UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Clinical Biochemistry

2122-1-I0302D005-I0302D019M

Aims

Students' skills: to describe the metabolic features of the main organs and tissues and tests used to assess them

Contents

To provide knowledge about metabolic specificities of main organs and tissues and on the biochemical and physio-pathological basis of laboratory analysis alterations.

Detailed program

Organ profiles: glucose, lipid protein, ethanol and bilirubin hepatic metabolism, and relates tests. Adipose tissue metabolism, Lipid and lipoprotein metabolism, muscular and myocardial metabolism. Myocardial markers. Nervous system metabolism.

Red cells metabolism. Anaemia and hemoglobinopathies.

Kidney metabolism and hydro-electrolytic balance; renal clearances, creatinine and urea. Metabolic interrelations. Bone and mineral metabolism. Iron balance.

Prerequisites

Biomedical Sciences

Teaching form

Lectures and exercises

Textbook and teaching resource

SILIPRANDI N. TETTAMANTI G. BIOCHIMICA MEDICA ED PICCIN

PRENCIPE l. APPROCCIO ALLA CHIMICA CLINICA

The teachers will provide educational material

Semester

Second semester

Assessment method

Multiple choice test comprising 18 questions with only one correct answer (among 4) aimed at evaluating global comprehension of course program. Each correct answer is scored 1,8. Oral examination consisting in the discussion of some written questions, aimed at verifying the student ability to make connections and provide further details.

Office hours

By appointment required by mail