UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Diagnostic Reasoning

2223-2-F5104P017-F5104P018M

Learning area

METHODS AND TECHNIQUES FOR TREATMENT AND REHABILITATION

Learning objectives

Knowledge and understanding

? Acquisition of theoretical knowledge of communication and personal relationships in healthcare

? Understanding of the psychological, social and cultural variables involved in communication and interaction in healthcare

Applying knowledge and understanding

? Understanding of, and intervention on, communication and relational problems in healthcare settings

? Mastering of some psycho-educational techniques aimed at improving the quality of relationships and communication in healthcare.

Ability to apply different intervention techniques necessary to improve the quality of relationships and communication healthcare

Contents

Diagnostic reasoning according to the Evidence Based Medicine (AEBM) approach: elements of decision analysis, logical and bayesian bases of diagnostic reasoning, main cognitive biases that affect diagnostic reasoning, applications in neuropsychological testing.

Detailed program

• Uncertainty and probability in the health professions (Chap 2 Hunink)
• Coping with uncertainty in decisions: decision trees (Chap 3 Hunink)
• Coping with uncertainty in diagnoses: Sensitivity and specificity of diagnostic tests (Chap 5 Hunink)
• Scientific interpretation of diagnostic testing (Chap 5 Hunink), with application to a case of neuropsychological testing (teacher's materials)
• Cognitive in biases affecting clinical decisions and diagnostic reasoning (Chap 5).

Prerequisites

• Good numeracy skills, good comprehension skills of written english.
• Basic knowledge of probability calculus
• Basic knowledge of the fundamentals of neuropsychological testing and diagnosis.

Teaching methods

• Synchronous lectures wit Wooclap engagement, hands-on training to the building and analysis of computerized decision trees, homework.

Assessment methods

Oral test

Textbooks and Reading Materials

Hunink M, Glasziou P, Siegel J, et al. Decision making in health and medicine. Integrating evidence and values. Cambridge: Cambridge University Press, 2001

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING