

Cannulation Surgery Protocol

06/17/2003

Inventory List:

- Anesthetic:
- Chloropent (zebra finches)
- Ketamine/Xylazine (chickadees)
- 4% Lidocaine
- 1 ml Syringe
- Scalpel with #11 disposable blade
- Forceps
- 0.8% Saline
- Cotton applicators
- Kim wipes
- Removable needle from syringe
- Two 4-mm steel 26 gauge cannulae
- Cyanoacrylate glue
- Pipettes and tips
- Dental cement
- Aluminum foil
- Two Large Weigh boats

Procedure

Cut at least two cannulae to 4 mm with Dremel power tool. Use gray rotating blade to cut cannulae. Use calipers to measure length of cannulae. Run 32 gauge wire through cannulae to insure the ends are free.

Mount cannulae on drop down bar mounted on stereotax. Check that both cannulae are level and stable.

Anesthetize bird with intramuscular injection of anesthetic. Mount bird in stereotax and make sure head does not move when beak bar is clamped.

Remove feathers from top of head. Make a single vertical incision approx 1 cm in length in center of scalp. Separate two skin flaps and moisten skull. Add lidocaine to incision area.

Locate Lambda, identified by a triangular shaped group of blood vessels. Position stereotax drop down bar directly above lambda. Move drop down bar in horizontal plane 2.2 mm rostral (toward the beak).

Lower drop down bar such that cannulae are touching skull surface. Make a single horizontal cut in skull that is wider than the width of the two cannulae. Move drop