



Department of  
**Health Policy**

# Executive MSc Evaluation of Health Care Interventions and Outcomes

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In collaboration with the National Institute for  
Health and Care Excellence

[lse.ac.uk/NICE-exec-MSc](https://lse.ac.uk/NICE-exec-MSc)

**NICE** National Institute for  
Health and Care Excellence

# Develop critical skills in evaluating health care interventions and outcomes

All countries are facing the challenge of meeting the increasing demand for high quality health care due to rising costs and constrained resources. The ability to evaluate medical technologies and apply best quality evidence to clinical practice is vital. Skills in evaluating interventions and outcomes are becoming increasingly valuable for professionals who strive to be active participants in health care decision-making at all levels.

The Executive MSc in Evaluation of Health Care Interventions and Outcomes delivers training in health services research, health economics, health outcomes research and health policy. It is designed to further develop your skills in advisory, management, and leadership roles across the health sector.

The two-year programme has been developed in collaboration with the Scientific Advice team at the National Institute for Health and Care Excellence (NICE), known internationally for the scientific rigour of its approach to evaluating the effectiveness and value of medicines, medical technologies, treatments and interventions.

Drawing on the expertise from NICE, combined with the academic excellence of the London School of Economics and Political Science, the programme delivers a well-rounded intellectual and practical curriculum and gives students the opportunity to learn from world-leading academics and experts in the field.



Teaching



2 years



8 courses



4 teaching  
blocks at LSE



The combination of LSE's world-leading teaching and research excellence and NICE's standing as a national authority and global leader in health technology assessment and guidance offers an unparalleled degree of rigour and professional relevance. ”

**Professor Elias Mossialos**

Head of LSE Department of Health Policy





“ NICE has 20 years’  
experience in evidence-  
based health care decision  
making and we are delighted  
to be able to partner with LSE  
in order to share this expertise  
amongst professionals who are  
looking to enhance their skills in  
this area. ”

**Jeanette Kusel**

Director for NICE Scientific Advice

# For health professionals

The programme is designed for professionals from a wide range of backgrounds in the health sector who are looking to progress in their career and develop as health policy leaders by building on their skills in health economics, health outcomes research, and management.

Over two years, the courses will be delivered in four intensive two-week teaching blocks at the London School of Economics and Political Science. This schedule allows participants to complete the degree alongside full-time work.

Your fellow students will come from different countries and diverse professional backgrounds, including those in:

- > medical professions
- > pharmaceutical and medical devices industries
- > health care management
- > government and non-governmental organisations
- > clinical and allied health care professions
- > hospital administration roles

“There is an increased and urgent need for highly qualified and technically competent expertise in the international health care market. The LSE-NICE MSc offers a unique opportunity to develop a well-rounded grounding in advanced skills to evaluate health care interventions and outcomes.”

**Dr Panos Kanavos**

Associate Professor  
LSE Department of Health Policy





This programme attracts some of the most talented professionals in the health sector and provides the tools needed to advance careers and shape the future leaders in health. ”

**Dr Rocco Friebel**

Assistant Professor

LSE Department of Health Policy



# Programme calendar

## YEAR 1

### Teaching Block 1

- > Impact Evaluation in Healthcare
- > Systematic Review and Meta-analysis

### Teaching Block 2

- > Economic Evaluation in Health Care
- > Quasi-experimental Evaluation of Health Care Programmes and Policies

## YEAR 2

### Teaching Block 3

- > Dissertation in Evaluation of Health Care Interventions and Outcomes
- > Randomised Evaluation of Health Programmes and Policies

### Teaching Block 4

- > Statistical Methods in Health Care Economic Evaluation
- > Principles of Health Technology Assessment



# Courses

## YEAR 1

### TEACHING BLOCK 1

#### **Impact Evaluation in Healthcare**

Gain an in-depth overview of the key principles and models used to evaluate health care interventions, programmes and policies. Students will be introduced to experimental, quasi-experimental, non-experimental, and qualitative designs for evaluating health care interventions, programmes and policies aimed at achieving high quality care, reducing costs, and improving health outcomes.

#### **Systematic Review and Meta-analysis**

Learn the key principles of evidence review and synthesis needed to interpret existing evidence to evaluate health care interventions. A broad range of decision-making bodies across the health care sector need experts equipped with skills to review and synthesize the existing body of evidence. This course will provide the rationale for adopting a systematic approach for evidence review and synthesis and equip students with the methods to undertake risk of bias assessments of individual randomised controlled trials and collections of randomised controlled trials.

### TEACHING BLOCK 2

#### **Economic Evaluation in Health Care**

Develop your strategic decision-making skills by learning how to understand, critically appraise, develop, and interpret cost-effectiveness analyses to make specific recommendations and define best practice. This course will enable students to understand and apply analytic methods in the economic evaluation of health interventions. It also provides a strong foundation in several advanced concepts, including the cost-effectiveness of interventions used in long-term chronic illnesses.

#### **Quasi-experimental Evaluation of Health Care Programmes and Policies**

Gain the skills needed to design, critically appraise, and conduct quasi-experimental studies evaluating health policies, programmes, and interventions. This course will focus on regression discontinuity designs, interrupted time-series designs, difference-in-differences designs, instrumental variable designs, and synthetic control approaches.

# Courses

## YEAR 2

### TEACHING BLOCK 3

#### **Dissertation in Evaluation of Health Care Interventions and Outcomes**

Explore a topic of your choice in the field of health services research and health policy, and integrate the methodology and knowledge learned across your courses to address a key issue.

#### **Randomised Evaluation of Health Programmes and Policies**

Learn to design and conduct a randomised evaluation through hands-on and intuitive training while exploring the rationale of best-practice experimental design. The course will discuss reasons for undertaking randomised evaluations, how to design the randomised experiment, and how to deal with threats to randomisation. You will also be taught how to overcome practical issues raised by primary data collection.

### TEACHING BLOCK 4

#### **Statistical Methods in Health Care Economic Evaluation**

Develop the statistical and modelling techniques necessary to apply economic evaluation to the health care sector by mastering a range of statistical methods. The course will cover linear regression analysis, logistic regression analysis, survival analysis for health outcomes, survival analysis for treatment costs, economic evaluation and clinical trials.

#### **Principles of Health Technology Assessment**

Explore the key concepts of Health Technology Assessment. Health Technology Assessment is a multidisciplinary process that summarises information about the medical, social, economic, and ethical issues related to the use of a health technology in a systematic, transparent, unbiased, and robust manner. This course is aimed at introducing the key principles of Health Technology Assessment, its operational modalities, the different models of value assessment and how they link to decision-making.

Please note that course regulations may change. For the most up-to-date list of courses, please visit [lse.ac.uk/NICE-exec-MSc](http://lse.ac.uk/NICE-exec-MSc)






## How to apply

For more information and to apply, visit  
[lse.ac.uk/NICE-exec-MSc](https://lse.ac.uk/NICE-exec-MSc)

You will be required to submit your academic transcript, an academic statement of purpose, two references and your CV to complete your application.

If you have any questions about the programme, please contact us at  
[Healthpolicy.exec@lse.ac.uk](mailto:Healthpolicy.exec@lse.ac.uk)





“ This programme will equip you with the essential skills needed to critically appraise and synthesise existing data sources, as well as generate new evidence to inform complex health care decisions. ”

**Dr Huseyin Nacil**  
Assistant Professor  
LSE Department of Health Policy