

SYLLABUS

CLINICAL EPIDEMIOLOGY

Doctoral study (PhD) for both internal and external participants

The aim of doctoral study is to gain competences in clinical epidemiology to be applied in scientific disciplines of 7.4.2. Public health.

Skills gained through the coursework

Clinical epidemiology is further developing the application of scientific approach to practical use in public health practice. In this area, it expands the procedures discussed in the sections on science, research, statistics and epidemiology their application in practice. It focuses on evaluation techniques, comparison of intervention, application of scientific evidence and critical analysis. It is closely related to the management of public health and manager provides a tool for selecting the most appropriate approach to problem solving, as well as to assess the effectiveness of interventions. Subject to the completion of the procedures you will be able to use public health evidence in the field of your interest.

Structure of the course

1. Basics of Evidence Based Medicine.
2. Basics of Clinical Epidemiology.
3. Practical application
4. Essay.

Notes to individual items

Ad 1 Basics of Evidence Based Medicine.

- a) Read a book GUYATT, G., RENNIE, D., MEADE, M. & COOK, D. 2008. *Users' Guides to the Medical Literature: Essentials of Evidence-Based Clinical Practice*, Second Edition: Essentials of Evidence-Based Clinical Practice, Second Edition, McGraw-Hill Education. (available at http://jmvertiz.posgrado.unam.mx/pmdcmos02/convocatorias/Users_guide_medical_literature.pdf or through Amazon)
- b) Read BROWNSON, R. C., BAKER, E. A., LEET, T. L., GILLESPIE, K. N. & TRUE, W. R. 2010. *Evidence-Based Public Health*, Oxford University Press, USA.
- c) Look at <http://rusnak.truni.sk/prednasky/EBPH/index.html> and focus on a procedure to evaluate guidelines using AGREE instrument http://www.agreetrust.org/wp-content/uploads/2013/10/AGREE-II-Users-Manual-and-23-item-Instrument_2009_UPDATE_2013.pdf as well as ADAPTE technique for adapting guidelines from international sources <http://rusnak.truni.sk/prednasky/EBPH/index.html>

Ad 2. Basics of Clinical Epidemiology

- a) Read FLETCHER, R., FLETCHER, S. & WAGNER, E. 1996. *Clinical Epidemiology: The Essentials*, Lippincott Williams & Wilkins

Ad 3. Practical application

- a) Become familiar with the Cochrane library and find evidence relevant to the area of your research;
- b) Visit the web site of *Guidelines International Network (GIN)*, tiež *National Institute for Health and Care Excellence (NICE)*, *Scottish Intercollegiate Guidelines Network (SIGN)* and find guidelines relevant to your area of research;

- c) Evaluate the guidelines (from previous point) using procedure AGREE;
- d) Use the ADAPTE process to adapt selected guideline to your local conditions;
- e) Lessons learned and their application in research problems summarized in the form of essays.

Materials to be submitted for exam:

- a) Extract evidence relevant to the research area from the Cochrane Library;
- b) List of guidelines identified;
- c) Protocol from the assessment of selected guidelines (b) based on the AGREE;
- d) Guideline adapted based on ADAPTE procedure;
- e) Compile results of *a)* to *d)* in a form of a report.

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