UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Physiology

2627-6-H4102D039-H4102D166M

Aims

Gain knowledge about:
I) the physiological changes in maternal organ systems during pregnancy
II) the physiological transition from intrauterine to neonatal life

Contents

Since the pregnancy induces significant physiological changes in order to nurture and accommodate the developing fetus, the course will provide an overview on this topic to quickly recognize any abnormalities. Moreover, as the transition to life after birth is characterized by major physiological changes in respiratory and hemodynamic function, during the course will provide an overview of physiological changes of the transition at birth.

Detailed program

- Placenta: aspects of the physiology and endocrinology of the placenta; amniotic fluid physiology; fetal circulation
- Physiological pregnancy-related changes: cardiovascular system, coagulation cascade, hormonal environment
- Fundamentals of the physiology and pathology of fetal development
- Fundamentals of fetus-to-newborn period transition: the physiology
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Prerequisites

Cardiovascular, pulmonary, endocrine and renal physiology

Teaching form

The course includes 4 hours of traditional lectures and 6 hours of interactive teaching.

Textbook and teaching resource

The teaching resourses will provided by the professor during the course

Semester

First Semester

Assessment method

The exam will take place in integrated mode with the rest of the modules of the vertical track

Office hours

By appointment arranged via e-mail (ilaria.rivolta@unimib.it)

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY