

Module title:	Equine infectious diseases	ECTS	2
Polish translation:	Choroby zakaźne koni		
Course:	Veterinary Medicine		

Module language: English		Stage: JM-FVM	
Form of studies: <input checked="" type="checkbox"/> intramural <input type="checkbox"/> extramural	Type of module: <input type="checkbox"/> basic <input checked="" type="checkbox"/> directional <input checked="" type="checkbox"/> mandatory <input type="checkbox"/> elective	Semester: 8	<input type="checkbox"/> winter semester <input checked="" type="checkbox"/> summer semester
Academic year: 2023/2024		Catalogue number:	FVM-V-JMSS-08S-D16/4_23

Module coordinator:	Dr hab. Lucjan Witkowski prof. SGGW
Teachers responsible for the module:	Academic teachers of the Institute of Veterinary Medicine; Division of Veterinary Epidemiology and Economics; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study
Unit responsible for the module:	Institute of Veterinary Medicine, Division of Veterinary Epidemiology and Economics
Faculty in charge:	Faculty of Veterinary Medicine
Objectives of the module:	<p>Course objectives - students acquire theoretical knowledge necessary:</p> <ul style="list-style-type: none"> <li>• to understand pathogenesis, epidemiology, symptomatology, diagnosis, differential diagnosis and prevention of equine infectious diseases: bacterial, viral, parasitic and fungal.</li> <li>• to understand biosecurity rules, diseases control and management protocols</li> </ul> <p>Students acquire the ability to use epidemiological skills and diagnose, treat and prevent infectious diseases of horses.</p> <p>Lecture topics - 3-hour blocks presentation by the academic teacher The main goal is to provide students with information about transmission, pathogenesis, diagnostics, treatment, control and management of equine infectious diseases The content of lectures supplements the content of classes.</p> <p>Equine herpesviruses – 2 h African horse sickness – 1 h Gastrointestinal tract infections – 1.5 h Equine infectious anemia – 1.5 h Glanders – 1.5 h Equine influenza – 1.5 h Equine viral arteritis – 1.5 h Equine central nervous system infections – 3 h</p> <p>Seminar topics - 3 hours blocks topic presentation by the academic teacher with clinical cases presentations and discussion Equine tetanus and anaerobic infections – 1.5 h Neonatal septicaemia – 1.5 h Strangles – 1.5 h Viral respiratory tract infections – 1.5 h Rhodococcosis – 1.5 h Tick borne diseases – 1.5 h Miscarriages in horses – 1.5 h Vaccinations in horses – 1.5 h Differential diagnosis of equine infectious diseases – 3 h Control and management of equine infectious diseases – 1.5 h</p>
Teaching forms, number of hours:	Lectures – 15 h Seminars – 15 h
Teaching methods:	<ul style="list-style-type: none"> <li>- copyright multimedia presentations,</li> <li>- clinical cases presentations,</li> <li>- video tutorials,</li> <li>- students' self-training</li> </ul> <p>Detailed schedule of the classes and detailed organization of consultations (1 hour per week) will be defined by the coordinator of the course at the beginning of semester.</p>

Formal prerequisites and initial requirements:	Passing the courses: Veterinary epidemiology, Immunology, Clinical and laboratory diagnostics, Virology, Veterinary microbiology, Pathomorphology, Animal pathophysiology, Farm infectious diseases		
Learning outcomes:	<b>Knowledge:</b> The student has basic knowledge of equine infectious diseases, specifically: 1. The student knows and understands epidemiological nomenclature 2. The student knows and understands principles of conducting epidemiological investigation 3. The student knows the pathogenesis? of infectious disease 4. The student understands the routes of transmission of infectious diseases 5. The student knows and understands the principles of treatment of infected animals 6. The student knows the principles of prevention of infectious diseases (general and specific) 7. The student knows the global and national databases containing information on the occurrence of infectious diseases subject to notification	<b>Skills:</b> 1. The student is able to diagnose particular equine infectious disease 2. The student is able to plan and implement appropriate treatment of equine infectious diseases 3. The student is able to plan and implement proper general and specific prevention of infectious diseases 4. The student is able to eradicate equine infectious diseases 5. The student is able to use scientific resources in solving clinical problems	<b>Competences:</b> 1. The student is ready to perform differential diagnosis of infectious diseases of farm animals 2. The student is ready to eradicate infectious diseases in accordance with legal regulations 3. The student is aware of his/her knowledge, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animals' owner 4. The student is aware of the necessity of constant education
Assessment methods:	Lectures are voluntary. Student is allowed to have only one absence in classes (3 hours) Written exam which comprises the whole material – descriptive or test single and multiple-choice questions The final evaluation completely depends on the number of points received on the exam. 0-2 points for each question. 0-20 points – 2.0 21-24 points – 3.0 25-28 points – 3.5 29-32 points – 4.0 33-36 points – 4.5 37-40 points – 5.0  No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.		
Formal documentation of learning outcomes:	eHMS entry. Records collected in the course portfolio (general rules of the course, students' presentations, database of written questions, written final tests)		
Elements impelling final grade:	Written exam which comprises the whole material - 100% No extra assessment methods are anticipated.		
Teaching base:	room 50, building 22 (Small Animal Clinic)		
<b>Mandatory and supportive materials:</b> <b>Mandatory</b> 1. "Equine infectious diseases" 2nd edition, D. C. Sellon & M. T. Long, Saunders, 2013 2. "Equine infectious diseases" 1st edition, D. C. Sellon & M. T. Long, Saunders, 2007 3. "Infectious Diseases of the Horse: Diagnosis, pathology, management, and public health", JH van der Kolk & EJB Veldhuis Kroeze, Oxford University Press USA, 2013 4. "Infectious Diseases of the Horse" Tim S. Mair, R. E. Hutchinson, Equine Veterinary Journal Ltd., 2009  <b>Supportive</b> 1. <a href="http://www.oie.int">www.oie.int</a> 2. <a href="http://www.aaep.org">www.aaep.org</a> 3. <a href="http://www.defra.gov.uk">www.defra.gov.uk</a> 4. <a href="http://www.isid.org">www.isid.org</a> 5. <a href="http://www.thehorse.com">www.thehorse.com</a> 6. <a href="http://www.beva.org.uk">www.beva.org.uk</a> 7. <a href="http://pubmed.gov">pubmed.gov</a> 8. relevant scientific publications, including those of the module coordinator.			
ANNOTATIONS			

Quantitative summary of the module:

Estimated number of working hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:	50 h
Total ECTS points, accumulated by students during contact learning:	1 ECTS

Learning outcomes of the module relative to the learning outcomes of the subject:

Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on each of course outcomes
Knowledge 1	The student knows and understands epidemiological nomenclature	A.W.20	2
Knowledge 2	The student knows the principles of conducting epidemiological investigation	A.W.15, B.W.4, B.W.5, B.W.6	3
Knowledge 3	The student knows the mechanisms of infectious diseases	A.W.2, A.W.5, A.W.10, A.W.12, A.W.11, B.W.1	3
Knowledge 4	The student understands the routes of transmission of infectious diseases	A.W.13	3
Knowledge 5	The student knows and understands the principles of treatment of infected animals	A.W. 16 A.W. 17, B.W. 3	1 3
Knowledge 6	The student knows the principles of prevention of infectious diseases (general and specific)	A.W. 13, B.W. 3	3
Knowledge 7	The student knows the global and national databases containing information on the occurrence of infectious diseases subject to notification	C.W.2	3
Skills 1	The student is able to diagnose particular equine infectious disease	A.U.4, A.U.10, A.U.14, B.U.2, B.U.6, B.U.16	3
Skills 2	The student is able to plan and implement appropriate treatment of equine infectious diseases	A.U.11, B.U.9, B.U.13	3
Skills 3	The student is able to plan and implement proper general and specific prevention of equine infectious diseases	B.U.21	3
Skills 4	The student is able to eradicate equine infectious diseases	B.U.8, B.U.19	3
Skills 5	The student is able to use scientific resources in solving clinical problems	A.U.21; A.U.23 B.U.20	3
Competences 1	The student is ready to perform differential diagnosis of equine infectious diseases	K.S.1, K.S.2, K.S.4, K.S.5	3
Competences 2	The student is ready to eradicate infectious diseases in accordance with legal regulations	K.S.1, K.S.2, K.S.4, K.S.5, K.S.11	3
Competences 3	The student is aware of his/her knowledge, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animals' owner	KS.1; KS.2; KS.3; KS.4; KS.7; KS.8; KS.9 KS.5; KS.6	3 2
Competences 4	The student is aware of the necessity of constant education	KS.1; KS.2; KS.4; KS.6; KS.7; KS.8 KS.5; KS.9	3