

Module code	M_WE_SEM11 CHK ST2
Field of study	Veterinary medicine
Module name, also the name in English	Diseases of horses – clinical training Block II Choroby koni – staż. Blok II
Language of instruction	English
Module type	Obligatory
Level of studies	Long-cycle master's degree studies
Form of study	Full-time
Year of study in the field of study	VI
Semester of study in the field of study	XI
ECTS credits, divided into contact/non-contact hours	5.0 (3.1/1.9)
Academic title/degree, name of the person responsible for the module	Prof. dr hab. Zbigniew Grądzki
Unit teaching the module	Department of Epizootiology and Clinic of Infectious Diseases, Department and Clinic of Animal Internal Diseases, Department of Animal Reproduction, Department of Animal Surgery, Faculty of Veterinary Medicine, University of Life Sciences in Lublin
Module objective	Mastery of knowledge and practical skills in the diagnosis, treatment and prevention of equine diseases necessary for the practice of veterinary medicine
The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	Knowledge:
	K1. Has knowledge of aetiology, epizootiology, pathogenesis, clinical course, symptomatology, anatomopathological changes, diagnosis, treatment and prevention of different equine diseases
	K2. Knows how to treat equine diseases subject to compulsory eradication and registration
	Skills:
	S1. . The student is able to take the medical-veterinary history, perform a complete clinical examination of horses, analyse and properly interpret clinical symptoms occurring in horses in various disease states, perform anatomo-pathological examination and describe this process, as well as properly collect and secure samples for laboratory examination, evaluate and interpret the results of laboratory and additional examinations, formulate the diagnosis taking into account the differential diagnosis and undertake therapeutic and preventive activities in relation to individual equine diseases
	S2. Is able to provide help to horses in case of medical emergency
	S3. Is able to implement appropriate procedures in case of suspicion and confirmation of a disease subject to eradication and registration
	Social competences:
	C1. Is willing to observe the code of ethics

	C2. Is willing to understand his/her own limitations, the need for continuous training and improvement of professional skills
	C3. Is prepared to take action under conditions of uncertainty and stress
Prerequisites and additional requirements	Passed exam in horse diseases (8th semester) and completed clinical training in horse diseases in 10th semester

Module program content	<ol style="list-style-type: none"> 1. The principles of restraining horses for clinical examination and medical procedures with and without tools (twitches, reins, ropes), fitting of retractors 2. Pharmacological methods of restraining 3. Basic examination, rectal examination, orthopaedic examination 4. Collecting samples of biological material for laboratory tests (nasopharyngeal swab, conjunctival swab, genital swab, urine, blood, skin scrapings, hair, faeces, biopsy) 5. Sampling for virological examination, pre- and post-mortem (transport swabs) 6. Non-invasive collection of tracheobronchial lavage fluid from foals 7. Rules on preservation and transport of biological material to the laboratory 8. Ability to assess the health status of the foal at birth 9. Evaluation of the immunological status of the foal at 24 hours after birth based on rapid field tests 10. Evaluation of the biological quality of colostrum of mares 11. Chest and abdominal auscultation 12. Assessment of dehydration and fluid therapy 13. Assessment of the dentition and teeth rasping 14. Lacrimal duct examination, intubation 15. Rhinoscopy, gastroscopy, bronchoscopy 16. Nasogastric tube insertion and gastric lavage 17. Rectal infusions 18. Intravenous catheter (venflon) insertion and intravenous infusions, disposable intravenous injections 19. Subcutaneous injection, intramuscular injection 20. Preparation of surgical instruments 21. Preparation of patient for surgery 22. Conducting a clinical examination (surgical, orthopaedic, dental, ophthalmic) 23. Management of injuries and wounds 24. Methods of general and local anaesthesia 25. Practical application of x-ray and ultrasound examination 26. Assisting during surgical procedures 27. Management of reproduction of horses for individual breeders and studs 28. Skills of detailed clinical examination of the reproductive system of mares and stallions (ultrasound) 29. Semen collection and insemination 30. Skills concerning difficult delivery (fetotomy, caesarean section) 31. Ability to diagnose and treat fertility disorders (uterine lavage, taking smears for cytological and bacteriological studies, performing uterine biopsies) 32. Manual removal of the placenta in mares
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List of core and supplementary literature	<p>Core literature:</p> <ol style="list-style-type: none"> 1. Dietz O., Huskamp B.: Clinical practice: Horses 2. J. Orsini, T. Divers.: Equine emergencies <p>Supplementary literature:</p> <ol style="list-style-type: none"> 1. Professional veterinary literature, foreign and domestic alike
Planned forms/activities/teaching methods	Clinical training carried out in the clinics of the Faculty of Veterinary Medicine, oral instruction, demonstration of diagnostic and therapeutic procedures, assisting in veterinary procedures, consultation with doctors on duty

