



Portal Vein Catheter

Surgery Code: PORTVEIN

The portal vein catheter is of benefit to preclinical or research studies as it allows for easy and/or repeated access to the portal vein for both dosing and sampling, without the need for anesthesia. The procedure is designed principally for pharmacologic studies, but may also be used for basic physiology studies where dosing to and/or sampling from the liver is necessary.

Animal Models

Male and female rat models, typically > 200 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 singly 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 5 days of surgery.
- **Maintenance:** Incision wound clips should be removed 7-10 days after surgery. Any wound clip used to secure a catheter needs to be replaced every 7-10 days. Catheters should be maintained following the Charles River Handling Instructions, which can be found at www.criver.com/handling.

Surgical Summary

A ventral midline incision into the abdomen is made. A catheter is inserted into the mesenteric vein and advanced to the portal vein. The catheter is then tunneled subcutaneously to the dorsal incision, exteriorized in the scapular region and secured.

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 surgically-modified 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).