

General information	
Academic subject	PRACTICAL SURGICAL ACTIVITY discipline of the integrated exam of VETERINARY SURGERY 2
Degree course	VETERINARY MEDICINE
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	3
Language	italian
Academic calendar (starting and ending date)	II - III two months
Attendance	Mandatory attendance

Professor/ Lecturer	
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Syllabus	
Learning Objectives	The aim of the course is to provide students with adequate clinical knowledge and skills in the field of surgical pathologies of Companion Animals. Furthermore, the purpose of the course is to direct the student to learn how to integrate the knowledge previously acquired in other clinical subjects of the degree course to arrive at a correct management and treatment of surgical pathologies. The student at the end of the course must therefore know the main surgical techniques used for the treatment of the most frequent pathological conditions of surgical interest and be able to perform basic surgical techniques.
Course prerequisites	Preliminary examinations of Veterinary Surgery 1 and Veterinary Pharmacology and Toxicology are foreseen. It is also necessary to have adequate preparatory preparation in anatomy, topographical anatomy, pathological anatomy, medical semeiotics and medical pathology.
Contents	Clinical Sciences of Companion Animals (including Horses and Exotics) A) MONOTEMATIC SEMINARS: Introduction to the course, Preoperative evaluation of the surgical patient; Clinical management of skin wounds and complications of skin wound healing; SMALL ANIMALS - Soft tissue surgery: Basics of oncological surgery: Definition of local oncological disease, loco-regional and distant disease, Examples of oncological staging in clinical practice, Classification of oncological surgery techniques, Surgical biopsy techniques by site and apparatus Surgery of the integumentary system: Exeresis of skin neoformations Reconstruction of skin defects: techniques for releasing tension; local flaps, myocutaneous axial flaps, free flaps; Ear surgery: Surgical therapy of the auricle Surgical therapy of external-middle and internal otitis; Surgical therapy of ear neoplasms; Upper respiratory tract surgery: Brachycephalic dog syndrome Laryngeal collapse, Laryngeal paralysis, Tracheal collapse, Nasopharyngeal polyps,



Nasal tumors, Odontopathic and foreign body rhinitis; Lower respiratory tract surgery thoracotomy, chest wall surgery, pectus excavatum, diaphragmatic hernia; Surgery of the oral cavity and oropharynx: congenital and acquired fistulas, salivary sialocelis, tumors of the oral cavity: maxillectomy and mandibulectomy; Digestive system surgery, Gastric foreign bodies, gastric neoplasms, Gastric ulceration and perforation, gastric dilatation and torsion, Intestinal foreign bodies: linear and non-linear, Megacolon, Atresia ani, Rectal prolapse Surgery of the perineum: Perineal hernia, Perianal and perineal neoplasias, Circumanal fistulas, Surgical diseases of the anal sacs;

Surgery of the urinary system: Nephrectomy, Ectopy of the ureters, Surgical management of bladder and urethral lithiasis, Urethral prolapse, Bladder rupture, Bladder and urethral neoplasms; Abdominal surgery: Umbilical and abdominal hernias

Inguinal, scrotal and femoral hernias

Orthopedic surgery:

Surgery and oncological treatment of bone neoplasms of the axial and appendicular skeleton; Surgery and oncological treatment of joint and muscle neoplasms. Digital amputation, amputation of the forelimb and pelvic. Surgical management of osteomyelitis, septic arthritis, delayed bone repair and pseudarthrosis. Diagnostic evaluation and treatment of discospondylitis.

EQUINES Surgery of the pathologies of the upper respiratory tract of the horse Examination of the respiratory tract of the horse and diagnostic imaging (endoscopy, radiology and ultrasonography of the upper respiratory tract)

Dental disease surgery in the equine species.

Diagnosis and treatment of neoplasms in large animals.

B) ACTIVITIES DURING THE CLINICAL VISIT (under the supervision of the professor)

Clinical cases with discussion with the professor of the following phases:

- Registration of the patient and collection of anamnesis
- Basic clinical examination and specialist visit and compilation of medical records
- Discussion on the decisional algorithm for the most suitable diagnostic procedures for the clinical case
- Formulation of differential diagnoses
- Accompaniment of the patient for diagnostic procedures and collective evaluation of the results of the investigations
- Issue of a diagnosis, adequate treatment and prognosis
- Preparation of the clinical report and prescription of drug therapies (if necessary)
- Participation in the illustration of the informed consent to the surgical and anesthetic procedures to the owner

C) ACTIVITIES IN THE SURGICAL ROOM (under the supervision of the professor and clinical / academic staff)

