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Course title: INFECTIOUS DISEASES OF DOGS AND CATS

ECTS credit allocation (and other scores): 3

Semester: autumn

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

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: Lecture: 15, Exercises: 30

Course coordinator/ Department and e-mail: dr hab. Aleksandra Platt-Samoraj, prof. UWM, Department of Epizootiology  
e-mail: [platt@uwm.edu.pl](mailto:platt@uwm.edu.pl)

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Type of classes: classes and lectures

#### Substantive content

**CLASSES:** Staphylococcal and streptococcal infections, actinomycosis, nocardiosis, cryptococcosis, fungal infections of the skin, anthrax. Distemper, aspergillosis, infectious tracheitis and bronchitis, tuberculosis, *Bordetella bronchiseptica* infections. Infections caused by coronavirus, rotavirus, parvovirus and herpesvirus, colibacteriosis, salmonellosis, campylobacteriosis, *Helicobacter spp* infections, infectious hepatitis. Botulism, Aujeszky's disease, rabies, tetanus. Lyme disease, rickettsial infections, Central European tick-borne encephalitis. Cats rhinotracheitis, tuberculosis, bartonellosis. Calicivirus infections (FCV), Feline Infectious Peritonitis (FIP), chlamydiosis, mycoplasmal conjunctivitis. Mortality syndrome of kittens, bacterial vaginitis, pyometra, bacterial inflammation of the urinary tract, leptospirosis. Feline leukemia, feline immunodeficiency syndrome (FAIDS), Lyme disease, ehrlichiosis.

**LECTURES:** Systemic bacterial diseases of dogs and cats - yersiniosis, leptospirosis mycoplasmal and ureaplasmal infections, rickettsial diseases - dog and cat ehrlichiosis, Rocky Mountain spotted fever, Q fever. Systemic fungal infections and zoonoses – campylobacteriosis, salmonellosis, yersiniosis, *Helicobacter pylori* infection, tularemia, *Bordetella bronchiseptica* infection. Laboratory diagnostics of infectious diseases of dogs and cats (bacteriological examinations of feces and tissues, histopathological examinations, immunological methods, biological tests, polymerase chain reaction, serological methods). Problems of chemotherapy used to treat bacterial infections of the skin and skeletal muscles, gastrointestinal tract, respiratory tract, urinary tract and infections with anaerobes. Prevention of infectious diseases of dogs and cats. The basic principles of biosecurity and disinfection used in veterinary clinic. Types of vaccines and their selection. Vaccination schedules of dogs and cats

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**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 dogs and cats, as well as practical skills regarding recognition, differentiation, treatment, prevention and control of infectious diseases of dogs and cats.

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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 health; 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 speaks English and Latin medical nomenclature; carries out a veterinary interview in order to obtain precise information about a single animal or group of animals and its or their life environment; 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 each animal species.

**Social Competencies:** Student demonstrates responsibility for decisions taken towards humans and animals; complies with the ethical principles. Is able to critically assess their own and other people's actions and improve the proposed solutions; possess a habit of lifelong learning to enhance knowledge and improve skills; puts the welfare of the patient in the first place.

Basic literature: 1) Sykes J., E., Greene C.E., 2012 r., "Infectious Diseases of Dog and Cat.", ELSEVIER 2) Sykes J.E., 2013, Canine and Feline Infectious Diseases. ELSEVIER, Weese J.S., Eason M., 2019, ., "Infectious Diseases of Dog and Cat.", CRC Press, London

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The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 45

Student's independent work: 30