Conscious Cystometry Bladder Function Testing

Firouz Daneshgari

Case Western Reserve University

Diabetic Complications Consortium

Tech. support email: rmcindoe@augusta.edu

Lili Liang

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. 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.