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|  | UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN |
|  | **Course sylabus – part A** |
| **48SJ-EBM** | **EBM with Elements of Medical Statistics** |
| **2024L** |  |
| **ECTS: 0.50** |  |

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| **SUBJECT MATTER CONTENT:**  1. History and development of EBM and Cochrane Collaboration. Basic assumptions and principles of evidence based medicine. Definition of endpoints (hard, soft, primary, secondary, clinically important, surrogate  **TEACHING OBJECTIVE:**  learning ot critical analysis ot medical literature and independent evaluation values ot scientific, medical  publications  **DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:**  **Symbols for outcomes related to the discipline:**  **Symbols for outcomes related to the field of study:**  **LEARNING OUTCOMES (Knowledge, Skills, Social competence):**   |  |  | | --- | --- | | **K1** | The student is ready perceiving and recognizing own limitations and self-assessment of deficits and educational needs | | **U1** | The student can explain the difference between prospective, retrospective, randomised, and clinical control studies, case descriptions, and experimental tests, and arrange them by credibility and quality of the research evidence | | **U2** | The student can use databases, including those available on the Internet, and find the necessary information with the available tools | | **U3** | The student can select the appropriate statistical tests, conduct basic statistical analyses, employ appropriate methods to present the results, interpret the results of meta-analysis, and carry out a survival probability analysis; | | **U4** | The student can plan and perform simple scientific studies, interpet its results, and draw conclusions. | | **W1** | The student knows and understands the basic methods of statistical analysis employed in population and diagnostic surveys; | | **W2** | The student knows and understands the principles of conducting scientific research, observational and experimental studies, and in vitro tests contributing to the advancement of medicine. | | **W3** | The student knows and understands the foundations of evidence-based medicine. |   **TEACHING FORMS AND METHODS:**   |  | | --- | | Classes-['W1', 'U1', 'K1', 'W2', 'U2', 'W3', 'U3', 'U4']-Discussion on scientific papers, poster presentations.-1. History and development of EBM and Cochrane Collaboration. Basic assumptions and principles of evidence based medicine. Definition of endpoints (hard, soft, primary, secondary, clinically important, surrogate |   **FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:**   |  | | --- | | Classes-(Oral test)-['W1', 'U1', 'K1', 'W2', 'U2', 'W3', 'U3', 'U4']-Discussion on scientlfic papers, poster presentations. |   **Literature:**   |  | | --- | | 1. ***Oxford Hanbook oof Medical Statistics***, Peacock JP, Peacock PJ, Oxford Medical Handbooks, 2017, Strony: , Tom: (literatura uzupełniająca) | | 2. ***Evidence-Based Medicine: How to Practice and Teach***, 1. Sharon E. Straus MD, II. 4th Edition. Churchill- Livingston Elsevier, 2011, Strony: , Tom: (literatura podstawowa) | | |  | | --- | | **Legal acts specifying learning outcomes:**  **Status of the course:**  **Group of courses:**  **Discipline**: Medicine  **Program:** Medicine  **Form of studies:**full-time  **Level of studies:** uniform master's studies |  |  | | --- | | **Introductory subject:** Intemal medicine, pathophysiology, Pharmacology, surgery, paediatrics.,  biostatistles  **Prerequisites:** knowledge baslcs ot pathophyslology,  dlagnoslics, biostatisllcs and trealment |  |  | | --- | | **Coordinators:**  **Tomasz Stompór, tomasz.stompor@uwm.edu.pl** | |

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|  | UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN |
|  | **Detailed description of ECTS credits awarded - part B** |
| **48SJ-EBM** | **EBM with Elements of Medical Statistics** |
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The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

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| - participation in: | 10 h |
| - consultation | 2 h |
|  | Total: 12 h |

2. Independent work of a student:

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| Independent work of a student with a textbook | 0.50 h |
|  | Total: 0.50 h |

Total (contact hours + independent work of a student): 12.50 h

1 ECTS credit = 25-30 h of an average student’s work, number of ECTS,

ECTS Points = 12.50 h : 25 h/ECTS = **0.50** ECTS

Average: 0.50 ECTS

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| - including the number of ECTS credits for contact hours with the direct participation of an academic teacher | 0.48 ECTS |
| - including the number of ECTS credits for hours of independent work of a student | 0.02 ECTS |