1. PURPOSE

1.1 - To outline the procedure for anesthetizing swine for embryo transfer.

2. RESPONSIBILITY

2.1 - Technical staff or principal investigator.

3. MATERIALS

4. PROCEDURES

4.1 - Pre-Anesthesia: Animals must be fasted at least 12 hours prior to surgery. Animals should have free access to water.

4.2 - The pre-anesthetic is:

<table>
<thead>
<tr>
<th>Drug name</th>
<th>Dosage</th>
<th>Administration Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stresnil® (Azaperone)</td>
<td>2.2 mg/kg</td>
<td>Intramuscular (IM)</td>
</tr>
<tr>
<td>Pentothal® (Thiopental sodium)</td>
<td>10 mg/kg</td>
<td>Intravenous (IV)</td>
</tr>
<tr>
<td>Atropine sulfate®</td>
<td>0.04 mg/kg</td>
<td>IM</td>
</tr>
</tbody>
</table>

Or

Mixture of:
- Telazol® (Tiletamine-Zolazepam) | 4.4 mg/kg |
- Xylamax® (Xylazine)              | 2.2 mg/kg |

Atropine sulfate®                  | 0.04 mg/kg | IM                  |

4.3 - Endotracheal (ET) tube insertion (when applicable):

a. Once jaw is relaxed it is possible to intubate.
b. Dorsal recumbency, open mouth and pull tongue on the side.
c. Using a laryngoscope, locate and visualize the epiglottis.
d. Spay topical anesthetic (Lidodan®, Lidocaine 2%) before inserting the ET tube.
e. Insert ET tube (8-10 mm) in the trachea making sure it is not inserted in the esophagus by listening for breathing. Connect to anesthetic machine.
f. The ET tube is fixed to the mandible using umbilical tape.
g. If intubation is not performed, a large dog mask is used for anesthesia.
h. Apply ophthalmic ointment (BNP Ointment®) to both eyes.

4.4 - Anesthesia:

a. Start “isoflurane” at 5% until animal is well under, and then decrease to 2-3% depending on the weight of the animal.
b. Oxygen level is at 2 liters per minute.

c. Monitoring of heart rate is done by using a stethoscope in order to assess the plane of anesthesia.

d. Since “isoflurane” is not metabolized by the liver, the animal, once “isoflurane” is cut off, will wake up rapidly. “Isoflurane” supply should only end once suturing is completed.

5. RELATED SOPs

5.1- Swine Preparation for Surgery – LARU#5