STANDARD OPERATING PROCEDURES

DIVISION OF COMPARATIVE MEDICINE UNIVERSITY OF SOUTH FLORIDA

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TITLE: Portable IMPAC 6 ® Veterinary 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 the

IMPAC 6 ® Veterinary Anesthesia Machine

I. PURPOSE

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 flow meter, anesthetic vaporizer, and a non-rebreathing system with a passive (or active) waste gas scavenging system.

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 staffs ensure that all research and technical staff using this equipment are adequately trained and experienced to use the IMPAC $6^{\,\otimes}$.

III. EQUIPMENT SET- UP

- 1. Assemble all supplies (e.g., isoflurane, Spor-Klenz®, wipes, etc).
- Assemble and check all equipment (e.g., anesthesia machine, patient monitors).
- 3. Check to ensure that the control dial of the vaporizer is in the "off" position.
- 4. **Check isoflurane level** in the sight glass and fill if needed. (See Maintenance section.)

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- 7. **Connect recovery chamber** to "To Chamber" and to "From Chamber" ports; alternatively, if using chamber for euthanasia, connect CO₂ line to CO₂ tank regulator.
- 8. Attach an "E" tank to the regulator on the green oxygen hose. Secure / strap down tank to avoid broken valve or damaged tank. Using a tank wrench, turn knob on oxygen E tank counter-clockwise and check pressure. A full tank will register 2000 PSI. The tank should be replaced when the pressure gauge registers less than 200 PSI. Reducing valve on regulator lowers tank pressure to

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- 1. **Weigh the charcoal scavenging** device (e.g., F/Air® or EnviroPure® canisters) to ensure weight is below the manufacturer's recommended threshold for replacement. Refer to manufacturer's directions.
- 2. To fill vaporizer: remove filler cap and carefully pour Isoflurane into opening, observe proper level of isoflurane through sight glass. Replace cap.
- 3. To drain vaporizer: removing the filler cap reveals the drain plug. Using the inverted filler cap, unscrew the plug but do not remove it. Drain only into a properly marked container.
- 4. Inspect the anesthesia machine connections and rubber parts before use for looseness, damage, cracks, or wear, and replace when necessary. Detach quad boxes and wipe boxes and machine with Spor-Klenz®. NOTE: do not use Spor-Klenz® on rubber gaskets as it may cause deterioration. Do not use alcohol or ammonia on the quad boxes.
- 5. The vaporizer should be **certified annually** by an authorized technician.
- 6. Certification is documented by labeling the equipment with the date of certification and the date when certification is due.
- Facility Managers are responsible for maintaining current records of Division-owned equipment inspections, calibrations, maintenance, non-routine repairs, and current inventory for their facility on the division's *Equipment Maintenance Log* (CMDC#192).

VI. REFERENCES

	1.	Refer to	the manu	facturer's	manuals for	additional	information.
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