UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Respiratory Apparatus

2425-2-I0201D138-I0201D214M

Aims

- provide a good level of knowledge of the pathophysiology of the respiratory system that allows understanding the processes that underlie respiratory pathology.
- illustrate the meaning and usefulness of the fundamental functional respiratory tests (simple and global spirometry, blood gas analysis, exercise tests) to guide rehabilitation
- description of acute and chronic respiratory failure and the devices for oxygen and ventilatory support (both invasive and non-invasive)
- description of patients with chronic obstructive airway diseases (asthma and COPD) and indications for respiratory physiotherapy and rehabilitation.
- descriptions of acute (pneumonia) and chronic (non-cystic fibrosis bronchiectasis and cystic fibrosis) lung infections and the role of the respiratory physiotherapist (e.g. airway clearance technique)

Contents

respiratory system pathophysiology

respiratory function tests

Detailed program

asthma

COPD

bronchiectasis and cystic fibrosis

pneumonia

respiratory failure

oxygen therapy and pulmonary ventilation

Pulmonary function tests (obstructive vs. restrictive pattern)

Prerequisites

pulmonary anatomy and physiology

Teaching form

Classes in attendance

Textbook and teaching resource

Harrison’s: “Principles of Internal Medicine” Ed. McGraw

Semester

2nd semester

Assessment method

Described in the subject's syllabus

Office hours

by appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING