Methods for Health Economic Evaluation

ECTS : 3

Description du contenu de l'enseignement :

The course starts with a brief overview of the rational for economic evaluations of health technologies and a comparison of different approaches to economic evaluations (cost-effectiveness analysis, cost-utility analysis, cost-benefit analysis). We will then focus on cost-utility analysis and discuss how to measure and model outcomes. The course provides a brief introduction to measuring life expectancy using life tables and survival analysis of individual patient data. We will then focus on how to measure resource use and cost, and briefly discuss various techniques that are important for the analysis of cost data. We will give a summary of different decision-analytic modelling approaches and discuss decisions trees and Markov models in detail. We will present various approaches to quantify and handle uncertainty in cost-effectiveness analyses, before discussing how to present the results and how they can and are used for decision-making in health policy.

Compétence à acquérir :

In this course, students will learn how to conduct health economic evaluation. After completing the course, students will be able to read and critically appraise cost-effectiveness studies.

Mode de contrôle des connaissances :

Written exam

Bibliographie, lectures recommandées :

The course closely follows the textbook "Applied Methods of cost-effectiveness analysis in healthcare" by Gray, Clarke, Wolstenholme and Wordsworth (2011).

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Université Paris Dauphine - PSL - Place du Maréchal de Lattre de Tassigny - 75775 PARIS Cedex 16