

HEIDELBERG HEALTH ECONOMICS WINTER SCHOOL 2023

Heidelberg Health Economics Winter School 2023

Studio Villa Bosch, February 06 – 10, 2023

International Faculty	Scientific Program
<ul style="list-style-type: none"> ↪ Prof. <i>Amanda Adler</i> (London & Oxford) ↪ Dr. <i>Richard Baird</i> (Cambridge) ↪ Dr. <i>Cinzia Brunelli</i> (Milan) ↪ Dr. <i>Andrew Bruce</i> (Sydney, NSW) ↪ Prof. <i>Heiner Bucher</i> (Basel) ↪ Prof. <i>Soren Holm</i> (Manchester & Oslo) ↪ Dr. <i>Mohit Jain</i> (London) ↪ Dr. <i>Gergő Merész</i> (Budapest) ↪ Prof. <i>Jorge Mestre-Ferrandiz</i> (Madrid) ↪ Prof. <i>Dan Ollendorf</i> (Boston, MA) ↪ Prof. <i>Ulf Persson</i> (Lund) ↪ Prof. <i>Maarten Postma</i> (Groningen) ↪ Prof. <i>Gérard de Pouvourville</i> (Paris) ↪ Prof. <i>Jeff Richardson</i> (Melbourne, Vic) ↪ Prof. <i>Michael Schlander</i> (Heidelberg) ↪ Prof. <i>Nils Wilking</i> (Stockholm) 	<ul style="list-style-type: none"> ↪ Module A <ul style="list-style-type: none"> ↪ <i>Monday:</i> Health Technology Assessment & Economic Evaluation ↪ <i>Tuesday:</i> Applied Health Economics: The Logic of Cost Effectiveness ↪ Module B <ul style="list-style-type: none"> ↪ <i>Wednesday:</i> Objectives of Health Care & Social Cost Value Analysis ↪ <i>Thursday:</i> Precision Medicine, Innovative R&D Strategies, & Evaluation ↪ <i>Friday:</i> The Perspective of Patients & Socioeconomic Impact Analysis

Please note that the present program – although considered the “final version” – may be subject to change and revision without notice. It represents the latest status of planning and preparation, as at February 04, 2023.

Program Overview

Module A

- A.1 Monday Health Technology Assessment (HTA) & Economic Evaluation:
Introduction to HTA and cost effectiveness analysis (CEA)
- A.2 Tuesday Applied health economics: the logic of cost effectiveness
– a closer look

Module B

- B.3 Wednesday Social objectives of health care, allocation and distribution
in economic evaluation, and Social Cost Value Analysis
- B.4 Thursday New challenges in HTA and economic evaluation:
“precision medicine” and novel clinical trials designs
- B.5 Friday Patients – still a broadly neglected stakeholder group?
The perspective of patients and Socioeconomic Impact Analysis

Venue and Date

Heidelberg, Studio Villa Bosch
February 06 – February 10, 2023

Scientific Program Committee

- Prof. Michael Schlander, University of Heidelberg and DKFZ, Germany (Chair)
- Prof. Jeffrey Richardson, Monash University, Melbourne, Australia
- Dr. Diego Hernandez Carreno, Anett Molnar, Muchandifunga Trust Muchadeyi, Ramon Schaefer, and Jasper Ubels, all University of Heidelberg and colleagues at the Division of Health Economics at the German Cancer Research Center (*Deutsches Krebsforschungszentrum*, DKFZ), Heidelberg, Germany

