Academic Year:	2023/2024	Group of subjects: ~~basic~~ / professional		Catalogue number:	E61

Module title[1]:	Management of life-threatening situations in small animal anaesthesia	ECTS [2]	1
Polish Translation[3]:	Postępowanie w sytuacjach zagrażających życiu w anestezjologii małych zwierząt		
Faculty[4]:	Faculty of Veterinary Medicine		
Person in charge of the module[5]:	dr Agnieszka Wrzesińska		
Teachers responsible for laboratory classes, workshops and seminars[6]:	dr Agnieszka Wrzesińska		
Unit responsible for the module[7]:	Department of Pathology and Veterinary Diagnostics		
Faculty in charge[8]:	Faculty of Veterinary Medicine		
Module status[9]:	a) ~~mandatory~~ / elective	b) stage JM year 6	c) intramural
Teaching cycle[10]:	Semester: winter / ~~summer~~	Module language[11]: English	
Objectives of the module[12]:	The aim of the course is to teach the diagnostic methods and treatment used in anaesthesiological emergency situations		
Teaching forms and number of hours[13]:	a) Seminars: 15 h b) … c) …		
Teaching methods[14]:	Multimedia presentations, student seminars, discussion		
Detailed module description[15]:	Students attending the course will participate the discussion of correct proceedings in emergency states during anaesthesia, based on multimedia presentations and their own cases. The course will encompass the following topics: - diagnostic evaluation and treatment of life-threatening states during anaesthesia (hypovolemia, hypotension, hypertension, hypoventilation, apnea, hypothermia, arrhythmias, prolonged recovery) - creating the anaesthetic and analgesic plan for animals with concurrent diseases that might be life-threatening during anaesthesia (respiratory distress, cardiovascular insufficiency, endocrinology, urological and neurological disorders) - diagnostic of the life-threatening states based on the parameters during anaesthesia monitoring (ETCO2, SPO2, ECG, RR, HR, SAP, MAP, DAP, TEMP) - diagnostic evaluation of pain and providing adequate analgesic plans according to the animal's clinical state		
Formal prerequisites[16]:	Animal physiology modules 1-2, Animal pathophysiology, Clinical and laboratory diagnostics modules 1-2, Dog and cat diseases		
Initial requirements[17]:	Students should have theoretical and practical knowledge acquired in the above courses		
Learning outcomes[18]:	01 – able to diagnose life-threatening state during anaesthesia 02 – knows which drugs to choose depending on the emergency state during anaesthesia 03 – able to decide on the proper anaesthetic plan (drug indication) according to the animal's concurrent diseases prior to anaesthesia	04 – knows a basic interpretation of monitoring parameters during anaesthesia 05 – able to create analgesia plan based on the clinical state of the animal	
Assessment methods[19]:	Final written test (multiple choice)		
Formal documentation of the learning outcome[20]:	Signed test papers, grade in the eHMS		
Elements impelling final grade[21]:	1 Conditions for taking the exam a) Students must have at least 80% presence at seminars. b) During elective each student will be required to present anaesthesia and analgesia plan for 1 selected case. 2 Final grade is obtained during exam		

	a) Form of exam – test b) Exam covers material presented during seminars 0%-69.5% max points – failed (2) 70%-75.5% max points – sufficient (3) 76%-81.5% max points – sufficient plus (3.5) 82%-87.5% max points – good (4) 88%-93.5% max points – very good (4.5) 94%-100% max points – excellent (5)
Teaching base[22]:	Classrooms of the Division of Laboratory and Clinical Diagnostics
Obligatory and supportive materials[23]: Obligatory 1. Johnson R. A.: Canine and Feline Anesthesia and Co-Existing Disease, Blackwell Publishing, 2021. 2. Dugdale H. A., Beaumont, G., Bradbrook, C., Gurney M.: Veterinary Anaesthesia Principles to Practice, Wiley and Sons, 2020. 3. Duke-Novakovski T., de Vries M, Ch. Seymour.: BSAVA Manual of Canine and Feline Anaesthesia and Analgesia, Wiley and Sons, 2016. Supportive materialsl 1. Lerche P.: Handbook of Small Animal Regional Anesthesia and Analgesia Techniques, Wiley and Sons, 2016. 2. Lin T., Smith T., Pinnock C., Mowatt Ch.: Fundamentals of Anaesthesia. Cambridge Uniwersity Press, 2016. 3. Grimm K. A., Lamont L. A., Tranquilli W. J., Greene S. A., Robertson S. A.: Veterinary Anesthesia and Analgesia, Wiley and Sons, 2015. 4. Clarke K. W., Trim C. M., Hall L. W.: Veterinary Anaesthesia, Elsevier Health Sciences, 2013. 5. Grimm K. A.: Essentials of Small Animal Anesthesia and Analgesia, Iowa State University Press, 2011.	
Annotations[24]: max. 16 students/group	

Quantitative summary of the module[25]:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module[18] - base for quantifying ECTS[2]:	30 h
Total ECTS points, accumulated by students during contact learning:	1 ECTS
Total ECTS points, accumulated by student during practical classes (laboratories, projects, seminars, etc.):	1 ECTS

Learning outcomes of the module relative to the learning outcomes of the subject[26]:

Outcome No / symbol	Learning outcomes:	Relative to the learning outcomes of the subject:
01	Able to diagnose life-threatening state during anaesthesia	K_W01
02	Knows which drugs to choose depending on the emergency state during anaesthesia	K_W02, K_U02
03	Able to decide on the proper anaesthetic plan (drug indication) according to the animal's concurrent diseases prior to anaesthesia	KW_02, KW_03
04	Knows a basic interpretation of monitoring parameters during anaesthesia	KW_04, K_U02, K_U03
05	Able to create analgesia plan based on the clinical state of the animal	KW_02, KU_02, KU_03