



Scientific writing and publishing for medical students

Pisanie i publikowanie artykułów naukowych dla studentów medycyny

1. IMPRINT

Academic Year	2026/2027
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical sciences
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module / course	Obligatory (elective course)
Form of verification of learning outcomes	Completion
Educational Unit / Educational Units	Department of Social Medicine and Public Health Medical University of Warsaw Medical Simulation Center Banacha Campus 3a Pawińskiego St., 02-106 Warsaw E-mail: msizp@wum.edu.pl
Head of Educational Unit / Heads of Educational Units	Prof. Aneta Nitsch-Osuch, MD
Course coordinator	Assoc. Prof. Krzysztof Kanecki, MD krzysztof.kanecki@wum.edu.pl
Person responsible for syllabus	Assoc. Prof. Krzysztof Kanecki, MD krzysztof.kanecki@wum.edu.pl
Teachers	Assoc. Prof. Krzysztof Kanecki, MD Katarzyna Lewtak, MD, PhD

2. BASIC INFORMATION

Year and semester of studies	IV year, summer, and winter semester	Number of ECTS credits	2.00
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FORMS OF CLASSES	Number of hours	ECTS credits calculation
Contacting hours with academic teacher		
Lecture (L)		
Seminar (S)	30 (e-learning)	1.2
Classes (C)		
e-learning (e-L)		
Practical classes (PC)		
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	20	0.8

3. COURSE OBJECTIVES

O1	To gain knowledge of different types of scientific articles and their structures.
O2	To develop skills in scientific writing and in the use of appropriate tools at various stages of preparing a scientific article.

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:

B.W26	basic information about technology and biostatistical methods used in medicine, including medical databases, spreadsheets and basics of computer graphics;
B.W29	how to perform scientific, observational and experimental research, as well as in vitro tests the purpose of which is the development of medicine.
G.W1	health assessment methods of an individual and a population, disease and medical procedure classification;
G.W2	ways of identification and examination of risk factors, advantages and disadvantages of different epidemiological study methods and cause-effect relation measures;
G.W5	legal regulations relating to granting healthcare benefits, patient rights, the basics of the profession of a physician and functioning of the medical self-government;

Skills– Graduate* is able to:

B.U10	use databases, including the Internet and search for needed information with available tools;
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B.U12	explain the differences between prospective and retrospective study, randomised and clinical and case-control studies, descriptions of cases and experimental research, as well as arrange them according to their credibility and quality of scientific evidence;
B.U13	plan simple research and interpret the results and draw conclusions.
D.U13	respect ethical standards in professional activities;
D.U16	assume the responsibility for improving his/her qualifications and teaching other people;
D.U17	critically analyse the medical bibliography (also in English) and draw conclusions;
G.U3	interpret the incidence of diseases and disability;
G.U4	assess the epidemic situation of diseases common in the Republic of Poland and worldwide;

* 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 <i>(non-compulsory)</i>	
Number of effect of learning	Effects in the fields of:
Knowledge – Graduate knows and understands:	
K1	the objectives of conducting scientific research and the specific characteristics of medical research;
K2	the types of scientific articles and the structure of scientific manuscripts;
K3	authorship criteria and ethical principles related to the preparation and publication of scientific articles;
K4	criteria for selecting an appropriate scientific journal and tools supporting journal selection;
K5	reference management software and tools supporting the preparation of scientific papers.
Skills– Graduate is able to:	
S1	use new technologies and tools, including AI-based tools, in scientific work;
S2	develop a framework for the structure of a scientific article;
S3	plan their own educational activities and engage in continuous professional development to update knowledge;
S4	communicate effectively within a team and share knowledge;
S5	critically evaluate scientific research findings.
Social Competencies – Graduate is ready for:	
SC1	use the credible sources of information
SC2	formulate conclusions based on their own measurements or observations;
SC3	prepare a scientific article;

