

Academic Year:	2023/2024	Group of subjects: basic / professional		Catalogue number:	E59
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Module title ¹⁾ :	Mastitis prevention and treatment in dairy herds			ECTS ²⁾	2
Polish Translation ³⁾ :	Profilaktyka i terapia mastitis w stadach krów				
Faculty ⁴⁾ :	Faculty of Veterinary Medicine				
Person in charge of the module ⁵⁾ :	dr Michał Trela				
Teachers responsible for laboratory classes, workshops and seminars ⁶⁾ :	Academic teachers of the Institute of Veterinary Medicine; Department of Large Animal Diseases with Clinic; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study				
Unit responsible for the module ⁷⁾ :	Institute of Veterinary Medicine; Department of Large Animal Diseases with Clinic				
Faculty in charge ⁸⁾ :	Faculty of Veterinary Medicine				
Module status ⁹⁾ :	a) mandatory / elective	b) stage JM	year 6	c) intramural	
Teaching cycle ¹⁰⁾ :	Semester: winter / summer	Module language ¹¹⁾ : English			
Objectives of the module ¹²⁾ :	The aim of elective courses is to familiarize students with practical aspects of managing a herd of dairy cows in the context of prevention and treatment of mastitis. Prioritize management changes to achieve stated goals (1 hour). Set achievable targets for the average number of somatic herd cells (SCC) an indicator of clinical mastitis (2 hours). Maintenance of a Clean, Dry, Comfortable Environment (2 hours). Proper Milking Procedures (1 hour). Proper Maintenance and Use of Milking Equipment (2 hours). Effective Dry Cow Management and Regular Monitoring of Udder Health Status (2 hours) - clinical classes. Diagnosis and analysis of clinical mastitis in herd. Independent analysis of clinical - cases. - fieldwork 20 hours.				
Teaching forms and number of hours ¹³⁾ :	a) Lectures: 5 h b) Practicals and field exercises: 25 h				
Teaching methods ¹⁴⁾ :	Students will work in a team during classes. During the classes, films, presentations, preparations, equipment, milking machines and computer programs will be presented. Selected clinical cases will be analysed. Consultations for students 1h / week. Detailed schedule will be defined by the coordinator of the course at the beginning of semester. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.				
Detailed module description ¹⁵⁾ :	Discussion of the expanded program to combat mastitis. Scoring assessment of teat end. Sampling of milk. Microbiological cytological testing of milk. Algorithms proceedings in herds which are characterised by high count of somatic cells in the milk tank. Reading an information including in tabulations of milk. The use of the data contained in tables when making decisions about treatment or culling of animals. Prevention during the dry period.				
Formal prerequisites ¹⁶⁾ :	Animal anatomy modules 1-2, Animal physiology modules 1-2, Biochemistry modules 1-2, Animal pathophysiology, Animal husbandry and breeding, Farm animal diseases, Feed hygiene, Clinical and laboratory diagnostics modules 1-2, Veterinary pharmacology modules 1-2, Veterinary microbiology modules 1-2, Veterinary epidemiology				
Initial requirements ¹⁷⁾ :	Knowledge of the physiology of lactation and metabolic disorder in cattle				
Learning outcomes ¹⁸⁾ :	Students: 01 - are able to choose a proper evaluation test 02 - are able to perform basic and detailed clinical examination of the udder 03 - are able to interpret results of additional methods of mastitis diagnosis		04 - apply adequate methods of mastitis treatment 05 - are able to adequate methods of mastitis prevention		
Assessment methods ¹⁹⁾ :	The basis for completing the course is the presence and active participation in the implementation of the curriculum, the correct implementation of all the procedures presented. Strategies for controlling and preventing mastitis in the herd 20% of absence is allowed in accordance with the study regulations. Theoretical test, written one or multiple choice test. The second test date is in the same form. Scoring for the written test: 61-69% - (3.0) 70-76% - (3.5) 77-84% - (4.0) 85-92% - (4.5) 93-100% - (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 the learning outcome ²⁰⁾ :	Exam papers, grade in eHMS
Elements impelling final grade ²¹⁾ :	Activity during classes – 50% Exam – 50%
Teaching base ²²⁾ :	Farms, University clinic and field clinics
Obligatory and supportive materials ²³⁾ :	1. Large Animal Theriogenology. R.F. Youngquist, W.L. Threlfall. 2nd ed. Saunders, Elsevier. 2007 2. Mastitis in Cattle. A. Biggs. The Crowood Press, 2009 3. Periodicals: Theriogenology, Animal Reproduction Science, Reproduction of Domestic Animals, Biology of Reproduction
Annotations ²⁴⁾ :	

Quantitative summary of the module²⁵⁾:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module ¹⁸⁾ - base for quantifying ECTS ²⁾ :	30 h
Total ECTS points, accumulated by students during contact learning:	1 ECTS
Total ECTS points, accumulated by student during practical classes (laboratories, projects, seminars, etc.):	1 ECTS

Learning outcomes of the module relative to the learning outcomes of the subject²⁶⁾:

Outcome No / symbol	Learning outcomes:	Relative to the learning outcomes of the subject:
01	The ability to choose a proper evaluation test	K_KP5, U_PUZ13
02	Basic and detailed clinical examination of the udder	U_PUZ1, U_PUZ2, U_PUZ3, K_KP2, W_NK4
03	Ability to interpret results of additional methods of mastitis diagnosis	U_PUZ7, W_NK4, U_PUZ6
04	Ability to apply adequate methods of mastitis treatment	U_PUZ7, W_NK4
05	Ability to apply adequate methods of mastitis prevention	U_PUZ2, U_PUZ13, U_PUZ17, W_NK4
06		
07		

