



## Intracisternal Cannulation

### Surgery Code: INTRCIST

The intracisternal cannulation model is of benefit to preclinical or research studies requiring cerebrospinal fluid sampling and dosing from a conscious animal.

#### Animal Models

Typical selections are listed below; however, choices for strain, age, and weight may be limited due to model anatomy, and/or physiological conditions.

- Rats: male/female, any strain, weight 245-550 g

#### Procedure Details

- **Perioperative care:** Please view our Pre- and Postoperative Care Sheet, which can be found at [www.criver.com/opcare](http://www.criver.com/opcare).
- **Housing:** The animals must be singly housed with adequate clearance to prevent cannula from coming in contact with the lid.
- **Diet:** No special diet is required.
- **Postoperative holding period:** At a minimum, post-op animals are held 2 days, with the majority of animals shipping within 7 days of surgery.
- **Maintenance:** Animals should be checked on arrival and daily to ensure security of the Rodent Cisterna Magna Cannula (RCMC). Incision wound clips should be removed 7-10 days after surgery.

#### Surgical Summary

The animal is placed in the stereotaxic apparatus and 2-3 anchoring screws are mounted on the skull. A hole is drilled in the occipital crest for receiving the cannula. The RCMC is

manually inserted through the hole and guided into position in the cisterna magna. A layer of powdered bone graft material is applied to affix the cannula and cover the exposed portion of the skull, and a small amount of bone graft liquid is applied to the powder. The catheter of the RCMC is subcutaneously tunneled caudally, exteriorized, and capped with a plug. The skin incision is closed with wound clips or per request.

#### IACUC

The Charles River Institutional Animal Care and Use Committee (IACUC) governs the entire surgical process, including all anesthesia, analgesia, animal preparation, and any postoperative holding in Charles River facilities prior to shipment. Review of experimental protocols, authorization to order animals that are surgically modified from Charles River, and all aspects concerning the use of the animals after they arrive at the institution are the responsibility of the receiving institution's IACUC.

#### Contact Us

For more information, visit [www.criver.com/surgery](http://www.criver.com/surgery). For specific surgery-related questions, please contact our technical experts at 1.877.CRIVER.1 (1.877.274.8371) or [askcharlesriver@crl.com](mailto:askcharlesriver@crl.com). To place an order or get a quote, contact our Customer Service Department at 1.800.LABRATS (1.800.522.7287).