

MULTIDISCIPLINARY APPROACH IN CRITICAL CARE NURSING

LEARNING OUTCOMES

KNOWLEDGE

- KNOWLEDGE OF THE BASIC ELEMENTS OF VITAL THERAPEUTIC SUPPORT FROM A MULTIDISCIPLINARY POINT
- FAMILIARIZATION WITH THE SPECIFICS OF THE CRITICAL PATIENT, OF HIS MONITORING
- KNOWLEDGE OF THE CLINICAL AND PARACLINICAL DIAGNOSTIC ELEMENTS OF THE MAIN ORGAN DYSFUNCTIONS FROM A MULTIDISCIPLINARY POINT
- 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 FROM A MULTIDISCIPLINARY POINT
- MAKING A COMPLETE CLINICAL EXAMINATION IN ANESTHESIOLOGY AND INTENSIVE CARE
- PERFORMING BASIC AND ADVANCED DIAGNOSTIC AND THERAPEUTIC MANEUVERS IN ANESTHESIOLOGY AND INTENSIVE CARE
- FORMULATING A POSITIVE DIAGNOSIS IN ANESTHESIOLOGY AND INTENSIVE CARE
- DEVELOPMENT OF A TREATMENT PLAN INDIVIDUALIZED FOR THE PATIENT
- PRESENTATION OF A CLINICAL CASE IN ANESTHESIOLOGY AND INTENSIVE CARE FROM A MULTIDISCIPLINARY POINT

COMPETENCES

- ACQUISITION OF ORAL AND WRITTEN COMMUNICATION SKILLS WITH PATIENTS
- PERFORMING PRACTICAL ACTIVITIES IN A TEAM, ESTABLISHING INDIVIDUAL RESPONSIBILITIES WITHIN MULTIDISCIPLINARY PROJECTS.
- IDENTIFYING THE ROLES AND RESPONSIBILITIES IN A PLURIDISCIPLINARY TEAM AND APPLYING EFFICIENT WORK AND RELATION TECHNIQUES WITHIN THE TEAM AND IN THE RELATION WITH PATIENTS.
- 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>
Approach of the general and locoregional anesthesia from a multidisciplinary point. Acute respiratory failure.	Oral presentation + multimedia, E-learning. Online platform	2
Approach from a multidisciplinary point of Acute heart failure. Neurological dysfunction.	Oral presentation + multimedia, E-learning. Online platform	2



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Approach from a multidisciplinary point of Digestive tract stress. Liver dysfunction. Renal failure in the critically ill patient.	Oral presentation + multimedia, E-learning. Online platform	2
Approach from a multidisciplinary point of Shock. Cardio-respiratory arrest.	Oral presentation + multimedia, E-learning. Online platform	2
Approach from a multidisciplinary point of Acid-base imbalances. Hydro-electrolytic imbalances.	Oral presentation + multimedia, E-learning. Online platform	2
Approach from a multidisciplinary point of Nutrition of the critically ill patient. Acute pain.	Oral presentation + multimedia, E-learning. Online platform	2
Crystalloid and colloid solutions. Electrolytes. Concentrations. Administration method. Approach from a multidisciplinary point of Basic and advanced monitoring of the critical patient.	Oral presentation + multimedia, E-learning. Online platform	2

Practical activities	Teaching Methodology	Number of hours
ATI Clinic. Labor protection. Intensive therapy sheet. Approach from a multidisciplinary point of Basic and advanced monitoring of the critical patient.	Practical demonstrations, practical manoeuvres characteristics for critical care nursing. Virtual laboratory	4
Approach from a multidisciplinary point of 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. Renal replacement therapies. Devices, principles of operation. Indications and contraindications. Nursing the critically ill patient with renal failure.	Practical demonstrations, practical manoeuvres characteristics for critical care nursing. Virtual laboratory	4
Approach from multidisciplinary point of Enteral nutrition: ways, preparations, rules. Parenteral nutrition. Crystalloid and colloid solutions. Electrolytes. Concentrations. Administration method. Approach from a multidisciplinary point of Rules for the prevention of nosocomial infections. 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 critical care nursing. Virtual laboratory	4
Approach from a multidisciplinary point of Operating room. The anesthesia machine. The technical standard for anesthesia. Local-regional anesthesia: rules, types, local anesthetics and devices. Sedation and analgesia of the critical patient. Approach from a multidisciplinary point of Invasive hemodynamic monitoring.	Practical demonstrations, practical manoeuvres characteristics for critical care nursing. Virtual laboratory	4
Approach from a multidisciplinary point of Assessment of the state of consciousness, intracranial pressure	Practical demonstrations, practical manoeuvres characteristics for critical	4



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monitoring. Approach from a multidisciplinary point of Digestive endoscopy, gastric survey, gastric lavage, paracentesis.	care nursing. Virtual laboratory	
Approach from a multidisciplinary point of Crystalloid and colloid solutions. Electrolytes. Concentrations. Administration method. Approach from a multidisciplinary point of Pain control - Patient Controlled Analgesia.	Practical demonstrations, practical manoeuvres characteristics for critical care nursing. Virtual laboratory	4
Body temperature measurement, temperature control, active heating/cooling. Approach from a multidisciplinary point of Rules for the prevention of nosocomial infections. Rules of good medical practice.	Practical demonstrations, practical manoeuvres characteristics for critical care nursing. 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

<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

- Lectures
- Independent Study
- Clinical stages

Innovative Digital Training Methods

- Virtual laboratory
- Online platform
- E-learning

