

Research Methodology and Ethics

1. IMPRINT	
Academic Year	2022/2023
Department	Faculty of Dental Medicine
Field of study	English Dentistry Division
Main scientific discipline (in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)	Medical sciences
Study Profile (general academic / practical)	General academic
Level of studies (1st level / 2nd level/ uniform MSc)	Uniform MSc
Form of studies	Full-time program
Type of module / course (obligatory / non-compulsory)	Obligatory
Form of verification of learning outcomes (exam / completion)	Completion
Educational Unit / Educational Units (and address / addresses of unit / units)	Department of Education and Research in Health Sciences, Faculty of Health Sciences, Litewska 14/16, 00-581 Warsaw nzd@wum.edu.pl tel. (+48 22) 57 20 490 Department of Epidemiology and Biostatistics, Faculty of Medicine, Oczki 3, 02-007 Warsaw joanna.peradzynska@wum.edu.pl tel. (+48 22) 629 02 43

Head of Educational Unit / Heads of Educational Units	Prof. Joanna Gotlib joanna.gotlib@wum.edu.pl Joanna Peradzynska, PhD joanna.peradzynska@wum.edu.pl
Course coordinator (title, First Name, Last Name, contact)	Prof. Joanna Gotlib joanna.gotlib@wum.edu.pl
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Mariusz Panczyk, PhD, Assoc. Prof. mariusz.panczyk@wum.edu.pl
Teachers	Mariusz Panczyk, PhD, Assoc. Prof. mariusz.panczyk@wum.edu.pl Mariusz Jaworski, PhD mariusz.jaworski@wum.edu.pl Joanna Peradzynska, PhD joanna.peradzynska@wum.edu.pl

2. BASIC INFORMATION				
Year and semester of studies	3 th year, 6 th semester		Number of ECTS credits	1.00
FORMS OF CLASSES Contacting hours with academic teacher		Number of hours	ECTS credits calculation	
Seminar (S)		8	8 0.32	
Discussions (D)	Discussions (D)			
e-learning (e-L)				
Practical classes (PC)				
Work placement (WP)				
Unassisted student's work				
Preparation for classes and completions		15	0.60	

3.	COURSE OBJECTIVES
01	Familiarising with Good Research Practice in terms of regulations stemming from the Singapore Declaration
02	Familiarising with general guidelines for dissemination of research result

		NING — DETAILED DESCRIPTION OF EFFECTS OF LEARNING (concerns fields of study regulated by the Science and Higher Education from 26 of July 2019; does not apply to other fields of study)	
Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)		Effects in time	
Knowledge – Grac	duate* knows a	and understands:	
D.W12.	principles of	altruism and clinical responsibility	
D.W15.	patient's rigl	hts	
G.W27.	principles of medical ethics and deontology, ethical problems of modern medicine resulting from the dynamic development of biomedical science and technologies, as well as the principles of ethical conduct of a dentist		
Skills- Graduate*	is able to:		
D.U11.	follow ethical patterns in professional activities		
D.U12.	respect patient's rights		
D.U16.	critically analyze medical literature, including in English, and draw conclusion		
G.U25.	explain and ethics	apply the standards contained in the Code of Medical Ethics and international standards of medical	
n appendix to the R	egulation of Min	ister of Science and Higher education from 26th of July 2019 "graduate", not student is mentioned.	
5. Addition	ONAL EFFECTS	OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of lea	arning i time	
(nowledge – Grad	duate knows ar	nd understands:	
K1	basic concepts of research methodology		
skills– Graduate is	s able to:		
S1	formulates r	research problems related to his/her work	
ocial Competenc	ies – Graduate	is ready for:	
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6. CLASSES		
Form of class	Class contents	Effects of Learning
	Discussion of basic rules of research integrity pertaining to: research data; research procedures; results publishing; publication authorship;	D.W12. D.W15.
Lecture	reviewing; scientific collaboration; conflict of interest; the most common forms of misconduct including how to deal with them. The lecture will focus on clinical	G.W27. D.U11.
	research.	D.U12. G.U25.
Seminar	1. Introduction to research methodology: Defining the research area, research methodology and tools used. Presenting	D.U16 K1
	the main principles of credibility of research and the assumptions of appropriate methodology and research in medicine.	S1
	2-3. Discussing issues related to good practices of planning and conducting clinical research	
	Selection of adequate research method/ measuring technique, impact of various factors on observational error, sampling and its significance, types of clinical research and their profile.	
	4. Presenting the principles of EBM and critical analysis of scientific literature with regard to methodology applied	
	Classification of clinical research and their design, as well as advantages and disadvantages of particular research strategies applied in biomedical research.	
	The fundamentals of EBM (<i>Evidence-based medicine</i>), that is clinical behaviour based on best possible scientific evidence coming from clinical research.	

7. LITERATURE

Obligatory

- 1. The European Code of Conduct for Research Integrity (by European Science Foundation and ALLEA All European Academies).
- 2. Euser AM, Zoccali C, Jager KJ, Dekker FW. Cohort studies: prospective versus retrospective. Nephron Clin Pract. 2009; 113(3): c214-7: https://www.karger.com/Article/FullText/235241
- 3. Song JW, Chung KC. Observational studies: cohort and case-control studies. Plast Reconstr Surg. 2010;126(6):2234-2242. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2998589/
- 4. Setia MS. Methodology Series Module 3: Cross-sectional Studies. Indian J Dermatol. 2016;61(3):261-264. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885177/
- 5. CASP Appraisal Checklists: https://casp-uk.net/casp-tools-checklists/

Supplementary

Beyari MM, Strain D, Li CS, Lamfon HA. Conflict of interest reporting in dentistry meta-analyses: A ystematic review. J Clin Exp Dent. 2014;6(3):e280-e285. Published 2014 Jul 1. doi:10.4317/jced.51225: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4134859/

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
D.U16 K1 S1	Completion on-line test	Obtaining at least 51% of the points when tested on the platform
D.W12. D.W15. G.W27.	Presence during classes and discussion with the teacher.	-

Appendix No 3 for Regulation No 42/2020 of MUW's Rector dated 5.03.2020 r. Appendix No 4 for the procedure of development and periodical review of syllabuses

D.U11.	
D.U12.	
G.U25.	

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

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