SC4	use appropriate tools and information sources when writing scientific papers.
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6. CLASSES		
Form of class	Class contents	Effects of Learning
(e-L) seminar 1 asynchronous online course	Start your publishing journey: planning a scientific paper	B.W29, G.W1, G.W2, G.W5, B.10, B.U12, B.U13, D.U13, D.U17, G.U3, G.U4
(e-L) seminar 2 asynchronous online course	Finding the evidence: effective literature searching	B.W26, B.W29, G.W1, G.W2, G.W5, B.U10, B.U12, B.U13, D.U13, D.U16, D.U17, G.U3, G.U4
(e-L) seminar 3 asynchronous online course	Know your article: types of scientific publications	B.W29, D.U17
(e-L) seminar 4 asynchronous online course	Writing the paper: structure, style and scientific language	B.W26, B.W29, D.U16, D.U17
(e-L) seminar 5 asynchronous online course	Your research toolkit: ai, writing support and data visualization	B.W26, B.W29, D.U13, D.U16, D.U17
(e-L) seminar 6 asynchronous online course	Getting published: how to choose the right journal	B.W29, D.U16, D.U17
(e-L) seminar 7 asynchronous online course	The publication journey: from submission to acceptance	B.W29, D.U16, D.U17
(e-L) seminar 8 asynchronous online course	Research impact: how scientists are evaluated	B.W29, B.U12, D.U16, D.U17
(e-L) seminar 9 asynchronous online course	Sharing science: from publication to public engagement	B.W29, B.U13, D.U13, D.U16, D.U17
(e-L) seminar 10 asynchronous online course	Mastering scientific writing: from beginner to author	B.W26, B.W29, D.U16, D.U17

7. LITERATURE
Obligatory
ICMJE. Manuscript Preparation and Submission. https://www.icmje.org/recommendations/browse/manuscript-preparation/
Supplementary
Writing in the Sciences. https://online.stanford.edu/courses/som-y0010-writing-sciences

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
B.W26; B.W29; G.W1; G.W2; G.W5; B.U10; B.U12; B.U13; D.U13; D.U16; D.U17; G.U3; G.U4.	1. Quizzes, written assignments 2. Test (MCQ)	A minimum score of 70% is required for all quizzes, assignments, and the final test.

9. ADDITIONAL INFORMATION

*(Please write here Information essential for the course instructor that are not included in the other part of the course syllabus, **particularly the number of acceptable tries for passing a subject (§ 26, § 27 and § 28 of Study Regulations)**, including exam admission passes, and e.g. if the course is related to scientific research, detailed description of, information about the Science Club)*

Additional Information:

- The maximum number of participants per course edition is 500.
- Students have three attempts to obtain credit for the course (in accordance with §§ 26, 27, and 28 of the Study Regulations).
- The course is conducted entirely online via the e-learning platform www.e-learning.wum.edu.pl.

Course Requirements:

- All course deadlines, including those for assignment submission and completion of required learning activities (reviewing course materials and completing quizzes), will be announced in the General Information section on the main page of the e-learning course. Students are responsible for checking this section regularly and meeting all published deadlines.
- Students are required to study all learning materials provided within the course modules on the e-learning platform.
- After each module, students must complete all required quizzes and assignments. Completion of these activities is mandatory for successful course completion.
- All written assignments must be submitted via the e-learning platform and receive a passing evaluation from the course instructor.
- Students must complete all mandatory course requirements, including studying all course materials, successfully completing all required quizzes, and receiving a passing evaluation for all written assignments.
- Eligibility to take the final test is conditional upon the successful completion and positive assessment of all required written assignments.
- The course is considered successfully completed only after the student has fulfilled all mandatory course requirements and passed the final test available on the e-learning platform.
- A course completion certificate may be downloaded only after the final test has been passed and all required assignments have received a passing evaluation. However, a downloaded certificate does not constitute proof of successful course completion unless all course requirements have been fulfilled, including studying all required learning materials, obtaining passing scores on all required quizzes, and receiving passing evaluations for all required written assignments. Only students who meet all course requirements will be awarded course credit and have the course recorded in the official academic grading system.

Guidelines for the use of Artificial Intelligence (AI) tools

- Within the course, the use of artificial intelligence-based tools is permitted as a means of supporting the learning process.
- AI tools may be used as supportive resources, including for searching and organizing information, analyzing problems, generating a range of possible solutions, and supporting the process of creating and editing texts, while maintaining principles of academic integrity and the Evidence-Based Medicine approach.
- The use of AI tools requires compliance with academic integrity principles, in particular: declaring the use of AI tools in submitted work, maintaining independence in conducting analyses, interpreting results, and formulating conclusions, as well as respecting data protection, information confidentiality, and copyright regulations.
- It is not permitted to: present AI-generated content as one's own original work, use AI-generated responses uncritically as scientific sources of knowledge, or replace the process of reasoning and scientific evaluation with results generated by AI tools.
- The use of AI tools should support the development of analytical and critical thinking skills, as well as decision-making abilities in complex situations, including clinical and healthcare system contexts, rather than replace these skills.

Important Communication Note:

Students are required to regularly check their official MUW email account, as all course-related information is communicated exclusively through the MUW email system.

Medical University of Warsaw has property rights, including copyright, to the syllabus. The syllabus may be used for educational purposes at the MUW only. Using of the syllabus for other purposes requires consent of the MUW.

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