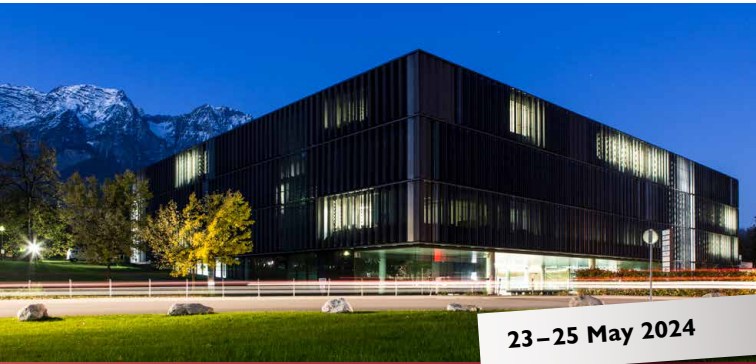


HTADS Continuing  
Education Program

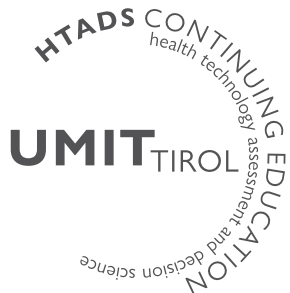


23–25 May 2024

3-DAY CERTIFIED UNIVERSITY COURSE

# Advanced Systematic Reviews and Meta-Analysis

online



# What is the Continuing Education Program on Health Technology Assessment & Decision Science (HTADS)?

Prof. Uwe Siebert, MD, MPH, MSc, ScD  
HTADS Program Director

## Health Technology Assessment (HTA)

has been defined by the International Network of Agencies for HTA (INAHTA) as “a multidisciplinary field of policy analysis studying the medical, economic, social, and ethical implications of development, diffusion and use of health technologies (e.g., drugs, devices, surgical procedures, prevention techniques)”. In conducting HTA, the discipline of decision science has become increasingly relevant.

## Decision Science (DS)

is the application of explicit and quantitative methods to analyze decisions under conditions of uncertainty (e.g., meta-analysis, decision-analytic modeling, cost-effectiveness analysis). In recent years, HTA and DS have become very important to health care policymakers. In order to keep pace with these developments, the UMIT TIROL – HTADS Program was designed to provide excellent quality education and comprehensive training in the key issues of HTA and DS for anyone involved in the health sector. The course faculty is drawn from leading international experts from universities, industry, HTA agencies and representatives from other relevant areas who are committed to provide independent teaching of state-of-the-art principles.

## Target Audience

The 3-day virtual meta-analysis course for health professionals is designed to provide an introduction to advanced methods for conducting meta-analyses. Topics covered include frequentist and Bayesian meta-analysis, meta-regression, subgroup analyses, and methods to investigate heterogeneity, as well as methods network for meta-analysis and diagnostic accuracy, and the role of meta-analysis in clinical guideline development, HTA, and decision making. The course will be interactive and practical, with a mixture of lectures and hands-on tutorials. Computer exercises will be conducted.

## Course Faculty

### Prof. Daniela Schmid, PhD, MSc

Head, Division for Quantitative Methods in Public Health and Health Services Research, Department of Public Health, Health Services Research and HTA, UMIT TIROL – University for Health Sciences and Technology, Hall in Tirol, Austria

### Lisa M. Hess, PhD

Indiana University, USA

### Mark Belger, BSc

Mathematical Statistics and Operational Research, Eli Lilly, UK

### Marjan Arvandi, PhD, MSc

Senior Scientist, Institute of Public Health, Medical Decision Making and HTA, Department of Public Health, Health Services Research and HTA, UMIT TIROL – University for Health Sciences and Technology, Hall in Tirol, Austria

### Prof. Thomas A. Trikalinos, MD, PhD

Professor of Health Services, Policy & Practice and Biostatistics Director, Center for Evidence Synthesis in Health, Department of Health Services, Policy & Practice and Biostatistics, Brown University School of Public Health Providence, RI, USA

## Course Description

The overall aims of this course are to enable participants:

- To understand the steps to develop a metaanalysis, including defining the research question, extracting the data, choosing the appropriate analytic method, and reporting the results
- To develop and implement an analysis plan, including determining the outcome and effect measure to be used, selecting between fixed and random effects models, assessing heterogeneity, bias, and study quality
- To understand differences between Bayesian and frequentist approaches and to be able to select the appropriate method
- To understand the principles of indirect treatment comparisons and to carry out network meta-analysis

- To understand the principles of combining diagnostic test accuracy and to conduct meta-analysis of diagnostic studies
- To review the required elements for publication of a meta-analysis
- To evaluate the role of meta-analysis in health technology assessment

Participants should have some basic knowledge on systematic reviews and meta-analysis. Course language is English.

## Further HTADS Courses

### Introduction to Systematic Reviews and Meta-Analysis – ONLINE

3-Day Certified University Course, 28–30 September 2023

### Scientific Reporting and Writing

3-Day Certified University Course, 16–18 November 2023

### Introduction to Health Economics and Health Technology Assessment

3-Day Certified University Course, 29–31 January 2024

### Winter School in Clinical Epidemiology

5-Day Certified University Course, 12–16 February 2024

### Causal Inference for Assessing Effectiveness in Real World Data and Clinical Trials

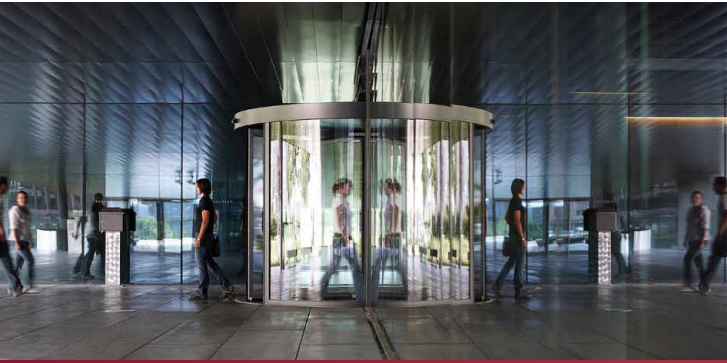
5-Day Certified University Course, 18–22 March 2024

### Modeling Approaches for HTA: A Practical Hands-on Workshop

3-Day Certified University Course, 03–05 April 2024

### Scientific Reporting and Writing – ONLINE

3-Day Certified University Course, 02–04 May 2024



## Registration Fee

- **Course fee academic/public** ..... Euro 1,450  
*Early booking fee until 14 April 2024* Euro 950
- **Course fee commercial** ..... Euro 2,950  
*Early booking fee until 14 April 2024* Euro 2,450

- **Discounts**

- **Group Registrations – Save 15%**

- Register with three or more colleagues and save!

- **Alumni – Save 20%**

- UMIT TIROL Alumni or if you have previously participated in a Continuing Education Program Course on HTADS, you are eligible for a discount on this course.

Course fee includes course materials and course certificate. Certificates will be provided to all participants. You can earn 5 ECTS credits if you successfully complete the online exercises, actively participate during the attendance period of the course and pass the online exam.

**Registration for this course can be made online. Payment details and cancellation policy are available on [www.htads.org](http://www.htads.org)**

**In case of international travel restrictions, the course will be organized as synchronous online course.**

## Contact & Course Location

**Continuing Education Program on  
HTA & Decision Science (HTADS)**

**Institute of Public Health, Medical Decision  
Making and HTA**

**UMIT TIROL – University for Health Sciences  
and Technology**

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HTADS Newsletter:

[www.umit-tirol.at/htads-news](http://www.umit-tirol.at/htads-news)