

General Surgery (G000729)

Course size (nominal values; actual values may depend on programme)

Credits	3.0	Study time	90 h	Contact hrs	25.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 1)	Dutch	lecture	25.0 h
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Lecturers in academic year 2018-2019

Martens, Ann	D110	lecturer-in-charge
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Offered in the following programmes in 2018-2019

Bachelor of Science in Veterinary Medicine	crdts	offering
	3	A

Teaching languages

Dutch

Keywords

Surgery, asepsis, wound healing, domestic animals

Position of the course

The goal of this course is to provide insight into (1) the basic principles of surgery in domestic animals and (2) the principles of wound healing, wound treatment and wound care in domestic animals. The theoretical knowledge acquired in this course is essential to learn the practical skills in asepsis, instrument handling, suturing and bandaging in the veterinary skillslab (course 'clinical and communicative skills II').

Contents

In the first part of this course focusses on all aspects of surgical asepsis and the sterilisation of surgical material. Students learn the correct behaviour and handling of a surgeon and its helpers during a surgical procedure. The terminology and handling of basic and more advanced surgical instruments is discussed. The properties of the different suture materials are taught as well as the correct choice of suture material for the different types of tissues. Students also learn the different suture patterns and which factors determine the choice of suture pattern.

The second part of this course starts with the discussion of the principles of inflammation, wound healing and wound infection. The general principles of wound treatment are discussed as well as the bandaging and immobilisation techniques in the different domestic animal species, the basis of reconstructive and plastic surgery, the abnormal forms of wound healing (chronic wound, ulcer, fistula,...). Finally, the specific management of different types of wounds is explained (abrasion, puncture wound, biting injuries,...).

Initial competences

This course is in line with the competences acquired after the second year of bachelor in veterinary science. More specifically, a profound knowledge in veterinary histology and general anatomy are required to start the present course.

Final competences

- 1 To have knowledge and insight in the principles of surgical asepse, the methods of sterilisation and the correct behaviour during surgical procedures.
- 2 Starting from a wlinical situation the student should be be able to make the correct choice of instruments, suture materials and suturing techniques for a surgical procedure
- 3 To make a correct evaluation of a wound and the healing of that wound and to determine a correct treatment plan.
- 4 To have knowledge and insight in the different techniques of reconstrutive surgery and to know when and how to apply them in different clinical situations

- 5 To be able to evaluate a clinical situation or clinical problem from different perspectives, and from there on to propose a management or treatment plan (multiperspectivism)
- 6 To search, read and critically evaluate the different literature sources and distillate from them the scientifically correct and relevant information
- 7 To be convinced of the importance of life long learning

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

Access to this course unit via an exam contract is unrestricted

Teaching methods

Lecture

Extra information on the teaching methods

The theoretical education is assured using lectures with appropriate didactical material. Practical examples for the different animal species are provided at a regular base. In the Veterinary Skills lab, the practical skills directly related to the theoretical information of this course will be taught and exercised.

Learning materials and price

The course material consists of a syllabus (price range 15 euro) and handouts of the powerpoint presentations which are used during the lectures. The latter ones are free available on Minerva in pdf format. A referral towards handbooks and electronic information is made during the lectures.

References

Equine surgery, Ed.: J. Auer, J. Stick, 2011
Veterinary Surgery Small Animal Volumes I & II, Ed: Tobias & Johnston, 2012

Course content-related study coaching

No specific tutoring is provided for the theoretical part of the course. Eventual problems can be discussed with the tutor by personal contacts or email.

Evaluation methods

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Written examination with open questions, written examination with multiple choice questions, written examination

Examination methods in case of periodic evaluation during the second examination period

Written examination with open questions, written examination with multiple choice questions, written examination

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

not applicable

Extra information on the examination methods

The written examination consists of several short open questions and the discussion of one or more clinical cases (possibly with picture)

Calculation of the examination mark

The number of points per questions depends on the extent of the question and on whether it evaluates basic rather than more specialised knowledge. The student succeeds for the course as soon as a score of 10/20 is obtained.

Facilities for Working Students

No particular facilities provided