EpiData Software for Operations Research in Tuberculosis Control

A course developed in collaboration with the EpiData Association and the International Union Against Tuberculosis and Lung Disease

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Note on versions of EpiData software: Always use the most recent release version of EpiData software which can be obtained freely from the EpiData website http://www.epidata.dk. The course is updated at least whenever a new version requires adaptation or following an in-class course, whichever comes earlier.

Course content

Part A: EpiData Entry

Exercise 1 A data documentation sheet for a simple questionnaire

Exercise 2 The QES-REC-CHK triplet

Exercise 3 Derived fields and Check file commands unrelated to a specific field

Exercise 4 Data entry and validation

Exercise 5 Using an external file for label blocks

Exercise 6 Dealing with incomplete dates

Exercise 7 Keeping track of data entry time

Exercise 8 Safely backing up and encrypting your data

Part B: EpiData Analysis

Exercise 1 An introduction to EpiData Analysis

Exercise 2 More on EpiData Analysis

Exercise 3 Aggregating data and saving the summary data in a file

Part C: Operations research

Exercise 1: Creating a working dataset

Exercise 2: Variability in serial smears

Exercise 3: Incremental yield from serial smears

Exercise 4: Confirmatory results in serial smears

Part D: More on EpiData software

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Exercise 2: A statistical process control chart

Exercise 3: A simplified survival analysis

Exercise 4: Creating a menu for standard reports

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Part E: Beyond EpiData Analysis using R

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Exercise 2: Introduction to R software: data bases and functions

Exercise 3: Multivariable analysis in R part 1: A logistic regression

Exercise 4: Multivariable analysis in R part 2: A Cox proportional hazard model