



Urethral pressure measurements

A MODEL FOR STRESS OR MIXED URINARY INCONTINENCE

Model

Measurement of urethral pressure in conscious or anesthetized animals.

Interest

- This model is suitable for testing compounds for effects on urethral pressure.
- Compounds that produce effects on this experimental model include α 1-adrenoceptor agonists and monoamine re-uptake inhibitors as duloxetine.

Species

- Rat
- Guinea-pig

Model Description

- Urethral pressure is recorded.
- Test compounds are administered via various routes (i.v., p.o., i.g., s.c. or i.p.) and parameters are measured for up to two hours post-administration.

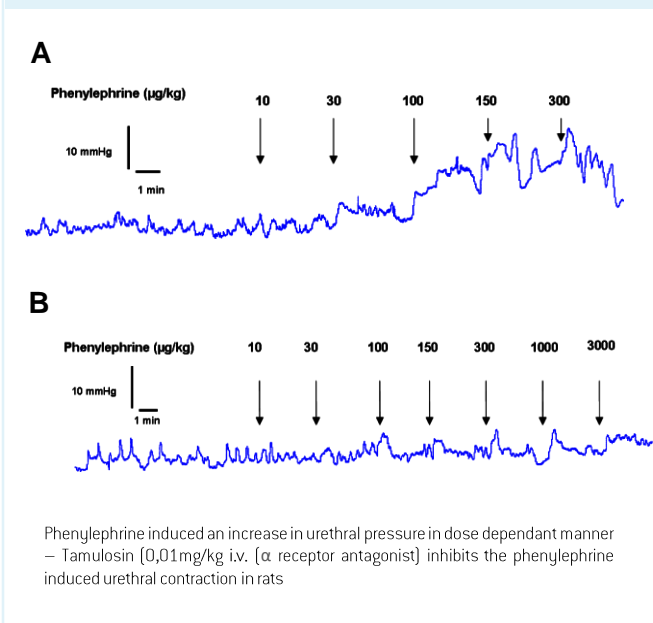
Parameters evaluated

- Urethral pressure
- Arterial blood pressure (on request)

Scientific publications

- Lluel P *et al.*, NeuroUrol. Urodyn. 26: 674, 2007
- O'Neill A *et al.*, Life Sci. 70: 181-97, 2001
- Akiyama *et al.*, JPET 291: 81-91, 1999
- Martin *et al.*, J Pharmacol Exp Ther 282: 228-35, 1997

Typical urethral pressure recording during phenylephrine treatment in (A) saline or (B) tamsulosin – treated rats.



Variation of urethral pressure

