UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN
Faculty of Veterinary Medicine

Infectious diseases of farm animals II

ECTS: 4.00

SUBJECT MATTER CONTENT

LECTURE
Infectious diseases of swine – swine pox, staphylococcosis, exudative epidermitis, skin abscesses, pityriasis rosea, porcine respiratory disease complex, swine influenza, TBC-like infections, yersiniosis, encephalomyocarditis, vomiting and wasting disease, congenital tremors, porcine myocarditis syndrome, porcine parvovirus infection, SMEDI syndrome, porcine reproductive and respiratory syndrome, leptospirosis, swine brucellosis, urinary tract infections, Mycoplasma hyosynoviae arthritis, M. hyorhinis infection, Glläser`s disease, actinobacillosis, pseudomonadosis, M. haemosuis infection.,CLASSES AUDYTORYJNE:Differentiation, prevention and control of infectious diseases of swine respiratory tract (mycoplasmal pneumonia of swine, atrophic rhinitis, pleuropneumonia, influenza, PCVD, PRDC, streptococcal diseases, pasteurellosis), post mortem examination. Therapy and control of infectious diseases of swine alimentary tract (swine dysentery, spirochotosis, proliferative enteropathies, necrotic enteritis, salmonellosis, colibacteriosis, TGE, PED, piglet rotaviral diarrhea, PCV2 infection) – authopsy and laboratory diagnostics. Diagnosis, differentiation and eradication of classical and african swine fever. Diagnostics and eradication of enteroviral encephalomyelitis and Aujeszky`s disease. Systemic diseases - erysipelas, samonellosis, swine vesicular disease, yersiniosis – diagnostics, control. Preventive and prophylactic programs in pig farms.,CLASSES PRAKTYCZNE:Diagnosis of infectious diseases in pigs on the basis of post-mortem changes in internal organs. Departure to a pig farm, clinical and sectional diagnostics of infectious diseases. Laboratory diagnosis of selected infectious diseases of pigs.

TEACHING OBJECTIVE

The objective of education is an acquisition by the student theoretical knowledge in the area of causes and mechanisms of formation and transmission of the infectious diseases of farm animals (swine), as well as practical skills regarding recognition, differentiation, treatment, prevention and control of infectious diseases of swine.

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:	K.1.+, B.U8. +, A.W10. +, K.8.+, A.W13. +, B.W2. +, K.11.+, B.W3. +, B.W1. +, B.W5. +, B.U19. +, B.U21. +, A.W17. +, B.U6. +, A.U13. +, B.U3. +, B.W6. +, B.U20. +, B.U2. +, B.U13. +, A.U12. +, B.W4. +, A.U21. +, B.W8. +

LEARNING OUTCOMES:

Legal acts specifying learning outcomes:
682/2020
Disciplines: Veterinary science
Status of the course: Obligatoryjny
Group of courses:B - przedmioty kierunkowe
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: 4/8

Types of classes: Lecture, Classes, Practical classes
Number of hours in semester: Lecture: 15.00, Classes: 24.00, Practical classes: 6.00
Language of instruction: Polish
Introductory subject: Microbiology, Immunology, Pharmacology, Pathophysiology, Pathomorphology, Veterinary epidemiology.
Prerequisites: Knowledge of basic definitions and topics of above introductional subjects.

Name of the organisational unit conducting the course: Katedra Epizootiologii
Person responsible for the realization of the course:prof. dr hab. wet. Agata Bancerz-Kisiel
e-mail: a.bancerz-kisiel@uwm.edu.pl

Additional remarks: Practical and laboratory exercises in small groups.

Knowledge:

W1 – Student describes and interprets the biology of infectious agents causing pig diseases transmitted between individuals and herds, and anthroposoosone, including the disease transmission mechanisms and the body's defense mechanisms, cell, tissue, organ, system and organism disorders in the course of a swine infectious disease, pathology mechanisms organ and systemic changes, causes and symptoms of pathological changes, principles of treatment and prevention in particular diseases of pigs, principles of diagnostic procedures, including differential diagnosis, and therapeutic procedures, principles of clinical examination and monitoring of animal health, handling of clinical data and the results of laboratory and additional tests, the procedure to be followed in the event of suspicion or confirmation of diseases that are subject to compulsory eradication or registration.