Presenting Faculty

- Prof. **Amanda Adler**,
NICE, London, and Oxford University / UK
- Dr. **Richard Baird**,
University of Cambridge / UK
- Dr. **Andrew Bruce**,
Amgen, International Health Policy, Sydney, NSW / Australia
- Dr. **Cinzia Brunelli**,
National Cancer Institute of Milan / Italy
- Prof. **Heiner Bucher**,
University of Basel / Switzerland
- Dr. **Diego Hernandez Carreno**,
DKFZ, Heidelberg / Germany
- Dr. **Karla Hernandez-Villafuerte**,
wifor, Darmstadt, and DKFZ, Heidelberg / Germany
- Prof. **Søren Holm**,
University of Manchester / UK and University of Oslo / Norway
- Dr. **Mohit Jain** / Dr. **Thomas Butt**,
BioMarin, London / UK
- Dr. **Gergő Merész**,
National Institute of Pharmacy and Nutrition, Budapest / Hungary
- Ass. Prof. **Jorge Mestre-Ferrandiz**,
Universidad Carlos III de Madrid / Spain
- **Anett Molnar**,
DKFZ & University of Heidelberg / Germany
- **Muchandifunga Trust Muchadeyi**,
DKFZ & University of Heidelberg / Germany

- Prof. **Daniel Ollendorf**,
Tufts University School of Medicine, Boston / USA
- Prof. **Ulf Persson**,
Swedish Institute of Health Economics (IHE), Lund / Sweden
- Prof. **Maarten Postma**,
University of Groningen / The Netherlands
- Prof. **Gérard de Pouvourville**,
ESSEC Business School, Paris / France
- Prof. **Jeffrey Richardson**,
Monash University, Melbourne, Vic / Australia
- **Ramon Schaefer**,
DKFZ & University of Heidelberg / Germany
- Prof. **Michael Schlander**,
DKFZ & University of Heidelberg / Germany
- **Jasper Ubels**,
DKFZ & University of Heidelberg / Germany
- Prof. **Nils Wilking**,
Karolinska Institute, Stockholm / Sweden (*online only*)

Objectives

A major branch of health economics is concerned with the study of how scarce healthcare resources are allocated among competing health care programs and, by implication, among different groups in society.

The Winter School introduces to the theoretical underpinnings as well as the practical application and policy-relevance of conventional health economic evaluations, in particular in the context of Health Technology Assessments (HTAs) to inform health care decision makers in charge of allocating scarce resources.

Conventional cost effectiveness analyses (CEAs) are designed to help achieving the maximum potential health benefit given a health care resource (or budget) constraint. Some CEA results however are hard to reconcile with prevailing social norms and preferences. The Winter School program will address key underlying issues. Leading scholars of health economics will discuss with participants some of the major implications, potential solutions, and promising ways forward.

The Winter School will be comprised of two modules, which build upon each other but may also be attended separately. Together they will offer an overview of essential principles and methods, as well as limitations and some of the challenges posed by orphan medicines and novel cancer treatments.

Module A – Days 1 and 2

Participants may also attend this module as a stand-alone subject.

The first two days provide an introduction to the discipline of health economics. This part of the Winter School will provide participants concerned with health care policy (e.g., academics, payers, industry, policy makers, and physicians) with an overview of the economics of health and health care. It will enable them to apply established analytical economic skills to problems of resource allocation in the health system.

After having attended the first two days, participants should

- understand the key objectives and methods of Health Technology Assessments (HTAs);
- be able to explain the fundamental principles and methods of economic analysis in health care;
- be familiar with the major concepts related to the identification and measurement of both health outcomes and costs;
- understand the use of willingness-to-pay, utility and capabilities in the valuation of health technologies;
- recognize the health economics techniques used to inform resource allocation and priority setting in the health system;
- be able to appreciate the role of economic evaluation in health care.

Module B – Days 3 to 5

Participants may also attend this module as a stand-alone subject.

The program will be based on a mix of 'state of the art' lecture presentations and interactive discussion sessions with the faculty.

Days 3 – 5 will be dedicated to highlight current issues in the use of health economics to inform market access and reimbursement decisions, with a primary focus on

- the strengths and limitations of conventional CEAs, and potential alternatives such as extended cost per QALY calculations, multi-criteria decision analysis and social cost value analysis;
- the relevance and assessment of the perspective of patients, including the broader socioeconomic impact of diseases and the provision of medical care;
- sources of value and the importance of social norms and preferences, including their impact on the valuation of end-of-life treatments and orphan medicinal products;
- challenges posed by "precision medicine", including innovative clinical trial designs, biomarkers and companion diagnostics, advanced therapy medicinal products, and the "value of a cure";
- recent trends in medical research and development (R&D), including its economic dimension, implications for research prioritization, early value assessments and strategic R&D decision-making.

