



URINARY BLADDER FUNCTION IN CONSCIOUS ANIMALS

A MODEL OF NORMAL BLADDER FUNCTION

MODEL

Cystometry in conscious animals without compromised bladders.

Confounding factors due to anesthetics and bladder manipulation which can complicate interpretation of results are avoided in this model.

SPECIES

Rat, mouse, guinea-pig

INTEREST

- This model is suitable for testing the effects of compounds on the entire micturition system.
- Cardiovascular parameters can be monitored simultaneously to verify functional uroselectivity.

MODEL DESCRIPTION

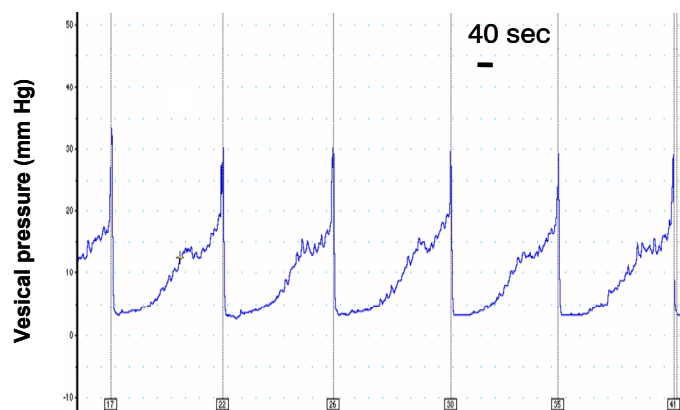
- Cystometry during continuous infusion of intravesical saline.
- Test compounds can be administered *via* various routes (i.v., i.p., p.o., s.c. or by osmotic pumps) and cystometric parameters evaluated for up to two hours post-administration.

PARAMETERS EVALUATED

- Bladder capacity
- Intercontraction intervals during cystometry
- Micturition pressure
- Micturition volume
- Basal intravesical pressure
- Threshold pressure for micturition

SCIENTIFIC PUBLICATIONS

- Matsuura S and Downie JW, *Neurourol Urodyn* **19**: 87-99, 2000
- Lluel P et al, *Neurourol Urodyn* **21**: 142-53, 2002
- Lluel P et al, *J Urol* **160**: 2253-57, 1998



Cystometry in a conscious normal rat.