

Teaching: Veterinary Anesthesiology

(3 credits, 36 hours: 24 lectures and 12 [x4] exercise)

Educational objectives of the Cours: Upon completion of the course students learn the basics of veterinary anesthesiology necessary for the conductn of general and loco/regional anesthetic procedures in large, small and non-conventional animals.

LECTURES

Topics and skills acquired	Topics	Specific contents	Hours
	Opening lecture of the course	description of the course, its aims , guidance on the conduct of the theory and practice of presentation teaching materials , purpose of anesthesia, history of veterinary anesthesiology ;	1
1 . ANESTHESIA TO LEAD : A) GENERAL ANESTHESIA (TOT. 6 HOURS) acquisition of : a) the correct clinical approach in relation to the changes induced by the anesthetic procedure b) knowledge of how the different anesthetic effects: injectable and inhalation anesthetics	Introduction to anesthesiology	definition, terminology , the effects of anesthetic drugs , type of anesthesia , the patient's anesthetic classification	1
	general anesthesia:	general considerations , biological variations related to age , sex, race , concomitant diseases , etc. ; genetic variations	1
	general anesthesia:	dose-effect relationship , factors that influence the response to the administration of an anesthetic drug ; metabolism : special conditions ;	1

		recruitment, absorption and distribution of the anesthetic ;	1
	anesthetic agent :	alveolar tension curve , partition coefficient , minimum alveolar anesthetic concentration of inhalation anesthetics;	1
		recruitment, absorption and distribution of the injectable anesthetic ;	1
2. PERFORMING OF GENERAL ANAESTHESIA : (TOT. 2 HOURS)	stages and levels of general anesthesia :	the recognition of the characteristic signs corresponding to the progressive changes that followed the administration of anesthetic drugs ;	1
acquisition of : recognition phases of the anesthetic procedure	stages and levels of general anesthesia :	the recognition of the characteristic signs corresponding to the progressive changes that followed the administration of anesthetic drugs ;	1
	general anesthesia:	components, mixed anesthesia techniques;	1

<p>3. THE PRE- ANESTHETIC PERIOD: (TOT. 4 HOURS)</p> <p>acquisition of :</p> <p>method of clinical evaluation and diagnostic collateral for the identification and classification of the patient under general anesthesia: 1</p>		the pre- anesthetic period:	the pre- anesthetic history collection , evaluation of the patient;	1	
		the pre- anesthetic period:	the pre- anesthetic physical examination , diagnostic side , the patient's physical status classification of anesthesia	1	
		the pre- anesthetic period:	the pre- anesthetic choice of anesthetic technique and protocol	1	
		oro-tracheal intubation :	general principles; purposes, materials, techniques; technical - species differences, alternative techniques, complications	1	
		equipment for inhalation anesthesia:	equipment for inhalation anesthesia : description of the individual components and their uses; safety standards related to the use of anesthetics ;	1	
<p>5 . APPARATUS AND SYSTEMS FOR</p>		breathing circuits :	total and partial rebreathing circuits : description of the components, applicability	1	

INHALATION ANESTHESIA: (TOT. 2 hours) acquisition of : a) components and their appropriate use in the conduct of inhalation anesthetics in any animal species			, advantages, disadvantages	
		breathing circuits :	non-rebreathing circuits : components description , applicability , advantages, disadvantages 1	1
6 . LOCO- REGIONAL ANESTHESIA (TOT. 3 HOURS) acquisition of : a) meaning and applicability of loco-regional anesthesia in large and small animal species; b) knowledge of the correct methods of application and possible complications.		Loco - regional anesthesia :	definition , history, classification	1
		Loco - regional anesthesia :	advantages / disadvantages , the use of local anesthetics , mode of action of local anesthetics, scale of pain sensitivity ;	1
		Loco - regional anesthesia :	property , action, metabolism ;	1
		Loco - regional anesthesia :	enhancement - prolongation of action of a local anesthetic, toxicity of local anesthetics	1

<p>7. The most commonly used Anesthetic Drugs in the veterinary field: classification and technical data sheets: (TOTAL 2 HOURS)</p>	<p>Anaesthetic Drugs</p>	<p>Composition, pharmacodynamics/kinetics, routes of administration, dosage, therapeutic indications, contraindications, side effects, associations, metabolism</p>		<p>2</p>
<p>PRACTICAL EXERCISES</p>				
<p>Topics and acquired skills</p>	<p>Topics</p>	<p>Specific contents</p>	<p>Hours</p>	
<p>acquisition of :</p> <p>a) Completion of the anesthesia record ;</p> <p>b) the correct approach to the patient anesthesia ;</p>	<p>The anesthetic record:</p>	<p>The practical exercise, carried out in small groups, with a tutor, aims to make the student acquire the importance of using a CA, addressing the individual moments of management /compilation</p>	<p>2</p>	

c) Procedures and techniques for tracheal intubation gold ;				
d) preparation and use of inhalational anesthesia instruments ;	The anaesthetic patient:	This practical exercise, performed in the operating room along with the tutor aims to foster the student's approach with the patient in the peri-anesthetic management of the same .	2	
e) execution - loco-regional anesthesia techniques on dead animals. 2	the oro-tracheal intubation:	This practical exercise , carried out in small groups with tutors in the laboratory using corpses , aims, to perform the student with the manual on procedures for oro-tracheal intubation in small species.	2	
	Machines for inhalation anaesthesia and respiratory systems:	practical exercise, carried out in small groups with tutors aims, to make the student learn the procedures necessary for the use of equipment and systems required for general inhalation anaesthesia .	2	
	loco- regional anesthesia of the head :	This practical exercise , carried out in small groups with tutors in the lab, on cadavers , aims , to locate landmarks and make the student do the manual work necessary to implement the major anesthesia loco-regional head .	2	
	regional and spinal anaesthesia :	This practical exercise, carried out in small groups with tutors in the lab, on cadavers, aims , to locate landmarks and make the student the manual on the implementation of the	2	

		principal regional and spinal anesthetics.		
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