MODULE A

INTRODUCTION

(1)

Health Technology Assessments and Cost Effectiveness Analyses

Day 1: Monday, February 06, 2023 [10:30am to 07:00pm]		
Welcome Reception and Registration	09:00am- 10:30am	
10. Introduction to Program & Objectives	[40 min] 10:30am- 11:10am	M. Schlander
11. Health Technology Assessments (HTAs) with and without health economic evaluation	[20 min] 11:10am – 11:30am	R. Schaefer
12. The Logic of Health Economics (I) The basics of cost effectiveness analysis (CEA)	[60 min] 11:30am – 12:30pm	D. Hernandez

Lunch Break	1 hour 12:30pm - 01:30pm	
13. The Logic of Health Economics (II) Modeling for cost effectiveness analysis (CEA)	60 min 01:30pm – 02:30pm	M.T. Muchadeyi & A. Molnar
14. Group Work / Exercise Conducting a stylized CEA	60 min 02:30pm – 03:30pm	All
15. Group Work Presentations / Discussion Interpretating the results of a CEA	30 min 03:30pm – 04:00pm	M.T. Muchadeyi & A. Molnar
Coffee Break	30 min 04:00pm – 04:30pm	
16. Value and Valuation in Health Economics Cost benefit analysis (CBA) and CEA	45 min 04:30pm- 05:15pm	M. Schlander
17. Group Work What do you value? Case Study “The Kidney Machine”	60 min 5:15pm – 6:15pm	All
18. Group Work Presentations / Discussion Resource allocation decisions	45 min 6:15pm – 7:00pm	All / M. Schlander & J. Ubels

MODULE A

INTRODUCTION

(2)

HTAs & Cost Effectiveness (CE):

A Closer Look

<p>Day 2: Tuesday, February 07, 2023 [09:00am to 07:00pm]</p>		
<p>21. The Logic of Cost Effectiveness (III) Normative foundations</p>	<p>60 min 09:00am – 10:00am</p>	<p>M. Schlander & J. Ubels</p>
<p>22. Exercise: Putting the “Q” into the QALY Utility measurement principles applied (I)</p>	<p>30 min 10:00am – 10:30am</p>	<p>All</p>
<p>Coffee Break</p>	<p>30 min 10:30am – 11:00am</p>	
<p>23. Exercise: Putting the “Q” into the QALY Lessons from exercise</p>	<p>15 min 11:00am – 11:15am</p>	<p>M. Schlander</p>

24. Health-Related Quality of Life (HRQoL) Utility – a closer look / measurement principles applied (II)	75 min 11:15am – 12:30pm	J. Richardson
Lunch Break	60 min 12:30pm – 01:30pm	
25. Alternative Health Outcome Measures HALYs; HYE, Sen’s “capability approach”, ...	45 min 01:30pm – 02:15pm	J. Ubels
26. Costing in Theory and Practice Opportunity costs versus monetary flows	60 min 02:15pm – 03:15pm	D. Hernandez
27. Group Exercise: Analyzing a Costing Study Costing principles applied	45 min 03:15pm – 04:00pm	All
Coffee Break	30 min 04:00pm - 04:30pm	
28. Group Exercise: Analyzing a Costing Study Lessons from exercise	45 min 04:30pm – 05:15pm	D. Hernandez
29. International Guidelines for CEA Academic guidelines and application in HTA	30 min 05:15pm – 05:45pm	R. Schaefer
Break	15 min 05:45pm – 06:00pm	
Key Note Lecture National Institute of Health and Care Excellence (NICE): Challenges from the perspective of decision-makers	60 min 06:00pm – 07:00pm	A. Adler

