Module title: Developmental Neuroimaging

Abbreviation: 03-TN-DI-142-m01

Module coordinator: University Hospital, Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy

Module offered by: Faculty of Medicine

ECTS: 5

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

Duration: 1 semester

Module level: graduate

Other prerequisites: --

Contents:

Fundamentals of fMRI signal (BOLD response), preprocessing of fMRI data and the definition of single-subject models, the analysis of behavioural data of the experimental paradigm and its implementation into first-level analyses, group (second-level) analyses of fMRI data, ANOVA models, multiple regression models.

Intended learning outcomes:

Students who successfully completed this module will have acquired insights into the basics of fMRI data analysis, preprocessing of functional and anatomical MR data. Behavioural data during an attentional paradigm will be analysed and implemented into the statistical analysis of brain activation patterns from patients with and without ADHD.

Courses:

S + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment:

methods of assessment: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes); students will be informed about the method, length and scope of the assessment prior to the course.

Allocation of places:

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Additional information:

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Referred to in LPO I: (examination regulations for teaching-degree programmes)

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Module appears in:

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