UNIVERSITY OF NOVI SAD FACULTY OF MEDICINE



Study program: Integrated Academic Studies in Medicine

Course title: Pharmacoeconomics

Teacher: Zdenko S. Tomić, Olga J. Horvat, Boris Ž. Milijašević

Course status: elective

ECTS Credits: 3
Condition:

Course aim

To provide students with knowledge on basic principles and importance of pharmacoeconomics.

Expected outcome of the course

Students should acquire knowledge on basic principles of conducting pharmacoeconomy research, to be able to analyze data obtained in pharmacoeconomy research. Students should be able to perform pharmacoepidemiological analysis for particular geographic area or healthcare institution.

Course description

Theoretical education:

Pharmacoeconomical principles in creating lists of drugs. Information systems for monitoring drug use at national level - importance and possibilities. Principles of pharmacoepidemiological drug monitoring. The importance and possibilities of analyzing pharmacoepidemiological data with special emphasis on pharmacoeconomical evaluations. The concept of ATC/DDD classification and drug labelling. Definition of adverse drug effects.Post-marketing drug monitoring. The impact of adverse effects on pharmacoeconomical analysis. Basic principles of pharmacoeconomics. Principles of pharmacoeconomical analysis – cost of treatmen, cost of iminimization, costs - effectiveness relationship, costs and benefits, costs and usability. Effects of pharmacological properties of drugs on therapy expenses. Effects of pharmaceutical formulations on the cost of treatment.QUALY- importance, calculation principles.

Practical education:

Drug registration, licensing, procedures. Evidence based medicine. Principles of controlled clinical studies. Principles of meta-analysis. Implementation of results of clinical trials and meta-analysis into pharmacotherapeutic/pharmacoeconomic guidelines. Drug prices — international comparison. Specific characteristics of pharmacoepidemiology in outpatient and hospital practice. Specific characteristics of pharmacoeconomic calculations of particular pharmaceutical forms - combinations, drops, dermatological preparations, etc. Adverse effects risk assessment. Costs of adverse effects. Drug therapy risk assessment.Treatment cost assessment. Application of cost-minimization analysis. Application of cost-effectiveness analysis. Application of cost-benefit analysis. Application of cost-usability analysis. Assessing the impact of therapy on the quality of life.

Literature

Compulsory

- 1. Vogenberg F.R. Introduction to Applied Pharmacoeconomics. New York: Mc. Grow-Hill; 2001.;
- 2. Berger ML, Bingefors K, Hedblom EC, Pashos CL, Torrance GW. Health Care Cost, Quality, and Outcomes. Lawrenceville NJ: ISPOR Book of Terms; 2003.

Number of active classes	Theoretical classes: 15	Practical classes: 30
Teaching methods		
Theoretical and practical		

Student activity assessment (maximally 100 points)				
Pre-exam activities	points	Final exam	points	
Lectures	15	Written	70	
Practices	15	Oral		
Colloquium		Other		
Essav	(2x35)			