

## M. Sc. Infectious Diseases and One Health

## Module III of VII

### Epidemiology Week

Module: Epidemiological Surveillance and Risk Analysis (Epidemiology Week) – inserted in the programme of the module: “One Health in Emergent Zoonoses and Special situations”

#### Organization:

Universitat Autònoma de Barcelona

#### Teaching staff:

Prof. Alberto Allepuz, Prof. Jordi Casal

#### Teaching unit outline

The epidemiology week provides a brief introduction to the most common epidemiological and surveillance concepts and tools. During the week concepts on surveillance, outbreak investigation, spatial analysis and epidemiological studies will be introduced and combined with several hands-on exercises and discussions.

#### Topics

- Questionnaires and sampling
- Introduction to GIS
- GIS and Introduction to spatial analysis
- Introduction to surveillance and discussion about its design
- Descriptive epidemiology
- Outbreak investigation
- Epidemiological studies
- Epidemiological analysis: interpretation and discussion of results

#### Assessment method:

- Specific questions within the final exam of module 4.