Module description

Module title
Biometry I

Abbreviation
03-KFE-02a-152-m01

Module coordinator
Institute of Clinical Epidemiology and Biometry (ICE-B)

Module offered by
Faculty of Medicine

ECTS
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Method of grading
Only after succ. compl. of module(s)

Duration
1 semester

Module level
Graduate

Other prerequisites
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Contents
Basics of the statistical software SPSS; data preparation; descriptive statistics; basic methods of inference statistics. Advanced part: statistical modelling by multiple regression for metric, binary, ordinal and survival data.

Intended learning outcomes
The students are able to create data tables, to import and export data, to pool and merge as well as to transform and recode data. They have learned to describe data numerically by statistical measures and to represent it graphically. They are familiar with significance tests and confidence estimates as well as fundamental methods for one and two-sample problems. Advanced part: The students perform multiple regression analyses by the general linear model, binary and ordinal logistic regression as well as Cox regression (including time-dependent covariates) and are able to test for interaction effects.

Courses
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Method of assessment
a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes).

Allocation of places
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Additional information
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Referred to in LPO I
(examination regulations for teaching-degree programmes)

Module appears in
Bachelor's degree (1 major) Biomedicine (2015)
Master's degree (1 major) Experimental medicine (2015)