



Veterinary epidemiology

ECTS: 2.00

SUBJECT MATTER CONTENT

TEACHING OBJECTIVE

Acquire theoretical knowledge and practical skills to assess the influence of various environmental factors and conditions on the incidence, distribution and scale of the spread of various pathological conditions and other mass emergent biological phenomena in human and animal populations.

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:

R/WA_P7S+++

Symbols for outcomes related to the field of study:

B.W16. +, B.W8. +, B.U20. +, B.U8. +, B.U19. +, C.U3. +, K.1.+, K.8.+, A.U16. +, K.5+, C.W2. +, A.W13. +, C.U2. +, B.W5. +

LEARNING OUTCOMES:

Knowledge:

W1 – Knowledge: Knows and understands: the principles of collecting, analysing and correctly interpreting clinical data and laboratory and ancillary test results, the principles and mechanisms underlying animal health, disease emergence and its treatment - from the cell, organ, animal, and herd level to the whole animal population, the code of ethics of the veterinary surgeon, the functioning of veterinary related institutions and the social role of the veterinary surgeon.

Skills:

U1 – Skills: Be able to: document and use collected information related to herd health and welfare and in some cases to herd productivity, interpret the responsibility of the veterinary surgeon towards the animal and its owner and towards society and the natural environment, use and process information, applying IT tools and using modern sources of veterinary knowledge.

Social competence:

K1 – Social competences: Is willing to: demonstrate responsibility for decisions taken towards people, animals and the natural environment, formulate conclusions from own measurements or observations, deepen knowledge and improve skills.

TEACHING FORMS AND METHODS:

Computer classes(W1;U1;K1):During the course, students will be introduced to the following content: * Methods and tools used in analytical epidemiology * Concepts

Legal acts specifying learning outcomes:
682/2020
Disciplines: Veterinary science
Status of the course:Obligatoryjny
Group of courses:A - przedmioty podstawowe
Code: ISCED 0841
Field of study:Veterinary Medicine
Scope of education:
Profile of education: General academic
Form of studies: full-time
Level of studies: uniform master's studies
Year/semester: 3/6

Types of classes: Computer classes, Auditorium classes
Number of hours in semester:Computer classes: 26.00, Auditorium classes: 4.00
Language of instruction:Polish
Introductory subject: Microbiology, Immunology, Information technology
Prerequisites: Knowledge of basic concepts and issues in subjects and computer basics

Name of the organisational unit conducting the course:Katedra Epizootiologii
Person responsible for the realization of the course:dr hab. wet. Anna Szczerba-Turek, prof. UWM
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Additional remarks:

describing the prevalence of diseases in the population and measures of disease prevalence in the population. * Theoretical basis for interpretation of diagnostic test results, sensitivity and specificity of diagnostic tests and predictive values. * Diagnostic tests: cut-off value and methods of determining it, ROC curve and interpretation. Evaluation of concordance of test results and multiple parallel and serial testing. * Principles of conducting review studies, sampling methods, and sample size determination. * Principles of conducting observational studies: cohort, case-control and cross-sectional studies. * Observational studies: calculation of relative risk, the attributable risk of exposure and interpretation of results. * Principles of evidence-based medicine, meta-analysis and systematic review and reliability of study results. * Principles of clinical research, surveys. Clinical trial protocol, study participants. * Survey, how to conduct surveys. * Principles of disease control, data and methods collection, population health monitoring and surveillance. * Information systems used in animal health LECTURE: none.

Auditorium classes(W1;):In the course of the audit course, students will become familiar with general epidemiology, with an outline of the history of veterinary epidemiology, basic concepts of epidemiology, the determinants of infectious diseases, diseases and their division, with the division of epidemiology, with the characteristics of populations, with the emergence and course of diseases in populations and definitions used in veterinary epidemiology, and with methods and principles of prevention and control of animal diseases on a local, national and international scale, with preparedness plans, population health surveillance. LECTURE: none

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Computer classes (Colloquium test) - Computer classes (Colloquium test) - Written/oral colloquium - There is 1 written/oral colloquium per semester. At least 65% of the points are required to pass the test. Grading is based on the point thresholds described in the departmental procedure "Student Assessment Policy". Students may re-grade the test twice. The condition for receiving a final pass in the classes is obtaining a positive mark for all the material discussed during the classes. "In the case of top-down suspension of the realization of classes in the stationary mode and the necessity of remote teaching, the methods of verification of the learning outcomes declared in the syllabus, and thus the forms of passing the examination and classes, may be changed in an adequate manner to the situation. - -

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BASIC LITERATURE:

1. Jędrychowski W., *Podstawy epidemiologii*, Wyd. UJ Kraków, R. 2002
2. Dirk U., Pfeiffer, *Veterinary Epidemiology*, Wyd. Wiley-Blackwell, R. 2010
3. Kita J., Kaba J. (red.), *Zarys epidemiologii weterynaryjnej*, Wyd. SGGW, R. 2008
4. Thrusfield M., *Veterinary Epidemiology*, Wyd. John Wiley, R. 2008

SUPPLEMENTARY LITERATURE:

1. Jabłoński L., *Epidemiologia. Podręcznik dla lekarzy i studentów*, Wyd. Folium, R. 1999
2. Jędrychowski W., *Epidemiologia - wprowadzenie i metody badań*, Wyd. PZWL, R. 1999