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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):**

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| **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:**

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| 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:**

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| Classes-(Oral test)-['W1', 'U1', 'K1', 'W2', 'U2', 'W3', 'U3', 'U4']-Discussion on scientlfic papers, poster presentations. |

**Literature:**

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| 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)  |

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| **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 |

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| **Introductory subject:** Intemal medicine, pathophysiology, Pharmacology, surgery, paediatrics., biostatistles**Prerequisites:** knowledge baslcs ot pathophyslology, dlagnoslics, biostatisllcs and trealment |

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| **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** |
| **2024L** |  |
| **ECTS: 0.50** |  |

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 |