

Module title:	General surgery and anaesthesiology	ECTS	3
Polish translation:	Chirurgia ogólna i anestezjologia		
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: ...6..... <input type="checkbox"/> winter semester <input type="checkbox"/> summer semester
Academic year:		Intake 2022/2023	Catalogue number: FVM-V-JMSS-065- D15_22

Module coordinator:	dr hab. Jacek Sterna prof. SGGW			
Teachers responsible for the module:	Academic teachers of the Institute Veterinary Medicine; Department of Small Animal Diseases and Clinic. Department of Large Animal Diseases and Clinic, PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study			
Objectives of the module:	<p>The objective is for the student to learn basic surgery skills, learn basics of traumatology, wound healing aspects related to veterinary medicine, basic of anaesthesiology with general pre- and post- surgery care.</p> <p>LECTURES (15 lectures): Asepsis, disinfection, sterilization; basic instrumentation – surgical principles; wounds – types, wound healing, wound dressings; disorders in wound healing; basics of animal anaesthesiology; pre- and post- surgery assessment of the surgical patient, pain management.</p> <p>Practicals Principles of surgical asepsis, sterilization, preparation of the surgical table and site, preparation of the surgical team, surgical assistance; surgical instrumentation, suture materials, biomaterials; suturing: making knots by hands and instruments, training in different sutures on phantoms; dressing on animals / phantoms; basic surgical examination techniques: head, limbs, abdominal and thoracic cavity; animal restraint; pre- and post- surgery assessment of the animal patient, post-surgery care; anaesthesiology, sedation, treatment of pain, peri-operative analgesia.</p>			
Teaching forms, number of hours:	<p>a) Lectures; hours 15 b) Clinical laboratories; hours 30</p>			
Teaching methods:	<p>Subject is conducted in form of lectures and practical classes. practicals are predominantly based on phantoms and dead material with animal contact in selected cases. Presentations of basic aseptic, surgical and anaesthesiology systems available in the clinic. Detailed schedule of consultations will be defined by the coordinator of the course at the beginning of semester. Consultations for students 1h / week. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.</p>			
Formal prerequisites and initial requirements:	Animal anatomy, Animal physiology, Histology and embryology, Topographic anatomy, Pathophysiology, Veterinary pharmacology 1, Pathomorphology 1			
Learning effects	Course outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*	
Knowledge:	1	Student knows and understands: rules of surgical aseptic procedures, surgical instruments, suturing materials, rules of animal care, restraint and surgical evaluation, basics of general and local anaesthesiology, basics of pre- and post- surgical care	B.W.2 B.W.3 B.W.4 B.W.5 B.W.6 B.W.9	2, 2, 3, 3, 2, 2
Skills:	1	Student can: prepare patient, team and surgical theatre according to aseptic rules; dress wounds in small and large animals; can prepare materials for and perform basic sutures; plan anaesthesiologic procedure (local and general) and prepare analgetic plan; restrain animals according to ethical guidelines	B.U.1 B.U.2 B.U.3 B.U.4 B.U.11 B.U.13 B.U.14	3, 3, 3, 3, 2, 2, 3,
	2			
Competences:	1	Student is ready to:	KS.1 KS.2 KS.3 KS.4	2, 2, 1, 2, 2, 2, 2, 2

		plan complex surgical procedures including pre- and post- surgery assessment, anaesthesia and analgesia, aseptic preparation; collaborate within general surgery team; update knowledge and follow the principles of professional ethics; critically assess knowledge and use scientific sources to supplement it	KS.5 KS.7 KS.8 KS.9	
	2			
Objectives of the module required to obtain learning effects:	The objective is for the student to learn basic surgery skills, learn basics of traumatology, wound healing aspects related to veterinary medicine, basic of anaesthesiology with general pre- and post- surgery care.			
Assessment methods:	<p>Assessment of practical skills demonstrated during practical classes and/or practical challenges: 1. correct recognition (naming) of the indicated 4 surgical instruments with the purpose of their use, 2. application of a dressing on a model of a dog limb, 3. correct tying of a knot and application of a suture, 4. recognition of parts of the anesthetic apparatus and description of the use of the indicated anesthetic drug, 5. application of a dressing on a horse or horse limb specimen, 6. partial examination of the musculoskeletal organ.</p> <p>Student must pass 5 from 6 challenges to progress. Failing 2 challenges requires retake of the practical assessment. Each challenge is graded in 2-5 scale with 2 being a failing grade.</p> <p>Theoretical knowledge is assessed during single-choice test of 25 questions, 1 point per question. To pass student must accumulate at least 18 points with subsequent grades allocated progressively for each point over the passing line (Point scale for test scores: 18points=3.0; 19-20 points=3.5; 21-22points=4.0; 23-24points=4.5; 25points=5.0..</p> <p>No extra assessment methods are anticipated.</p> <p>In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p>			
Detail description of assessment methods; Formal documentation of learning outcome:	<p>EHMS entry.</p> <p>Records collected in the course portfolio i.e. individual records of student progress, presence lists, written tests signed by students.</p>			
Elements impelling final grade:	<p>Student is entitled to 20% absences.</p> <p>The final grade in the course is the average of the theoretical and practical parts, with the student having to get a minimum grade of satisfactory in each part. The value in the interval (3.3; 3.7) is rounded to 3.5, a value in the interval (4.3; 4.7) is rounded up to 4.5, values of 3.8 and 4.8 are rounded up to the full grade, values of 3.2 and 4.2 are rounded down to the full grade.</p>			
Teaching base:	Lecture rooms, operating theatres, consultation rooms of the Faculty			
Mandatory and supportive materials:	<p>1. Small Animal Surgery, Third Edition (or subsequent edition) , Theresa Welch Fossum, Mosby Elsevier 2007</p> <p>2. M.Karen, S, Tobias, Johston A: Veterinary Surgery Small Animal. Saunders, 2012</p> <p>Relevant scientific publications, including those of the module coordinator.</p>			
ANNOTATIONS	<p>A set of instruments (surgical thumb forceps, scissors and needle holder) are required for each student during all the practicals as well as appropriate surgical clothes (scrub: long leg pants and short sleeves blouse). All jewellery must be removed from hands prior to practical classes.</p>			

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