UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Biochimica Clinica e Biologia Molecolare Clinica

2122-4-H4101D262-H4101D178M

Aims

The goal of the course is to provide the tools for the correct use of biochemical, and the definition of their indications and interpretation.

Contents

CLINICAL BIOCHEMISTRY AND CLINICAL PATHOLOGY: Lab test in oncology and rheumatology. Inflammation markers. Discussion of clinical reports.

Detailed program

Clinical laboratory. Organization principles. Laboratory Informative System.

The correct request of lab tests.

Pre-analytical, analytical and post-analytical variability. Conditions able to affect lab test results.

General rules of Quality assessment and their application in the different sections of lab.

Techniques for the collection of biological fluids/materials to submit to biochemical, microbiological, and genetic tests.

Blood and biological fluid analysis: urines, cerebrospinal fluid, synovial, pleural, pericardic, peritoneal and amniotic fluid collection, analysis.

Auto protection measures.

Application of molecular diagnostics to Clinical Biochemistry labs.

Case reports of laboratory Medicine

CLINICAL BIOCHEMISTRY AND MOLECULAR BIOLOGY Lab test in oncology and rheumatology.

Inflammation markers.

Prerequisites

propedeutic skills

Teaching form

Lectures, traineeship, subject to any ministerial changes following the COVID pandemic situation

Textbook and teaching resource

McPherson RA, Pincus MR Henry's Clinical Diagnosis and Management by Laboratory Methods, 23a edizione in lingua inglese. Ed. Elsevier, 2016

Federici G. Medicina di laboratorio ed McGraw-Hill. IV edizione, 2014
Marshall W, Lapsley M., Day A Clinical chemistry ed Mosby. 8a edizione in lingua inglese. Ed. Elsevier, 2016

Kumar V, Abbas A., Aster J.C. Robbins & Cotran Le basi patologiche delle malattie Ed. Masson, 9th ed., 2015

Ciaccio M, Lippi G. Biochimica Clinica e Medicina di Laboratorio. EdiSES 2018

Semester

first semester

Assessment method

Case report analysis. Written and oral test. Multiple choice test (33 questions)

In the covid emergency time examination will takes only in online form by webex

Office hours

Visits by appointment that can be requested via e-mail