UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN

Faculty of Veterinary Medicine

Course title: INFECTIOUS DISEASES OF HORSES

ECTS credit allocation (and other scores): 2

Semester: spring

Level of study: ISCED-7- long-cycle programmes (EQF-7)

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: Lecture: 10, Exercises: 20

Course coordinator/ Department and e-mail: dr hab. Jan Siemionek prof. UWM; Department of Epizootiology; e-mail: jan.siemionek@uwm.edu.pl

Type of classes: classes and lectures

Substantive content

CLASSES: Diagnostics, prevention and therapy of infectious diseases of foals (enzootic bronchopneumonia, rhodococcosis, actinobacillosis, joint infections, salmonellosis, streptococcosis, colibacteriosis, pneumococosis, pyobacillosis, Tyzzer`s disease, *Cl. perfringens* A, B, C infections, rota-, corona-, adenoviral infections). Diseases cause reproductive disorders (equine rhinopnemonitis - EHV-1 and 4), EHV-3 infection, equine viral arteritis, contagious equine metritis, leptospirosis, salmonellosis, non-specific abortions caused by *Streptococcus, Actinobacillus, Pseudomonas aeruginosa, E. coli*). Differentiation of infectious diseases of respiratory tract (equine rhinopneumonitis – EHV-4, equine influenza, influenza-like infections - PI-3, rhino-, reo-, picorna-, adeno-, EHV-2, tuberculosis). Tetanus, strangles, equine sarcoids - diagnosis, treatment, prevention. Equine infectious anaemia - diagnosis and eradication. Specific immunoprophylaxis of infectious diseases of horses. Glanders and meloidosis – diagnosis, eradication.

LECTURES: Infectious diseases of skin and musculoskeletal system – etiopathogenesis, epidemiology and control (ulcerative lymphangitis, epizootic lymphangitis, dermatophylosis, horse pox, joint infections, abscesses, clostridial infections). Skin and systemic mycoses (trichophytosis, microsporosis, sporotrichosis, mycoma, fibromycosis, candidosis). Infectious diseases of nervous system – etiopathogenesis, epidemiology and control (Borna disease, viral encephalomyelitis – WEE, EEE, VEE, WNfF, JBE, SLE, MVE, FSME), rabies, Aujeszky`s disease, botulism, EHV-1 infection). Infectious diseases transmitted by arthropods – etiopathogenesis, epidemiology and control (African horse sickness, West Nile fever, borreliosis, ehrlichiosis, vesicular stomatitis, Q fever). Prophylaxis of infectious diseases of horses (non-specific prophylaxis in stud farms, immunomodulators, vaccine types, vaccination programs).

Learning purpose: The objective of education is an acquisition by the student theoretical knowledge in the area of causes and mechanisms of formation and transmission of the infectious diseases of horses, as well as practical skills regarding recognition, differentiation, treatment, prevention and control of infectious diseases of horses.

On completion of the study programme the graduate will gain:

Knowledge: Student describes and interprets the causes, clinical signs and pathological lesions, applies the rules of treatment and prevention of particular diseases; implements the rules of diagnostic (including differential diagnosis) and therapeutic procedures; carries out a clinical examination of the patient and monitors the state of animal health in industrial breeding; applies proper procedures in case of ascertainment of notifiable diseases under control or registration; collects, analyzes and correctly interprets the clinical data and the results of laboratory and additional examinations.

Skills: Student carries out a veterinary interview in order to obtain precise information about a single animal or group of animals; performs a full clinical examination of the animal; takes, protects and knows the rules for transport of samples and performance of standard laboratory tests; implements appropriate procedures in case of ascertainment of notifiable disease under control or registration; selects and applies an appropriate treatment; develops and implements prevention programs specific to horses.

Social Competencies: Student demonstrates responsibility for decisions taken towards humans and animals; is able to critically assess their own and other people's actions and improve the proposed solutions; puts the welfare of the patient in the first place.

Basic literature: 1) Sellon D. C ,. Long M. T: Equine infectious diseases , Saunders, 2000; 2) Mair T. (ed.): Infectious Diseases of the Horse. Publisher: EVJ Ltd, 2009; 3) Sameeh M.A., Sellon D.C., Long M.: Equine Infectious Diseases. Saunders Elsevier, St. Louis, Missouri, USA, 2007; 4) Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 8th Edition, 2018, Volumes 1, 2 and 3, ISBN 978-92-95108-18-9.

Supplementary literature: 1) Knottenbelt D.C., Pascoe R.R.W.: Color atlas of diseases and disorders of the horse. Wolfe Publ., 1994.

The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 30

Student's independent work: 30