

## **GASTRIC (Stomach) CATHETERIZATION**

ORDER CODE: STOMCANN

SPECIES: Rat, Mouse

DIET SUPPLEMENT: None required

This procedure involves the surgical placement of a catheter in the stomach. Such a catheter will allow for direct injection of compounds into the stomach, and/or sampling of stomach fluids.

### **Surgical Procedure**

The animal is prepared for surgery using pre-operative and anesthetic procedures as described in our *Surgical Capabilities Reference Paper*, Vol. 13, No.1, 2005. A ventral midline incision into the abdomen is made with the cranial terminus at the level of the sternum. A second incision is made on the dorsum of the animal between the shoulder blades. This is where the catheter will be exteriorized. The ventral surgical field is draped, and the stomach is exteriorized through the midline incision. The non-glandular part of the stomach is identified. A purse string suture is placed in the non-glandular portion of the stomach. A small incision is made within the center of the purse string suture, into which a catheter is inserted. The purse string is then tightened around the catheter. Using dissection, a hole is made through the abdominal muscle and the catheter is passed through the hole. A stay suture is placed around the abdominal exit site. The abdominal incision is closed with silk suture. The catheter is tunneled subcutaneously and exits through the dorsal incision. The abdominal skin incision is closed with wound clips. A stay suture is placed at the exit site of the catheter. The cannula is locked with sterile saline and sealed with a plug. A dorsal subcutaneous skin pocket is made, and the excess cannula is tucked into the skin pocket. The dorsal skin incision is closed with a wound clip. The cannula is further secured using a wound clip to keep it from slipping into the body.

### **IACUC**

Charles River's Institutional Animal Care and Use Committee (IACUC) governs the entire surgical process, including any post-operative holding in CRL facilities prior to shipment. The receiving institution's Animal Care and Use Committee, investigators, and animal care staff are responsible for the well-being of the animal subsequent to its arrival at their institution. Justification for use of surgically-modified animals, 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.