



**University
of Basel**

Department of
Clinical Research



**University Hospital
Basel**

Methodology & Statistics in Clinical Research

Courses | Seminars | Workshops

ADVANCED STUDIES

Course portfolio

Profound understanding of research methodology and the statistical principles underlying evidence-based science are key requisites for planning, conducting and assessing clinical research projects.

Our portfolio of courses and seminars provide state-of-the-art knowledge and practical competences for a broad range of basic and advanced topics around research methodology and statistics in clinical research.

Target audience

Training offers are open to everyone. They are especially designed to meet the needs of doctorate students in Health Sciences, (MD-) PhD students and young scientists in clinical research.

Course fees

Course fees range from free-of-charge to CHF 1'500.

Statistics in Clinical Research	
Seminar series: Statistics in clinical research	Learn how to develop a scientifically and statistically solid research question and analysis plan, and get an introduction to the correct use and interpretation of the most important statistical tools in clinical research. <i>9 times 1.5 hours</i>
Understanding Statistics and Methodology in Clinical Research	Learn to thoroughly understand the statistical and methodological concepts encountered in clinical research projects through the unravelling of key medical publications, from the abstract to the concluding remarks. <i>6 times 4 hours</i>
Applied Statistics using R: Analysing medical data	Learn programming techniques using the open-source software R for processing, analysing and presenting your data. Basic statistical knowledge required. <i>3 days</i>

Research Methodology

Designing Clinical Research for Beginning Investigators	<p>Follow a practical guide addressing basic and advanced concepts in clinical research, incl. clinical trials, patient-reported outcomes and translational research, epidemiological, behavioural and health services studies.</p> <p><i>12 times 2 hours</i></p>
Essentials in Health Research Methodology	<p>Gain overview of the state of the art research methods commonly used in Health Sciences, hereby facilitating your understanding of research methodology as a whole.</p> <p><i>4 days</i></p>
Good Research Practice: Ten Simple Rules for Clinical Research	<p>Get to know 10 simple rules of good research practices and learn how to identify potential pitfalls and how to overcome them to enhance the quality and reproducibility of your own research.</p> <p><i>10 times 1 hour</i></p>
Pragmatic trials: Study designs for real-world decision-making	<p>Follow a step-by-step guide providing an in-depth understanding of the historical foundations and philosophy of clinical trial conception and cutting-edge developments in pragmatic trial design.</p> <p><i>10 times 1 hour</i></p>
Real World Evidence: Routinely collected data for clinical research	<p>Receive an introduction to the concepts of Real World Evidence with non-randomised and randomised study designs.</p> <p><i>4 times 3 hours</i></p>

Information & Registration

<https://dkf.unibas.ch/en/training-and-education/>





Educating Talents since 1460.

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