

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

<i>Theoretical courses</i>	<i>Teaching Methodology</i>	<i>Number of hours</i>
History of brain death. What does brain death mean? Definitions of death by neurologic criteria.	Oral presentation + multimedia, E-learning. Online platform	1
Clinical exam in the determination of brain death. Prerequisites and confounders. Establishment of a persistent, irreversible cause. Clinical testing: brainstem reflexes	Oral presentation + multimedia, E-learning. Online platform	1
Apnea Test. Ancillary Tests	Oral presentation + multimedia, E-learning. Online platform	1
Nursing, Allied Health, and Interprofessional Team Monitoring and Team Interventions	Oral presentation + multimedia, E-learning. Online platform	1
Acid-base and hydro-electrolytic imbalances in diabetes insipidus. Crystalloid and colloid solutions. Electrolytes.	Oral presentation + multimedia, E-learning. Online platform	1



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Concentrations. Administration method. Basic and advanced monitoring of the critical patient.		
Shock. Acute heart failure. Cardio-respiratory arrest.	Oral presentation + multimedia, E-learning. Online platform	1
Coordination of care. Meeting the patient's physical needs and identifying the family's needs.	Oral presentation + multimedia, E-learning. Online platform	1

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 manoeuvres characteristics for intensive care. Virtual laboratory	1
Brainstem reflexes. Apnea Test. Ancillary Tests	Practical demonstrations, practical manoeuvres characteristics for intensive care. Virtual laboratory	1
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 manoeuvres characteristics for intensive care. Virtual laboratory	1
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 manoeuvres characteristics for intensive care. Virtual laboratory	1
Crystalloid and colloid solutions. Electrolytes. Concentrations. Administration method	Practical demonstrations, practical manoeuvres characteristics for intensive care. Virtual laboratory	1
Body temperature measurement, temperature control, active heating/cooling. Rules for the prevention of nosocomial infections. Rules of good medical practice.	Practical demonstrations, practical manoeuvres characteristics for intensive care. Virtual laboratory	1
Nursing the patient with brain death, potential organ donor.	Practical demonstrations, practical manoeuvres characteristics for intensive care. Virtual laboratory	1

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


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<i>Course activities – percent of the final grade - 50%</i>	<i>Practical activities – percent of the final grade - 50%</i>
<i>Final mark</i>	

Training Methods
<ul style="list-style-type: none"> - <i>Lectures</i> - <i>Independent Study</i> - <i>Clinical stages</i>
Innovative Digital Training Methods
<ul style="list-style-type: none"> - <i>Virtual laboratory</i> - <i>Online platform</i> - <i>E-learning</i>

