

FUNDAMENTALS OF HEALTH TECHNOLOGY ASSESSMENT

COURSE PROGRAM

HEALTH TECHNOLOGY ASSESSMENT AND
HEALTH ECONOMICS DEPARTMENT



IECS

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Our comprehensive online course on the Fundamentals of Health Technology Assessment (HTA), is designed to equip professionals with essential knowledge and skills in this critical field. Economic evaluation plays a crucial role in healthcare decision-making. It aids in comparing costs, benefits, and outcomes, utilizing economic evidence to inform better decisions.

In this program, you will understand the process and structure of economic evaluation and see how it is applied in Health Technology Assessment.

This 8-module course offers a deep dive into the principles, methodologies, and applications of HTA, and economic evaluations, providing a solid foundation for those who are beginning in research in HTA and for who need to make informed health resource allocation decisions.

Fundamentals of HTA course offers an interactive and engaging learning experience through videos, self-correcting activities, and real-world case studies.

Course objectives

By the end of this course, you will be able to:

- Exhibit a comprehensive understanding of the core principles and processes of Health Technology Assessment (HTA).
- Demonstrate proficiency in the use of assessment tools commonly employed in HTA.
- Achieve basic knowledge in assessment of evidence quality using GRADE approach.
- Articulate the process and structure of economic evaluation within the context of HTA.

Who Is This Course For?

This course is designed for professionals in the healthcare sector who seek to deepen their knowledge and understanding of Health Technology Assessment and economic evaluations.

Participants will learn various methods and processes of analysis and develop technical skills essential for effectively utilizing HTA in their respective roles.

Course Syllabus & Schedule

Module 1: Introduction to HTA and Value Frameworks. Oct 21 2024

Gain a thorough understanding of HTA principles, definitions, and components.
Explore the connection between HTA and health resource allocation decision-making.
Learn about international HTA methods and deliberative processes.

Module 2: Study design and types of bias. Nov 4 2024

Sources of evidence
Different methodological designs for estimating the benefits of a technology
Analytic and descriptive studies
The GRADE system of rating the quality of scientific evidence

Module 3: Interpretation of study results, effect measure. Nov 18 2024

Data types and effect measures
Data types
Effect measures and their variability
Study designs and identification of the unit of analysis
Dichotomous, continuous, ordinal outcome data, measurement scales, counts and ratios, and time to event

Module 4: Assessment of the quality of evidence. Dec 2 2024

Quality or certainty of evidence for each result or outcome: The GRADE system
GRADE method for scoring evidence
Factors that may change the quality of the evidence

Module 5: Development and application of HTA (I). Dec 16 2024}

The process of conducting an HTA
Good practices for the execution of the HTA process
Acquiring the tools to be able to correctly formulate the research PICOS question (population, intervention, comparison, outcomes, study design)

Break

Module 6: Health Economics for HTA. Jan 06 2025

Structure of economic evaluations
Obtaining Economic Evaluations
Economic evaluations based on models
Other models and methodological aspects
Meaning of the Budget Impact Analysis (BIA).
The Budget Impact Analysis (BIA) compared to Health Economic Evaluations (EE).
The Budget Impact Analysis (BIA) in the current context.
Strategies to conduct a Budget Impact Analysis (BIA) and the assessment of the results.

Module 7: Economic Modelling for Economics Evaluations. Jan 20 2025

Typical models used to conduct economic evaluations. Decision Trees and Markov Models.

Overview and components of decision trees and Markov models.

Cost-effectiveness plan and decision rules that apply to it.

Willingness to pay threshold concept.

Transferability of economic evaluations.

Module 8: Development and application of HTA (II). Feb 3 2025

The HTA project

Stakeholder engagement during the HTA process

INAHTA tool for critical reading of an HTA report and evaluate its applicability

Application and dissemination of HTA results

Health Technology Assessment and benefit packages design

Health Technology Assessment and clinical guideline development

Course Dynamics

The course is entirely virtual, through the campus of the Institute for [Clinical Effectiveness and Health Policy](#)

The program consists of 8 modules encompassing two weeks each module with content delivered through videos, mandatory readings, and complementary materials.

Each module includes an activity guide, discussion case, and an self-evaluation questionnaire. Additionally, a forum is open throughout the course for consultation, discussion, and debate on the topics covered.

Throughout the course, there are four scheduled synchronous meetings to engage with peers and tutors, ask questions about class content, and develop an integrative group activity. The course features tutors who guide the participants through the activities, fostering interaction and debate among them.

To pass the course, participants must successfully complete 80% of the evaluation questionnaires provided in each module.

Course directors

[Prof Dr Andres Pichon Riviere](#)

[Prof Dr Federico Augustovski](#)

Course coordinator

[Dr. Verónica Alfie](#)