



# Telemetry Electroencephalograph + Electromyograph

Surgery Code: EEG/EMG

The telemetry electroencephalograph (EEG) plus electroencephalograph plus electromyograph (EMG) model is of benefit to preclinical or research studies by recording unbiased physiological responses that transmit wirelessly, providing better data on the body's reactions to drugs/compounds.

## 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  $\geq$  225 g
- Mice: male/female, any strain, weight  $\geq$  19 g
- Guinea pigs: male/female, any strain, weight  $\geq$  250 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 until suture/wound clips are removed.
- **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:** Wound clips should be removed 7-10 days after surgery.

## Surgical Summary

The body of the transmitter is placed subcutaneously on the dorsal flank. A set of EEG leads are tunneled

subcutaneously to the cranium, then placed into pre-drilled holes and secured with bone graft powder and liquid. A set of EMG leads are tunneled subcutaneously to the neck, then lead tips are secured in place on the muscle using monofilament suture. The body of the transmitter can be slipped into the abdominal cavity 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).