

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 (1 st level / 2 nd 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, 00-58 Warsaw zakladdydaktyki@wum.edu.pl tel. 22 57 20 490

Head of Educational Unit / Heads of Educational Units	Prof. Joanna Gotlib joanna.gotlib@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, Assoc. Prof. mariusz.jaworski@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)				
Discussions (D)	Discussions (D)			
e-learning (e-L)	-learning (e-L) 8 (seminar) 0.32		32	
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 – Grad	duate* knows a	and understands:	
D.W12.	principles of	f altruism and clinical responsibility	
D.W15.	patient's rigi	hts	
G.W27.		f ethics and medical deontology, ethical problems of modern medicine resulting from the dynamic of biomedical science and technologies, as well as principles of ethical conduct of a dentist	
Skills- Graduate*		<u> </u>	
D.U11.	follow ethical standards in professional activities		
D.U12.	respect patient's rights		
D.U16.	critically analyse medical literature, including English literature, and draw conclusions		
G.U25.	explain and apply the standards contained in the Code of Medical Ethics and international standards of medical ethics		
n appendix to the Re	egulation of Min	ister of Science and Higher education from 26th of July 2019 "graduate", not student is mentioned.	
5. Addition	ONAL EFFECTS	6 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:		
S 1	formulates r	research problems related to his/her work	
ocial Competenc	ies – Graduate	is ready for:	
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Form of class	Class contents	Effects of Learning
On-line lecture	Discussion of basic rules of research integrity pertaining to: research data; research procedures; results publishing; publication authorship; reviewing; scientific collaboration; conflict of interest; the most common forms of misconduct including how to deal with them. The lecture will focus on clinical research.	D.W12. D.W15. G.W27. D.U11. D.U12. G.U25.
On-line course	 Introduction to research methodology: Defining the research area, research methodology and tools used. Presenting the main principles of credibility of research and the assumptions of appropriate methodology and research in medicine. 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. 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 (Evidence-based medicine), that is clinical behaviour based on best possible scientific evidence coming from clinical research. 	D.U16 K1 S1

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 of the on-line course available on the university e-learning platform: https://e-learning.wum.edu.pl	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.	
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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