

# FUNDAMENTALS OF HEALTH TECHNOLOGY ASSESSMENT

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## COURSE PROGRAM

HEALTH TECHNOLOGY ASSESSMENT AND  
HEALTH ECONOMICS DEPARTMENT

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**IECS**

EDUCACIÓN

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DE EFECTIVIDAD  
CLÍNICA  
Y SANITARIA

Our **comprehensive online course *Fundamentals of Health Technology Assessment (HTA)*** is designed to equip professionals with the essential knowledge and skills needed to navigate this critical field. A central component of HTA, **economic evaluations** plays a key role in informing healthcare decision-making by comparing costs, outcomes, and benefits across interventions. Throughout the course, you will gain a clear understanding of the structure and methodology of economic evaluations and learn how they are applied within the broader context of HTA.

This 10-module (12 weeks) 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.

**The Fundamentals of HTA course offers an interactive and engaging learning experience through videos, self-correcting activities, and real-world case studies. It also includes continuous academic support from experienced faculty, ensuring guidance throughout the entire learning process.**

- **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.
- Demonstrate proficiency in the use of assessment tools commonly employed in HTA.
- Achieve basic knowledge in the assessment of evidence quality using the GRADE approach.
- Understand, interpret, and apply the process and structure of economic evaluations 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.**

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: Developing and Applying HTA.**

Master the main good practice principles in HTA.

Learn to formulate a topic using the PICOS framework (Population, Intervention, Comparators, Outcomes, Study type).

Draft the scope of an HTA topic and prepare a summary report.

## **Module 3: Methods to Assess Efficacy and Safety in HTA.**

Understand various study designs and types of bias.

Gain knowledge of critical appraisal principles for effectiveness studies.

Explore advanced topics such as network meta-analysis (NMA) and the use of non-trial data in HTA.

## **Module 4: Core Statistical Concepts and Study Design for HTA.**

Interpret main study results and effect measures (e.g., RR, OR, HR).

Grasp concepts like confidence intervals, clinical significance, and statistical significance.

Learn to summarize and report study results effectively.

## **Module 5: Assessing Evidence Quality in HTA.**

Understand the importance of evidence quality assessment.

Learn about different evidence quality ratings and the GRADE system.

Explore domains for evaluation and factors for upgrading evidence quality.

## **Module 6: Health Economics I**

Gain knowledge on Health Economics and the fundamentals of Economic Evaluation.

## **Module 7: Health Economics II**

Explore the economic evaluation of health technologies and their implications.

Learn about the Budget Impact Analysis in Healthcare

## **Module 8: Economic Modelling for Economic Evaluations**

Learn how to build and use economic models to inform healthcare decisions.

Apply sensitivity analysis to assess uncertainty in model results.

## Module 9: The HTA development and its process

Understand the full development process of a Health Technology Assessment.

Identify key stakeholders and their roles in the HTA process.

## Module 10: Application and Implementation of HTA.

Apply HTA reports in developing Clinical Practice Guidelines and Health Benefit Packages.

Learn to communicate effectively with stakeholders and manage HTA projects.

Assess the relevance of HTA reports and explore experiences from HTA agencies.

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## Course Dynamics

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

**The program includes 10 modules delivered across 12 weeks.** Each module's content is delivered through videos, mandatory readings, and complementary materials.

Each section includes an activity guide, a discussion case, and a self-evaluation questionnaire.

Additionally, a forum is open throughout the course for consultation, discussion, and debate on the topics covered. The course features tutors who guide the participants through the activities, fostering interaction and debate among them.

Throughout the course, there are three scheduled synchronous meetings to engage with peers and tutors, ask questions about class content, and develop an integrative group activity. These optional live sessions are scheduled during the course. Dates and times are defined at the beginning of the course based on a time zone suitable for most participants. These sessions are also recorded for those who cannot attend.

Participants must complete at least 80% of the module evaluation questionnaires to pass the course.

## Certification

Upon successful completion of the course requirements, participants will receive a certificate of completion issued by the [Institute for Clinical Effectiveness and Health Policy \(IECS\)](#), an academic institution affiliated with the University of Buenos Aires and recognized for its leadership in Health Technology Assessment and Health Economics in Latin America.

The certificate will be granted under the title: **Fundamentals of Health Technology Assessment**

### TEACHING STAFF

#### Director:

- Dr. Verónica Alfie

#### Staff

- Prof. Dr. Andrés Pichon-Riviere
- Prof. Dr. Federico Augustovski

#### Tutors

- Dr. Verónica Sanguine
- Dr. Sebastián García Martí