

Module title:	Rotation – farm animal diseases	ECTS	6
Polish translation:	Staż kliniczny - choroby zwierząt gospodarskich		
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: 10 <input type="checkbox"/> winter semester <input checked="" type="checkbox"/> summer semester
Academic year:		Intake 2021/2022	Catalogue number: FVM-V-JMSS-10S-D26_20

Module coordinator:	dr Michał Trela			
Teachers responsible for the module:	Academic teachers of the Institute Veterinary Medicine; Department of Large Animal Disease and Clinic; Department of Pathology and Veterinary Diagnostics; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study			
Assumptions, Goals, and Course Description	<p>This clinical rotation is focused on hands-on training in the diagnosis, treatment, and prevention of the most common diseases affecting farm animals. The course is conducted in a practical, case-based format and integrates internal medicine, infectious diseases, surgery, and reproduction under real farm and clinical conditions.</p> <p>Students actively participate in clinical work, developing practical skills in animal handling, clinical examination, diagnostic procedures, and therapeutic decision-making. Emphasis is placed on the practical application of diagnostic tools and treatment methods commonly used in farm animal practice.</p> <p>During the rotation, students perform clinical examinations, interpret laboratory and field diagnostic results, and assist in or carry out basic therapeutic and surgical procedures under supervision. The course aims to develop competencies necessary for independent clinical work, including recognition of disease aetiology and pathogenesis, formulation of differential diagnoses, and implementation of appropriate treatment and preventive strategies.</p> <p>The rotation prepares students for professional practice by strengthening practical skills, clinical reasoning, and problem-solving abilities essential in farm animal medicine.</p>			
Teaching forms, number of hours:	a) Clinical classes: 120 h			
Teaching methods:	<p>Practical workshops in the university clinic and in the field farms with the application of veterinary equipment. Detailed schedule will be defined by the coordinator of the course at the beginning of semester.</p> <p>Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.</p>			
Formal prerequisites and initial requirements:	<p>Farm animals diseases</p> <p>Knowledge in above-mentioned subject</p>			
Learning effects	Course outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*	
Knowledge:	1	Students knows the physiological and pathological mechanisms of farm animals	B.W.1, B.W.2 B.W.3	3 2
	2	Students knows the clinical manifestations of diseases and knows other diseases with similar clinical appearance	B.W.4, B.W.5 B.W.6, B.W.9 B.W.13	3
	3	Students knows the diagnostic schemes and protocols (including differential diagnosis) for farm animals diseases	B.W.4, B.W.5, B.W.6, B.W.9	3
	4	Students knows the therapeutic schemes and protocols recommended for farm animals diseases, pharmacodynamics properties of recommended products and the interactions among medicinal products	B.W.6	2
	5	Students knows the principles of conducting clinical trials and monitoring the health status of farm animals	B.W.4, B.W.5, B.W.6, C.W.3	3
	6	Students knows anatomopathological lesions typical for particular diseases of farm animals	B.W.3, B.W.1	3
	7	Students knows procedures and applicable legal provisions in the event of suspected or confirmed diseases that are subject of eradication or registration/w mandatory and notifiable	B.W.7, B.W.8, B.W.16, C.W.3, C.W.2	3

