UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Lettura e Interpretazione dell'Elettrocardiogramma (ecg)

2526-2-I0101D149

Aims

The elective course “Reading and Interpreting the Electrocardiogram (ECG)” is designed to provide students with the essential skills for an accurate understanding and interpretation of the electrocardiogram, a fundamental tool in clinical practice. The aim is to enable future nurses to recognise significant changes and to use the information for targeted care planning.
The specific objectives, formulated according to the Dublin Descriptors, are as follows:

1. Knowledge and understanding:
   To understand the basics of electrocardiography and to recognise the main rhythm, ischaemic and metabolic abnormalities.
2. Application of knowledge:
   Apply a structured method for ECG analysis and use the data to plan nursing care.
3. Autonomy of judgement:
   Critically evaluate the information provided by the ECG and contribute to timely clinical care decisions.
4. Communication skills:
   Effectively communicate ECG data within the care team.
5. Ability to learn:
   Develop skills to independently update oneself on ECG interpretation and the evolution of monitoring systems.

Contents

Basic ECG concepts and approach to normal rhythm analysis, algorithmic diagnostics for rapid analysis and rapid rhythm recognition

Detailed program

Outline of cardiac electrophysiology
Principles of electrocardiography: Einthoven theory and other derivations
Characteristics of the main electrocardiographic panels related to arrhythmias, ischemic pictures and metabolic changes
Method for electrocardiogram analysis
Discussion and conclusion of the course

Prerequisites

Enrolling in the 2nd-3rd year of the Bachelor's Degree in Nursing

Teaching form

Face-to-face teaching – frontal lectures and tutorials

Textbook and teaching resource

Il cuore - fisiologia, dalla cellula alla circolazione, Opie L. H. (2000), CIC edizioni internazionali, Roma.
Interpretazione dell'ECG, Dubin D. (2000) Monguzzi Editore, Bologna.
Ion adventure in the heartland Dubin D. (2003), Cover Publishing Company.
M.G. Abrignani, F.Angeli, G.Bagliani, G.F. Mareddu, G.Satullo, M.Uguccioni, P.Verdecchia (2005) Elettrocardiografia di base nella pratica clinica: rischio cardiovascolare e danno d'organo, A.N.M.C.O., Firenze.
The effectiveness of an education program on nurses' knowledge of elettrocardiogram interpretation – Huajung Zhang, Lily Lihwa international emergency nursing (2013) 247 – 251.
Update to Practice Standards for Electrocardiographic Monitoring in Hospital Settings: A Scientific Statement From the American Heart Association – Circulation Volume 136, Issue 19, 7 November 2017; Pages e273-e344.

Semester

Second semester

Assessment method

Frequency

Office hours

By appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING