



# UNIVERSITÀ DEGLI STUDI DI TORINO

Provider: Università degli Studi di Torino - (ID 173)

## PRINCIPLES OF SMALL ANIMAL ANESTHESIA & PERIOPERATIVE ANALGESIA

Obiettivo n° 24 - Sanità veterinaria

Università degli Studi di Torino - Scuola di Agraria e Medicina Veterinaria -  
Dipartimento di Scienze Veterinarie - Aula Monti - Via Leonardo da Vinci,  
44 - Grugliasco (TO)

### MODULE 1:

May 8, 2014

9.00 - 12.00	Titolo/argomento	Relatori
9.00 - 10.00	INTRODUCTION TO THE COURSE AND COURSE OBJECTIVES	DRIESEN Sostituto: ZARUCCO
10.00 - 11.00	PREANESTHETIC ANIMAL EVALUATION, PHYSICAL STATUS AND RISK ASSESSMENT; OWNER CONSENT FORM; ANIMAL PREPARATION	DRIESEN Sostituto: ADAMI
11.00 - 12.00	PHARMACOLOGY OF PREMEDICATION DRUGS ( $\alpha_2$ -Agonists; Phenothiazines)	DRIESEN Sostituto: ADAMI
14.00 - 18.00	Titolo/argomento	Relatori
14.00 - 15.00	PHARMACOLOGY OF PREMEDICATION DRUGS (Benzodiazepines, Anticholinergics)	DRIESEN Sostituto: ADAMI
15.00 - 16.00	PHARMACOLOGY OF PREMEDICATION DRUGS (Opioids – Part I)	DRIESEN Sostituto: ADAMI
16.00 - 17.00	PHARMACOLOGY OF PREMEDICATION DRUGS (Opioids – Part II)	DRIESEN Sostituto: ADAMI
17.00 - 18.00	PURPOSE OF PREMEDICATION AND SELECTION CRITERIA FOR VARIOUS PREMEDICATION Protocols	DRIESEN Sostituto: ADAMI

May 9, 2014

9.00 - 12.00	Titolo/argomento	Relatori
9.00 - 10.00	BRIEF REVIEW OF LECTURES 1-7 & QUESTION/ANSWER (Q/A) SESSION	DRIESEN Sostituto: ADAMI
10.00 - 11.00	PHARMACOLOGY OF INJECTABLE ANESTHETICS (Thiopental, Propofol, Etomidate)	DRIESEN Sostituto: ADAMI
11.00 - 12.00	PHARMACOLOGY OF INJECTABLE ANESTHETICS (Ketamine, Tiletamine-Zolazepam; Opioids)	DRIESEN Sostituto: ADAMI
14.00 - 18.00	Titolo/argomento	Relatori
14.00 - 15.00	APPLIED PHARMACOKINETICS FOR THE ANESTHETIST (Delivery, distribution & elimination of injectable agents used in anesthesia)	DRIESEN Sostituto: ADAMI

15.00 - 16.00	DRUG PROTOCOLS USED FOR INDUCTION OF ANESTHESIA IN SMALL ANIMALS & SELECTION CRITERIA	DRIESSEN Sostituto: ADAMI
16.00 - 17.00	TOTAL (TIVA) & PARTIAL INTRAVENOUS ANESTHESIA (PIVA) FOR MAINTENANCE OF ANESTHESIA	DRIESSEN Sostituto: ADAMI
17.00 - 18.00	PHARMACOLOGY OF INHALANT ANESTHETICS (Isoflurane, sevoflurane, [desflurane]; N <sub>2</sub> O) – PART I	DRIESSEN Sostituto: ADAMI

## May 10, 2014

9.00 - 12.00	Titolo/argomento	Relatori
9.00 - 10.00	BRIEF REVIEW OF LECTURES 9-14 & Q/A SESSION	DRIESSEN Sostituto: ADAMI
10.00 - 11.00	PHARMACOLOGY OF INHALANT ANESTHETICS (Isoflurane, sevoflurane, [desflurane]; N <sub>2</sub> O) – PART II	DRIESSEN Sostituto: ADAMI
11.00 - 12.00	UPTAKE, DISTRIBUTION, METABOLISM & ELIMINATION OF INHALANT ANESTHETICS USING COMPUTER SIMULATIONS	DRIESSEN Sostituto: ADAMI
14.00 - 18.00	Titolo/argomento	Relatori
14.00 - 15.00	LOW AND HIGH FLOW ANESTHESIA WITH INHALANT ANESTHETICS USING COMPUTER SIMULATIONS	DRIESSEN Sostituto: ADAMI
15.00 - 16.00	CASE PRESENTATIONS TO APPLY INFORMATION ACQUIRED IN PREVIOUS LECTURES 1 - 13	DRIESSEN Sostituto: ADAMI
16.00 - 17.00	CASE PRESENTATIONS TO APPLY INFORMATION ACQUIRED IN PREVIOUS LECTURES 14 - 19	DRIESSEN Sostituto: ADAMI
17.00 - 18.00	BRIEF REVIEW OF LECTURES 16-20 & Q/A SESSION	DRIESSEN Sostituto: ADAMI

## MODULE 2:

### May 29, 2014

11.00 - 13.00	Titolo/argomento	Relatori
11.00 - 12.00	ANESTHESIA MACHINE, ANESTHESIA CIRCUITS, VAPORIZERS & RELATED EQUIPMENT, PART I	DICONCETTO Sostituto: DRIESSEN
12.00 - 13.00	ANESTHESIA MACHINE, ANESTHESIA CIRCUITS, VAPORIZERS & RELATED EQUIPMENT, PART II	DICONCETTO Sostituto: DRIESSEN
14.00 - 18.00	Titolo/argomento	Relatori
14.00 - 15.00	TECHNIQUES OF ENDOTRACHEAL INTUBATION & RELATED EQUIPMENT	DICONCETTO Sostituto: DRIESSEN
15.00 - 16.00	SIGNS OF ANESTHESIA/RECOGNIZING STAGES OF ANESTHETIC DEPTH / KEEPING AN ANESTHESIA RECORD	DRIESSEN Sostituto: DICONCETTO
16.00 - 17.00	PHYSIOLOGY OF THE CARDIOVASCULAR SYSTEM & COMMON CARDIOVASCULAR MONITORING TECHNIQUES	DRIESSEN Sostituto: DICONCETTO
17.00 - 18.00	CAUSES OF HEMODYNAMIC IMPAIRMENT	DRIESSEN Sostituto: DICONCETTO
	<b>VERIFICA ECM*</b>	

## May 30, 2014

9.00 - 12.00	Titolo/argomento	Relatori
9.00 - 10.00	BRIEF REVIEW OF LECTURES 22-27 & Q/A SESSION	DICONCETTO DRIESSEN
10.00 - 11.00	MONITORING AND MANAGEMENT OF HEMODYNAMIC IMPAIRMENTS	DICONCETTO Sostituto: DRIESSEN
11.00 - 12.00	READING THE ECG	AMBRISKO Sostituto: DRIESSEN
14.00 - 18.00	Titolo/argomento	Relatori
14.00 - 15.00	CAUSES AND TREATMENT OF COMMON CARDIAC RHYTHM DISTURBANCES, PART I	AMBRISKO Sostituto: DRIESSEN
15.00 - 16.00	CAUSES AND TREATMENT OF COMMON CARDIAC RHYTHM DISTURBANCES, PART II	AMBRISKO Sostituto: DRIESSEN
16.00 - 17.00	CAUSES, RECOGNITION, AND TREATMENT OF CARDIAC ARREST (CPR)	AMBRISKO Sostituto: DRIESSEN
17.00 - 18.00	PERIANESTHETIC FLUID THERAPY (crystalloids, colloids, blood products)	DRIESSEN Sostituto: AMBRISKO

## May 31, 2014

9.00 - 13.00	Titolo/argomento	Relatori
9.00 - 10.00	BRIEF REVIEW OF LECTURES 29-34 & Q/A SESSION	DICONCETTO DRIESSEN AMBRISKO
10.00 - 11.00	DIAGNOSIS AND TREATMENT OF ABNORMAL ACID-BASE STATUS DURING THE PERIANESTHETIC PERIOD	DICONCETTO Sostituto: DRIESSEN
11.00 - 12.00	DIAGNOSIS AND TREATMENT OF ABNORMAL ELECTROLYTE STATUS DURING THE PERIANESTHETIC PERIOD	DICONCETTO Sostituto: DRIESSEN
12.00 - 13.00	PHYSIOLOGY OF THE RESPIRATORY SYSTEM & COMMON RESPIRATORY FUNCTION MONITORING TECHNIQUES	DRIESSEN Sostituto: AMBRISKO
14.00 - 18.00	Titolo/argomento	Relatori
14.00 - 15.00	RESPIRATORY FUNCTION MONITORING TECHNIQUES WITH FOCUS ON CAPNOMETRY/-GRAPHY	DICONCETTO Sostituto: DRIESSEN
15.00 - 16.00	RESPIRATORY FUNCTION MONITORING TECHNIQUES WITH FOCUS ON BLOOD GAS ANALYSIS	DRIESSEN Sostituto: DICONCETTO
16.00 - 17.00	CAUSES AND EFFECTS OF RESPIRATORY DYSFUNCTION ON THE ANESTHETIZED ANIMAL	DRIESSEN Sostituto: DICONCETTO
17.00 - 18.00	BRIEF REVIEW OF LECTURES 36-41 & Q/A SESSION	DICONCETTO DRIESSEN

## MODULE 3:

June 26, 2014

11.00 - 13.00	Titolo/argomento	Relatori
11.00 - 12.00	INDICATIONS AND EFFECTS OF MECHANICAL VENTILATION ON THE ANESTHETIZED ANIMAL	DRIESSEN Sostituto: ADAMI
12.00 - 13.00	TYPES OF MECHANICAL VENTILATORS, MODES OF MECHANICAL VENTILATION, AND VENTILATOR SETTINGS	DRIESSEN Sostituto: ADAMI
14.00 - 18.00	Titolo/argomento	Relatori
14.00 - 15.00	PHARMACOLOGY OF NEUROMUSCULAR BLOCKING AGENTS (NMBs; focus: [cis-]atracurium), mivacurium, edrophonium; INDUCING PERIPHERAL MUSCLE PARALYSIS	DRIESSEN Sostituto: ADAMI
15.00 - 16.00	MONITORING & REVERSING PERIPHERAL MUSCLE PARALYSIS (focus:neostigmine, edrophonium)	ADAMI Sostituto: DRIESSEN
16.00 - 17.00	CASE PRESENTATIONS TO APPLY INFORMATION ACQUIRED IN PREVIOUS LECTURES 22 – 29	DRIESSEN ADAMI
17.00 - 18.00	CASE PRESENTATIONS TO APPLY INFORMATION ACQUIRED IN PREVIOUS LECTURES 30 - 46	DRIESSEN ADAMI
<b>VERIFICA ECM*</b>		

June 27, 2014

9.00 - 12.00	Titolo/argomento	Relatori
9.00 - 10.00	BRIEF REVIEW OF LECTURES 43-48 & Q/A SESSION	DRIESSEN ADAMI
10.00 - 11.00	PATHOPHYSIOLOGY OF PERIOPERATIVE PAIN	DRIESSEN Sostituto: ADAMI
11.00 - 12.00	SIGNS OF NOCICEPTION & DISTRESS AND PAIN ASSESSMENT IN SMALL ANIMALS	DRIESSEN Sostituto: ADAMI
14.00 - 18.00	Titolo/argomento	Relatori
14.00 - 15.00	MANAGEMENT OF PERIOPERATIVE NOCICEPTION - MULTIMODAL ANALGESIA IN SMALL ANIMALS; PART I	DRIESSEN Sostituto: ADAMI
15.00 - 16.00	MANAGEMENT OF PERIOPERATIVE NOCICEPTION - MULTIMODAL ANALGESIA IN SMALL ANIMALS; PART II	DRIESSEN Sostituto: ADAMI
16.00 - 17.00	PHARMACOLOGY OF DRUGS USED IN LOCO-REGIONAL ANESTHESIA & ANALGESIA TECHNIQUES IN SMALL ANIMALS	DRIESSEN Sostituto: ADAMI
17.00 - 18.00	EPIDURAL ANESTHESIA & ANALGESIA & OTHER COMMON LOCO-REGIONAL ANESTHESIA & ANALGESIA TECHNIQUES IN SMALL ANIMALS	ADAMI Sostituto: DRIESSEN

June 28, 2014

9.00 - 13.00	Titolo/argomento	Relatori
9.00 - 10.00	BRIEF REVIEW OF LECTURES 50-55 & Q/A SESSION	DRIESSEN ADAMI
10.00 - 11.00	CASE PRESENTATIONS TO APPLY INFORMATION ACQUIRED IN PREVIOUS LECTURES 50 – 55	DRIESSEN ADAMI
11.00 - 12.00	EMERGENCE FROM INJECTABLE AND INHALANT ANESTHESIA	DRIESSEN Sostituto: ADAMI