- Clinical examination of the patient for the most appropriate surgical and anesthetic protocol
- Explanation of the anesthetic and analgesic protocol (pre and postoperative) and of the possible complications
- Discussion on surgical treatment, postoperative care and potential short, medium and long term complications
- Preoperative procedures of the surgical staff and of the patient
- Preparation of the operating field
- Compilation of anesthetic records / execution of some procedures such as venous access and patient intubation
- Assistance to surgical procedures / execution of some surgical procedures

	<ul style="list-style-type: none"> - Follow / double check the patient in the small animals ward - Drafting of the operative protocol - Compilation of the form for the histopathological examination (surgical biopsy), for post-surgical microbiological examination - Filling out discharge letter and preparing a prescription for drug therapies (if necessary) - Discussion of the clinical case and assistance during endoscopic examinations
Books and bibliography	<ol style="list-style-type: none"> 1. Small animal veterinary surgery; JOHNSTON-TOBIAS; 2nd ed., 2480 pages, 1500 ill., Antonio Delfino Editore, November 2020 2. Small animal surgery; Theresa Fossum 5th ed., 1584 pages, 950 ill., Edra-EV Editore, January 2021 3. Atlas of small animal wound management and reconstructive surgery; PAVLETIC 4th ed, 866 pp., 1000 ill., John Wiley & Sons, May 2018 4. Equine Surgery 5th Ed Jorg A. Auer & John A. Stick; 5th Ed Saunders Publisher 2018
Additional materials	The texts are recommended for the purpose of deepening and integration; since attendance is mandatory and since it is a mainly practical course, the lesson notes, teaching material and articles provided by the professor during the course will be of fundamental importance. Students will also be invited to carry out research on the main scientific search engines concerning specific topics.

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
90		75 clinical activity at the University Veterinary Teaching Hospital	15
ECTS			
3		3	
Teaching strategy			
<p>The monothematic seminars are held in a classroom equipped with multimedia tools such as a PC, projector, internet connection, in order to show, at the same time as the explanation, power point slides and explanatory videos.</p> <p>The practical didactic process will include the classification of the pathology of surgical interest through a standardized diagnostic process: of each clinical case observed, the salient epidemiological data, the etiopathogenesis, the most frequent clinical presentation, the possible differential diagnoses, the diagnostic tests and laboratory necessary for the diagnosis, the possible therapeutic options, therefore the most appropriate treatment for the resolution of the specific pathology and any expected and unexpected complications and finally the prognosis. The clinical cases (Small animals, equine, exotic animals) observed by students will be those reported at the University Veterinary Teaching Hospital or observed during field visits. The part of the practical activity relating to basic surgery methods and some specialist surgery techniques is carried out in the sector room on cadaveric material.</p>			
Expected learning outcomes			
Knowledge and understanding on:	<ul style="list-style-type: none"> • The student must be able to draft the medical and anesthetic records, forms for collateral examinations, patient discharge letters and be able to prepare a therapeutic prescription • Must have basic clinical practice skills based on scientific evidence • Demonstrate knowledge of the instrumentation to be used according to the 		

	<p>different surgical interventions</p> <ul style="list-style-type: none"> • Recognize the most common postoperative complications • Knowing the procedural process for a correct assessment of clinical signs and their etiological and pathophysiological characteristics, to arrive at the correct diagnosis and the choice of the most appropriate therapeutic protocol
<p>Applying knowledge and understanding on:</p>	<ul style="list-style-type: none"> ○ The student will have to critically judge and skim the anamnestic information and the most useful clinical signs to arrive at the diagnosis, identify the diagnostic path and possible differential diagnoses ○ The student must demonstrate that he is able to choose the most suitable diagnostic and surgical therapeutic solutions in the treatment of pathologies with surgical indication ○ ○ In line with the Day One Competences adopted by the ECCVT, at the end of the course the student must be able to: ○ 1.4 Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the relevant public ○ 1.5 Prepare accurate medical and client records and case reports when necessary, in a form satisfactory to colleagues and understandable by the public. ○ 1.6 Work effectively as a member of a multidisciplinary team in the delivery of services. ○ 1.9 Understand and apply the principles of clinical governance and practice evidence-based veterinary medicine. ○ 1.11 Demonstrate the ability to cope with incomplete information, face unexpected events and adapt to change. ○ 1.12 Demonstrate recognizing personal and professional limitations and knowing how to seek professional advice, assistance and support when needed ○ 1.13 Demonstrate lifelong learning ability and a commitment to learning and professional development. This includes recording and reflecting on professional experience and taking steps to improve performance and competence. ○ 1.14 Participate in self-assessment and peer review processes to improve performance. ○ 1.17 Perform a comprehensive clinical examination and demonstrate clinical decision making skills. ○ 1.18 Develop appropriate treatment plans and administer treatment in the interest of patients and with respect to available resources. ○ 1.19 Assist all species in emergencies and perform first aid. ○ 1.22 Clearly communicate and collaborate with referral and diagnostic services, including providing appropriate history ○ 1.23 Understand the contribution that imaging and other diagnostic techniques can make in achieving a diagnosis. Use basic imaging equipment and perform an exam effectively, as appropriate, in accordance with good health and safety practices and applicable regulations. ○ 1.26 Prescribe and dispense medicines in a correct and responsible way in accordance with the legislation and the latest indications. ○ 1.29 Perform aseptic surgery correctly. ○ 1.30 Safely perform general and regional sedation and anesthesia;

