

STANDARD OPERATING PROCEDURES
DIVISION OF COMPARATIVE MEDICINE
UNIVERSITY OF SOUTH FLORIDA

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TITLE: SurgiVet™ Anesthesia Machine
SCOPE: Research and Animal Care Personnel,
RESPONSIBILITY: Facility Manager, Technical Staff, and Professional & Administrative Staff
PURPOSE: To Outline the Proper Procedures for Use and Maintenance of Veterinary Inhalation Anesthesia Equipment

I. PURPOSE

1. Isoflurane inhalation provides safe general anesthesia for a variety of animal species. This procedure outlines the use and maintenance of a veterinary inhalation anesthesia machine that incorporates an oxygen flowmeter, anesthetic vaporizer, and a circle re-breathing system with carbon dioxide absorption.

II. RESPONSIBILITY

1. The Facility Manager ensures that equipment is appropriately cleaned, maintained in good working order, and available for research personnel as requested.
2. The veterinary professional, administrative, and managerial staff ensure that all research and technical staff using this equipment are adequately trained and experienced to perform veterinary inhalant general anesthesia.
3. The veterinary and technical staff operating this equipment ensure this procedure and the manufacturer's operation manual are followed.

III. EQUIPMENT SET- UP

1. Check that machine is connected to oxygen supply that is turned on and has an adequate supply at 50-55 psi.
2. Check the operation of the flow meter.
3. Check that vaporizer is adequately filled.
4. Check breathing circuit configuration and connections.
5. Check the scavenger system. Charcoal canisters should be weighed and replaced as recommended by the manufacturer.
6. Check ventilator function and connections.
7. Pressure test the machine as described in the operation manual.

2. Monthly when unit is in-service or prior to use if frequency of use is less than monthly.
 - a. Ventilator supply hose, bellows housing, and bellows should be cleaned with mild soapy water (e.g., Dawn®, chlorhexidine) rinsed well and dried completely before reassembly.
 - b. Visually inspect bellows diaphragm, flutter valve, and ring seal.
3. Record date, initial, and circle the appropriate maintenance interval on the anesthetic machine hang tag to indicate that all items/actions for that interval were completed.
4. Consult operation manual for trouble shooting and corrective actions.