Goals of the Course

In the CAS in Clinical Research you will learn to plan and conduct clinical research projects for a well-defined research question, to describe data from clinical studies, and to apply statistical methods and regression models commonly used in clinical research. The CAS also covers prognostic research and systematic reviews of multiple studies and meta-analyses of their results. Finally, you will also learn how best to communicate the results of clinical research.

At the end of the CAS in Clinical Research, participants:

• Have a thorough understanding of the importance of having a precise research question and how to translate this question into the design, implementation, and analysis of various types of studies in clinical research: observational studies, diagnostic and prognostic studies, randomized controlled clinical trials, systematic reviews and meta-analyses.

• Can apply statistical methods to describe data from clinical studies and use regression models (linear, logistic, Cox, Poisson) commonly used in clinical research, and be able to use a statistical software (Stata).

• Can assess study designs and protocols and published studies with regard to the quality of study implementation, data acquisition, measurement methods, and analysis.

• Can interpret the results of clinical studies, and discuss their strengths and limitations and the relevance for treatment decisions.
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