<p>Verification methods and ways of documenting the achieved learning outcomes.</p>	<p>K.1, K2. Ongoing assessment of students during clinical training</p> <p>S.1, S.2, S.3 Supervision and assessment of practical skills of the student during clinical training based on the analysis of the management of specific cases</p> <p>C.1, C.2, C3. Supervision and assessment of the student's actions during clinical training</p> <p>During the clinical training in equine diseases, each student is required to prepare and collect a portfolio including, among others, descriptions of clinical cases including diagnosis and treatment, i.e. medical histories, selected scientific articles thematically related to cases encountered by the student during the training, photographs of clinical symptoms and anatomopathological changes found in animals being patients of veterinary clinics of the University of Life Sciences in Lublin or private veterinary clinics, results of laboratory and additional tests performed to establish the diagnosis of the disease, and possibly descriptions of scientific procedures, if a given patient, in addition to routine treatment, was used to conduct scientific research. Each student is required to collect at least 2 medical histories describing clinical cases found in horses regardless of which clinical discipline the cases concern.</p> <p>The final assessment of the clinical training takes the form of an oral examination conducted before an examination board, which takes place in the last semester of studies with the participation of the persons responsible for individual disciplinary blocks concerning subjects "Diseases of horses - Block I and II". During the examination, the board reviews the documentation gathered by the student in the form of a portfolio and asks questions, mainly thematically connected with the cases described as medical histories. Taking into account the fact that the passing of the internship in equine diseases is usually the last exam for the students of the veterinary faculty, the board members also ask about the preferences of the graduates regarding the choice of the type of work in the veterinary profession (companion animals, livestock, operation of poultry farms, treatment of horses, work in the Veterinary Inspection, work in the university, in the laboratory and others). The final mark for the training in equine diseases is the product of the partial marks awarded to the student by individual members of the examination board. The value of the marks is influenced by the quality of the documentation collected and the student's oral production. The grading scale includes the so-called "traditional school grades". 2.0, 3.0, 3.5, 4.0, 4.5, 5.0. Part of the training is completed during the 10th semester and is evaluated, by the relevant supervisors, separately from the final exam. The basis of the assessment is the student's involvement in activities related to the veterinary medicine interventions. The</p>
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	<p>grade from this part of the training, marked as mentioned above, is entered in the student's grade sheet and in the record, but it does not affect the final mark for the training examination. However, in order for the student to be admitted to the final examination, it is necessary to obtain a positive component grade from the training (10th semester) and to pass all component disciplines included in Block I and II of the subject.</p>
ECTS credits	<p>Contact</p> <ul style="list-style-type: none"> • Completion of clinical training - 50 hours • Participation in consultations related to establishing medical histories and to preparation for the training final exam – 15 hours • Credit for medical history - 6 hours (• Attendance on training exam – 6 hours • Study of the literature on selected clinical cases – 25 hours • Sampling and preparation of medical history – 18 hours • Preparation for training exam – 5 hours <p>Total – 5 ECTS</p>
The workload of activities that requires direct participation of an academic teacher	<ul style="list-style-type: none"> • Completion of clinical training - 60 hours • Participation in consultations related to establishing medical histories – 15 hours • Credit for medical history - 5 hours • Attendance on training exam – 5 hours
Relation of module learning outcomes to course learning outcomes.	<p>Module learning outcome code - course learning outcome code</p> <p>K1 – B.W3 +++ K1 – B.W5 +++ K1 – B.W6 +++ K2 – B.W8 +++ S1 – B.U2 +++ S1 – B.U3 +++ S1 – B.U6 +++ S1 – B.U13 +++ S1 – B.U16 +++ S1 – B.U19 +++ S2 – B.U4 +++ S3 – B.U8 +++ C1 – K2) +++ C2 – K7) +++ C2 – K8) +++ C3 – K10) +++</p>
Elements and values affecting the final grade	None