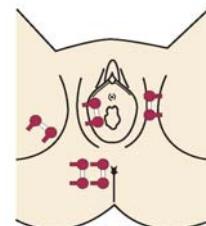


# Painless

## Urethral, Bladder, Vaginal, Rectal Pelvic Sensory Evaluation ...

Trauma, Pelvic Pain, Painful Bladder Syndrome  
Diabetic Bladder Dysfunction, Urinary Incontinence  
Autonomic Sensory Function , Overactive Bladder  
Endometriosis, Reflex Incontinence, LUT Dysfunction  
Sexual Health, Pharmaceutical Effects, Rat Bladder Function  
Experimental catheter electrodes are available for research.

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(positioning balloon inflated)



Bladdertrode™



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Vaginal/Rectal G-Trode™



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## Urologic & Gynecologic Neurometer® Related Papers

(Please visit [www.neurometer.com](http://www.neurometer.com) for a comprehensive bibliography)

1. Lee, W-C., Wu ,H-P, Tai, T-Y, Yu, H-J, Chiang, P-H. Investigation of Urodynamic Characteristics and Bladder Sensory Function in the Early Stages of Diabetic Bladder Dysfunction in Women With Type 2 Diabetes. *Journal of Urology*. Vol. 181, 198-203, 2009.
2. Moore, C-K, McAchran, S, Daneshgari, F. Current Perception Thresholds of the Female Genitalia in Sexually Active Females. *American Urological Association meeting*, Poster 1384, 2008.
3. Pesce, F., Chronic Pelvic Pain Syndrome: a practical clinical approach (52). *Pelviperineology* Vol. 27 (2), 2008.
4. Gater, L Tolterodine Causes Measurable Restoration of Urethral Sensation in Women With Urge Urinary Incontinence. *American Urogynecologic (AUGS)*, Society 29th Annual Scientific Meeting, Paper 56, 2008.
5. Abouassaly, R., Liu, G., Yamada, Y., Ukimura, O., Daneshgari, F. Efficacy of a Novel Device for Assessment of Autonomic Sensory Function in the Rat Bladder. *Journal of Urology*. Vol. 179(3):1167-1172, 2008.
6. Moore, C. Studying Female Sexual Dysfunction and the Impact of Overactive Bladder Female Sexual Health. *Urology News*, 2007-2008.
7. Kenton, K., Simmons, J, FitzGerald, M.P., Lowenstein L., Brubaker L. Urethral and Bladder Current Perception Thresholds: Normative Data in Women. *The Journal of Urology*. Vol. 178(1):189-192, 2007.
8. Yamada, Y, Daneshgari, F., Liu, G., Li, N. Spinal c-fos expression induced by neuroselective electrostimulation of bladder afferent pathways. *Society for Neuroscience*, 821.2/FF17, 2007.
9. Kenton, K., Lowenstein, L., Simmons, J, Brubaker, L. Aging and Overactive Bladder May Be Associated With Loss of Urethral Sensation in Women. *Neurourology and Urodynamics*, Vol. 26:981B984, 2007.
10. De Laet, K., De Wachter, S, Wyndaele, J. Current perception thresholds in the lower urinary tract: Sine- and square-wave currents studied in young healthy volunteers. *Neurourology and Urodynamics*. Vol. 24:261-266, 2005.
11. FitzGerald MP, Koch D, Senka J. Visceral and cutaneous sensory testing in patients with painful bladder syndrome. *Neurourol Urodyn*. Vol. 24(7):627-632, 2005.
12. Yokoyama, T., Nozaki, K., Fujita, O., Nose, H., Inoue, M., Kumon, H. Role of C afferent fibers and monitoring of intravesical resiniferatoxin therapy for patients with idiopathic detrusor overactivity. *Journal of Urology*, Vol. 172(2):596-600, 2004.
13. Ukimura, O., Ushijima, S., Honjo, H., Iwata, T., Suzuki, K., Mizutani, Y., Kawauchi, A., Miki, T. Neuroselective Current Perception Threshold Evaluation of Bladder Mucosal Sensory Function. *European Urology*, Vol. 45(1):70-76, 2004.
