

Course description

Part 1

General information about the course		
1. Major of study: medicine		2. Study level: unified MSc
		3. Form of study: intramural
4. Year: III		5. Semester: V
6. Course name: EBM (Evidence Based Medicine)		
7. Course status: required		
8. Course contents and assigned learning outcomes		
1.Understand the general concept of EBM.		
2.Understand the problems of implementing EBM, and their possible solutions.		
3.Understand the clinical effectiveness of a procedure, and the cost of implementation.		
4.Understand the concept of evidence.		
5.Understand the principles of statistics in EBM.		
6.Understand the problems behind carrying out a search of the literature from databases such as Cochrane and Medline.		
7.Understand the different types of literature reviews.		
Objectives		
1.Manage to identify possible problems implementing EBM at the personal level, practice, and patients' level.		
2.Knows how to seek for evidence, has the ability to develop an answerable question, and strategy to answer the question.		
3.Knows how to critically appraise and use the evidence.		
4.Knows how to define and calculate odds ratios, absolute risk, relative risk, NNT, NNH, NNS.		
5.Knows how to critically appraise literature reviews, RCTs.		
6.Be able to ask a focused research question and to carry out a literature search.		
7.Be able to search the Medline and Cochrane database to answer to the clinical query.		
Learning outcomes / reference to learning outcomes indicated in the standards		
For knowledge – student knows and understands: B.W.29, D.W.23		
For skills student can do: B.U13, D.U.16, D.U.17		
For social competencies student is ready to:		
1. Use evidence-based information		
2. Promote healthy medical interventions		
3. Formulate opinions on different topics in medicine		
9. Number of hours for the course:		10
10. Number of ECTS points for the course:		1
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Open discussion, solving common medical problems	*
Skills	Open discussion, solving common medical problems	*
W kompetencji Competencies	Observation	*

* The following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved

Course description

Part 2

Other useful information about the course		
12. Name of Department, mailing address, e-mail: Katedra I Zakład Biochemii/Department of Biochemistry e-mail: biochemk@sum.edu.pl		
13.Name of the course coordinator: Dr hab. n. med. Tomasz Francuz, prof. SUM		
14. Prerequisites for knowledge, skills and other competencies: Basic knowledge about statistics: statistical significance, standard deviation, distribution, confidence intervals.		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	Recommended literature	
17. Location of classes	Faculty of Medical Sciences in Katowice	
18. Location and time for contact hours	Department of Biochemistry, daily working hours	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 / C_K01	Student knows how to conduct and interpret results of populational and observational studies	B.W.29,
P_W02 / C_K02	Student knows basic concepts related to Evidence Based Medicine	D.W.23
P_U01 / C_S01	Student can interpret results of clinical studies	B.U13
P_U02 / C_S02	Student is able to improve his/her knowledge	D.U.16
P_U03 / C_S03	Student can critically appraise medical literature	D.U.17
20. Forms and topics of classes		Number of hours
21.1. Lectures		6
1. Introduction to Evidence Based Medicine		2
2. Critical appraisal, literature reviews and screening		2
22.2. Seminars		6
1. Overall view of EBM, problems of implementing EBM and possible solutions, understand what constitutes a high quality RCT, meta-analysis		3
2. How to search the literature – Cochrane and Medline databases, literature reviews, publication bias, principles of screening and diagnostic procedures		3

24. Readings	
1.	Users' Guides to the Medical Literature: Essentials of Evidence-Based Clinical Practice, Second Edition (Jama & Archives Journals) by Gordon Guyatt
2.	Evidence-Based Medicine, 4th Edition. How to Practice and Teach It by Sharon E. Straus
25. Detail evaluation criteria	
In accordance with the recommendations of the inspection bodies Completion of the course – student has achieved the assumed learning outcomes Detail criteria for completion and evaluation of the course are specified in the course regulations	