

Germ-free Vasectomy of mice

Instruments required:

Surgical Kit (autoclaved and double-wrapped)

1 pair of curved forceps

2 pair of fine straight forceps

1 pair curved sharp scissors

Autoclip applicator

Autoclips

Silk Suture with curved needle attached

Needle holder

Hair removal tweezers

Anaesthetic base plate (baked, double-wrapped and autoclaved)

Pipework for anaesthetic equipment (double-wrapped and autoclaved)

1. Using standard germ-free techniques, transfer 6-10 week old male mice into a surgical Isolator and attach isolator to the surgical Hood with appropriate sleeve.
2. Sterilize the sleeve (2% peracetic acid using standard protocol) and leave for 60 mins before venting.
3. Sterilize the Laminar Flow Hood (using standard protocol)
4. Wash hands using xxxxx
5. Put on a sterile surgical gown and gown using a closed technique.
6. Receive the sterile instruments into the hood and set up the anaesthetic equipment.
7. Import a cage of germ-free males via the inner quadralock.
8. Place one mouse on the anaesthetize plate and anaesthetize.
9. Lay the mouse on its back and pluck the hair from the lower abdomen.
10. Using the curved scissors and forceps make an incision (~1 cm long) across the lower abdomen approximately 0.5cm anterior to the genitals.
11. Make another incision through the peritoneum.
12. Locate the vas deferens, which will be lying on either side of the bladder.
13. Grasp the vas deferens with the forceps and cauterize out one section (~4-5 mm long) with the edge of a pair of scissors heated to 100C in a sterile....
14. Cut out the section of vas deferens between the two cauterized areas and place on a sterile swab.
15. Repeat the procedure on the other side.
16. Sew up the incision in the body wall using the silk suture.
17. Close the skin with Autoclips.
18. Place the mouse back into the cage and allow to recover before transferring the cage back into the surgical isolator through the quadralock door.