UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

# Rheumatology

**2425-3-H4102D057-H4102D072M**

## Aims

- To learn the epidemiology of the main rheumatological diseases.
- To recognize the main signs and symptoms of rheumatological diseases.
- To interpret and critically evaluate the results of laboratory and imaging tests for diagnosis and monitoring.
- To acquire notions on the prognosis and on the measurement of the disease outcomes.
- To apply the knowledge acquired in the differential diagnostic reasoning of the principal rheumatological clinical presentations.
- To acquire notions on the pathogenetic basis of the therapy.

## Contents

### RHEUMATOLOGY

- Classification of rheumatic diseases.
- Elements of semeiotics (joint physical examination, laboratory tests, imaging).
- Inflammatory arthropathies, connective tissue diseases, vasculitis: epidemiology, clinical pictures, laboratory and instrumental investigations, diagnostic/ classification criteria, prognosis and pathophysiological basis of therapy.

## Detailed program

### RHEUMATOLOGY

- Introduction to rheumatology and classification of rheumatic diseases

**PRIMARY ARTHRITIS**

- Rheumatoid arthritis
- Axial and peripheral spondyloarthritis

**CRYSTAL ARTHROPATHIES**

- Gout
- Calcium Pyrophosphate Crystal Arthropathy (CPPD)

**CONNECTIVE TISSUE DISEASES**

- Systemic Lupus Erythematosus
- Systemic Sclerosis
- Dermatomyositis, Polymyositis and other inflammatory myopathies
- Undifferentiated connective tissue disease, mixed connective tissue disease and overlap syndromes
- Sjogren's syndrome
- Anti-phospholipid antibody syndrome

**SYSTEMIC VASCULITIDES**

- Classification of vasculitis
- Larve vessel vasculitis (Horton's arteritis / polymylagia rheumatica and Takayasu's arteritis)
- Polyarteritis nodosa
- ANCA-associated vasculitides
- immune-complex vasculitides
- Behcet's disease

**EXTRA-ARTICULAR RHEUMATISMS**

- Fibromyalgia

Gender differences in prevalence, clinical manifestations, outcome, treatment response of rheumatic diseases will be specifically addressed.

## Prerequisites

Have passed the exams indicated in the regulation with regard to the preparatory procedures.

## Teaching form

All lessons are conducted in person in a frontal mode:

- 8 frontal lessons of 2 hours each conducted in person
- 2 interactive lessons with small groups activities of 2 hours each conducted in person

## Textbook and teaching resource

- Firestein, G. S., Budd, R. C., Gabriel, S. E., McInnes, I. B., & O'Dell, J. R. (2020). *Firestein & Kelley's Textbook of Rheumatology-E-Book*. Elsevier Health Sciences.
- Eular Textbook on Rheumatic Diseases 3rd edition, 2018

## Semester

second semester

## Assessment method

The assessment of achieved objectives will be verified oral exam on the topics discussed during the course, with particular focus on the differential diagnosis.

## Office hours

Contact the Professor by e-mail

## Sustainable Development Goals

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