



SZKOŁA GŁÓWNA
GOSPODARSTWA
WIEJSKIEGO

Zoonoses

Educational subject description sheet

Basic information

Field of study Veterinary Medicine	Didactic cycle 2024/25
Speciality -	Subject code WETFVMS_D.580.01743.24
Organizational unit Faculty of Veterinary Medicine	Lecture languages english
Study level long-cycle	Mandatory Obligatory subjects
Study form full-time studies	Block Major subjects
Education profile General academic	Disciplines Veterinary medicine
Coordinator	Krzysztof Anusz
Teacher	Krzysztof Anusz
Period Semester 8	Examination Pass with grade
	Activities and hours Lecture: 15
	Number of ECTS points 1

Goals

Code	Goal
C1	The educational purpose is to prepare students to work as a public or private veterinary professional for the prevention of zoonoses, the source of which are the food of animal origin, food of a different origin, food-producing animals, companion animals.

Entry requirements

Veterinary pharmacology 2, Veterinary microbiology 2, Veterinary virology, Clinical and laboratory diagnostics 2, Pathomorphology 2, Parasitology and invasiology 2

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	biology of infectious agents inducing zoonoses, including mechanisms of disease transmission and organism defence systems	B.W1, B.W2	Written credit
W2	causes and symptoms of zoonoses in animals and humans, patomorphological changes as a consequences of zoonoses in animals and humans, procedures of therapy and prevention in the particular zoonoses in animals and humans	B.W10, B.W16, B.W3, B.W4, B.W5, B.W8	Written credit
W3	diagnostic (including differential diagnostics) and therapeutic procedures of zoonoses in animals and humans	B.W3, B.W4, B.W5	Written credit
W4	rules of clinical evaluation and animal health monitoring, taking into account suspicion of zoonosis	B.W5	Written credit
W5	appropriate law regulations, rules governing issuing of the verdicts and official opinions for the law courts, state, local and veterinary administrations in relation to zoonoses	B.W7, B.W8	Written credit
W6	conditions for appropriate utilisation and disposal of animal by-products and management of waste from animal production, that are possible sources of zoonoses	B.W15	Written credit
W7	functioning of the State Veterinary Service and State Sanitary Inspection, also in the aspects of the control and eradication of zoonoses	B.W16	Written credit
W8	rules of consumers health protection by the appropriate organ responsible for the production of foods of animal origin	B.W17	Written credit
W9	occupational health and safety regulations in veterinary practice	B.W7	Written credit
Skills - Student can:			
U1	select and implement rational, direct and conceptual antimicrobial (zoonotic agent) therapy regarding target animal species zoonoses	B.U10, B.U13, B.U8	Written credit
U2	plan anamnesis in order to acquire precise information on animal or group of animals (heard), and their environment, taking into account aspects of zoonoses detection.	B.U10, B.U8	Written credit
U3	plan activity in the interdisciplinary team , in relation to the problem of zoonoses, especially regarding cooperation with doctors and sanitary inspectors	B.U13, B.U8	Written credit

Code	Outcomes in terms of	Effects	Examination methods
U4	appropriately interpret responsibility of the veterinary surgeon towards animal, its owner, society and environment , taking into account problem of zoonoses in animals and humans	B.U8	Written credit
U5	choose for professional advice and help proper specialists or specialised units in difficult cases, taking into account zoonoses	B.U8	Written credit
U6	analyse the accuracy of epizootic procedures in cases of the law-regulated diseases, taking into account zoonoses	B.U8	Written credit
U7	plan epizootic and epidemiologic investigation in suspicious cases to be zoonoses	B.U8	Written credit
Social competences - Student is ready to:			
K1	take responsibility for his decisions concerning humans, animals and environment	KS.1	Written credit
K2	utilise unbiased sources of information about zoonoses, with particular emphasis on emerging and re-emerging	KS.1, KS.4, KS.5, KS.6, KS.8	Written credit
K3	constantly update knowledge and skills for professional development	KS.8	Written credit
K4	communicate with co-workers and share the knowledge in the field of zoonoses eradication	KS.11, KS.9	Written credit
K5	collaborate with specialists of the other professions for the protection of public health	KS.11	Written credit

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	professional origin diseases (occupational diseases) (2 h)	W6, W7, U3, U5, K3, K4, K5	Lecture
2.	legal acts regulating the control of zoonoses; epidemiological surveillance of zoonoses in EU; definitions: direct zoonoses, cyclozoonoses, metazoonoses, saprozoonoses, "emerging zoonoses" (2 h)	W5, W7, U2, U3, U4, U5, U6, U7, K1, K4, K5	Lecture
3.	zoonoses and transmission diseases; conditions of zoonoses occurrence; food producing animals as a source of zoonoses; foodborne zoonoses (red meat and meat products, eggs and egg products, fish, shellfish, honey, byproducts of animal origin used for production of many products) (4 h)	W1, W2, W3, W4, W8, U1, U3, U4, U5, U6, U7, K1, K2	Lecture
4.	haemorrhagic fever and emerging zoonoses (2 h)	W1, W2, W3, W4, W5, W9, U1, U3, U4, U5, U6, U7, K1, K5	Lecture
5.	wildlife as a source of zoonoses (2 h)	W1, W2, W3, W4, W5, W9, U1, U3, U4, U5, U6, U7, K1, K3, K4, K5	Lecture

