

Acetic acid evokes bladder irritant responses, in particular through C-fibers, thus mimicking the increased sensory activity, which occurs in overactive bladder and urge incontinence. This model is useful for a quick investigation of the effect of drugs known to act on either C-fiber afferents or bladder smooth muscle.

Pathophysiological features

Cystometrogram displays

- Increased micturition pressure and frequency
- Decreased pressure thresholds eliciting bladder contraction, bladder capacity and voided volume.

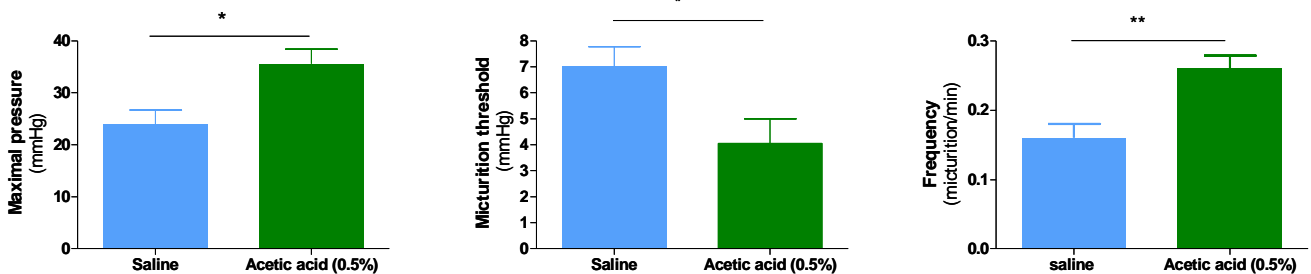
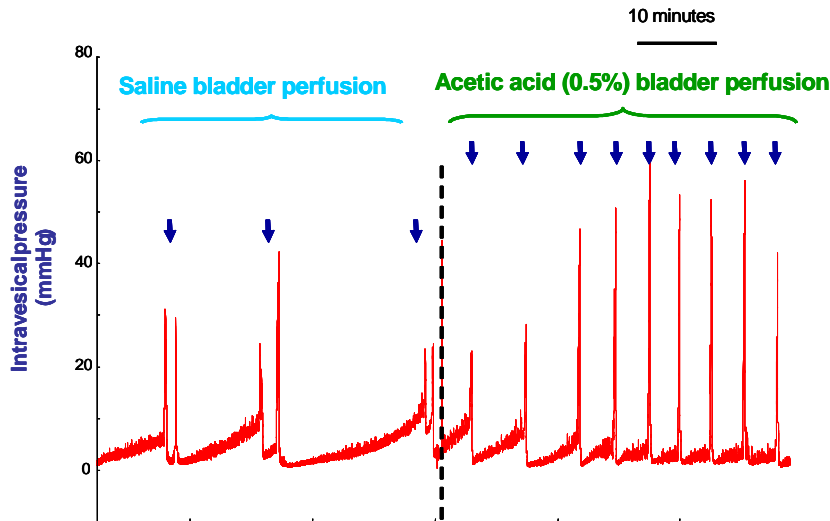


Figure 1: Representative cystometrograms showing the effect of acetic acid-induced bladder hyperactivity in anesthetized female rat. Arrows indicate the voiding contractions. (Pelvipharm, internal data)

Related Pelvipharm bibliography:

Non disclosable information for confidentiality reasons.

NB: Pelvipharm will gladly study the feasibility to fit this experimental model to its client's needs.