



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Infermieristica in Area Critica

2627-3-I0101D017-I0101D055M

Aims

The integrated course aims to provide students with the knowledge and skills necessary to assist people in critical conditions in the main contexts of the critical area: first aid, intensive care, surgical block, intra- and extra-hospital emergency.

Objectives:

1. Knowledge and understanding: mastery of the theoretical and clinical knowledge necessary for critical patient management in different contexts.
2. Ability to apply knowledge and understanding: ability to plan, document and implement effective and safe nursing interventions based on clinical conditions and the operational environment.
3. Autonomy of judgement: ability to critically assess clinical situations, set priorities and make timely decisions.
4. Communicative skills: ability to collaborate in multi-professional teams and communicate clearly with patients and family members.
5. Learning ability: ability to self-update knowledge through consultation of guidelines, protocols and clinical cases.

Contents

The course allows you to:

- acquire the knowledge necessary to identify and interpret the main pathophysiological mechanisms underlying the conditions of clinical instability and criticality of the person being cared for in the medical, surgical and emergency-emergency fields;
- develop nursing skills in perioperative care, including the principles of general and locoregional anesthesia, patient monitoring and care interventions at different stages of the surgical process;
- acquire skills in multidimensional assessment, clinical monitoring, and planning and implementation of nursing care interventions aimed at adult, pediatric, and neonatal critical care individuals, using an evidence-based approach;
- develop decision-making, clinical reasoning, communication and interdisciplinary collaboration skills, operating effectively within the multiprofessional team and managing the relationship with the person being cared for and

caregivers even in situations of high care complexity.

Detailed program

The course covers a broad spectrum of issues relevant to critical care, including:

- organization of the Emergency Department (DEA), intra- and extra-hospital care pathways, triage and protocols;
- management of vital functions (respiratory, cardiovascular, neurological and regulatory) in conditions of acuity and clinical instability;
- invasive and non-invasive ventilation techniques, management of acute pain and delirium in intensive care, alterations in hydro-electrolyte and metabolic balance;
- anesthesiological pharmacology, general and regional anesthesia techniques, intraoperative monitoring and the role of the nurse in the operating room;
- neurological and state of consciousness assessment, sedation, intracranial pressure monitoring;
- care of the person with multiple trauma in an out-of-hospital setting;
- relational and communicative aspects with the person being cared for and caregivers in situations of acute stress, communication of bad news.

Prerequisites

By regulation

Teaching form

Lectures conducted in presence in dispensative mode, with exercises on clinical cases

Textbook and teaching resource

ESSENTIAL BIBLIOGRAPHY

Adult and pediatrician

AARC Clinical Practice Guidelines: Artificial Airway Aspiration (2022). Respiratory care. Vol 67 No. 2

Ausili D., Baccin G., Bezze S., Bompan A., Macchi B., Alberio M., Sironi C., Di Mauro S. (2018) The Human Process Care Model 2018: A theoretical framework for nursing in the face of the challenge of complexity. Print: www.lulu.com

Boettger S, Meyer R, Richter A, Fernandez SF, Rudiger A, Schubert M, Jenewein J, Nuñez DG (2019) Delirium screening with the Intensive Care Delirium Screening Checklist (ICDSC): symptomatic profile and utility of individual items in identifying sedation-dependent delirium. Palliative and supportive care 17, 74 –81

Caironi G., Pinto F., (2021) Nursing in Emergency Urgency. Idelson Gnocchi Editions

Chiaranda M. (2022), Urgencies and Emergencies – Institutions, 5th edition edited by Andrea Paoli. Piccin

Clinical Practice Guidelines for the Prevention and Management of Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Interruption in Adult ICU Patients (2018) Critical Care Medicine

Davis MD, Walsh BK, Sittig SE, Restrepo RD (2013) AARC Clinical Practice Guidelines: Blood Gas Analysis and Hemoximetry. Respiratory Care 58(10):1694-703

Guidelines for the Provision of Nutritional Supportive Therapy in Critically Ill Adult Patients: The American Society for Parenteral and Enteral Nutrition (2022) Journal of Parenteral and Enteral Nutrition. 46(1):12-41

Infusion Therapy Practice Standards – INS (2021) Blood Collection by Direct Arterial Puncture 44: 128-129
Journal of Infusion Nursing

Kallet RH (2019), Ventilation Packages in Transition: From Preventing Ventilation-Associated Pneumonia to Preventing Ventilation-Associated Events. Respiratory care. Vol 64 No. 8

Klaus – Care of the High-Risk Newborn 7° by Fanaroff (2020) ed. Antonio Delfino Publisher
National guidelines on in-hospital triage – act understood state reg

Lamond E, Murray S, Gibson CE (2017) Delirium screening in Intensive care: a life saving opportunity. Intensive and Critical Care Nursing, 44: 105-109

Emergency room triage guidelines. Proposal by the National Coordination of Emergency Room Triage – Monitor 29 ed. 2012 – AGENAS

Pediatric Triage Training Manual (2009). Biomedica

Ministry of Health (2010), Recommendations for perinatal care at extremely low gestational ages (22-25 weeks)

Ministry of Health (2010), Guidelines on the organization of the assisted maternal transport system (STAM) and the newborn emergency system (STEN)

Ministry of Health (2014), Pain in the Child. Practical assessment and therapy tools. Rodrigo Editore srl.

Ministry of Health (2014), Recommendation for the prevention of death or permanent disability in healthy newborn weighing > 2500 grams not related to congenital disease.

Ministry of Health (2014), National Guidelines for the Organization and Management of Donated Human Milk Banks in the Protection, Promotion and Support of Breastfeeding

Semester

3rd year 2nd semester

Assessment method

- Written for the Internal Medicine 4, General Surgery 3, and Anesthesiology modules: three open-ended questions (one per module, each worth 10 points) with 40 minutes available.
- Oral exam for the Critical Nursing module

Office hours

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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY
