

Module title:	ROTATION DOG AND CATS DISEASES	ECTS	6
Polish translation:	STAŻ CHOROBY PSÓW I KOTÓW		
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 type="checkbox"/> directional	<input 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-D20_20

Module coordinator:	PhD Magdalena Ostrzeszewicz
Teachers responsible for the module:	Academic teachers of the Institute ...; Department.../Laboratory of Veterinary Epidemiology and Economics; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study
Course Description:	<p>INTERNAL MEDICINE Practical workshops in the Small Animal Clinic SGGW and animal shelters Students are entitled to 1h of consultation weekly. 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.</p> <p>SURGERY The subject is conducted in the form of exercises carried out at the clinic's patients. During the classes, the students, in the presence of the lecturer, examine the patient, and then, on the basis of the provided data from the history and the results of the conducted examination and additional tests, the laboratory, radiological and ultrasound examinations make a diagnosis. After the diagnosis of the disease, the possibilities of surgical treatment of choosing one of them are discussed. In the further part of the classes, the students prepare the patient for surgery and participate in the procedure. During the procedure, the coordinator of the course comments stages of the operation. After the procedure is completed, the postoperative procedure, possible complications, methods of convalescence and the way of keeping records are discussed. Detailed schedule will be defined by the coordinator of the course at the beginning of semester. Students are also entitled to 1 hour of consultation per week. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester</p> <p>REPRODUCTION</p> <ul style="list-style-type: none"> • Methods aimed on teaching practical skills: <ul style="list-style-type: none"> • - review medical history, • - perform a thorough physical examination, • - select diagnostic and therapeutic procedure, • - collect and interpret laboratory data, • - perform basic surgery procedures and anaesthesia protocols • - choose the right treatment and follow-up protocol • Consultations (1h/week) <p>INFECTIOUS DISEASES Presentation of clinical cases, scans, ultrasound examinations. Student will independently perform ultrasound examination in AFAST, TFAST, VetBlue and FocusedEcho protocols. Detailed schedule of the classes and detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester</p>
Teaching forms, number of hours:	<p>a) Lectures; hours ...;</p> <p>b) Laboratory classes; hours 120</p> <p>c) Seminars; hours ...;</p> <p>d) Clinical laboratories; hours ...;</p> <p>e) Field exercises; hours ...;</p>
Teaching methods:	<p>...</p> <p>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.</p>
Formal prerequisites and initial requirements:	INTERNAL MEDICINE

		<p>Anatomy, topographic anatomy, physiology, pathophysiology, clinical and laboratory diagnostic, microbiology, pharmacology, medicine, general surgery, surgery and anaesthesiology of small animal, obstetrics of small animal, epidemiology of small animal</p> <p>SURGERY Acquisition by students of knowledge in general surgery, traumatology, including the principles of wound healing, basics postoperative management. The students have basic theoretical knowledge of anatomy and pathophysiology. Clinical and mastered during classes in previous subjects.</p> <p>REPRODUCTION Passing the courses: Animal anatomy, Animal physiology, Veterinary pharmacology, Pathomorphology, Diagnostic imaging, pathophysiology, Clinical and laboratory diagnostics, General surgery and anaesthesiology Knowledge of basics of handling of animals, safety rules, general examination of the animal</p> <p>INFECTIOUS DISEASES Veterinary epidemiology, Microbiology, Immunology, Virology</p>		
Learning effects		Course outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*
Knowledge:	1	Student knows mechanisms of normal organism's function, causes and mechanisms of disorders on the cellular, tissue, organ, system and organism levels occurring in the internal diseases; how to interpret clinical data, results of the laboratory tests and other diagnostics techniques; diagnostic (including differential diagnostics) and therapeutic procedures; rules of clinical evaluation and animal health monitoring;	B.W.1, B.W.2 B.W.3, B.W.4, B.W.5, B.W.6	2 3
	2	Student knows rules of clinical evaluation and animal health monitoring;	B.W.5	2
	3	Student knows causes and symptoms of pathomorphological changes, procedures for therapy and prevention in the particular diseases;	B.W.3	3
	4	Student knows diagnostic (including differential diagnostics) and therapeutic procedures;	B.W.4	3
	5	Student knows and differentiates the normal and abnormal reproductive mechanisms	B.W.1; B.W.2 B.W.3	3 2
	6	Student knows the clinical manifestations of reproductive and knows other diseases with similar clinical appearance	B.W.4; B.W.5 B.W.6; B.W.9	3 2
	7	Student knows the diagnostic schemes and protocols (including differential diagnosis) for reproductive diseases	B.W.4; B.W.5 B.W.6; B.W.9	3 2
	8	Student knows the therapeutic schemes and protocols recommended for reproductive diseases, pharmacodynamic properties of recommended products and the interactions among medicinal products	B.W.6	2
	9	Student knows the occurrence, significance, symptoms and control of rare infectious diseases of dogs and cats presented.	B.W.4 B.W.5	3 3
	10	Student knows infectious diseases in which the use of ultrasound techniques will speed up the diagnosis and introduction of treatment.	B.W.4	3
Skills:	1	Student is able to handle animals in safe and humane way, and instructs others to do alike;	B.U.1	2
	2	Student is able to conduct anamnesis in order to acquire precise information on animal or group of animals (heard), and their environment;	B.U.2	3
	3	Student is able to carry out full clinical evaluation;	B.U.3	3
	4	Student is able to perform first aid procedures for all animal species for haemorrhage, wounds, respiratory disorders, eye and ear injuries, loss of consciousness, anorexia, burns, tissue injuries, internal injuries and heart block;	B.U.4	3
	5	Student is able to monitor patient status during surgery and intensive care upon the basic life parameters;	B.U.12	2
	6	Student is able to implement rules of aseptic and antiseptic surgery procedures, and use proper methods of tools sterilisation;	B.U.14	3
	7	Student is able to use methods of safe sedation, general and local anaesthesia, and methods for pain evaluation and relief;	B.U.11	2
	8	Student is able to use the current nomenclature	B.U.2, B.U.9 B.U.5; B.U.7	3 2

	9	Student is able to plan the diagnostic procedures (including differential diagnosis) in the reproductive diseases	B.U.2 B.U.1; B.U.7	2 1
	10	Student is able to plan and monitor the treatment strategies	B.U.10; B.U.13 B.U.15; B.U.20	3 2
	11	Student is able to recognize rare infectious diseases, including using laboratory diagnostics	B.U.2 B.U.3	3 3
	12	Student is able to adjust the pharmacological treatment to individual infectious diseases	B.U.13	3
	13	Student is able to control rare infectious diseases	B.U.19	3
	14	Student is able to perform basic ultrasound examination using AFAST, TFAST, VetBlue and FocusedECHO protocols	B.U.7	3
Competences:	1	student is ready to take responsibility for his decisions concerning humans, animals and environment;	KS.1	2
	2	Student is ready to act within the current standards and ethical obligations, perform actions based on the code of professional ethics, show tolerance to beliefs and behaviour influenced by different sociological and cultural background;	KS.2	1
	3	Student is ready to use unbiased sources of information	KS.3	1
	4	student is ready to formulate conclusions from personal measurements or observations;	KS.4	1
	5	student is ready to formulate opinions regarding various aspects of professional conduct;	KS.5	2
	6	student is ready to formulate opinions regarding various aspects of professional conduct;	KS.6	2
	7	student is ready to perform critical self-evaluation, formulate constructive criticism regarding veterinary practice, accept criticism regarding postulated solutions, factual respond to that criticism based on the current scientific knowledge;	KS.7	1
	8	Student is ready to constantly update knowledge and skills for professional development;	KS.8	2
	9	Student is ready to communicate with co-workers and share the knowledge;	KS. 9	2
	10	student is ready to operate under stress and duress;	KS.10	2
	11	Student formulates responsible clinical decisions based primarily on the animal welfare	KS.1; KS.2; KS.3; KS.6; KS.7; KS.9	2
	12	Student formulates his opinion about understand the onset of the disease, clinical appearance and therapeutic process in the context of normal and abnormal immune functions	KS.4; KS.5; KS.6; KS.8	2
	13	Student formulates the necessity of constant education using scientific sources	KS.4; KS.5; KS.6;KS.7; KS.8	2
	14	Student is ready to recognize, plan and conduct treatment of infectious diseases	K.S.1 K.S.8	3 2
	15	Student is ready to use basic ultrasound examination techniques in everyday veterinary practice	K.S.1 K.S.8	2 2
Objectives of the module required to obtain learning effects:	<p>INTERNAL MEDICINE The aim of class is to give students opportunity to get contact with wide range of clinical cases, especially in aspect of diagnosis in Small Animal Clinic or shelter. Students assists clinicians during their work in Small Animal Clinic or shelter. They take part in additional diagnostic procedures are discussed by the teacher.</p> <p>SURGERY The aim of the teaching is to teach the students the skills of examining, diagnosing particular diseases which qualify the patient for surgery, account the method of surgery, choice of anaesthesia and postoperative procedures. During the classes, in particular, the students acquire practical skills such as: injections, intubation, preparation of a tool table for surgery, aseptic preparation of hands for surgery, aseptic technique in surgery with observing the principles of aseptics during the procedure, suturing of the skin, ligation of blood vessels, supervision of the above skills is enforced from each student's grade and recorded in a personal record of passing the surgical skills. Students have the opportunity to improve selected surgical skills (suture, knot tying, ligation of blood vessels, osteosynthesis) on isolated animals.</p> <p>REPRODUCTION The course will provide the knowledge of the specificity of dogs and cats reproduction in comparison to other animal species. The course is implemented in two groups of issues: 1) physiology of reproduction, 2) pathology of reproduction and obstetrics. The program includes practical training. Topics of practical training include diagnostics of estrous cycle phases, pregnancy detection, physical examination of the female, methods used in gynaecology and obstetrics, contraception (including gonadectomy), identification of the causes of infertility, identification of the causes of reproductive disorders, surgical treatment in gynaecology, obstetrics and diseases of mammary gland.</p>			

	<p>INFECTIOUS DISEASES</p> <p>1. The aim of the course is to familiarize students with clinical cases of rarely occurring infectious diseases of dogs and cats in the differential diagnosis and control.</p> <p>Subject:</p> <ol style="list-style-type: none"> 1. Aujeszky's disease - symptoms, course, diagnosis and control 2. Pox virus in cats - symptoms, course, diagnosis and control 3. Mumps - symptoms, course, diagnosis and control 4. Brucellosis - symptoms, course, diagnosis and control 5. Tuberculosis - symptoms, course, diagnosis and control 6. Papillomas in dogs - symptoms, course, diagnosis and control 7. Tetanus - symptoms, course, diagnosis and control <p>2. The use of ultrasound techniques in the diagnosis of infectious diseases of dogs and cats. The aim of the course is to familiarize students with ultrasound examination in everyday veterinary work. AFAST, TFAST, VetBLUE and Focused ECHO protocols.</p> <ol style="list-style-type: none"> 1. Recognizing the presence of fluid in the abdomen in the course of e.g. infectious peritonitis, Rubarth's disease 2. Diagnosis of pneumonia in the course of distemper and differentiation with the ultrasound image in the course of kennel cough and other infections in cats 3. Diagnosis of masses in the course of, among others, feline leukemia, tuberculosis (including changes in the heart) 4. Diagnosis of infective endocarditis and myocarditis 5. Recognizing the presence of fluid in the chest cavity in the course of e.g. infectious peritonitis, infectious myocarditis 6. Ultrasound changes in the course of diseases involving gastroenteritis including parvovirus, coronavirus, Rubarth's disease and feline coronavirus infection 												
<p>Assessment methods:</p>	<p>INTERNAL MEDICINE No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p> <p>SURGERY Confirmed attendance. Completed traineeship logbooks signed by the teacher leading the rotation group. Credit is given on the basis of confirmation of the acquisition of selected practical skills during the course of classes. The assessment of practical skills acquisition (preparation of the surgical field, preparation of the instrumental table, aseptic wearing of gloves, intubation, assistance for surgery, vessel ligation, tissue suturing, supervision of anaesthesia) is carried out successively during the clinical examination, surgical treatment or classes on isolated organs or phantoms. The student is obliged to record surgical cases in the traineeship diaries. In addition, a selected group of students (after the division into surgery, internal diseases, reproduction and infectious diseases according to the established key resulting from the division of the internship) performs and presents a detailed description of the selected case of surgical operations. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted. No extra assessment methods are anticipated</p> <p>REPRODUCTION The full assessment will be accomplished on the basis of combined presents and activity on elective No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p> <p>INFECTIOUS DISEASES No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p>												
<p>Detail description of assessment methods;</p> <p>Formal documentation of learning outcome:</p>	<p>... No extra assessment methods are anticipated.</p> <p>eHMS entry. 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.</p>												
<p>Elements impelling final grade:</p>	<p>Final grade under conditions:</p> <ol style="list-style-type: none"> 1. Positive grade from internal, surgery, obstetrics and infectious diseases accordingly to specific demands. 2. Positive grade from rotation paper work <ul style="list-style-type: none"> - 4 pages A4 computer printout - Self-contained work of student (not reprint) - One work could be prepared by 4 students maximum - Detailed informations students can get from responsible teachers from appropriate divisions. 3. Obligatory one night shift in Small Animal Clinic 4. Final grade in eHMS is medial from 4 subjects and paper work <table border="1" data-bbox="459 1912 1528 2018"> <tr> <td>grade</td> <td>3.0</td> <td>3.5</td> <td>4.0</td> <td>4.5</td> <td>5.0</td> </tr> <tr> <td>Points from medial value</td> <td>3.0-3.25</td> <td>3.26-3.75</td> <td>3.76-4.25</td> <td>4.26-4.75</td> <td>4.76-5.0</td> </tr> </table>	grade	3.0	3.5	4.0	4.5	5.0	Points from medial value	3.0-3.25	3.26-3.75	3.76-4.25	4.26-4.75	4.76-5.0
grade	3.0	3.5	4.0	4.5	5.0								
Points from medial value	3.0-3.25	3.26-3.75	3.76-4.25	4.26-4.75	4.76-5.0								
<p>Teaching base:</p>	<p>Clinic of Small Animals SGGW, cooperating outside units (eg. shelter)</p>												
<p>Mandatory and supportive materials : - S. Birchard, R. Sherding: "Saunders Manual of Small Animal Practice", 3rd edition</p>													

