



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Infectious Diseases 1

2223-3-H4101D260-H4101D184M

Aims

INFECTIOUS DISEASES:

Etiology of major infectious diseases (bacterial, viral, fungal) and related clinical and laboratory typical signs for diagnosis and therapy.

Contents

To use the knowledge of Anatomy, Physiology, Biochemistry and others basic disciplines in dealing with organ and/or apparatus pathologies.

To be able to critically evaluate the commonly used diagnostic methods in medical practice.

To recognize the signs and symptoms of major diseases, to understand the results of laboratory and instrumental tests.

To know the pathogenesis and prognosis of the handled diseases.

Detailed program

INFECTIVE DISEASES

- Sepsis and septic shock

- Nervous system infections

- Meningitis (Etiology, Pathogenesis, Clinical manifestations, Diagnosis, Differential Diagnosis, N. meningitidis, S. pneumoniae, H. influenzae, L. monocytogenes)
- Encephalitis and encephalo-myelitis (Etiology, pathogenesis, clinical manifestations, diagnosis, herpes viruses, enterovirus, Tuscany Virus, West Nile Virus, Tick borne encephalitis virus)
- Rabies
- Nervous system diseases mediated by bacterial toxins (tetanus, botulinum)
- Brain abscess and subdural empyema

- Respiratory system infections

- Diphtheria
- pharyngitis / tonsillitis
- Epiglottitis / laryngitis / tracheitis
- Bronchitis
- Viral pneumonia
- Bacterial pneumonia
- Flu
- Tuberculosis
- COVID-19

- Infections of the cardiovascular system

- Infective endocarditis (Etiology, clinical manifestations and complications, diagnosis)
- Myocarditis and infectious pericarditis (clinical manifestations and complications, principles of diagnosis)

- Infections of the digestive system

- Etiological and pathophysiological classification
- Typhoid fever
- Food poisoning (staphylococcal, botulism, C. perfringens, V. parahaemolyticus, B. cereus)
- Viral gastroenteritis (Norwalk, Rotavirus, other viruses involved)
- Bacterial gastroenteritis (minor salmonellosis, cholera, E.coli, Shigella, Campylobacter, Listeria, C. difficile)
- Diarrhea due to protozoa (giardiasis, amoebiasis, cryptosporidiosis)
- Diarrhea due to helminths (tapeworm, oxyuriasis, ascariasis)

- Tropical diseases

- Malaria (Epidemiology, life cycle, pathogenesis, typical and atypical presentation, complications and prognosis, diagnosis, differential diagnosis between plasmodia)
- Schistosomiasis (Lifecycle, Clinic: acute form, chronic forms, Diagnosis)
- Tropical Arbovirosis (Yellow Fever, Dengue, Chikungunya, West Nile Virus)

- Infections of the tegumentary system and skeletal muscle:

- Cellulitis
- Erysipelas
- Gas gangrene
- Necrotizing fasciitis
- Primitive and prosthetic septic arthritis
- Primitive and prosthetic osteomyelitis
- Spondylodiscitis

- HIV infection

- History
- Epidemiology
- HIV Replication cycle
- Natural history of infection
- Immunopathogenesis
- Main opportunisms, by apparatus
- Diagnosis of acute and chronic infection

- Urinary tract infections and sexually transmitted diseases

- Cystitis
- Pyelonephritis
- Syphilis
- Gonorrhea
- Non-gonococcal urethritis

- Diseases of the reticuloendothelial system

- Mononucleosis
- CMV
- Brucellosis
- Visceral leishmaniasis
- Lyme disease
- Toxoplasmosis
- Rickettsioses
- Q fever

Prerequisites

See "Patologia medico-chirurgica 3"

Teaching form

Lessons in attendance, subject to any ministerial changes following the COVID pandemic situation

Textbook and teaching resource

Mauro Moroni, Roberto Esposito, Spinello Antinori. *Malattie Infettive*. Edizione Masson 8° edizione, 2014

Semester

second semester

Assessment method

The assessment of achieved objectives will be verified with written tests and oral exam. 33 single-answer questions with 4 answers of which only one exact (30 points) and oral exam (30 points).

The student who refuses a score >20 cannot participate in the next exam session.

Office hours

Contact the Professor by e-mail: segreteria.malattieinfettive@asst-monza.it; paolo.bonfanti@unimib.it; giuseppe.lapadula@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
