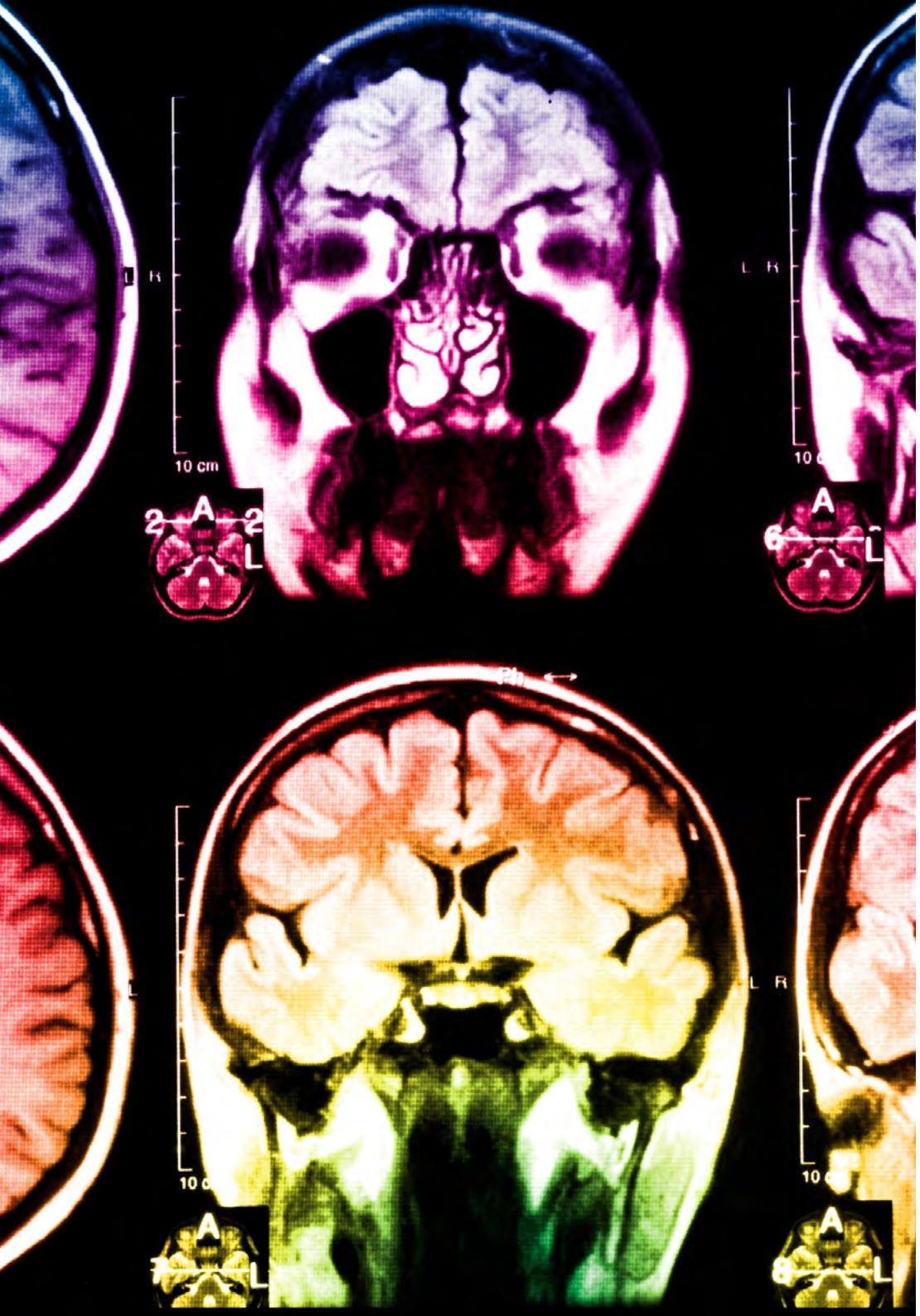
In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

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

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

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

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



The university methodology top-rated by its students

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

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

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

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

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

Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.