- J. Elliott, G. Grauer: "BSAVA Manual of Canine and Feline Nephrology and Urology", 2nd edition
- S. Ettinger, E. Feldman: „Textbook of Veterinary Internal Medicine“, 7th edition
- E. Hall, JW. Simpson, D. Williams: BSAVA Manual of Canine and Feline Gastroenterology“ 2nd edition
- R. Nelson, C. Couto: "Small Animal Internal Medicine", 4th edition
- Platt. S., Olby N. : "BSAVA Manual of Canine and Feline Neurology", 2nd edition
- J. Steiner: "Small Animal Gastroenterology", 2008
- Small Animal Surgery by Theresa Welch Fossum ELSEVIER 2018
- Johnston S and all. Canine and Feline Theriogenology, 2001
- Dreier, K.-H., 2009: Klinik der Reproduktionsmedizin des Hundes. Schlutersche Verlagsgesellschaft
- Noakes, D., 2009: Veterinary Reproduction and Obstetrics. W.B. Saunders Company
- Long, S., 2006: Veterinary Genetics and Reproductive Physiology, Butterworth Heinemann.
- C.E. Greene, Infectious Diseases of the Dog and cat. ed.: IV edition, 2012, Elsevier
- E. Thiry: Clinical Virology of the Dog and Cat, , 2006, Les Editions du Point Veterinaire
- Focused Ultrasound Techniques for the Small Animal Practitioner“ Gregory R. Lisciandro, 2013

Supportive

E. Thiry: Clinical Virology of the Dog and Cat, , 2006, Les Editions du Point Veterinaire

Relevant scientific publications including those of the module coordinator.

ANNOTATIONS

compliance with health and safety rules, protective apron

* 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:	...120..... h
Total ECTS points, accumulated by students during contact learning:6.... ECTS