

STANDARD OPERATING PROCEDURES
DIVISION OF COMPARATIVE MEDICINE
UNIVERSITY OF SOUTH FLORIDA

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TITLE:	SurgiVet V3395 Pulse Oximeter Patient Monitor (Blue)
SCOPE:	Research and Animal Care Personnel
RESPONSIBILITY:	Surgical Core Manager, and Professional & Administrative Staff
PURPOSE:	To outline the proper procedures for use and maintenance of the portable veterinary patient pulse oximeter.

I. PURPOSE

1. This procedure outlines the use and maintenance of a veterinary pulse oximeter unit which monitors pulse rate, oxygen saturation percentage (sO₂), respiration rate, and temperature of the patient.

II. RESPONSIBILITY




1. It is the responsibility of the Facility Manager in conjunction with the Surgical Core Manager to ensure that equipment is appropriately cleaned, maintained in good working order, and available for research personnel as requested.
2. It is the responsibility of the veterinary professional, administrative, and managerial staff to ensure that all research and technical staff are adequately trained and to use the SurgiVet Veterinary Pulse Oximeter Patient Monitor

III. EQUIPMENT SET- UP

1. **Obtain all supplies needed** (e.g., monitoring clips, temperature probe, sterile lube, gauze, and tape).
2. **Assemble and check that all equipment functions properly.** Connect power charger to unit (port on the side of unit) and to electrical outlet. Unit has a built in battery and can be used as a portable unit for a few hours if fully charged (e.g., overnight).
3. **To measure oxygen saturation** connect oximeter probe to unit and patient. A large clip oximetry sensor (V1703) is available to use on a large patient's tongue, ear, or any pink area on animal (e.g. lip, prepuce, or vulva). A small clip oximetry sensor is used with small patients and can be connected to the tongue, toe web, or pinna. The C-clip sensor (V1707) can be used on a paw or shaved tail region. The temperature probe (V1700) can be used orally or rectally.
4. An extension line (white #3311) can be added to any pulse oximeter probe clip to increase length of probe sensor lead. When connecting probe sensors or extension lines to unit port make sure connection pins line up properly and insert carefully.

5. **To monitor respiration rate**, connect gray line jack (V3422) to unit, connect sensor to airway adapter, and place airway adapter between endotracheal tube and wye-piece of anesthesia machine (see **SOP #1102.1**).
6. **To monitor body temperature**, insert black jack (C400-10) into unit and connect temperature probe into other end. Disinfect temperature probe prior to each use.

IV. EQUIPMENT USE

1. Turn on unit **STANDBY/ON** by pressing the  button.
2. **WAVE/TREND** key controls waveform display trend or plethysmogram.
3. To silence the **ALARM**, press the  button to silence for two minutes. Holding button down for 3 seconds disables the alarm indefinitely. Press the button again to cancel alarm silence.
4. **MENU/ENTER** key  will display the menu list, press again while the menus are displayed to select a menu or accept a value that has been adjusted.
5. **▼/▲ ARROWS** will move among menu items in menu display mode. If trend is displayed, Arrow Keys cycle between trended parameters. If plethysmogram is displayed, Arrow Keys adjust the display's contrast.
6. **To measure oxygen saturation**, place sO₂ sensor clip/probe on patient. If sensor does not show reading, remove sensor, hold closed for several seconds. When light flashes, re-apply to area of choice. A piece of dry gauze may be placed between sensor and patient, to aid sensor in picking up a signal. The sensor may need to be relocated during long surgeries, as circulation in the area of sensor can be reduced by clip pressure.
7. **To monitor body temperature**, lubricate temperature probe with sterile water based lubricant and insert approximately half way into esophagus or several inches into the rectum. It should slide in easily. **Do not force probe** - kinking lead may damage sensor wires.
8. **To monitor respiration rate**, place connected airway adapter between endotracheal tube and wye- piece of anesthesia machine.
9. The SurgiVet V3395 has an internal battery allowing it to function as a portable unit when disconnected from the power supply. A portable unit may be useful for monitoring patients during post-operative recovery or when performing routine animal health evaluations.
10. **DO NOT leave animal/patient unattended with unit attached.**
11. DO NOT allow animal to chew on sensor cords.

V. MAINTENANCE

1. Inspect condition of unit and electrical cord/plug to ensure safe operation. Equipment determined to be unsafe will be removed from service immediately.
2. Inspect the unit and all components (e.g., sensors, probes, and cables) before and after each use for, damage, cracks, looseness, or wear and replace when necessary. Carefully disinfect unit and all components with Sporidicin after each use.
3. Any additional maintenance/service should be performed by authorized personnel

VI. REFERENCES

1. Refer to the manufacturer's manual for additional information

Approved:

Date: