Programming in STATA (28879-01)

1 ECTS

Methods: Lectures and practical sessions.

Assessment: Assignments and student presentations

Time: Wednesdays, 10:15-12:00

Dates: starts 16.09.2015, 8 weeks

Place: Swiss TPH, Socinstrasse 55a, seminar room 3

Remarks: please bring your own laptops with STATA version 10 or higher installed. Participants are required to have a basic familiarity with STATA (Lecture of Biostatistics or equivalent knowledge)

Workload: 28 hours

- Lectures (contact hours): 7 lessons of 1 hours = 7 hours
- Practicals: 7 practicals = 6 hours
- Reading/study/assessment: 15 hours

Objectives: To use STATA more efficiently; to have the ability to write own STATA commands; to understand the concepts of loops and macros to automate repetitive tasks

Description: STATA has a simple and intuitive structured programming language. With an understanding of basic programming concepts – like looping, branching and macro variables – STATA becomes a very flexible and powerful application. Programming skills are useful for batch processing. In addition, epidemiologists are sometimes confronted with statistical problems that cannot be solved through standard procedures but might be solved easily by experienced programmers. Tasks and exercises reflect situations encountered in real life including: construction of bootstrap confidence intervals or Monte Carlo simulations to determine the required sample size. In addition the lecture provides the skills to programme own STATA commands.

The lecture assumes that participants are familiar with STATA, have some basic statistical knowledge and an own laptop with STATA version 10 or higher installed.

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