



Atherosclerosis Model of Endothelial Injury

Surgery Code: ATHERO-EMB

The atherosclerosis model of endothelial injury is of benefit to preclinical or research studies involving assessment of neointima formation and inflammatory responses related to atherosclerosis.

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, > 225 g for outbreds, > 250 g for inbreds.

Procedure Details

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

Surgical Summary

An incision is made on the ventral midline of the neck. A balloon tip catheter is passed from the external carotid artery into the left common carotid artery and stopped at the opening of the aortic arch. Once properly positioned,

the catheter bulb is inflated and the catheter is advanced and retracted multiple times to induce endothelial injury. 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 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).