



Spinal Nerve Ligation (SNL) Model

Surgery Code: CHUNG

The SNL (Chung) model is a tool to study pharmacotherapy for chronic neuropathic pain. This model is used to identify experimental compounds with analgesic properties that are palliative for chronic neuropathic pain. The surgical procedure involves ligation of the L5 and L6 spinal nerves to create peripheral pain.

Animal Models

Male and female rat models, typically 100-250 g; anatomy and/or physiological limitations may dictate choice of strain, age and weight.

Procedure Details

- **Perioperative care:** Please view our Pre- and Postoperative Care Sheet, which can be found at www.criver.com/opcare.
- **Housing:** The animals must be group housed with additional bedding.
- **Diet:** No special diet is required.
- **Postoperative holding period:** At a minimum, post-op animals are held 3 days, with the majority of animals shipping within 7 days of surgery.
- **Maintenance:** Incision wound clips should be removed 7-10 days after surgery.

Surgical Summary

A dorsal midline skin incision is made to expose the vertebrae. The L4 to L6 spinal nerves are exposed by removing the L6 transverse process. The L5 and L6 spinal

nerves are isolated from the surrounding tissue and are tightly ligated with a silk ligature. Fascia and muscle is closed using sutures. The skin incision is closed with wound clips.

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. For specific surgery-related questions, please contact our technical experts at 1.877.CRIVER.1 (1.877.274.8371) or askcharlesriver@crl.com. To place an order or get a quote, contact our Customer Service Department at 1.800.LABRATS (1.800.522.7287).