



**UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA**

SYLLABUS DEL CORSO

Malattie dell'Apparato Respiratorio

2627-2-I0101D011-I0101D034M

Aims

At the end of the course, students will be able to:

1. Knowledge and understanding:
Describe the characteristic signs and symptoms of major pneumological conditions. Explain the main underlying pathophysiological mechanisms. Recognize the essential stages of the diagnostic process and the most commonly used diagnostic tools. Describe the main therapeutic approaches and their clinical objectives.
2. Applying knowledge and understanding:
Relate observed clinical data (signs and symptoms) to the corresponding pathophysiological processes. Analyze the implications of diagnostic investigations for clinical and therapeutic decision-making.
3. Making judgements:
Critically reflect on diagnostic and therapeutic choices and on the patient care pathway.
4. Communication skills:
Present key clinical, pathophysiological, and therapeutic content using appropriate technical language.
5. Learning skills:
Develop independent learning skills by continuously expanding knowledge and competencies in line with the evolution of clinical practice and scientific evidence, promoting evidence-based care.

Contents

The course addresses the main clinical conditions within its scope, describing their signs and symptoms,

pathophysiological mechanisms, key elements of the diagnostic process, and therapeutic approaches.

Detailed program

Function and diagnostics of the respiratory system: medical history and respiratory physical examination; laboratory tests and arterial blood gas analysis. Respiratory pathophysiology. Diagnostic imaging. Bronchoscopy.

Chronic inflammatory diseases of the airways: bronchial asthma; chronic obstructive pulmonary disease (COPD); emphysema; bronchiectasis associated and not associated with cystic fibrosis. Principles of respiratory physiotherapy.

Interstitial lung diseases: focus on sarcoidosis and idiopathic pulmonary fibrosis.

Pleural diseases: pleuritis; pleural effusion; pneumothorax; mesothelioma. Focus on thoracentesis.

Respiratory tract infections: lower respiratory tract infections: community-acquired pneumonia, hospital-acquired pneumonia.

Acute and chronic respiratory failure: diagnosis of respiratory failure; causes of acute respiratory failure; oxygen therapy; non-invasive mechanical ventilation; tracheostomy.

Sleep-related breathing disorders.

Prerequisites

Defined by the academic regulations.

Teaching form

8 two-hour face-to-face lectures delivered in expository mode using a tele-teaching system.

Textbook and teaching resource

- Hinkle J.L., Cheever K.H. (2024) Brunner – Suddarth, Infermieristica Medico-Chirurgica, VI ed. Milano: Casa Editrice Ambrosiana, Vol. 1 e 2.

Course materials provided by the lecturer.

Semester

2nd Year, 2nd Semester.

Assessment method

See the course homepage.

Office hours

Faculty members are available by appointment, which can be requested via email:

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Sustainable Development Goals

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