12.00 - 13.00	MANAGING COMMON ANESTHETIC EMERGENCIES	ADAMI Sostituto: DRIESSEN
<b>14.00 - 18.00</b>	<b>Titolo/argomento</b>	<b>Relatori</b>
14.00 - 15.00	PRINCIPLE APPROACH TO ANESTHESIA FOR THE EMERGENCY PATIENT	ADAMI Sostituto: DRIESSEN
15.00 - 16.00	ANESTHESIA FOR THE PATIENT WITH CARDIAC DISEASE, PART I	ADAMI Sostituto: DRIESSEN
16.00 - 17.00	ANESTHESIA FOR THE PATIENT WITH CARDIAC DISEASE, PART II	DRIESSEN Sostituto: ADAMI
17.00 - 18.00	BRIEF REVIEW OF LECTURES 57-62 & Q/A SESSION	DRIESSEN Sostituto: ADAMI

## MODULE 4: September 18, 2014

<b>11.00 - 13.00</b>	<b>Titolo/argomento</b>	<b>Relatori</b>
11.00 - 12.00	ANESTHESIA FOR THE PATIENT WITH CENTRAL NERVOUS SYSTEM DISEASE INCLUDING ANESTHESIA FOR THE ANIMAL UNDERGOING MRI AND/OR CT SCANNING	APREA Sostituto: DRIESSEN
12.00 - 13.00	ANESTHESIA FOR THE PATIENT WITH ENDOCRINE DISEASE	APREA Sostituto: DRIESSEN
<b>14.00 - 18.00</b>	<b>Titolo/argomento</b>	<b>Relatori</b>
14.00 - 15.00	ANESTHESIA FOR THE PATIENT WITH GASTRO-INTESTINAL DISEASE	APREA Sostituto: DRIESSEN
15.00 - 16.00	ANESTHESIA FOR THE PATIENT WITH LIVER DISEASE	DRIESSEN Sostituto: ADAMI
16.00 - 17.00	ANESTHESIA FOR THE PATIENT WITH RENAL DISEASE	DRIESSEN Sostituto: ADAMI
17.00 - 18.00	ANESTHESIA FOR THE PATIENT WITH EYE DISEASE AND EYE LACERATIONS	APREA Sostituto: DRIESSEN
	<b>VERIFICA ECM*</b>	

## September 19, 2014

<b>9.00 - 12.00</b>	<b>Titolo/argomento</b>	<b>Relatori</b>
9.00 - 10.00	BRIEF REVIEW OF LECTURES 64-69 & Q/A SESSION	DRIESSEN APREA
10.00 - 11.00	ANESTHESIA OF THE PEDIATRIC AND SENILE PATIENTS	APREA Sostituto: DRIESSEN
11.00 - 12.00	INTRODUCTION TO THE ANESTHESIA OF RABBITS AND POCKET PETS	APREA Sostituto: DRIESSEN
<b>14.00 - 18.00</b>	<b>Titolo/argomento</b>	<b>Relatori</b>
14.00 - 15.00	INTRODUCTION TO THE ANESTHESIA OF BIRDS	APREA Sostituto: DRIESSEN
15.00 - 16.00	CASE PRESENTATIONS TO APPLY INFORMATION ACQUIRED IN PREVIOUS LECTURES 58 - 66	DRIESSEN APREA

16.00 - 17.00	CASE PRESENTATIONS TO APPLY INFORMATION ACQUIRED IN PREVIOUS LECTURES 67 - 73	DRIESSEN APREA
17.00 - 18.00	BRIEF REVIEW OF LECTURES 71 - 75 & Q/A SESSION	DRIESSEN APREA

### September 20, 2014

9.00 - 12.00	Titolo/argomento	Relatori
9.00 - 13.00	REVIEW OF COURSE MATERIAL OF DAY 10 (self-study time)	DRIESSEN APREA
14.00 - 18.00	Titolo/argomento	Relatori
15.00 - 18.00	REVIEW OF COURSE MATERIAL OF DAY 10 (self-study time)	DRIESSEN APREA

### September 21, 2014

15.00 - 16.00	Titolo/argomento	Relatori
15.00 - 16.00	HANDING OUT OF COURSE EXAM RESULTS AS WELL AS COURSE ATTENDANCE CERTIFICATES* - CONCLUSION OF THE COURSE	DRIESSEN Sostituto: ZARUCCO
	<b>VERIFICA ECM*</b>	

\*Il tempo dedicato alla verifica NON è compreso nelle ore totali del corso

<b>TOTALE ORE DELL'INIZIATIVA FORMATIVA</b>	<b>84 ORE</b>
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