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Conscious Cystometry Bladder Function Testing

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Protocol status: Working

We use this protocol and it's working

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Abstract

Summary:

Cystometry is a test of bladder function in which pressure and volume of fluid in the bladder is measured during filling, storage, and voiding. A cystometry study is performed to diagnose problems with urination, including incontinence and urinary retention.

This test should be done on the mice two days after SPT Implantation.

Diabetic Complication:



Uropathy

Reference

1. Cannon TW, Damaser MS: Effects of anesthesia on cystometry and leak point pressure of the female rat. Life Sci 69:1193-1202, 2001

- 1 Use scissors to cut the sealed tube located between the animal's ears.
- 2 Attach the end of the tube not connected to the metabolic cage swivel device to the tube between the animal's ears.
- 3 Start the saline syringed filled pump (Kent Scientific Corporation, Torrington, CT, USA) to flush debris within the animal's tube for about 2 minutes.
- 4 Using the preset pump configurations (3 ml/hour) fill the bladder via a stopcock with room temperature saline and record bladder pressure by using a pressure transducer connected to an amplifier (BP-100, CB Sciences, USA) for a period of 2-5 hours.
- 5 Collect urine in a beaker mounted on a force transducer (FT-03 D, Grass Instrument Co, Quincy Massachusetts) placed beneath each cage.
- 6 The pressure and force transducers should be connected to a multi-port controller with software (Polyview, Grass Instrument Co, Quincy Massachusetts) to record data through the computer.