



Viral Infections

CU characterization:

CU name:

Viral Infections

Scientific area acronym:

TM

Duration:

Semiannual

Working hours:

196

Contact hours:

64

ECTS:

7

Observations:

NA

Teacher in charge and respective teaching load in the CU:

Márcia Melo Medeiros – 18,5 hours

Other teachers and respective teaching load in the CU:

Celso Cunha – 7,5 hours

Jaime Nina – 13 hours

João Piedade – 10,5 hours

Kamal Mansinho – 3,5 hours

Ricardo Parreira – 7 hours

Intended learning outcomes (knowledge, skills, and competences to be developed by the students):

By the end of this CU, students should be able to:

- I. Understand the basic concepts of virology.
- II. Know the main viral infections transmitted between humans, by vectors or by mammals.



Syllabus:

- I. Basic concepts of virology.
- II. HIV/AIDS infection: epidemiology, pathophysiology, immunology, clinical presentation, diagnosis, treatment, prevention, and control.
- III. Viral diseases transmitted by vectors or mammals: Dengue, Zika, Chikungunya, yellow fever, West Nile virus infection, Japanese encephalitis, Ebola and Marburg haemorrhagic fevers, rabies - epidemiology, pathophysiology, immunology, clinical presentation, diagnosis, treatment, prevention, and control.
- IV. Viral hepatitis - epidemiology, pathophysiology, immunology, clinical presentation, diagnosis, treatment, prevention, and control.
- V. Neglected, emerging, and re-emerging viral diseases.
- VI. Covid-19: epidemiology, pathophysiology, immunology, clinical presentation, diagnosis, treatment, prevention, control, and vaccines.

Teaching methodologies (including assessment):

Lectures of a theoretical and theoretical-practical nature, as well as seminars with extensive debates, in which the basic concepts are conveyed with audiovisual support.

Interpretation of problems, particularly clinical cases, to promote the application of knowledge and concepts learned in the more formal teaching of the module.

Assessment will always be written, either in the form of open questions, consultation, problem solving, e.g. discussion of alternatives to individual clinical cases or localised outbreaks, or in other ways deemed more appropriate to the specific content. Attendance at 2/3 or more of lectures and seminars is a prerequisite for formal assessment. Oral examinations are reserved for special situations where the number of students to be assessed is very small.

References for consultation / mandatory existence:

- Jeremy Ferrar, Peter J. Hotez, Thomas Junghanss, Gagandeep Kang, David Laloo & Nicholas White (eds.). "Manson's Tropical Diseases". 23rd ed. 2016. London, Elsevier BV.
- David Mabey, Geoffrey Gill, Eldryd Parry, Martin W. Weber & Christopher J. M, Whitty (eds.). "Principles of Medicine in Africa". 4th ed. 2013. Cambridge, Cambridge University Press.
- Alan J. Magill, Edward T. Ryan, David R. Hill & Tom Solomon (eds.). "Hunter's Tropical Medicine and Emerging Infectious Diseases". 9th ed. 2013. London, Saunders Elsevier.
- W. Michael Scheld, M. Lindsay Grayson & James M. Hughes (eds.). "Emerging Infections 9". 2010. Washington D.C., American Society for Microbiology Press.