

Applications in Economic Evaluations of Health Care Programmes

Overview

In this course, students learn how to

- Plan and conduct a within-trial health economic evaluation
- Analyse within-trial economic evaluations
- Apply simulation models to understand longterm economic intervention effects

Offered By

 TUM Professorship of Public Health & Prevention (Prof. Dr. Michael Laxy)

Lecturers

- Prof. Dr. Michael Laxy
- Dr. Michael Hanselmann
- Dr. Anna-Janina Stephan





Cooperation Partners

TUM Chair of Health Economics (Prof. Dr. Leonie Sundmacher)

Contact Person

Dr. Michael Hanselmann



Applications in Economic Evaluations of Health Care Programmes

Learning Objectives

- Understand & critically discuss scientific reports on the topic
- Develop your own health economic analysis plan (HEAP) based on a clinical trial protocol
- Explain (dis-)advantages of different approaches to health economic data collection within a trial
- Explain assumptions behind different valuation approaches for costs & benefits
- Perform the necessary analytical steps and calculations in R and interpret the respective estimates and graphical illustrations

Learning Objectives (c'td)

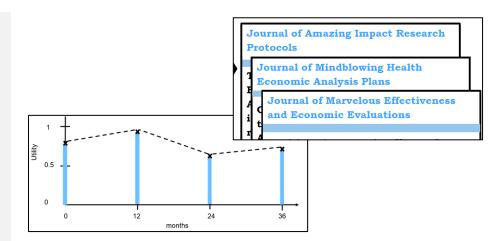
- Understand the value and principle of simulation models and the structure of a Markov model
- Understand and identify the inputs necessary for a simulation model;
- Develop and implement a simple simulation model for the assessment of long-term health economic intervention effects in R

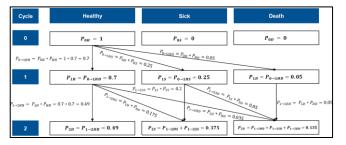


Applications in Economic Evaluations of Health Care Programmes

Structure

- Block 1: Design of an Economic Evaluation
- Block 2: Empirical Within-Trial Economic
 Evaluation
- Block 3: Model-Based Economic Evaluation
- Each block is structured as follows:
 - Step 1: A lecturer illustrates the required methods based on an exemplary published economic evaluation.
 - Step 2: Students apply what they learned to solve a realistic case study.





TUM Master of Health Science - Prevention and Health Promotion (M.Sc.)

Course Nr.: 8100470002; TUM online description: https://campus.tum.de/tumonline/wbLv.wbShowLVDetail?pStpSpNr=950577873&pSpracheNr=1



Applications in Economic Evaluations of Health Care Programmes

Prerequisites

- Participation in the 1st part (lecture & exercise)
 of the module *Economic Evaluations of Health Care Programmes* (summer term, 2nd
 semester)
- Interest in R programming
- Interest in economic evaluations

ECTS & SWS

- 6 ECTS
- 4 SWS

Course Language

English

Examination Format

- Group presentation (Block 1)
- Two individual project reports (Block 2 & 3)

Position in the Program

- Elective area "Applied Research"
- 3rd semester, Winter Term
- 2nd part of the 2-semester module *Economic* Evaluations of Health Care Programmes