

HTADS Continuing  
Education Program



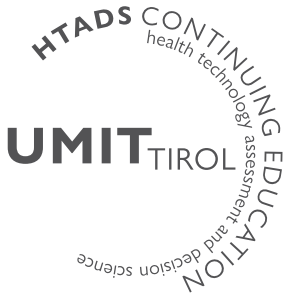
**03–05 April 2024**  
**Hall in Tirol, Austria**

**3-DAY CERTIFIED UNIVERSITY COURSE**

# Modeling Approaches for HTA

## A Practical Hands-on Workshop

**New Feature: International modeling  
experts panel session**



# 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 policy-makers. 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 Certified University Course in Modeling Approaches for HTA is created for members of

- Healthcare & health policy organizations, national HTA agencies
- Pharmaceutical & medical device industry
- Academia and research institutions
- Health insurances/sickness funds
- Consultancy organizations



## Course Description

There are a number of other modeling courses focusing on either theory or only selected modeling approaches. In contrast, our course combines theoretical concepts with practical hands-on exercises comprising five different modeling techniques applied in Public Health and HTA. We will use four different software packages depending on the modeling area. Real world case examples from different acute and chronic diseases will be discussed.

### Day 1

- Modeling overview and taxonomy
- Decision trees, state-transition models (Markov models) and partitioned survival models
- Handling uncertainty and variability

### Day 2

- Microsimulation models
- Discrete event simulation models
- Handling individual behavior and waiting lines

### Day 3

- Infectious disease models
- Handling dynamic transmissions and herd immunity
- COVID-19 Modeling – international expert session (covering dynamic transmission modeling approaches e.g. agent-based models)

For this course, basic knowledge of spreadsheet programs (e.g., MS Excel) is recommended. Experience in other software tools used in the workshop (e.g., TreeAge, Arena, Berkeley Madonna) is not required. The course language is English.

## Course Faculty

### Assoc.-Prof. Beate Jahn, PhD

Associate Professor and Head of the Program for Personalized and Precision Medicine, Past President ISPOR Chapter Austria, Former Vice President of the Society for Medical Decision Making (SMDM), Institute of Public Health, Medical Decision Making and HTA, UMIT TIROL – University for Health Sciences and Technology, Hall in Tirol, Austria

### Professor Emeritus, Ron Goeree, MA

Department of Clinical Epidemiology and Biostatistics, McMaster University, Canada  
Goeree Consulting Limited, Canada

### Prof. Mirjam Kretzschmar, PhD

Chief Science Officer Mathematical Disease Modelling, National Institute of Public Health and the Environment (RIVM), The Netherlands, Professor in Dynamics of Infectious Diseases, Julius Centre for Health Sciences & Primary Care, University Medical Centre Utrecht, The Netherlands

### Prof. 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

### 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

A Practical Hands-on Workshop, 5-Day Certified University Course, 18–22 March 2024

### Scientific Reporting and Writing – ONLINE

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

### Advanced Systematic Reviews and Meta-Analysis – ONLINE

3-Day Certified University Course, 23–25 May 2024

# Registration Fee

▪ **Course fee academic/public** ..... Euro **1,450**  
Early booking fee until 15th of January 2024 Euro 950

▪ **Course fee commercial** ..... Euro **2,950**  
Early booking fee until 15th of January 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 fees include a comprehensive syllabus, an extensive binder with background reading material, a course certificate, snacks and lunch, but not travelling and accommodation. Certificates will be provided to all participants. You can earn 3 ECTS credits if you pass the exam at the end of the course.

**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 Modeling Approaches for HTA Course 2024 will be organized as synchronous online course.**

# Quotes from Recent Participants

*“Very good overview of different modeling approaches, good number of theory and practical input”*

*“Huge review of modeling techniques”*

*“High level”*

*“Very good tutorials”*

*“Individual assistance during the exercise sessions”*

*“Very professional”*

*“High quality of the 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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**[www.htads.org](http://www.htads.org)**

HTADS Newsletter:

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