Syllabus

Module title:	Endocrinology of companion animals	ECTS	2
Polish translation:	Endokrynologia zwierząt towarzyszących		
Course:	**Veterinary Medicine**		

Module language:	English			Stage:	JM-FVM	
Form of studies:	■ intramural ☐ extramural	Type of module:	☐ basic ☒ directional	☐ mandatory ☒ elective	Semester: 10	☐ winter semester ☒ summer semester
				Academic year:	**2023/2024**	Catalogue number: **FVM-V-JMSS-11W-ED21_22**

Module coordinator:	**dr Olga Witkowska - Piłaszewicz**
Teachers responsible for the module:	**Academic teachers of the Institute of Veterinary Medicine; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study**
Objectives of the module:	The elective will provide knowledge about endocrine disorders in companion animals as well as diagnostic methods and treatment based on clinical cases. The course involves lectures which are based on clinical case scenarios. It allows Students to go through history, investigations, diagnosis, and management of the patients. At the end of the course students are going to prepare and present their own cases to the rest of the group to confirm that they have gained the diagnostic and management skills. Topics of classes: 1. Introduction to endocrinology. 2. Hypothalamic-pituitary-hormone secretion disorders. 3. Thyroid gland. 4. Adrenal glands. 5. Pancreas. 6. Parathyroid gland. 7. Disorders of sex hormone secretion. 8. Equine endocrinology. 9. Ferrets, guineapigs, and reptiles. 10. Polyuria, polydipsia, and polyphagia and endocrine disorders. 11. Dermatoses resulting from endocrinological disorders. 12. Tumors and endocrinology. 13. Mixed clinical cases.
Teaching forms, number of hours:	a) Lectures; hours 30;
Teaching methods:	Original multimedia presentations prepared by academic teachers. 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.
Formal prerequisites and initial requirements:	Passing the courses: Veterinary pharmacology, Clinical and laboratory diagnostics, Pathophysiology, Patomorphology

Learning effects		Course outcomes:		Learning outcomes relative to the course outcomes	Impact on the course outcomes*
Knowledge:	1	Students knows the major pathologies associated with endocrinological disorders		B.W.2;B.W.3; A.W.10; .W.11	2
	2	Student knows the diagnostic algorithms used in clinical endocrinology.		B.W.4; B.W.5;	3
	3	Student knows basic treatment protocols in endocrinological diseases.		B.W.4.	3
Skills:	1	Student is able to use basic diagnostic algorithms.		B.U.3	2
	2	Student is able to conduct an interview and to make differential diagnostic of endocrine disease.		B.U.4	2
	3	Student is able to gather the patient's history		B.U.2	3
	4	Student is able to interpret the basic diagnostic tests, propose the differential diagnosis and treatment protocol.		A.U.11, A.U.19, B.U.13; B.U.15	3
Competences:	1	Student is prepared to propose to the owner an optimal treatment		KS.1; KS.2; KS.3; KS.4;	3
	2	Student formulates responsible decisions and give the diagnosis based on medical data		KS.1; KS.2; KS.3; KS.4;	2

	3	Student is aware of having knowledge, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner	KS.1; KS.2; KS.3; KS.4;	3
	4	Student is aware of the necessity of constant education using scientific sources	KS.1; KS.2; KS.4; KS.6;	2

Objectives of the module required to obtain learning effects:	The main goal of the course is to provide Students theoretical and practical skills based on clinical cases form endocrinology in companion animals.
Assessment methods:	Attendance to the classes is mandatory, student can be absent on 20% of labs or according to the current academic regulations. Evaluation of the clinical cases prepared by student and student's activity during the course. No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.
Detail description of assessment methods; Formal documentation of learning outcome:	Evaluation of the clinical cases (0-10 points). Additional points could be added to the final score (max. of 10 points) if student is active during the classes (correctly answer the questions and resolve the cases). No extra assessment methods are anticipated. eHMS entry. Records collected in the course portfolio i.e. individual records of student results, presence lists.
Elements impelling final grade:	The final grade is based on points from the clinical cases prepared by the student according to the scale: 0-4 points – failed, 5-6 points sufficient, 7 sufficient +, 8 good, 9 good +, 10 very good.
Teaching base:	MS Teams

Mandatory and supportive materials:
1. Clinical Endocrinology of Companion Animals. Jacquie Rand, Ellen Behrend, Danielle Gunn-Moore, Michelle Campbell-Ward. 2012.
2. BSAVA Manual of Canine and Feline Endocrinology. Carmel T Mooney. 2012.
3. Equine Endocrinology. Natalie S. Fraser. 2020.
4. BSAVA Manual of Exotic Pets: A Foundation Manual. Anna Meredith, Cathy Johnson Delaney. 2010.
5. Ferrets, Rabbits, Rodents – clinical medicine and surgery. Jeams Carpenter. 2010.
Relevant scientific publications including those of the module coordinator.

ANNOTATIONS

* 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:	**45 h**
Total ECTS points, accumulated by students during contact learning:	**2 ECTS**