



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Diagnostic Test in Diabetes

2526-3-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
