



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Diagnostic Test in Diabetes

2425-3-I0302D044

---

#### Aims

To develop the knowledge on diagnostic-lab tests regarding physiopathology and diagnosis of type 1 and type 2 Diabetes Mellitus 1, 2 as well as diagnosis and monitoring of the complications. In addition, introduction to the technologies in development for monitoring and treating diabetes (insulin pumps and glucose sensors)

#### Contents

Basic knowledge about the laboratory tests related to type 1, type 2 diabetes and gestational diabetes and diabetes-related complications and technologies

#### Detailed program

Diagnostic criteria: basal and post-challenge tests: fasting glucose, glycated Hb and albumin as biomarkers of glucose homeostasis, fasting insulin, C-peptide, glucose profile during OGTT, IVGTT, self blood glucose monitoring, glucose sensors.

Methods to estimate and measure insulin resistance: HOMA-IR, OGIS, insulin clamp.

Type 1 diabetes and LADA and auto-antibodies

Diabetes related nephrological complications and co-morbidity: glomerular filtration rate and albumin excretion rate.

Liver function tests and surrogate biomarkers of NAFLD/NASH

Insulin pumps and glucose sensors

## **Prerequisites**

## **Teaching form**

Lessons

## **Textbook and teaching resource**

The teacher will provide educational material

## **Semester**

2nd semester

## **Assessment method**

Attendance

## **Office hours**

By appointment requested by mail

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | GENDER EQUALITY

---