

## **A) Site Preparation**

The site should be prepared in a manner similar to how you would prepare a site for any other routine aseptic injection, such as spraying with 70% ethanol. The ID 100B/1.4mm and ID 100C lancet and implant are clean, inert and come in a sterilized package.

## **B) Implanting instructions**

1. Scan the sterilized unopened lancet assembly with an appropriate Trovan handheld reader or antenna to verify the ten digit transponder code.
2. Open the sealed lancet package and remove the lancet assembly.
3. Place the lancet assembly onto the implanter device and turn clockwise until the leur lock is fully seated engaged/seated into the implanter gun nozzle.
4. Hold gun without depressing the plunger and carefully remove cap/cover from the lancet. Place index finger on the blue portion of the hub as shown in photograph on Page 3

Note – The lancet is extremely sharp and has a longitudinal 60 degree bevel. It should be treated with the same respect a scalpel blade would receive. Never depress the plunger on the implanter before the lancet is inserted in the animal. Ejection of the transponder at this stage will have the effect of blunting the cannula at the end of the needle, making injection much more difficult.

5. Dorsal fur is parted and the injection site is sprayed with 70% ethanol. The lancet is inserted in the loose skin between the shoulder blades.
6. The implant motion should be straight in and straight out. Every effort should be made to eliminate rotational movement of the hand to avoid any “wobble” of the lancet tip.
7. Once the skin has been penetrated, pull the skin fold back over the length of the lancet while simultaneously moving the lancet forward. A steady (not abrupt) insertion of the lancet is the preferred procedure.
8. Insert the lancet enough to ensure the bevel is fully under the skin, (15mm should be sufficient). Depress the plunger using a steady motion. Withdraw the lancet and let the skin go. Check the implantation site to make sure that the transponder has been fully inserted. The skin is flattened along the

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Author - Ian Nicol

### **Implant Assembly – ID 100B/1.4mm and ID 100C**

Dated 01/28/2020

injection site to remove any subcutaneous air. The injection site can be sealed with a drop of Nexaband

9. Scan the animal to verify the transponder code.
10. (Re) Place mouse in a clean cage.

### **C) Anesthetic regimen:**

As per your institute's protocol.

### **D) Post procedure Care**

After the implant, watch animal to insure that it is moving freely and is not showing any signs of distress. The mouse is checked again in as per your institute's protocol to insure that it is normally active and that the chip is in place. If any swelling or signs of inflammation occur, the mouse will be treated as per your institute's policy

**Note:** An ethanol (95%) disinfected lancet can be rinsed in sterile saline and loaded with an ethanol (95%) disinfected transponder (ID100-A). This glass encapsulated transponder itself can also be autoclaved and re-used.

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Index Finger Positioned on Blue Hub

