Quick Reference Summary SheetSubcutaneous Injections in Adult Mice

Procedure:

- 1. Pre-warm sterile substance to be administered. Do not exceed 37°C.
- 2. Weigh animal. Calculate volume to administer
 - a. Drug administration maximum = 5ml/kg/site; 10ml/kg total
 - b. Fluid administration maximum = 20ml/kg/site; 40ml/kg total
- 3. Fill an appropriately sized syringe and needle. Maintain sterility.
 - a. Mice: 0.5-3 ml syringe, 25-27G; 5/8" or smaller needle
- 4. Restrain animal appropriately to safely allow skin access for injection.
 - a. Scruff with non-dominant hand, lifting skin to form a skin tent (Figures 1 and 2).
 - b. With biohazardous agents, use a restrainer and padded forceps (Figure 3) or anesthesia and padded forceps.
- 5. Insert needle, bevel up, through base of tented skin, parallel to body, with dominant hand (Figure 4). Insert ~2/3 of the needle length.
- 6. Pull back on the plunger. If no blood or air appears, inject contents and remove needle.
 - a. If blood appears (hit a capillary): replace needle and syringe and contents and re-attempt.
 - b. If air appears (exited skin): re-attempt with same needle.
- 7. Discard syringe and needle into sharps container. Do not recap.
- 8. Return animal to its cage and observe for any complications.
- 9. Note procedure and any complications on cage card/monitoring records.

Potential Complications:

- Local reaction:
 - o E.g. bleeding, bruising, lesion formation or swelling
- Systemic reaction:
 - o E.g. weight loss, hunched, piloerection, lethargy, isolated, pain