MODULE B

ADVANCED ISSUES

IN APPLIED HEALTH ECONOMICS

(3) ALLOCATIVE VS. DISTRIBUTIVE OBJECTIVES

<p>Day 3: Wednesday, February 08, 2023 [10:00am to 07:00pm]</p>		
<p>Welcome Reception and Registration for New Participants</p>	<p>09:00am- 10:00am</p>	
<p>30. Introduction to Program & Objectives & Wrap-Up of Module A</p>	<p>15 min 10:00am- 10:15am</p>	<p>M. Schlander</p>
<p>31. Meaning(s) of "Efficiency" and the objectives of national health schemes</p>	<p>30 min 10:15am 10:45am</p>	<p>M. Schlander</p>
<p>32. The Logic of Cost Effectiveness (IV) Limitations from a theoretical economic perspective</p>	<p>45 min 10:45am - 11:30am</p>	<p>J. Richardson</p>
<p>Coffee Break</p>	<p>15 min 11:30am – 11:45am</p>	
<p>33. The Logic of Cost Effectiveness (V) A normative perspective on limitations</p>	<p>45 min 11:45am - 12:30pm</p>	<p>S. Holm</p>

Lunch Break	1 hour 12:30pm - 01:30pm	
34. The Logic of Cost Effectiveness (VI) An empirical perspective; social norms and preferences	60 min 01:30pm - 02:30pm	J. Richardson
35. The Logic of Cost Effectiveness (VII): Addressing anomalies and critical assumptions	30 min 02:30pm- 03:00pm	M. Schlander
Coffee Break	30 min 03:00pm – 03:30pm	
36. Orphan Medicinal Products (OMPs) Orphan drug policies / impact and recent challenges	40 min 03:30pm - 04:10pm	M. Jain
37. Industrial Economics: A Perspective on Costs Costs, profits, and incentives – R&D, production, M&S	40 min 04:10pm- 04:50pm	J. Mestre-Ferrandiz
38. Reflections on the “Value of a Cure” Beyond cost effectiveness: what about budget impact?	40 min 04:50pm – 05:30pm	D. Ollendorf
Coffee Break	30 min 05:30pm – 06:00pm	
Moderated Panel Discussion with Audience: Should We Value Rarity and Severity? (and if so, how?)	60 min 06:00pm – 07:00pm	A. Adler, S. Holm J. Mestre-Ferrandiz, D. Ollendorf, U. Persson, J. Richardson, M. Schlander

MODULE B

ADVANCED ISSUES

IN APPLIED HEALTH ECONOMICS

(4) "PRECISION MEDICINE"

<p>Day 4: Thursday, February 09, 2023 [09:00am to 10:00pm]</p>		
<p>41. The Promise of "Precision Medicine" & Wrap-Up of Day 3</p>	<p>15 min 09:00am – 09:15am</p>	<p>M. Schlander</p>
<p>42. Next-Generation (Cancer) Clinical Trial Designs Improving R&D efficiency and evidence of effectiveness</p>	<p>30 min 09:15am – 09:45am</p>	<p>R. Baird</p>
<p>43. Real-World Evidence (RWE) and Effectiveness Potential and limitations of RWE for the generation of high-quality effectiveness data</p>	<p>30 min 09:45am – 10:15am</p>	<p>H. Bucher</p>
<p>44. n=1 Trials – A Normative Perspective Finding the right balance</p>	<p>30 min 10:15am - 10:45am</p>	<p>S. Holm</p>
<p>Coffee Break</p>	<p>30 min 10:45am – 11:15am</p>	

