Module title:	Clinical and laboratory diagnostics in animal emergency veterinary medicine		1
Polish translation:	Podstawy diagnostyki klinicznej i laboratoryjnej stanów nagłych		
Course:	Veterinary Medicine		

	Module language:	English				Stage:	JM-FVM
Form of studies:	■ intramural	Type of module:	basic	☐ mandatory	Semester: 10		winter semester
Studies.	☐ extramural	module.	directional	elective			■ summer semester
				Acadomic voar:	Intake	Catalogue number:	FVM-V-JMSS-10S-
		Academic year:		2020/2021	Catalogue number:	ED02_20	

Module coordinator:	Dr n. wet. Agnieszka Wrzesińska			
Teachers responsible for the module:	Dr n. wet. Agnieszka Wrzesińska Academic teachers of the Institute of Veterinary Medicine; Department of Small Animal Diseases and Clinic; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study			
Unit responsible for the module:	IMV			
Faculty in charge:	Faculty of Veterinary Medicine			
	The aim of the course is to teach basic diagnostic methods used in animal emergency medicine and to provide knowledge about life-threatening states in animals. The informations and skills previously acquired in the field of clinical and laboratory diagnostics, pathophysiology,			
	pharmacology and dog and cat diseases will be expanded and targeted for emergencies and life-threatening clinical states in companion animals.			
	The course will encompass the following top	oics:		
Objectives of the module:	- diagnostic evaluation of life-threatening symptoms and principles of cardiopulmonary resuscitation (CPR); (2h) - practical cardiopulmonary resuscitation (1h) - diagnostic evaluation of shock (cardiogenic, hypovolemic, metabolic and anaphylactic); (1h) - diagnostic evaluation of respiratory, cardio-vascular, gastrointestinal, urological, neurological, reproductive, endocrynology, toxicological, thermoregulation emergencies; (6h)			
	 critical care monitoring; (1h) practical assessment of parameters (ECG, EtCO2, SpO2, Temp, RR, HR) on real-time vital signs monitors for diagnosis of cause and therapy (2h) neonatal critical care; (1h) fluid therapy and diagnostic evaluation of dehydratation emergencies (1h) 			
Teaching forms, number of hours:	a) Lectures; hours - b) Laboratory classes; hours - c) Seminars; hours 15; d) Clinical laboratories; hours - e) Field exercises; hours -			
Teaching methods:	Seminars will provide basis for discussion and practical performing CPR, also multimedia lectures and multimedia presentations showing animal life-threatening clinical signs and data collected during interview, clinical examination and laboratory tests.			
	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:	Animal physiology modules 1-2, Animal path disease, Veterinary pharmacology modules 2	ophysiology, Clinical and laboratory diag		
Learning outcomes:	Knowledge: 1. Knows the basic emergency states that may threat to the animal's life 2. Knows diagnostic options and their application in individual life-threatening conditions 3. Knows symptoms characteristic of individual emergencies	Skills: 1. Able to provide appropriate diagnostic procedures depending on the state of emergency 2. Able to correctly interpret the results of laboratory tests and vital signs on ER monitors 3. Able to perform cardiopulmonary resuscitation	Competences: 1. Ability to taking action in a state of stress in which the student must make decisions quickly to save the animal's life 2. Skills in cooperation and communication in performing veterinary medicine procedures, e.g. during resuscitation	
Assessment methods:	Assessment of the assigned task (CPR) and written final test No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.			
Formal documentation of learning outcomes:	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.			

Elements impelling final grade:	1 Conditions for taking the exam a) Students must have at least 80% presence at seminars. b) During semester students are required to perform cardiopulmonary resuscitation on the canine CPR simulator 2 Final grade is obtained during exam a) Form of exam – single choice test b) Exam covers material presented during seminars 0%-50% max points – failed (2) 51%-60,0% max points – sufficient (3) 61%-70,0% max points – sufficient plus (3,5) 71%-80,0% max points – good (4) 81%-90,0% max points – very good (4,5) 91%-100% max points – excellent (5)
Teaching base:	Classrooms, Small Animal Clinic, build 22

Mandatory and supportive materials :

- 1. King L., Boag A. BSAVA Manual of Canine and Feline Emergency and Critical Care, BSAVA 2007,
- 2. Rozanski E.A., Rush J.E., A colour handbook of small animal emergency and critical care medicine. Manson Publishing 2007

Relevant scientific publications, including those of the module coordinator.

ANNOTATIONS Max. 8 students/group

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:	
Total ECTS points, accumulated by students during contact learning:	1 ECTS

Learning outcomes of the module relative to the learning outcomes of the subject:

Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*)
Knowledge -	Knows the basic emergency states that may threat to the animal's life	B.W.2	3
Knowledge -	Knows diagnostic options and their application in individual life- threatening conditions	B.W.6	2
Knowledge -	3. Knows symptoms characteristic of individual emergencies	B.W.4	1
Skills -	Able to provide appropriate diagnostic procedures depending on the state of emergency and provide adequate treatment	B.U.7;	3
Skills -	2. Able to correctly interpret the results of laboratory tests and vital signs on ER monitors	B.U.12	2
Skills -	3. Able to perform cardiopulmonary resuscitation	B.U.4	1
Competences -	Ability to taking action in a state of stress in which the student must make decisions quickly to save the animal's life	KS.10	1
Competences -	Skills in cooperation and communication in performing veterinary medicine procedures, e.g. during resuscitation	KS.3	1