



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Anatomy of The Reproductive System

2223-6-H4102D039-H4102D165M

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#### Aims

- Describe the particular features of the fetal circulation, changes in the pattern of blood flow at the time of birth and during early neonatal life
- Describe the main anatomical changes in children with congenital bowel disease and liver disease requiring surgery or transplantation.
- Recognize common physical exam findings and implications associated with the diagnosis of congenital malformation of the gastrointestinal system (including liver) and genito-urinary tract.
- Evaluate the relationships between anatomical changes and pathophysiology.

#### Contents

The course aims to provide basic concepts about anatomical changes following to congenital malformations or surgery. Anatomy of the following systems and organs will be presented and discussed with the students : cardiovascular, gastrointestinal, urinary systems and liver. Main topics on pre-natal and post-natal foetal circulation will be addressed. Proper terminology will be used to define anatomical changes in children with congenital heart disease, short bowel disease, and liver disease (including biliary atresia and other cholestatic disorders) . Furthermore the students will learn basic concepts on “gut-liver axis” and pediatric liver transplantation.

#### Detailed program

- Cardio-vascular system (shared with the neonatologist):
  - \* Foetal circulation
  - \* Foetal-newborn circulation transition
  - \* Cardio-vascular semeiotic in the newborn and in the child

- \* Cardiac malformations
- Gastro-intestinal:
  - \* Gastro-intestinal anatomy and semeiotic
  - \* Gastro-intestinal malformations and diagnostic investigations
  - \* Changes in anatomy and function after gastro-intestinal resections
  - \* Supported nutrition (PEG/PEJ and stoma)
- Liver
  - \* Liver, biliary tract and vascular anatomy
  - \* Liver semeiotic
  - \* Diagnostics in liver diseases
  - \* Liver and biliary tract malformation
  - \* Liver transplant
  - \* Who, from whom, why and how
  - \* Procedure and complications
- Genito-urinary tract
  - \* Genito-urinary tract anatomy
  - \* Genito-urinary tract malformations (hypospadias, phimosis, cryptorchidism, hymen imperforatus, etc):  
diagnosis, medical and surgical approach

## **Prerequisites**

Fundamentals of the human anatomy and physiology

## **Teaching form**

Frontal lectures  
Problem based learning  
Simulation activities

## **Textbook and teaching resource**

Nelson's Essentials of Pediatrics

## **Semester**

First

## **Assessment method**

Written test

**Office hours**

**Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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