Practicing Skills and Abilities

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

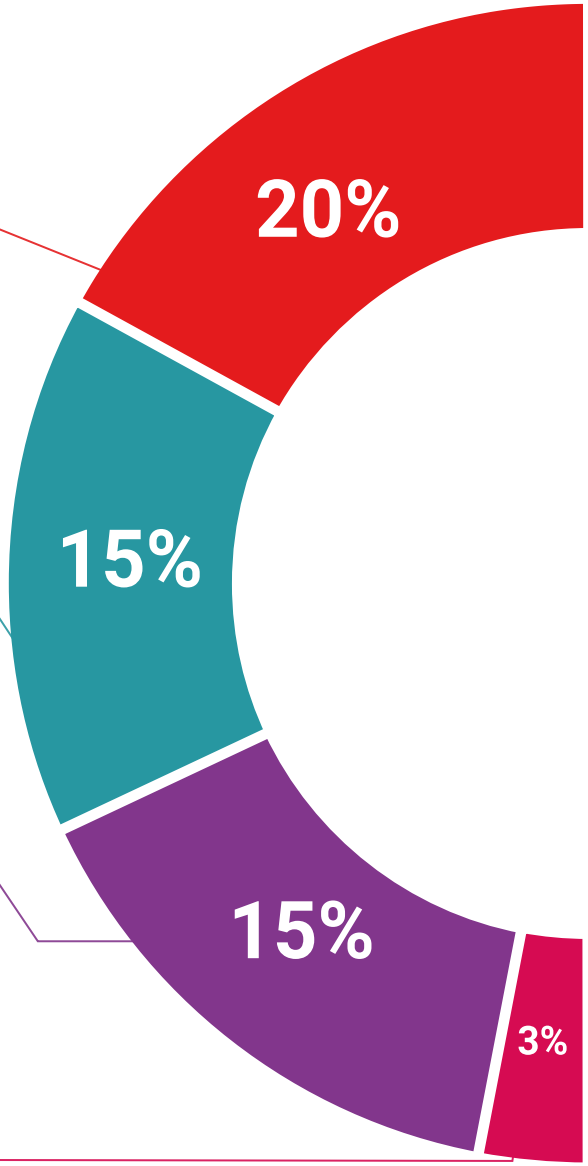
Interactive Summaries

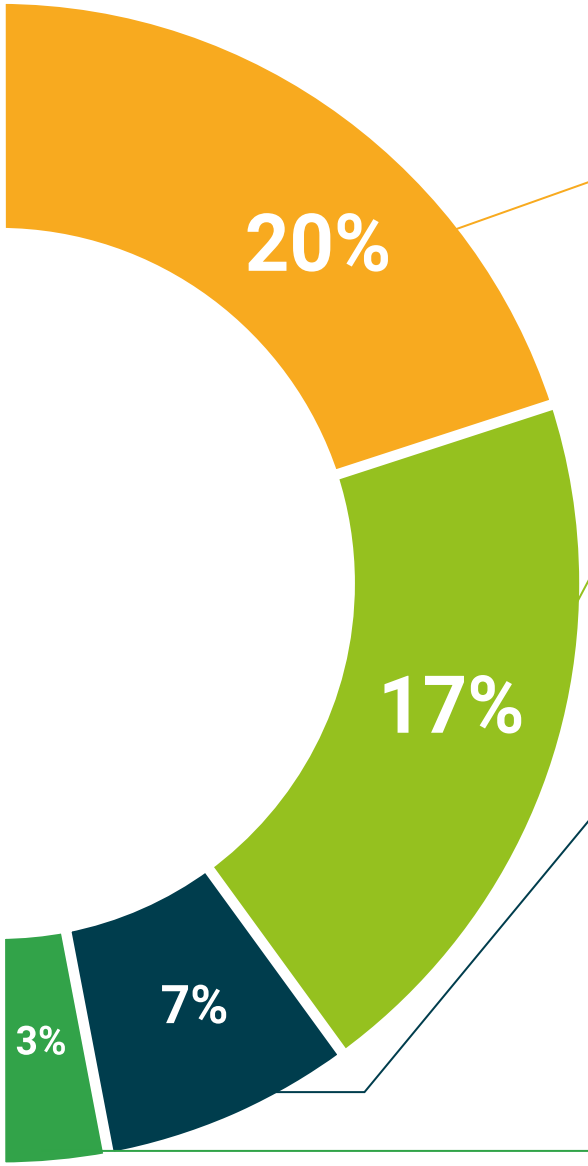
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

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 for 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

Teaching Staff

The teaching staff includes nurses who are experts in hematology, researchers and professionals from complementary areas, such as patient safety and digital technologies applied to health. In this way, these lecturers will not only provide up-to-date knowledge based on the latest evidence, but also a practical perspective based on their experience in highly complex hematology units. Furthermore, their participation in research projects and in the development of therapeutic innovations will guarantee that graduates receive an education in line with the latest advances in the care of hematology patients.

