



## STANDARD OPERATING PROCEDURE #206 RODENT OVARIECTOMY

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### 1. PURPOSE

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The intent of this Standard Operating Procedure (SOP) is to describe procedures for ovariectomy surgery in rodents.

### 2. RESPONSIBILITY

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Principal investigators (PI) and their staff, veterinary care staff or any individual performing surgery on rodents, or assisting in those procedures.

### 3. MATERIALS

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- 3.1. Analgesics
- 3.2. Anesthetic: isoflurane
- 3.3. Sterile ophthalmic ointment
- 3.4. Electric clipper or depilatory cream
- 3.5. Gauze (sterile and non-sterile)
- 3.6. Antiseptic solution for skin (e.g., chlorhexidine 2% solution or povidone-iodine solution)

- 4.8.4. Locate each ovary by visualizing a white spot under the muscle on the flanks of the animal. This white spot is the fat pad covering the ovary.
- 4.8.5. Make a small incision, approximately 0.5cm in length, directly over one of the white spots (ovary).
- 4.8.6. Soak a sterile gauze pad with sterile isotonic saline.
- 4.8.7. Grasp the fat pad using fine forceps, gently pull it out of the incision and rest it on the saline-soaked gauze.
- 4.8.8. Using two fine forceps, gently pull apart the ovary and fat pad off of the uterine horn. Alternatively, cauterize the ovary and fat pad to remove it. Set removed ovary aside. Check for bleeding.
- 4.8.9. Use sterile cotton-tipped swabs to gently return the uterine horn into the abdominal cavity.
- 4.8.10. Apply topical local analgesic to the muscle incision.
- 4.8.11. Hold the edges of the muscle incision together with forceps and use one suture to close the muscle.
- 4.8.12. Repeat with the other ovary.
- 4.8.13. Apply one drop of topical local analgesic to the skin incision.
- 4.8.14. Hold the edges of the skin incision together with forceps and use one wound clip to close the incision. Alternatively, suture the incision.
- 4.9. Disinfect the instruments between each animal by dipping them in a hot glass bead sterilizer for approximately 30 seconds after removing any blood and debris (let cool completely).
- 4.10. Allow animals to recover in a clean cage. Provide supplemental heat (use a heating disc or pad, heating lamp or incubator) for approximately 30 minutes and monitor the animals until they have fully recovered prior to returning them to their housing room.
- 4.11. Administer analgesics post-operatively as per Rodent Analgesia SOP.
- 4.12. Remove wound clips or sutures once the incision is completely closed, usually 7-10 days following surgery.

### SOP REVISION HISTORY

DATE	NEW VERSION
2016.09.22	Title: <del>MOUSE</del> OVARIECTOMY
2016.09.22	1. PROCEDURE The intent of this Standard Operating Procedure (SOP) is to describe procedures for ovariectomy surgery in <del>mice</del> .
2016.09.22	4.3. Anesthetize <del>mouse</del> using isoflurane according to <del>Mouse</del> Anesthesia SOP.
2016.09.22	4.7.1 Place <del>mouse</del> in sternal recumbency.
2016.09.22	4.7.2 Make a midline incision, approximately 1cm in length, in the mid-dorsum of the <del>mouse</del> .
2016.09.22	4.7.4 Locate each ovary by visualizing a white spot under the muscle on the flanks of the <del>mouse</del> .

2020.11.17

# Rodent Procedure Log



...carprofen: mouse: 20mg/kg, rat: 5-10 mg/kg, SC, every 24 hrs

...buprenorphine: mouse: 0.1mg/kg SC or IP every 4-8 hrs; rat: 0.05mg/kg, SC or IP, every 8-12 hrs

... OTHER \_\_\_\_\_