EpiSouth

Network for the Control of Public Health Threats
in the Mediterranean Region and South East Europe

Welcome to the Episouth Outbreak investigation& Spatial analysis of surveillance data: Cluster analysis course

IPH of Serbia" Dr Milan Jovanovic Batut"
Belgrade, 8-12 April 2013

Welcome everybody !

- The group:
  - 12 participants from the Balkan (1 from Albania, 2 from Bosnia, 2 from Macedonia, 2 from Montenegro and 5 from Serbia)
  - 2 participants from Israel
  - 2 participants from Tunisia

→ … in total, 16 participants

Facilitators and organizers

- Marie Dernicka Belizaire
- Vinciane Sizaire
- Lola Fernandez
- Concha Martin
- Fernando Vallejo
- Diana Gomez
- Danijela Simic, Goranka Loncarevic, Jelena Obrenovic
- Dragana Plavsa

Two parts

- Outbreak investigation in the first 3 days
- Spatial analysis of surveillance data: Cluster analysis in the last 2 days

Outbreak investigation -3 days

- Daily start at 9 am and finish at 5 pm
  - 5 lectures
  - 2 presentations on computer tools
  - One case study

- Wednesday: Final evaluation of the first part of course
- **Pen drive in the end (of the week)**

Objectives of the first part of course- first 3 days

to conduct an outbreak investigation

from

data entry mask design

to

interpretation &

communication of the results

… some theory…

… and lots of practice

Material

- Guide for the practical exercise on a gastro-enteritis outbreak in Camarma, 2002 (distributed each morning for the activities of the day)
- One computer per participant
- Three files: databases to be used in EpiInfo and in Excel

Methodology

- Individual work: practical exercises on EpiInfo or Excel as indicated in the guide
- Group work: for answering the questions related to methodological and technical aspects of outbreak investigation
- Final work on results communication in 4 groups:
  - Communication to the politics
  - Communication to the population
  - Communication to a scientific meeting
  - Abstract for a scientific publication

Spatial analysis - last 2 days

Objectives:

- Describe and analyse the spatial distribution of surveillance data
- Improve computer skills using Geographical Information Systems (GIS) and Google Earth
- Perform statistical analysis of cluster data

Spatial analysis

Methodology:

This part will focus on the practical aspects of spatial data

- Lectures
- Case studies:
  - Part I: How to manage Google Earth and gvSIG
  - Part II: How to perform a cluster analysis
- Final presentation

Enjoy !

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