

**STANDARD OPERATING PROCEDURES**  
**DIVISION OF COMPARATIVE MEDICINE**  
**UNIVERSITY OF SOUTH FLORIDA**

SOP#: 1142.2

Date Issued: 6/04

Date Revised: 7/08

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<b>TITLE:</b>	<b>Kirschner/Scientific Recovery Unit</b>
<b>SCOPE:</b>	Research and Animal Care Personnel
<b>RESPONSIBILITY:</b>	Surgical Core Manager, and Professional & Administrative Staff
<b>PURPOSE:</b>	To Outline the Proper Procedures for Use and Maintenance of the Kirschner/Scientific Recovery Unit

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**I. PURPOSE**

1. This procedure outlines the use and maintenance of the Kirschner/Scientific Recovery Unit used to provide supplemental warmth and oxygen to support/maintain body temperature and/or oxygen saturation in research animals post-procedurally.

**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 research and technical staff using this equipment are adequately trained and experienced in the use of the Kirschner/Scientific recovery unit.

**III. INITIAL SETUP**

1. **Plug in unit and turn on** power switch located on the right side of the control panel. Power light will come on.
2. **Set temperature** using black temperature knob on control panel to 80-100<sup>0</sup>F. Allow unit to warm up.
3. **Monitor temperature** inside unit with accessory thermometer on the door of unit.
4. Leave accessory door off of cage door for air circulation.
5. Place rubber pad on floor of cage and cover with blue disposable under pads.
6. **Set temperature to approximately 85-90<sup>0</sup>F** and place patient into unit.
7. **Monitor patient and** adjust incubator temperature as needed based on patient's body temperature.
8. Anesthetized animals must be monitored continuously until capable of purposeful movement.

9. When animals are recovered from anesthesia to the extent they are capable of purposeful movement they may be left unattended provided the incubator temperature is set to 84-87<sup>0</sup>F.

#### IV. SUPPLEMENTAL OXYGEN USE

1. **Attach oxygen “G” tank** to regulator. Attach green oxygen hose to regulator and to warming unit.
2. **Open tank, open regulator.**
3. **Turn on oxygen supply** switch on the left side of control panel to **“Thru Flow Meter”**.
4. **Set Flow Meter** dial to 1-5 L/min.
5. When finished turn off switches, oxygen tank/regulator in reverse order.

#### V. EMERGENCY OXYGEN USE

1. Follow sequence above for oxygen hookup.
2. **Turn oxygen supply** switch to **“Direct to Cage”**
3. **Lock accessory door** onto cage door.
4. Place patient inside.
5. When finished turn off switches, oxygen tank/regulator in reverse order.

#### VI. 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. **Clean** and sanitize interior of unit after each use.
3. **Sanitize** by wiping unit with Sporicidin or bleach solution.
4. **Inspect** gray input/output hoses for holes, cracks and attachment to cage.
5. Notify Surgical Core Manager or Facility Manager immediately if unit does not operate properly.

Approved:

Date: