



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Clinical Biochemistry

2122-3-H4101D258-H4101D176M

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#### Aims

The goal of the course is to provide the students with the tools for the correct use of biochemical tests for the digestive and endocrine system diseases, the elements for the comprehension of their physio-pathologic basis and the definition of their indications and interpretation.

#### Contents

The primary goal of the course is to provide students with the pathophysiologic basis to understand the clinical and surgical semeiotics and the physiopathology of the digestive and endocrine system in order to make correlations between the inner mechanisms of diseases and their clinical expression. The student will be able to interpret symptoms, signs and laboratory tests .

#### Detailed program

Liver injury tests: Patterns of liver injury. Hepatic enzymes, AST ALT GGT ALP . Test for alcoholism. Bilirubin and hyperbilirubinemia . Biochemical test for hepatic fibrosis

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Laboratory test for diabetes mellitus diagnosis and monitoring. A1c - diabetes diagnosis and evaluation. Plasmatic and urinary glucose - laboratory vs POCT Microalbuminuria - complication prevision. Autoantibody assays and genetic tests - indications and interpretation

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## **Prerequisites**

Propaedeutic skills.

## **Teaching form**

Lectures

Lessons will be provided in presence, 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,

Marshall W, Lapsley M., Day A Clinical chemistry ed Mosby. 8a edizione in lingua inglese. Ed. Elsevier,

Antonozzi - Gulletta Medicina di Laboratorio - Logica e Patologia Clinica. Ed. Piccin 2019

## **Semester**

2nd semester

## **Assessment method**

Written and oral test.

## **Office hours**

Students can book an appointment with the Faculty by email.

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