**Intraperitoneal Injection in an Adult Mouse**

1. **Scope and Applicability:** General procedure used for intraperitoneal injection in adult mice.
2. **Materials:**
   1. Injectable substance, as described in approved IACUC protocol
   2. Sterile disposable syringe with Luer-Lok Tip with sterile needle, or sterile disposable syringe with attached needle, sized appropriately for quantity of injectable substance
   3. Alcohol wipes
   4. Approved Disinfectant
   5. Needle recapper
   6. Dosing flag (if needed)
3. **Equipment:** 
   1. Balance (Scout Pro Balance or equivalent)
4. **Safety:**
   1. Biohazard sharps disposal container

**Warning: Personal Protective Equipment (PPE) should be used at all times while operating this protocol. If you are unsure what PPE you should be using, see your immediate supervisor.**

**Only IACUC approved and appropriately trained personnel may perform this procedure.**

1. **Output:**
   1. Mouse that has received an intraperitoneal dose of an approved compound as specified by an approved IACUC protocol.
2. **Methodology:**
   1. Retrieve animals from designated location by verifying cage card number and LabTracks ID match the LabTracks task.
   2. Before beginning procedure, double check the cage number, LabTracks ID, ear notches, sex, and tattoos of the requested animal match the LabTracks task.
   3. Weigh animal or confirm weight of animal previously recorded on cage card.
   4. Consult the dosing chart from Standard of Care Protocol to verify appropriate dose for weight of animal.
   5. If the injectable substance is in a bottle with a rubber stopper, wipe the top of the bottle with an alcohol wipe before inserting the needle.
      1. If the injectable substance is in a tube, a different needle can be used to draw up the substance, plus a little extra. Prior to removing the used needle from the syringe, draw up some air and then remove that needle and replace with the new needle to be used for injection.
   6. Fill the syringe with appropriate amount of specified injectable compound plus a little extra.
   7. Invert and flick syringe gently, ensure bubbles have been removed as necessary.
   8. Expel any extra solution from the syringe until exact dosing volume is achieved.
   9. When transporting syringes, needles should be capped using recapper.
   10. Restrain the mouse with its abdomen facing towards the animal handler. Tilt the mouse down to a 45⁰ angle with its head towards the ground.
   11. Insert the needle at an approximately 30⁰ angle into the **mouse’s** lower right quadrant of the abdomen to a depth of approximately 2-3 mm.
   12. Aspirate syringe to ensure the needle has not penetrated a blood vessel, the intestines or the urinary bladder. If any fluid is aspirated, your compound is contaminated and must be discarded, and the procedure repeated with a new syringe and needle.
   13. If no aspirate is observed, dispense the injectable substance. Inject with moderate pressure and speed to prevent tissue damage.
   14. Remove syringe/needle from mouse.
   15. Place mouse back into the cage.
   16. On the cage card and LabTracks task, record the substance, route, volume, time, and initials of person completing the injection. If applicable, place Dosing flag behind cage card.
   17. Return cage to originating rack. Check that QD is functioning properly.
   18. Repeat until all animals requiring dosing have been completed.
3. **Take Down:** 
   1. Complete LabTracks task.
   2. If available, check that the lot number of substance has been identified and recorded on the LabTracks task.
   3. Return injectable reagent to appropriate storage location.
   4. Clean work area where injections were performed with approved disinfectant**.**
4. **Disposal:**
   1. Dispose of syringe/needle in an approved biohazard sharps disposal container. Do not re-cap needle. Do not fill container more than 2/3 full.
   2. Retain all expired or unused material for disposal by Stericycle or other authorized Reverse Distributor.
      1. If substance is not a legend drug, dispose in a labeled bag in the 4°C refrigerator.
5. **Technical Information:**
   1. Standard of Care Protocol