The teaching team of the Professional Master's Degree is made up of a multidisciplinary group of experts who combine clinical, research and academic experience in the field of Hematology"

Management

Ms. Moreno Rivera, Nerea

- Director of Nursing at the Ruber Juan Bravo University Hospital
- Director of Nursing at the HLA Inmaculada University Hospital
- Head of Quality and Environment at the HLA Inmaculada University Hospital
- Head of Environment at the HLA Moncloa University Hospital
- Pharmacy Supervisor at the HLA Moncloa University Hospital
- ICU Supervisor at the HLA Moncloa University Hospital
- QX Supervisor at the HLA Moncloa University Hospital
- Master's Degree in Digital Management and Innovation Nursing Care from the European University of Madrid
- Master's Degree in Out-of-Hospital Emergencies from FUDEN
- University Expert in Human Resources Management Nursing from the UNED
- University Expert in Forensic and Legal Nursing from the UNED
- Diploma in Nursing from the Pontifical University of Salamanca

Professors

Ms. Borrego Espárrago, María Victoria

- Nursing Supervisor at the Ruber Juan Bravo Hospital Complex
- Nurse Specialist in Mental Health at Hermanas Hospitalarias del Sagrado Corazón de Jesús
- Nursing Supervisor of the Psychosocial Rehabilitation Area at the San Miguel Clinic
- Author of numerous specialized publications
- Diploma in Nursing from the Autonomous University of Madrid
- Diploma in Nursing from EUE Red Cross
- University Expert in Health Services Management and Administration from the CEU Cardenal Herrera University
- Member of: Board of Directors of the Spanish Mental Health Nursing Association and Care Advisory Committee of the Regional Office of the Community of Madrid

Ms. Castillo Gallardo, Vanessa

- Inpatient Supervisor at the Ruber Juan Bravo Hospital
- Nurse at the Quirónsalud Madrid University Hospital
- Nurse at the Nuestra Señora de América Hospital
- Nurse at the Gregorio Marañón General University Hospital
- Senior Technician in the Clinical Diagnostic Laboratory
- University Expert in Nursing Processes and Interventions for Adult Patients in Life-Threatening Situations from the Catholic University of Ávila
- Degree in Nursing from the "Salus Infirmorum" Faculty of Nursing and Physiotherapy

Ms. Sánchez Monedero, Tamara

- Inpatient Nursing Supervisor at HLA Moncloa University Hospital
- Nurse at HLA Moncloa University Hospital
- Nurse in charge of blood sampling at Nueva Segovia S.L. Clinical Analysis
- Emergency, Pulmonology and Neurology Nurse at La Paz University Hospital
- Master's Degree in Health Services Management from Alfonso X El Sabio University
- University Expert in Critical Care Nursing from the Complutense University of Madrid
- Diploma in Nursing from the Autonomous University of Madrid

Ms. González Reyes, Saray

- Patient Safety Representative and Manager
- Inpatient Nurse at Ruber Juan Bravo Hospital
- Nurse in the Surgery and Hematology Units at the Cemtro Clinic
- Nurse in the Neurosurgery, Neurology and Stroke Code Unit at La Princesa Hospital
- Nurse in the Intensive Care Unit at the Gregorio Marañón General University Hospital
- Emergency Room and Intensive Care Unit Nurse at Nuestra Señora de América Hospital
- Nurse in the General Surgery, Traumatology, Cardiology, Maternity and Internal Medicine Units at the 9 de Octubre Hospital
- Nurse in the Extractions and Surgery Unit at the Virgen de la Peña General Hospital of Fuerteventura
- University Course in Operating Theatre by CEU
- Degree in Nursing from the European University of Valencia

Ms. Bouza Nebrera, Irene

- Inpatient Supervisor at the Ruber Juan Bravo Hospital
- Inpatient Care Nurse at the Hospital del Sureste
- Care Nurse at the Hospital Moncloa (ASISA)
- University Expert in Health Services Management from the CEU
- University Expert in Nursing Management from the CEU
- Diploma in Nursing from the Autonomous University of Madrid

Ms. Gimeno Esteban, Amparo

- Director of Quality, Safety and Patient Experience at Ruber Juan Bravo Hospital
- Patient Safety Nurse at Ruber Juan Bravo Hospital
- Operating Room, ICU and Resuscitation Nurse at Ruber Juan Bravo Hospital
- Inpatient Nurse in Oncology, Hematology and Pediatrics at Juan Ramón Jiménez Hospital
- Master's Degree in Patient Safety from the University of La Rioja
- Master's Degree in Nursing Management from the Camilo José Cela University
- Master's Degree in Human Resources Management from the EFEM Gates Group
- University Diploma in Nursing from the University of Huelva