14. Honjo, H., Ukimura, O., Ushijima, S., Iwata, T., Suzuki, K., Hirahara, N., Kitakoji, H., Nakao, M., Miki, T. Acupuncture for Treatment of Patients with Overactive Bladder Refractory to Conventional Pharmacotherapy. *Neurourology and Urodynamics*. Vol. 23, Issue 5:510, 2004.  
<http://www.icsoffice.org/publications/2004/PDF/0510.PDF>
15. Hirahara, N., Ukimura, O., Honjo, H., Ushijima, S., Iwata, T., Suzuki, K., Matsubara, H., Miki, T. The quantitative bladder sensory test: Evaluation of the neuroselective current perception threshold of the bladder sensory to identify patients with overactive bladder associated with sensory dysfunction. *Neurourology and Urodynamics*. Vol. 23, Issue 5:503, 2004.  
<http://www.icsoffice.org/publications/2004/PDF/0503.PDF>
16. Healey, M, Rice G., Westerman R. Does Endometriosis Pain Alter Sensation Perception?, *Australian Gynecologic Endoscopy Society(AGES) Free Communications*. (A) 1130-1340, 2003.
17. Simmons, J., Kenton, K., FitzGerald, M. P., Brubaker, L. Current Perception Threshold (CPT) Measurements of the Urethra and Bladder in Asymptomatic Women. *Journal of Pelvic Medicine and Surgery*. Vol. 9(5):258, 2003.
18. Ushijima, S., Ukimura, O., Honjo, H., Miki, T. Observer Reproducibility in Quantitative Measurement of the Current Perception Threshold (CPT) on Bladder Sensory Function Using a Neurometer. *International Continence Society*, 476, 2003.  
<http://www.icsoffice.org/publications/2003/PDF/476.PDF>
19. Honjo, H., Ukimura, O., Ushijima, S., Suzuki, K., Inaba, M., Iwata, T., Kitakoji, H., Miki, T. Selection of Candidate for Acupuncture treatment of Urinary Incontinence Determined by Neurometer to Measure Current Perception Threshold in the Bladder. *International Continence Society*, 460, 2003.
20. Kenton, K., Fuller, E., Benson, J.T. Current perception threshold evaluation of the female urethra. *Int Urogynecol J Pelvic Floor Dysfunct*. Vol. 14(2):133-5, 2003.
21. Ushijima, S., Ukimura, O., Miki, T., Iwata, T., Inaba, M.; Honjo, H. The Neurometer as an instrument for appropriate selection and monitoring of intravesical resiniferatoxin therapy for patients with detrusor hyperreflexia. *Neurourology and Urodynamics*, Vol. 21(4):333-334, 2002.
22. Neal, G.W. Neuromodulation of Genital Sensory Thresholds in Normal Women. Annual meeting of the *International Society for the Study of Women's Sexual Health*, Vancouver, 2002.
23. Neal, G.W. Effects of Clitoral Application of Alprostadil and Dinoprostone Quantitative Sensory Testing. Annual meeting of the *International Society for the Study of Women's Sexual Health*, Vancouver, 2002.
24. Ukimura, O., Iwata, T., Inaba, M., Honjo, H., Kawauchi, A., Kojima, M.; Miki, T. Quantitative measurement of urinary sensory function assessed by current perception threshold in the bladder using a Neurometer®. *Neurourology and Urodynamics*, Vol. 20 (Part 4):121, 2001.
25. Ukimura, O., Miki, T., Kawauchi, A., Iwata, T., Iwata, M., Honjo, H. Preliminary results of quantitative measurement of urinary sensory function assessed by current perception threshold in the bladder. *Journal of Urology*, Vol. 165(5 Suppl.):299, 2001.
26. Kenton, K., Fuller, E. M., Benson, J.T. Current Perception Threshold Evaluation of the Female Lower Urinary Tract, *Muscle & Nerve*, Vol. 23(10): 1628-1629, 2000.
27. Katims, J.J., Engel, R.M.E., Hendler, N., Scally, A., Widdifield, J.F., Widdifield, G.E. Electrodiagnostic Evaluation of Penile Pudendal Nerve Sensory Function. *Clinical Neurophysiology*, Vol. 110, Supplement 1:PS-2.15:S99, 1999.