

Project Number: 2022-1-RO01-KA220-HED-000087854

CRITICAL CARE IN PATIENTS WITH BRAIN DEATH

LEARNING OUTCOMES

KNOWLEDGE

- ACQUIRING THE BASIC ELEMENTS OF VITAL THERAPEUTIC SUPPORT
- FAMILIARIZATION WITH THE SPECIFICS OF THE CRITICAL PATIENT, OF HIS MONITORING
- KNOWLEDGE OF THE CLINICAL AND PARACLINICAL DIAGNOSTIC ELEMENTS OF THE MAIN ORGAN DYSFUNCTIONS
- FAMILIARIZATION WITH THE BASIC CLINICAL ELEMENTS OF RESPIRATORY, RENAL, HEPATIC INSUFFICIENCY, DIGESTIVE TRACT STRESS, HYDRO-ELECTROLYTIC AND ACID-BASE IMBALANCES, NEUROLOGICAL DYSFUNCTIONS
- KNOWLEDGE TO PERFORM AN APPROPRIATE CLINICAL EXAMINATION
- PROVIDING THE SPECIFIC NURSING CARE FOR ALL TYPE OF PATHOLOGIES FOR PATIENTS IN INTENSIVE CARE

SKILLS

- ACQUIRING THE SPECIFIC MEANS OF MONITORING, NURSING AND THERAPY FOR THE MENTIONED DYSFUNCTIONS
- MAKING A COMPLETE CLINICAL EXAMINATION IN ANESTHESIOLOGY AND INTENSIVE CARE
- Performing basic and advanced diagnostic and therapeutic maneuvers in anesthesiology and intensive care
- DEVELOPMENT OF A TREATMENT PLAN INDIVIDUALIZED FOR THE CAREGIVERS

COMPETENCES

- ACQUISITION OF ORAL AND WRITTEN COMMUNICATION SKILLS WITH PATIENTS
- ACHIEVING A WORK / PROJECT, PERFORMING SPECIFIC TASKS RESPONSIBLY IN A TEAM ROLE
- APPLYING THE PRINCIPLES OF ETHICS AND PROFESSIONAL ETHICS IN THE FIELD

ECTS CREDITS

2 ECTS

Theoretical courses	Teaching Methodology	Number of hours
History of brain death. What does brain death mean?	Oral presentation + multimedia, E- learning. Online platform	2
Definitions of death by neurologic criteria.	rearning. Online platform	
Clinical exam in the determination of brain death.	Oral presentation + multimedia, E-	2
Prerequisites and confounders. Establishment of a	learning. Online platform	
persistent, irreversible cause. Clinical testing: brainstem		
reflexes		
Apnea Test. Ancillary Tests	Oral presentation + multimedia, E-	2
	learning. Online platform	
Nursing, Allied Health, and Interprofessional Team	Oral presentation + multimedia, E-	2
Monitoring and Team Interventions	learning. Online platform	
Acid-base and hydro-electrolytic imbalances in diabetes	Oral presentation + multimedia, E-	2
insipidus. Crystalloid and colloid solutions. Electrolytes.	learning. Online platform	



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Concentrations. Administration method.		
Basic and advanced monitoring of the critical patient.		
Shock. Acute heart failure.	Oral presentation + multimedia, E-	2
Cardio-respiratory arrest.	learning. Online platform	
Coordination of care. Meeting the patient's physical needs	Oral presentation + multimedia, E-	2
and identifying the family's needs.	learning. Online platform	

Practical activities	Teaching Methodology	Number of hours
ICU Clinic. Labor protection. Intensive therapy sheet. Basic and advanced monitoring of the critical patient.	Practical demonstrations, practical manoevreus characteristics for intensive care. Virtual laboratory	4
Brainstem reflexes. Apnea Test. Ancillary Tests	Practical demonstrations, practical manoevreus characteristics for intensive care. Virtual laboratory	4
Airway clearance. Oro-tracheal intubation. Ventilation on the mask. Oxygen therapy: administration rules, devices. Oxygen: source, storage, handling. Compressed air: source, storage, handling. Installation of the ventilation circuit. Tracheo-bronchial aspiration. Adjuvant respiratory therapies.	Practical demonstrations, practical manoevreus characteristics for intensive care. Virtual laboratory	4
Central and peripheral venous vascular access. Arterial vascular access. Rules of good medical practice. Rules for administration of inotropic/vasoactive substances and antibiotics	Practical demonstrations, practical manoevreus characteristics for intensive care. Virtual laboratory	4
Crystalloid and colloid solutions. Electrolytes. Concentrations. Administration method	Practical demonstrations, practical manoevreus characteristics for intensive care. Virtual laboratory	4
Body temperature measurement, temperature control, active heating/cooling. Rules for the prevention of nosocomial infections. Rules of good medical practice.	Practical demonstrations, practical manoevreus characteristics for intensive care. Virtual laboratory	4
Nursing the patient with brain death, potential organ donor.	Practical demonstrations, practical manoevreus characteristics for intensive care. Virtual laboratory	4

References

- 1. Marino PL: The ICU Book, 4th ed., Lippincott Williams Wilkins, 2014
- 2. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020

Evaluation





E-learning

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Course activities – percent of the final grade - 50%	Practical activities – percent of the final grade - 50%	
Final mark		

Training Methods Lectures Independent Study Clinical stages Innovative Digital Training Methods Virtual laboratory Online platform