



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Lettura e Interpretazione dell'E.C.G.

2425-2-I0101D107

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#### Aims

Recognize the main changes in heart rhythm, characteristic elements related to ischemic pictures and metabolic changes

Adopt a structured method for the recognition of major electrocardiographic changes

Know the main applications of standard electrocardiogram and electrocardiographic monitoring systems

Use the information provided by the electrocardiogram for nursing planning

#### 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.Uguccione, 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

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