

## SYLLABUS DEL CORSO

### Physiology

2425-6-H4102D039-H4102D166M

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#### 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 resources will be 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](mailto:ilaria.rivolta@unimib.it))

## **Sustainable Development Goals**

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

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