<p>45. Cancer Combination Therapies (I) An increasing challenge for cost effectiveness analyses</p>	<p>30 min 11:15am – 11:45am</p>	<p>N. Wilking</p>
<p>46. Cancer Combination Therapies (II) Economic analysis and value attribution</p>	<p>45 min 11:45am – 12:30pm</p>	<p>A. Bruce</p>
<p>Lunch Break</p>	<p>60 min 12:30pm – 01:30pm</p>	
<p>47. HTA and Economic Evaluation in Practice – International Experience Focus on High-Cost Interventions and ATMPs for Rare and/or Severe Health Problems</p> <ul style="list-style-type: none"> a. England: NICE b. Sweden: TLV c. France: HAS d. Netherlands: ZINL e. Hungary: OGYÉI <p>Useful Deliberative Processes: Integrating Clinical and Economic Evidence</p>	<p>120 min 01:30pm - 03:30pm</p>	<p>M. Schlander A. Adler U. Persson* G. Pouvourville M. Postma G. Merész D. Ollendorf</p>
<p>Coffee Break</p>	<p>30 min 03:30pm – 04:00pm</p>	
<p>48. Moderated Panel Discussion with Audience What Is / What Should Be the Appropriate Role of Health Economics in HTA?</p>	<p>90 min 04:00pm – 05:30pm</p>	<p>A. Adler, A. Bruce, S. Holm, G. Merész, D. Ollendorf, U. Persson, M. Postma, G. de Pouvourville, M. Schlander</p>
<p>Winter School Networking Dinner</p>	<p>07:00pm – 10:00pm</p>	<p>Palais Prinz Carl Heidelberg</p>

MODULE B

ADVANCED ISSUES

IN APPLIED HEALTH ECONOMICS

(5) THE ROLE OF PATIENTS IN HTA

Day 5: Friday, February 10, 2023 [09:00am to 02:00pm]		
51. The Critical Role of the Patient Perspective & Wrap-Up of Day 4	15 min 09:00am – 09:15am	M. Schlander
52. Patients – Forgotten HTA Stakeholders? The role of “Patient-Reported Outcomes” in HTA	45 min 09:15am – 10:00am	C. Brunelli
53. The Financial Impact of Health and Health Care “Financial toxicity” – does it matter outside the U.S.?	45 min 10:00am – 10:45am	K. Hernandez-Villafuerte
54. Socioeconomic Impact Analysis An OEI consensus how to assess impact on patients	45 min 10:45am – 11:30am	M. Schlander
Coffee Break	30 min 11:30am- 12:00pm	
55. Which Way Forward? Moderated Discussion – What Should be Done? Potential Solutions from MCDA to SCVA	60 min 12:00pm – 01:00pm	All
Lunch & Departures	60 min as of 01:00pm	

on behalf of the Winter School Faculty



Michael Schlander

Heidelberg, February 04, 2023

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Appendix

Recommended Reading Materials

Peter J. Neumann et al. (eds.):

Cost-Effectiveness in Health and Medicine (Second Edition)

Oxford University Press 2017

Marthe Gold et al.

Cost-Effectiveness in Health and Medicine

Oxford University Press 1996

Michael Drummond et al.

Methods for the Economic Evaluation of Health Care Programs

Oxford University Press 2015 (4th edition)

John Brazier et al.

Measuring and Valuing Health Benefits for Economic Evaluation

Oxford University Press 2017 (2nd edition)

Sherry Glied and Peter C. Smith (eds.)

The Oxford Handbook of Health Economics

Oxford University Press 2011

Morris L. Barer, Thomas E. Getzen, and Greg L. Stoddart (eds.)

Health, Health Care and Health Economics – Perspectives on Distribution

John Wiley & Sons 1998

Erik Nord

Cost-Value Analysis in Health Care. Making Sense out of QALYs

Cambridge University Press 1999

Gavin Mooney

Challenging Health Economics

Oxford University Press 2009

Thomas Rice

The Economics of Health Reconsidered

Health Administration Press 2002 (2nd edition)

Daniel M. Hausman and Michael S. McPherson

Economic Analysis, Moral Philosophy, and Public Philosophy

Cambridge University Press 2006 (2nd edition)

I. Glenn Coehn, Norman Daniels, and Nir Eyal:

Identified versus Statistical Lives. An Interdisciplinary Perspective

Oxford University Press 2015

Session-specific reading materials will be provided at the Winter School.