No.	Course content	Subject's learning outcomes	Activities
6.	pets and horses as a sources of zoonoses; exotic animals as a source of zoonoses; current zoonotic threats (3 h)	W1, W2, W3, W4, W5, W9, U1, U2, U3, U4, U5, U6, U7, K1, K2, K3, K4, K5	Lecture

Course advanced

Activities	Methods of conducting classes
Lecture	Presentation

Activities	Examination method	Percentage
Lecture	Written credit	100%

Activities	Credit conditions
Lecture	Credit for a grade - 1 written credit covering the content of lectures, formula of 5 open questions (5 points for the question). To pass the course it is necessary to get at least 60% of the total number of points. I and II dates are in the same form. Grading scale: 60-67% - satisfactory (3.0) 68-75% - satisfactory plus (3.5) 76-83% - good (4.0) 84-92% - good plus (4.5) 93-100% - very good (5.0) In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.

Literature

Obligatory

1. Zoonoses - Infections Affecting Humans and Animals. Focus on Public Health Aspects. Editor: Sing A. Springer, 2015.
2. Veterinary Parasitology Fourth Edition. Ed.: M. A. Taylor, R. L. Coop, R. L. Wall, WILEY Blackwell, 2016.
3. Handbook of Zoonoses. Identification and prevention. J.L. Colville, D.L. Berryhill, Mosby Elsevier, 2007.

Optional

1. Zoonoses: Infectious Diseases Transmissible from animals to humans. Editors: H. Krauss, H.G. Scheffer, W. Slenczka, A. Weber, H. Zohner. American Society for Microbiology, III Edition, 2003.
2. Human-Animal Medicine. Clinical Approaches to Zoonoses, Toxicants and Other Shared Health Risks. Ed.: P. M. Rabinowitz, L. A. Conti, Saunders, 2010.
3. Integrated Food Safety and Veterinary Public Health. S. Buncic, CABI, 2006.
4. Meat Hygiene. J.F. Gracey, D.S. Collins, R. J. Huey, Elsevier Health Sciences, 1999
5. Human Infectious Diseases Through the Lens of Social Ecology. F. Keesing, R.S. Ostfeld, Springer New York, 2008.

Calculation of ECTS points

Activity form	Activity hours*
Lecture	15
Preparation for the test	10
Student workload	Hours 25

Number of ECTS points	ECTS 1
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* hour means 45 minutes

Effects

Code	Content
KS.1	Absolwent jest gotów do wykazywania odpowiedzialności za podejmowane decyzje wobec ludzi, zwierząt i środowiska przyrodniczego
KS.4	Absolwent jest gotów do korzystania z obiektywnych źródeł informacji
KS.5	Absolwent jest gotów do formułowania wniosków z własnych pomiarów lub obserwacji
KS.6	Absolwent jest gotów do formułowania opinii dotyczących różnych aspektów działalności zawodowej
KS.8	Absolwent jest gotów do pogłębiania wiedzy i doskonalenia umiejętności
KS.9	Absolwent jest gotów do komunikowania się ze współpracownikami i dzielenia się wiedzą
KS.11	Absolwent jest gotów do współpracy z przedstawicielami innych zawodów w zakresie ochrony zdrowia publicznego
B.U8	Absolwent potrafi wdrażać właściwe procedury w przypadku stwierdzenia choroby podlegającej obowiązkowi zwalczania lub rejestracji
B.U10	Absolwent potrafi przepisywać i stosować weterynaryjne produkty lecznicze oraz materiały medyczne, z uwzględnieniem ich bezpiecznego przechowywania i utylizacji
B.U13	Absolwent potrafi dobierać i stosować właściwe leczenie
B.W1	Absolwent zna i rozumie zaburzenia na poziomie komórki, tkanki, narządu, układu i organizmu w przebiegu choroby
B.W2	Absolwent zna i rozumie mechanizmy patologii narządowych i ustrojowych
B.W3	Absolwent zna i rozumie przyczyny i objawy zmian anatomopatologicznych, zasady leczenia i zapobiegania w poszczególnych jednostkach chorobowych
B.W4	Absolwent zna i rozumie zasady postępowania diagnostycznego, z uwzględnieniem diagnostyki różnicowej, oraz postępowania terapeutycznego
B.W5	Absolwent zna i rozumie zasady przeprowadzania badania klinicznego i monitorowania stanu zdrowia zwierząt
B.W7	Absolwent zna i rozumie przepisy prawa, zasady wydawania orzeczeń i sporządzania opinii na potrzeby sądów, organów administracji państwowej i samorządowej oraz samorządu zawodowego
B.W8	Absolwent zna i rozumie sposób postępowania w przypadku podejrzenia lub stwierdzenia chorób podlegających obowiązkowi zwalczania lub rejestracji
B.W10	Absolwent zna i rozumie zasadę funkcjonowania układu pasożyt-żywiciel i podstawowe objawy chorobowe i zmiany anatomopatologiczne wywołane przez pasożyty w organizmie gospodarza
B.W15	Absolwent zna i rozumie sposoby zagospodarowywania i utylizacji produktów ubocznych i odpadów związanych z produkcją zwierzęcą
B.W16	Absolwent zna i rozumie zasady funkcjonowania Inspekcji Weterynaryjnej, także w aspekcie zdrowia publicznego
B.W17	Absolwent zna i rozumie zasady ochrony zdrowia konsumenta zapewniane przez właściwy nadzór nad produkcją środków spożywczych pochodzenia zwierzęcego