



Exchange programme Vrije Universiteit Amsterdam

Vrije Universiteit Amsterdam - Exchange programme Vrije Universiteit Amsterdam - 2024-2025

Exchange

Vrije Universiteit Amsterdam offers many English-taught courses in a variety of subjects, ranging from arts & culture and social sciences, neurosciences and computer science, to economics and business administration.

The International Office is responsible for course approval and course registration for exchange students. For details about course registration, requirements, credits, semesters and so on, please [visit the exchange programmes webpages](#).

Economic Assessment of Health Care

Course Code	E_MFHC_EAHC
Credits	6
Period	P2
Course Level	300
Language Of Tuition	English
Faculty	School of Business and Economics
Course Coordinator	dr. J.M. van Dongen
Examiner	dr. J.M. van Dongen
Teaching Staff	prof. dr. J.E. Bosmans, dr. J.M. van Dongen
Teaching method(s)	Lecture, Computer lab

Course Objective

Learning objectives for this course are:

Academic and Research Skills:

- the student is able to conduct a basic statistical analysis for an economic evaluation;
- the student is able to coherently report findings from an economic evaluation in a written report;
- the student is able to critically assess a published economic evaluation;
- the student is able to design a basic economic evaluation alongside a randomized controlled trial;
- the student is able to correctly interpret and report the findings from an economic evaluation alongside a randomized controlled trial;
- the student is able to perform a basic cost-effectiveness analysis (Incremental Cost-Effectiveness Ratio, bootstrapping, cost-effectiveness plane, cost-effectiveness acceptability curve) within a structured assignment.

Bridging Theory and Practice - Knowledge

- the student is able to explain why economic evaluations are fundamental for making allocation decisions in health care;
- the student has basic knowledge on the design, analysis, interpretation and reporting of economic evaluations.

Bridging Theory and Practice - Application

- the student is able to formulate a reimbursement decision based on the knowledge obtained from an economic evaluation.

Course Content

At the end of this course, you know the basic essentials of economic evaluations of health care processes and health care technologies. You will be able to make an informed choice between a trial-based and a model-based approach. The strengths and limitations of economic evaluations will be clear. You will be able to design an economic evaluation, to critically assess the results of an economic evaluation conducted alongside a randomized controlled trial, and to interpret and use information from published economic evaluations.

Additional Information Teaching Methods

Lectures: 12×2 hours = 24 hours Tutorials (including computer practica): 5×4 = 20 hours, at least 75% of the tutorials should be attended by the student.

Method of Assessment

Written exam: individual assessment, 60% of the final grade, minimum required 5.5

Assignments: group assessment (groups of two students), 40% of the final grade, minimum required 5.5

Entry Requirements

None

Literature

- Goodman CS. HTA 101: Introduction to Health Technology Assessment. Bethesda, MD: National Library of Medicine (US); 2014 –Chapters I, II, III, IV, V and X
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- Krol M, Brouwer W. How to estimate productivity costs in economic evaluations. *Pharmacoeconomics*. 2014 Apr;32(4):335-44.
- Thompson SG, Barber JA. How should cost data in pragmatic randomized trials be analysed? *BMJ*. 2000 Apr 29;320(7243):1197-200.
- Miyamoto, GC, Ben AJ, Bosmans JE, van Tulder MW, Chung-Wei CL, Nunes Cabral CM, van Dongen JM. Interpretation of trial-based economic evaluations of musculoskeletal physical therapy interventions. *Brazilian journal of physical therapy* 25, no. 5 (2021): 514-529.
- Black WC. The CE plane: a graphic representation of cost-effectiveness. *Med Decis Making*. 1990 Jul-Sep;10(3):212-4.
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- Sullivan SD, Mauskopf JA, Augustovski F, Jaime Caro J, Lee KM, Minchin M, Orlewska E, Penna P, Rodriguez Barrios JM, Shau WY. Budget impact analysis-principles of good practice: report of the ISPOR 2012 Budget Impact Analysis Good Practice II Task Force. *Value Health*. 2014 Jan-Feb;17(1):5-14.
- Roseboom KJ, van Dongen JM, Tompa E, van Tulder MW, Bosmans JE. Economic evaluations of health technologies in Dutch healthcare decision-making: a qualitative study of the current and potential use, barriers, and facilitators. *BMC Health Serv Res*. 2017;17(1):89.
- Petrou S, Gray A. Economic evaluation using decision analytical modelling: design, conduct, analysis, and reporting. *BMJ*. 2011 Apr 11;342:d1766.

Additional Information Target Audience

Third year BSc students doing the minor Health Care Management

Recommended background knowledge

None