

VT 201 : ANESTHESIOLOGY AND SURGERY TECHNIQUES

Transcript title

Anesthesiology Surg Tech

Credits

4

Grade mode

Standard letter grades

Contact hours total

60

Lecture hours

30

Lab hours

30

Prerequisites

[VT 111](#), [VT 112](#), [VT 113](#), and [VT 116](#).

Corequisites

[VT 200](#), [VT 203](#), [VT 209](#), [VT 212](#).

Description

Covers the principles and practices of veterinary anesthesia and surgical assistance.

Learning outcomes

1. Calculate dosages of anesthetic and emergency drugs.
2. Explain methods for monitoring patient status during anesthetic procedures and the appropriate response to patients in compromised states.
3. Explain pain management protocols and the decision-making process for implementation.
4. Describe and demonstrate proper operation of anesthetic delivery and monitoring equipment.
5. Identify surgical instruments and describe their use.
6. Explain methods for and perform preparation of surgical instruments, gowns and drapes.
7. Describe and demonstrate aseptic techniques for patient preparation and surgical assisting.
8. Explain and identify common suture materials, types and sizes.

Content outline

Lecture

- I. Intro, anesthetic definitions, panentheistic evaluation, ASA status
- II. IV catheterization, fluid therapy, endotracheal intubation, anesthetic record, controlled drugs log
- III. Instrument packs, instrument care, sterilization, autoclaves
- IV. Premedication and sedation, anesthetic induction
- V. Inhalant anesthetics/Anesthesia Machines

VI. Aseptic operating room techniques, sterile hand scrubbing, gowning, gloving

VII. Stages of anesthesia, monitoring

VIII. Maintenance of anesthesia, recovery

IX. Surgical site preparation, patient positioning

X. Technician's Role in Pain management

XI. Suture materials, suture patterns, needles, tissue handling

XII. Ventilation techniques, anesthesia for high risk patients

XIII. Anesthetic problems and emergencies

XV. Client Education for post-op care

Lab

I. Lab Orientation

Surgical Instruments

Operating room sanitation

ASA Status

Drug Calculations

Log Books

II. Instrument Care

Autoclave use and maintenance

Wrapping packs, folding gowns

Pack and Individual instrument sterilization

III. Anesthetic machines, their components and waste anesthetic gases

IV. Opening packs

Aseptically passing instruments

Gloving – open and closed

V. Monitors (pulse oximeter, ECG, BP)

IV fluid calculation, fluid pump

Endotracheal intubation (model)

BMBT

VI. Positioning and surgical prep of patient

Scrubbing for surgery

Gowning and gloving for

surgery

VII. Dental instruments and technique

Suture material and needles

Staples

Suction machine and tips

VII. Technician Roles: Anesthesia Tech, Surgical Nurse, Circulating Tech, Dental Tech

Practice: Exam, bloodwork, ASA status, drug calculations, anesthetic plan

Positive Pressure Ventilation

IX. Practice: Exam, bloodwork, ASA status, drug calculations, anesthetic plan

Required materials

Textbook, scrubs, stethoscope, watch with second hand, bandage scissors, small animal thermometer, COCC nametag

Grading methods

Assessment may include weekly homework pre and post lab assignments, essential skills check offs, quizzes, and lecture and lab exams.