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# UroMOCA and StimPod Implantation

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This protocol gives an overview of the surgical procedure to implant the UroMOCA and StimPods.

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## UroMOCA and StimPod Sevice Implantation

After surigical prep:

### UroMOCA implantation in bladder

- Remove fur from lower abdomen and lower back to base of tail with clippers
- Insert single lumen 3.5 Fr catheter
- Drape and disinfect lower abdomen
- Administer analgesic at injection site

- Incise lower abdomen, midline, to expose bladder
- Incise bladder dome
- Place UroMOCA device
- Close bladder incision and evaluate integrity
- Place sterile drape on abdomen for UroMOCA transmission coil
- Verify function of UroMOCA *in vivo*
- Close abdominal incision

### **StimPod implantation (2/animal)**

- Drape and disinfect lower back
- Administer analgesic at injection site
- Incise lower back, midline, to expose lumbosacral spinal cord
- Remove bone to expose sacral roots 1 and 2 left and right
- Place nerve cuff electrodes on sacral roots
- Place EMG electrode pairs in pelvic floor musculature and lower back musculature
- Verify function of StimPods in vivo
  - Power
  - Data transmission
  - Confirm motor response (visual and EMG) to sacral root stimulation on each nerve cuff electrode
- Close back incision
- Monitor animal until recumbent

