



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Basics of EBM (Evidence Based Medicine)	
Module type	Obligatory/Facultative (wybrać)
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medicine
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	yearV, semesterX
ECTS credits (incl. semester breakdown)	0,5
Type/s of training	lectures (12h) /seminars (32h)/ practical/ (wybrać)
Form of assessment*	<input type="checkbox"/> graded assessment: <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department/ Clinic, Unit	Dr hab. n.med. Tomasz Olszowski: tomasz.olszowski@pum.edu.pl
Tutor responsible for the module	Prof. dr hab. n. med Artur Mierzecki
Department's/ Clinic's/ Unit's website	Zakład Higieny i Epidemiologii tel. 91 466 16 38 https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-higieny-i-epidemiologii
Language	English

* replace into where applicable

Detailed information

Module objectives		The student critically evaluates medical literature. He knows the concept of "knowledge and practice based on scientific evidence" (evidence based medicine); principles and formulation of research hypotheses in epidemiology.
Prerequisite /essential requirements	Knowledge	1. knows the methods of identification and examination of risk factors, advantages and disadvantages of various types of epidemiological studies; knows the measures of association used in different types of studies and cause-and-effect relationship
	Skills	1. explains the differences between prospective and retrospective, randomized and case-control studies, case reports and experimental studies and ranks them according to the reliability and quality of the scientific evidence
	Competences	1. shows the habit of self-education

Description of the learning outcomes for the subject /module

No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards)	Method of verification of learning outcomes*
W01	knows principles of research, observations and experiments and <i>in vitro</i> tests supporting the development of medicine	K_B.W34	ET
W02	knows principles of evidence-based medicine	K_D.W20	ET
W03	knows methods for identification and examination of risk factors, advantages and disadvantages of different types of epidemiologic investigation and measures confirming cause-and-effect relationship,	K_G.W2	ET
U01	uses databases, incl.on-line bases and searches for information required by means of available tools	K_B.U11	ET
U02	selects appropriate statistical tests, conducts basic statistical analyses and uses selected methods to present results, interprets results of meta-analysis, and performs analyses of survival probability	K_B.U12	ET
U03	explains differences between prospective and retrospective , randomized and clinical-follow up study, case studies and experimental investigation and prioritizes them according to the credibility and quality of research evidence	K_B.U13	ET
U04	reviews medical literature , incl. English literature and draws conclusions on the basis of available literature	K_D.U17	ET
K01	accepts the need for standards of conduct	K_K01	ET
K02	Demonstrates the awareness for self-education, understands the need for continuing professional education, can inspire and organize learning processes in others	K_K03	ET

K03	is aware of his/her own limitations and knows when to refer to experts	K_K17	ET
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Table presenting LEARNING OUTCOMES in relation to the form of classes								
No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other...
W01	K_B.W34						X	
W02	K_D.W20						X	
W03	K_G.W2						X	
U01	K_B.U11						X	
U02	K_B.U12						X	
U03	K_B.U13						X	
U04	K_D.U17						X	
K01	K_K01						X	
K02	K_K03						X	
W01	K_K17						X	

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Summer semester			
E-learning			
	Evidence-based medicine. Clinical question	1	W02; U01
	Critical evaluation of the results of epidemiological studies in clinical practice. Types of errors in epidemiological studies	1	W01, W03, U03, U04
	Systematic review and meta-analysis	1	W03 W02 U02
	Economic analyzes in health care	1	W02; U04
	Clinical practice guidelines	1	W02; W05; U01; U04

Booklist
Obligatory literature:
1. Sharon E. Straus, Glasziou Paul, W. Scott Richardson, Haynes, R. Brian. Evidence-Based Medicine, Elsevier Books, 2018

Student's workload	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	
Time spent on preparation to seminars/ practical classes	
Time spent on reading recommended literature	10

Time spent on writing report/making project	
Time spent on preparing to colloquium/ entry test	5
Time spent on preparing to exam	
Other	5
Student's workload in total	20
ECTS credits for the subject (in total)	0,5
Remarks	

* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedial presentation

other...