

Name: Thomas Ondra



Research Group: Univ.-Prof. Mag. Dr. Martin Posch
Department: Section for Medical Statistics
Current academic degree: BSc, MSc
Previous University: University of Vienna
PhD Thesis: Design and Analysis of Clinical Trials for the Identification and Confirmation of Targeted Subgroups.
Project title: InSPiRE, „Innovative methodology for small populations research“

Project description:

The aim of the project is the development of novel methodology for the design and analysis of clinical trials in small populations. We will focus on four specific areas where we believe there are particular challenges: (i) early phase dose-finding studies in small populations, (ii) decision-theoretic methods for clinical trials in small populations, (iii) confirmatory trials in small populations and personalised medicines, (iv) use of evidence synthesis in the planning and interpretation of clinical trials in small populations and rare diseases. In the rare disease setting, we will focus on Bayesian and decision-theoretic methods that formally enable comparison of the gain in information with the cost, both in economic and opportunity terms, of clinical experimentation, and assess how information from outside the trial can formally be incorporated in the design and decision-making processes. In the personalised medicine setting, we will develop methods that allow evaluation of efficacy in a number of sub-populations simultaneously in a confirmatory clinical trial without any reduction in scientific or statistical rigour.