Skills:	1	Student is able to describe the mechanisms of farm animals diseases	A.U.12, B.U.3, B.U.2	3
	2	Student is able to plan the diagnostic procedures (including differential diagnosis) in the farm animals	A.U.12, B.U.6, B.U.1, B.U.3	3
	3	Student is able to plan, implement and monitor the treatment strategies	A.U.11, A.U.12, B.U.1, B.U.9, B.U.13	3
	4	Student is able to diagnose diseases of farm animals using laboratory diagnostic methods	A.U.12, B.U.2, A.U.19, B.U.1, B.U.3, B.U.6, B.U.20, C.U.2	3
	5	Student is able to conduct a full clinical examination of farm animals	A.U.12, B.U.6, B.U.1, B.U.3	3
	6	Student is able to collect, secure and properly mark biological samples	B.U.8, B.U.1, B.U.6, A.U.10	3
	7	Student is able to properly conduct an epizootic investigation and eradicate infectious diseases of farm animals	A.U.12, B.U.1, B.U.13, B.U.19, B.U.20, B.U.21	2
	8	Student is able to supplement and maintain documentation related to veterinary practice in accordance with applicable law	A.U.14, A.U.23, C.U.4	3
	9	Student is able to describe radiographs and correctly interpret the findings, diagnose the most common livestock diseases that require surgical intervention	B.U.14, B.U.13, B.U.11, B.W.4, B.W.3	3
Competences:	1	Student critically analyzes the results of research and is ready to use them for diagnostics, treatment and eradication of diseases of farm animals	K.S.4, K.S.5, K.S.7	3
	2	Student presents an attitude consistent with veterinary deontology and the Veterinary Doctor's Code of Ethics	KS.2	1
	3	Student is ready to take responsibility for his actions and decisions	KS.1	2
	4	Student is aware of the continuous development of science and is ready to expand and update knowledge	KS.4	1
	5	Student works in field conditions and effectively cooperates with co-workers and personnel	KS.9, KS.10	3
Objectives of the module required to obtain learning effects:	Students take part in field workshops on farms with high number of animals. During workshops students apply knowledge from fields of herd management, reproduction, infectious diseases, internal diseases and surgery. The aim is to provide practical skills required to assess aetiology and pathogenesis of farm animals' diseases requiring surgical, internal or obstetrical treatment, perform clinical diagnosis and examination and apply proper therapeutic procedures.			
Assessment methods:	Evaluation of student's activity and knowledge during internship. Project, medical history card, oral/written examination and practical abilities assessment In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.			
Detail description of assessment methods;	No extra assessment methods are anticipated. Project, internship notebook in "Student's Daybook of Summer Practice and Clinical Training", medical history card, exam protocol, grade in the eHMS.			
Formal documentation of learning outcome:	Records collected in the course portfolio i.e. individual records of student results, presence lists, database of oral and written questions, written assessments of the students.			
Elements impelling final grade:	Final grade is the mean result of grades from all four disciplines 1- oral examination and practical abilities assessment 50%, observations of student's activity and knowledge 25%, project, medical history cards 25 %.			
Teaching base:	Department of Large Animal Disease with Clinic, University and external farms			
Mandatory and supportive materials :	<ol style="list-style-type: none"> 1. Handbook of Veterinary Obstetrics / Peter G. G. Jackson ; il. John Fuller ; Saunders Ltd.; 2 edition (July 27, 2004) 2. Veterinary Reproduction and Obstetrics. D.E. Noakes, T.J. Parkinson, G.C.W. England 9th ed. Saunders, Elsevier, 2009 3. Large Animal Theriogenology. R.F. Youngquist, W.L. Threlfall. 2nd ed. Saunders, Elsevier. 2007 4. Pig diseases. D.J. Taylor, St Edmundsbury Press Ltd, Bury St Edmunds, Suffolk 2006 			

5. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals. OIE, 2008
6. Diseases of swine, 10th edition, John Wiley and Sons Inc. 2012, Ed. J.J. Zimmermann, L.A. Karriker, A. Ramirez, K.J. Schawrtz, G.W. Stevenson
7. Large animal internal medicine. Bradford P. Smith, MOSBY St.Louis London Philadelphia Sydney Toronto, 2005.
8. Sheep and goat medicine. Pugh D.G, W.B. Saunders Company.Philadelphia, Pennsylvania, 2002.
9. Diseases of dairy cattle. Thomas J. Divers, Simon F. Peek, Saunders Elsevier. 2008.
10. Free radicals basics of cattle diseases. Kleczkowski M., Kluciński W., Bartosz G, WPALD and BWLSS. Lomza. 2006.
11. Infectious Diseases of Livestock, 2nd edition, Oxford University Press, Ed. J. A. W. Coetzer, R. C. Tustin

Journals:

Theriogenology, Animal Reproduction Science, Reproduction of Domestic Animals, Biology of Reproduction, Reproduction, Fertility and Sterility, Reproductive BioMedicine Online, Archives of Andrology, International Journal of Andrology, Andrology

Supplementary data sources:

1. www.oie.int
2. www.isid.org
3. www.pubmed.com

Relevant scientific publications including those of the module coordinator.

ANNOTATIONS

Student's Daybook of Summer Practice and Clinical Training

The necessary condition for participation in classes is the possession of accident insurance (in Polish: Ubezpieczenie NNW).

* 3 – complete and detailed, 2 – moderate, 1 – basic.

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:	142 h
Total ECTS points, accumulated by students during contact learning:	3 ECTS