Skills:

U1 – Student speaks English and Latin medical nomenclature, conduct a medical and veterinary interview in order to obtain accurate information about a single pig or herd and its or their living environment, conduct a full clinical examination of a pig, collect and preserve samples for research and perform standard laboratory tests, as well as correctly analyze and interpret results of laboratory tests, implement appropriate procedures in the case of finding a disease that is subject to compulsory control or registration of pigs, select and apply appropriate treatment, conduct epizootic investigations to establish the period during which an infectious animal disease could develop on the farm before suspecting or confirming its occurrence, the place of origin of the source of an infectious disease of animals along with the determination of other farms and the routes of movement of people, animals and objects that may have been the cause of the spread of an infectious disease to or from the farm, use the collected information related to animal health and welfare, and in selected cases also to the herd productivity, to develop and implement prophylactic programs appropriate for individual animal species.

Social competence:

K1 – Student demonstrates responsibility for decisions taken towards humans and animals; is able to critically assess their own and other people's actions and improve the proposed solutions; possess a habit of lifelong learning to enhance knowledge and improve skills; puts the welfare of the patient in the first place.

TEACHING FORMS AND METHODS:

Lecture(W1;U1;K1;):Lecture - with a multimedia presentation, films.

Practical classes(W1;U1;K1;):Diagnosis of diseases on the basis of changes in organs found post-mortem and during necropsy. Laboratory diagnosis of selected pig diseases.

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture (Exam) - FOral exam - knowledge of infectious diseases of farm animals - cattle, sheep, goats and pigs - discussed during two semesters of lectures and exercises in the subject Infectious diseases of farm animals. Students answer orally in groups of 4-5, the questions are randomly selected. To pass the final exam, you must obtain a positive grade for each of the received exam questions. The final grade for the exam is issued on the basis of the arithmetic mean value of the grades obtained for each question. The student may take the exam improvement twice. In the event of a top-down suspension of full-time classes and the need for distance learning, the methods of verifying the achievement of learning outcomes declared in the syllabus may change in a manner appropriate to the situation. -

Classes (Oral test) - Assessment of infectious diseases in pigs discussed in exercises. There is 1 oral or written test during the semester. To pass the test, you must obtain at least 65% of the possible points. The grading of grades is based on the score thresholds described in the faculty procedure "Principles of grading students". The student may attempt to correct the test twice. The condition for receiving the final pass from the exercises is to obtain positive marks from all tests taking place in the course of the classes. In case of passing all the tests, the final grade for the exercises is issued on the basis of the arithmetic mean value of all the grades obtained in the tests. Failure to pass any of the tests is tantamount to obtaining an unsatisfactory final grade in the exercises. "In the event of a top-down suspension of classroom classes and the need for distance learning, the methods of verifying the achievement of learning outcomes, declared in the syllabus, and thus the

forms of passing the exam and exercises, may change in a manner appropriate to the situation." -
Classes (Written test) - Written tests – knowledge of basic definitions and topics connected with current exercises. -
Practical classes (Evaluation of the work and cooperation in the group) - Self-diagnosis of diseases based on changes in organs found post-mortem and during necropsy. Independent performance of laboratory tests. -

BASIC LITERATURE:

1. Pomorska-Mól Małgorzata, *Profilaktyka swoista i terapia chorób zakaźnych świń*, Wyd. Elamed, R. 2019
2. Pejsak Zygmunt, *Ochrona zdrowia świń*, Wyd. PWR, R. 2007
3. Gliński Z., Kostro K., *Choroby zakaźne zwierząt. Choroby trzody chlewnej z elementami zoonoz*, Tom Tom 3, Wyd. Uniwersytet Przyrodniczy w Lublinie, R. 2004

SUPPLEMENTARY LITERATURE:

1. Zimmerman J. J., Karriker L. A., Ramirez A., Schwartz K. J., Stevenson G. W., Zhang J., *Diseases of Swine*, Tom 11th Editi, Wyd. Wiley-Blackwell, R. 2019
2. P.G.G. Jackson, P.D. Cockcroff wyd. I polskie, red. M. Fabisiak Cockcroft Peter D., *Choroby świń*, Wyd. Edra Urban Partner / Elsevier, R. 2009