Ms. Rial Zabala, María

- Nurse in the Oncohematology Inpatient Unit at the Ruber Juan Bravo Hospital
- Nurse at the Oncology Day Hospital at the Ruber Juan Bravo Hospital
- *Talent Beats* Program at Quirónsalud Hospitals
- University Course in Advanced Electrocardiography at the Francisco de Vitoria University
- University Course in Basic and Advanced Life Support at the Francisco de Vitoria University
- Degree in Nursing from the Francisco de Vitoria University

Ms. Rodríguez Izquierdo, Vanessa

- Inpatient Nurse at Ruber Juan Bravo Hospital
- Nurse at FREMAP
- Medical Examination Nurse at Clinisas
- Nurse at the Moncloa Clinic
- Nurse in the Medical Service at the UNED
- Nurse in the Medical Service at El Corte Inglés
- University Expert in Nursing Prescription
- University Course in the Basics of Emergency Nursing
- University Course in Clinical Care of Chronic Wounds
- Diploma in Nursing from the Complutense University of Madrid

08

Certificate

The Professional Master's Degree in Hematology Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University..

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

This private qualification will allow you to obtain a **Professional Master's Degree in Hematology 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** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Professional Master's Degree in Hematology Nursing**

Modality: **online**

Duration: **12 months**

Accreditation: **90 ECTS**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Mr./Ms. _____ with identification document _____
has successfully passed and obtained the title of:

Professional Master's Degree in Hematology Nursing

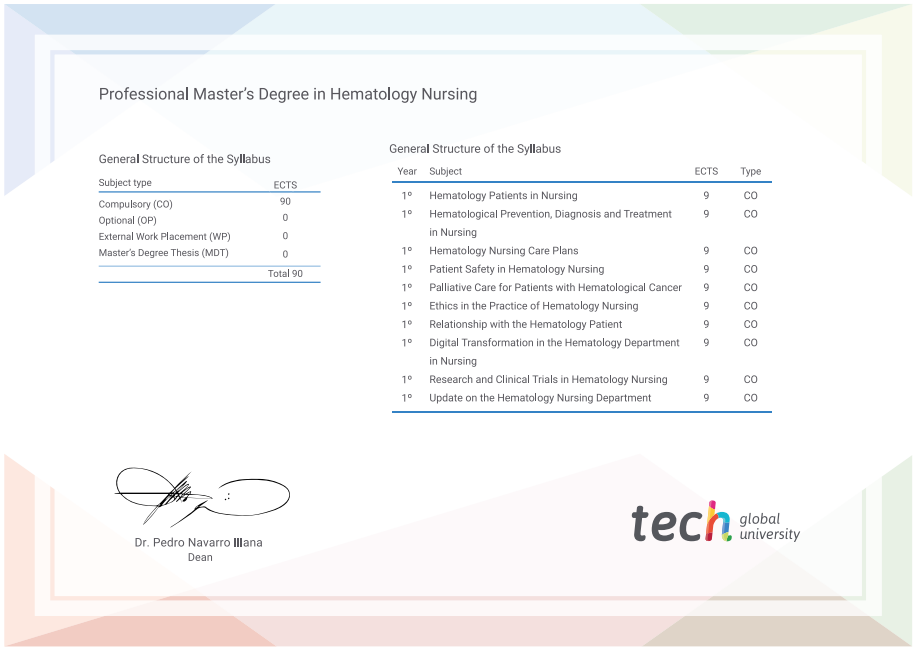
This is a private qualification of 2,700 hours of duration equivalent to 90 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

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
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


Professional Master's Degree in Hematology Nursing

General Structure of the Syllabus

Subject type	ECTS
Compulsory (CO)	90
Optional (OP)	0
External Work Placement (WP)	0
Master's Degree Thesis (MDT)	0
	Total 90

General Structure of the Syllabus

Year	Subject	ECTS	Type
1º	Hematology Patients in Nursing	9	CO
1º	Hematological Prevention, Diagnosis and Treatment in Nursing	9	CO
1º	Hematology Nursing Care Plans	9	CO
1º	Patient Safety in Hematology Nursing	9	CO
1º	Palliative Care for Patients with Hematological Cancer	9	CO
1º	Ethics in the Practice of Hematology Nursing	9	CO
1º	Relationship with the Hematology Patient	9	CO
1º	Digital Transformation in the Hematology Department in Nursing	9	CO
1º	Research and Clinical Trials in Hematology Nursing	9	CO
1º	Update on the Hematology Nursing Department	9	CO

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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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- Duration: **12 months**
- Certificate: **TECH Global University**
- Accreditation: **90 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Professional Master's Degree

Hematology Nursing

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