



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Cardiovascular Anatomy II

2223-4-H4102D024-H4102D079M

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#### Aims

To provide the concepts necessary for understanding embryonic development of the respiratory system. To provide the concepts related to the anatomy of the chest wall including landmarks and gross anatomy of organs of the respiratory system including cardiovascular, lymphatic and nerve anatomic relations. Describe the microscopic anatomy of organs of the respiratory system.

#### Contents

The lessons will cover the most important aspects related to the embryological, anatomic and functional features of chest wall and respiratory system, with focus on the anatomic description of the chest wall, lung and pulmonary circulation. Students will acquire the basic knowledge required to recognize pleuropulmonary and chest anatomy and understand the location, spatial relationships and function of its most important structures including microscopic aspects. Clinical aspects related to anatomical structural abnormalities such as pectus excavatum, mediastinal syndrome, lobar pneumonia and pulmonary atelectasis, with the aid of radiological and endoscopic iconography too.

#### Detailed program

1. Anatomical concepts related to lung, pleural and chest wall embryology and development
2. Chest wall: anterior and posterior landmarks and anatomic border
3. Mediastinum and Thoracic cavity: landmarks, organs' content and relations

4. Pleural gross and microscopic anatomy
5. The lung: basic concepts regarding normal anatomic structure
6. Histology of respiratory system: structure, microscopic anatomy of trachea, bronchial tree and the functional unit of the lung: the secondary pulmonary lobule
7. Anatomical concepts related to lung and tracheobronchial tree, basic concepts of bronchial endoscopy
8. Anatomical concepts related to pulmonary and lymphatic circulation
9. Larynx and nervous system of chest wall, respiratory tree and diaphragm

## **Prerequisites**

Basic knowledge of fundamentals of biology, genetics, morphology, histology, physiology of the cardiovascular and respiratory system

## **Teaching form**

Preferentially synchronous manner and eventually video recorded

## **Textbook and teaching resource**

To be determined with the teacher

## **Semester**

First semester

## **Assessment method**

Integrated Written exam: 5 multiple-choice questions

## **Office hours**

on appointment by email.

**Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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