18–20 April 2024

3-DAY CERTIFIED UNIVERSITY COURSE

Introduction to Systematic Reviews and Meta-Analysis

online

Registration Fee

▪ Course fee academic/public . . . . Euro 1,450
   Early booking fee until 03 March 2024　　　*Euro 950*

▪ Course fee commercial . . . . Euro 2,950
   Early booking fee until 03 March 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 and
actively participate during the attendance period of the course.

**Registration for this course can be made online.
Payment details and cancellation policy are available on
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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UMIT TIROL

HTADS CONTINUING EDUCATION
health technology assessment and decision science

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 analyse 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.

Course Faculty

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

Lisa M. Hess, PhD, MSc
Research Advisor, Global Patient Outcomes, Eli Lilly and Company/ Indiana University, USA

Rachel Richardson, MA, MBA
Methods Support Unit Manager, Evidence Production and Methods Directorate, Cochrane Central Executive Team, UK

Jan Stratil, BSc, PhD
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

Uwe Siebert, MD, MPH, MSc, ScD
Professor of Public Health (UMIT TIROL), Adjunct Professor of Epidemiology and Health Policy & Management (Harvard University), Former President of the Society for Medical Decision Making (SMDM), Chair, Dept. of Public Health, Health Services Research and HTA, UMIT TIROL – University for Health Sciences and Technology, Hall in Tirol, Austria

Further HTADS Courses

Scientific Reporting and Writing
3-Day Certified University Course, 16 – 18 November 2023

Causal Inference for Assessing Effectiveness in Real World Data and Clinical Trials – ONLINE
A Practical Hands-on Workshop
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 Course, 02 – 04 May 2024

Advanced Systematic Reviews and Meta-Analysis – ONLINE
3-Day Certified University Course, 23 – 25 May 2024

Target Audience

The three-day meta-analysis course for students and professionals in health & life sciences and health care is designed to provide an introduction to methods for conducting systematic reviews, evidence synthesis and meta-analyses. We will cover how to formulate an answerable research question, define inclusion and exclusion criteria, select appropriate databases, generate a search code, extract data assess study quality and risk of bias, and perform a meta-analysis. We will introduce statistical methods (fixed-effects and random-effects models), subgroup analyses, heterogeneity, reporting a meta-analysis and the role of meta-analysis in clinical guideline development, health technology assessment and decision-making. The course will be interactive and practical, with a mixture of lectures and hands-on tutorials with data extraction and computer exercises.

Course Description

The overall aims of this course are to enable participants to:

- Formulate an answerable research question along the PICO (Population, Intervention, Comparator, Outcome) framework
- Perform a systematic literature review, including selection of databases, development of a search code, defining inclusion and exclusion criteria, data extraction and quality & bias assessment
- Develop and implement an analysis plan, including determining the interventions, the outcomes and effect measure to be used
- Understand the principles of fixed- and random-effects models and their differences
- Critically assess study quality and risk of bias
- Identify and explain heterogeneity
- Program specific software to perform a meta-analysis
- Report and interpret the results of meta-analyses
- Understand the role of meta-analysis in clinical guideline development, health technology assessment and decision making

There are no pre-requisites for this course.
Course language is English. Both native and non-native English speakers are welcome.