



Research Methodology and Ethics

1. IMPRINT

Academic Year	2026/2027
Department	Faculty of Medicine and Dentistry
Field of study	English Dentistry Division
Main scientific discipline	medical sciences
Study Profile	general academic
Level of studies	uniform MSc
Form of studies	full-time program
Type of module / course	obligatory
Form of verification of learning outcomes	completion
Educational Unit / Educational Units	Department of Epidemiology and Biostatistics Banacha Campus, Medical Simulation Center Pawińskiego Street 3a, 02-106 Warsaw Office: Room A318 (3rd floor), epidemiologia@wum.edu.pl
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2. BASIC INFORMATION

Year and semester of studies	3rd year, 5th semester	Number of ECTS credits	1.00
FORMS OF CLASSES	Number of hours	ECTS credits calculation	
Contacting hours with academic teacher			
Lecture (L)	2	0.08	
Seminar (S)	8	0.32	
Classes (C)			
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

O1	Consolidate knowledge of Evidence-Based Medicine (EBM) and its application in clinical dental practice.
O2	Develop skills in critical appraisal of scientific literature and its use in clinical decision-making in dentistry.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING

Code and number of the effect of learning in accordance with standards of learning	Effects in the field of: <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>
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Knowledge – Graduate* knows and understands:

D.W10.	concepts of patient's safety and safety culture, and their organisational, communication and management aspects;
G.W15.	principles of medical ethics and deontology, ethical problems of contemporary medicine resulting from the dynamic development of science and biomedical technologies, as well as the principles of ethical conduct of a dentist;
G.W19.	legal regulations on medical experiments and scientific research on humans ;

Skills– Graduate* is able to:

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* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)

Number of effect of learning	Effects in the fields of:
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Knowledge – Graduate knows and understands:

K1	-
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Skills– Graduate is able to:

S1	design methodologically sound scientific research in the field of dentistry
S2	critically appraise medical literature

Social Competencies – Graduate is ready for:

SC1	-
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6. CLASSES

Form of class	Class contents	Effects of Learning
Lectures	Good research practice – ethics in research. Research protocols Principles of reporting randomized trials (CONSORT), observational studies (STROBE), and diagnostic accuracy studies (STARD)	D.W10. G.W15. G.W19.
Seminars	Evidence-based medicine (EBM) in dentistry Formulating clinical questions Hierarchy of evidence Presentation and interpretation of research results Reliable sources of knowledge and principles of information searching Critical appraisal of studies on treatment and prevention Assessment of validity and applicability	D.W10. G.W15. G.W19. S1 S2

7. LITERATURE

Obligatory

WHO. Basic Epidemiology <https://www.who.int/publications/b/31231>

Supplementary

- Good Clinical Practice (GCP) <https://www.ema.europa.eu/en/ich-e6-good-clinical-practice-scientific-guideline>
- Good Epidemiology Practices (GEP)
https://www.gmds.de/fileadmin/user_upload/Publikationen/Empfehlungen_Veroeffentlichungen/0807_Publikation_2008_GEP_LL_english.pdf
- Legal acts concerning scientific research EMA <https://www.ema.europa.eu/en/about-us/what-we-do/legal-framework>

4. Reporting guidelines for different study types, including CONSORT, STROBE and STARD <https://www.equator-network.org/reporting-guidelines/strobe/>

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
S1, S2	Active participation in activities during seminars and lectures	Participation in activities
G.W19. D.W10. G.W15.	Written test in the form of closed-ended questions	Written test - 20 single-best-answer multiple-choice questions; passing threshold: 60%: 2.0 (fail) - 11 or fewer correct answers 3.0 (satisfactory) - 12-13 correct answers 3.5 (fairly good) - 14-15 correct answers 4.0 (good) - 16-17 correct answers 4.5 (above good) - 18-19 correct answers 5.0 (very good) - 20 correct answers

9. ADDITIONAL INFORMATION

- lectures will be available asynchronously through a dedicated course on the eWUM platform: <https://e-learning.wum.edu.pl/login/index.php>
- attendance at seminars is compulsory. If a student is absent from a class, they must notify the course coordinator or another person designated by the head of the unit by email or in writing no later than three working days after the date on which the class took place. The notification must specify the date of absence. Justification submitted after this deadline will be accepted only where the student was unable to provide it earlier for valid reasons; in such cases, it must be submitted immediately after those reasons cease to apply. In the event of an excused absence, the student must make up the course content covered during the class in a form agreed with the course coordinator. Subject to organisational feasibility, this may include attending the class with another group, provided that this has been agreed in advance.
- the course concludes with a credit assessment. If a student is absent from the assessment or fails to take it by the specified deadline, they must notify the course coordinator by email or in writing no later than three working days after the assessment date. An unexcused absence from the assessment constitutes grounds for recording a failure for that assessment date. In the event of an excused absence, the student is entitled to take the assessment on the next date scheduled by the unit. If the student fails to obtain credit by the final scheduled assessment date in a given academic year, they will not receive credit for the course.
- a student who does not achieve the pass mark of 60% in the written test is entitled to two resit attempts, in accordance with the Study Regulations of the Medical University of Warsaw (WUM). In the case of the second resit attempt, the student may apply to the Dean for permission for an observer designated by the student government to attend the assessment. Where substantiated concerns are raised regarding the conduct of the assessment, the Dean may grant permission for the student to take the assessment before a board.

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ATTENTION

The final 10 minutes of the last class of the block/semester/year should be allotted for students to fill out the Survey of Evaluation of Classes and Academic Teachers