

Faculty of Medicine



MED2332

Strategy for the optimal use of the laboratory and of therapies in infectious diseases

[15h] 2 credits

This course is taught in the 2nd semester

Teacher(s): Michel Delmée, Gerald Glupczynski, Patrick Goubau, Francis Zech
Language: French
Level: Second cycle

Aims

The course aims at defining the optimal use of resources of the laboratories of bacteriology and virology for diagnosing and treating infectious diseases and of the antimicrobial drugs. It considers the choice of appropriate tests and the interpretation of the results. It gives an update on epidemiological data.

Main themes

Optimal use of microbiology laboratory : indications and choice of tests; microscopy and antigen detection; culture, serology, nucleic acid detection.
 Interpretation of results.
 Update on epidemiology of infectious diseases.
 Optimal use of antimicrobial agents.
 Diagnostic and therapeutic strategies for difficult infectious diseases.
 The course is organised on the basis of typical clinical cases.

Content and teaching methods

Contents and methods
 Role of the bacteriology laboratory in clinical practice.
 Antimicrobial susceptibility testing : techniques and interpretation.
 Epidemiology of antimicrobial resistance
 Diagnosis of viral hepatitis
 Diagnosis of exanthema
 Diagnosis of viral respiratory infections
 Diagnosis, prevention and outcome of viral infections in pregnant women
 Diagnosis and treatment of tuberculosis
 Diagnosis and treatment of endocarditis
 Diagnosis of infections of prosthetic material and catheters
 Diagnosis and treatment of CNS infections

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

The course consists of a series of public lectures.
 Prerequisite : Courses of Clinical Microbiology and of Infectious diseases.
 Evaluation : oral or written examination.