

LABORATORI PROFESSIONALI (ITO240)

1. lingua insegnamento/language

Italiano.

2. contenuti/course contents

Coordinatore/Coordinator: Prof. GRASSONE CHRISTIAN

Anno di corso/Year Course: II

Semestre/Semester: 2°

CFU/UFC: 1

Moduli e docenti incaricati /Modules and lecturers:

- LABORATORI PROFESSIONALI (ITOLB2) - 1 cfu - ssd MED/45

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3. testi di riferimento/BIBLIOGRAPHY

Mortari L, Saiani L. Gestì e pensieri di cura. Milano: Mc Graw Hill, 2013.

Saiani L, Brugnolli A. Trattato di cure infermieristiche. Napoli: Casa Editrice Idelson-Gnocchi, 2011. Cap 28.

Guidelines 2015 CPR&ECG. Sintesi dell'Aggiornamento delle linee guida 2015 per RCP ed ECG dell'American Heart Association.

Linee guida European Resuscitation Council per la Rianimazione 2015. Patrocinio del Ministero della Salute.

4. obiettivi formativi/LEARNING OBJECTIVES

At the end of the laboratory the student will be able to:

Knowledge and understanding (Dublin 1)

- describe the operational sequence of the CPR procedure;
- describe the characteristics of the main veins of the upper limb suitable for positioning a peripheral venous access (location, anatomical and functional characteristics), also with ultrasound view;
- describe the operative sequence of the procedures related to: placement of a peripheral venous access, administration of a drug IM-SC-EV, reconstitution of an infusion line, aspiration of a drug from a vial, dilution and aspiration of a drug from a vial;
- describe the material needed to apply the procedures (above).

Applied knowledge and understanding (Dublin 2)

- analyze intervention strategies in the area of urgency - emergency;
- carry out the BLS sequence necessary to prevent anoxic brain damage and activation of a response system;
- carry out the evaluation of the adult person, in a safe condition, and recognize some critical alterations concerning the state of: unconsciousness, respiratory arrest and pulse absence;

safely apply the operational sequences of the procedures relating to the administration of drugs by the IM-SC-EV route, also with ultrasound view;
evaluate the veins of the upper limb suitable for the positioning of peripheral venous access;
evaluate the responsiveness of the assisted person who needs peripheral venous access positioning;
perform and solve calculations for drug dosage, using prototypical clinical cases.

Making judgments (Dublin 3)

develop clinical reasoning on situations of clinical instability, unconsciousness, cardio-circulatory arrest, absence of pulse;
carry out the assistance interventions respecting safety, quality standards, ethical and deontological principles, scientific evidence;
discuss the criteria that guide the professional in choosing the most suitable device (type, caliber, fastening) and in choosing the right vein for peripheral venous access;
adapt the procedure in relation to the context and the level of responsiveness of the assisted person who needs peripheral venous access.

Communication skills – Communicationskills (Dublin 4)

use context-appropriate communication and interprofessional collaboration in care settings;
use terminology appropriate to the context, in relation to the transfer of information.

Ability to learn– Learning skills (Dublin 5)

self-assess one's level of professional competence and carry out self-training activities;
reflect on one's own reactions deriving from the experiential impact.

5. prerequisiti/prerequisites

There is a test for access to the laboratory, with multiple choice questions or checklists to complete. The questions will evaluate the student's knowledge, preparatory to the realization of the laboratory activities.

Furthermore, it is recommended to have studied the contents related to ultrasound for nurses of the “diagnostic imaging” module.

6. metodi didattici/TEACHING METHODS

- Scenarios of simulated situations in the clinical and emergency-urgency area.
- Experiential activities followed by reflection and plenary discussion.
- Advanced dummy training.
- Exercise among classmates for palpation of the veins of the upper limb (with the supervision of the classroom tutor).
- Exercise with the use of the ultrasound scanner on a mannequin and among peers (with the PICC team tutors).

7. altre informazioni/OTHER INFORMATION

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8. modalità di verifica dell'apprendimento/METHODS FOR VERIFYING LEARNING AND FOR EVALUATION

Techniques of preparation and administration of parenteral therapy.

Preliminary evaluation test (on Blackboard platform) and practical test.

BLSD. Use of skill heads practice test.

At the end of each laboratory, the student will obtain an eligibility assessment (visible on the

Florence platform).

The certification of suitability (useful for obtaining the CFU) will be recorded in the dedicated exam sessions.

9. programma esteso/program

Techniques of preparation and administration of parenteral therapy

Evaluations of the veins of the upper limb and venipuncture technique for the positioning of the peripheral venous access. Peripheral venous access fixation techniques.

Techniques and methods of preparation and administration of parenteral drug therapy.

Calculations for drug dosage.

Operating sequences to apply the following procedures: positioning of a peripheral venous access (CVP), administration of a drug IM-SC-EV, reconstitution of an infusion line, aspiration of a drug from a vial, dilution and aspiration of a drug from a vial.

Exercise using the ultrasound machine on a mannequin and among peers (with the tutors of the PICC team).

Use of the ultrasound with probe for venous access with linear probe for visualization of the main vascular structures of arms.

BLSD

The ABCDE evaluation algorithm in urgent-emergency situations. Evaluation of the adult person, in a safe condition, and recognition of the state of: unconsciousness, respiratory arrest and pulse absence. Application of the BLSD sequence necessary to prevent anoxic brain damage and activation of a response system.