	<p>implement chemical methods of moderation.</p> <ul style="list-style-type: none"> ○ 1.31 Assess and manage pain. ○ 1.32 Recognize when euthanasia is appropriate and carry it out with respect for the animal, using an appropriate method, while showing sensitivity to the feelings of owners and others, with due respect for the safety of those present; advice on carcass disposal.
<p>Soft skills</p>	<p>Making informed judgments and choices</p> <ul style="list-style-type: none"> ○ Ability to collect information on the clinical case and symptoms, useful for formulating a diagnosis and prognosis of a surgical disease; ○ Ability to critically analyze the most appropriate procedures during a diagnostic procedure; ○ Ability to discern misleading and ancillary information with respect to data useful for framing the clinical problem. ○ <p>Communicating knowledge and understanding</p> <ul style="list-style-type: none"> ○ Acquisition of the skills and the correct scientific terminology to be able to correctly present one's conclusions to fellow students and the teacher, to be able to relate later on with professional colleagues and customers; ○ Acquisition of the ability to work in a team, adopting adequate communication and interaction strategies. <p>Capacities to continue learning</p> <ul style="list-style-type: none"> ○ Ability to learn independently ○ Acquisition of the ability to autonomously improve one's knowledge through further studies and in-depth studies on databases or specialized magazines and books. <p>The skills achieved fall within the framework of the following Day One Competences adopted by the ECCVT:</p> <ul style="list-style-type: none"> ○ 2.1 Understanding and competence in logical approaches to both scientific and clinical reasoning, the distinction between the two and the strengths and limitations of each. ○ 2.5 Etiology, pathogenesis, clinical signs, diagnosis and treatment of common diseases and disorders occurring in common domestic species. ○ 2.11 Principles of effective interpersonal interaction, including communication, leadership, management and teamwork. ○ 2.12 The ethical framework within which veterinary surgeons should work, including important ethical theories that inform decision-making in professional and animal welfare ethics.xx.
<p>Assessment and feedback</p>	
<p>Methods of assessment</p>	<p>The knowledge and skills acquired will be assessed through the discussion of clinical cases and surgical techniques treated and through multiple choice tests relating to the topics of the seminars at the middle and at the end of the course to ascertain the acquisition of the expected knowledge as detailed in the objectives of the course.</p> <p>The evaluation acquired in the "Practical surgical activity" module will contribute to the determination of the final evaluation of the integrated examination of</p>

	Veterinary Surgery 2.
Evaluation criteria	<p>Knowledge and understanding</p> <ul style="list-style-type: none"> ○ The student must demonstrate knowledge of the topics covered in the seminars and operational knowledge of basic surgical techniques relating to the different systems <p>Applying knowledge and understanding</p> <ul style="list-style-type: none"> ○ The student must demonstrate that he is able to choose the most suitable diagnostic and surgical therapeutic solutions in the treatment of pathologies with surgical indication <p>Autonomy of judgment</p> <ul style="list-style-type: none"> ○ The student must demonstrate analytical skills and a critical sense with respect to the topics studied; <p>Communicating knowledge and understanding</p> <ul style="list-style-type: none"> ○ The student must demonstrate good skills in exposing the topics studied and be able to use the specialized scientific terminology appropriately <p>Communication skills</p> <ul style="list-style-type: none"> ○ The student must demonstrate good skills in exposing the topics studied and be able to use the specialized scientific terminology appropriately <p>Capacities to continue learning</p> <ul style="list-style-type: none"> ○ -The student must demonstrate that he can rework the concepts learned to adapt them to new situations and be able to draw on the sources available for their management.
Criteria for assessment and attribution of the final mark	<p>The assessment of the level of learning achieved takes place through the discussion of clinical cases and surgical techniques treated and through multiple choice tests concerning the topics of the seminars. The final grade is awarded 30/30. The exam is passed when the grade is greater than or equal to 18. The final grade of the integrated exam is the result of the weighted average of the grades obtained for each of the SURGERY 2 courses. The student must in any case acquire a grade greater than or equal to at 18/30 for each module.</p>
Additional information	<p>To obtain the attendance signature and to be able to access the exam, the student is required to attend 75% of the lessons.</p>