

One health in emergent diseases and in special situations

Organization: Universitat Autònoma de Barcelona

Teaching unit coordinator: Laila DARWICH

Position: Professor

Teaching unit outline

The biology, epidemiology, pathology, diagnosis and control mechanisms of the exotic and emergent diseases and the zoonoses in special situations will be presented under the OH approach in monographic sessions and round tables or debates. These special situations comprise: HIV immunosuppressed populations, emergency sanitation and health system management in low-income countries. A One Health vision of the topics will be implemented and the particularities of tropical and subtropical ecosystems will be studied with special emphasis in the endemic zoonotic microorganisms' lifecycles and the importance of vectors and the globalization effect on OH (international human transits and animal-plant free trade).

Topics addressed

Emergent and re-emergent pathogens: Introduction and risk assessment in exotic and emergent zoonoses (effect of climatic change in vectors and diseases; arbovirosis ; entomology; surveillance systems and vector control; other viral zoonoses: ebola outbreaks ; hepatitis E ; *C difficile*, and tropical parasites (epidemiology, clinics, diagnose and treatment of malaria; helminths; neurocysticercosis; trypanosomiasis)

Veterinary Border control: role and mission of veterinary border inspection posts (BIPs)

Management of zoonoses in situations of public health alerts, threats or emergency sanitation: management of epidemics and public health crisis; risk communication in emergencies; risk assessment and contingency protocols.

Zoonoses in HIV and immunodepressed population: VIH situation updates; role of pets and companion animals as a zoonotical risk; New therapies in immunosuppressed patients.

Control and management of zoonoses in low-income countries: public health, risk evaluation and communication in developing countries

Lab practices : entomology identification; parasitology

External visits: the Clinical Lab of Vall d'Hebron Hospital in Barcelona

Workshop : Humanitarian Emergency response (NGOs)

ECTS	Lectures and seminars	Tutorials and supervised work	Practical work	Digital learning	Personal work
9	58 hours	21h	13 hours		133 hours

Assessment method

Attendance and active participation in class	10 %
Attendance and active participation in the laboratory practices	20 %
Self-learning activities, deliverables and work oral expositions	40 %
Evaluation test of theoretical and practical content	30 %