UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

# Diagnostic Test in Diabetes

**2223-3-I0302D044**

## Aims

Improvement of the knowledge on diagnostic tests regarding physiopathology of Diabetes mellitus 1, 2, gestational diabetes and their complications and about the technologies in 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 complication 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-petide, 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

3?? year degree in Biomedical Laboratory Technician

## 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