

## CT3000 non-invasive bladder pressure publications

### Peer-reviewed publications

Predicting the Outcome of Prostatectomy Using Noninvasive Bladder Pressure and Urine Flow Measurements. *European Urology*, Volume 52, Issue 1, Pages 186-192 C. Harding, W. Robson, M. Drinnan, M. Sajeel, P. Ramsden, C. Griffiths, R. Pickard

Belal M, Abrams P. Noninvasive methods of diagnosing bladder outlet obstruction in men, part 2: non-invasive urodynamics and combination of measures. *J Urol* 2006;176:29–35.

Griffiths CJ, Harding C, Blake C, McIntosh S, Drinnan MJ, Robson WA, Abrams P, Ramsden PD, Pickard RS. A nomogram to classify men with lower urinary tract symptoms using urine flow and noninvasive measurement of bladder pressure. *J Urol*. 2005 Oct;174(4 Pt 1):1323-6; discussion 1326; author reply 1326.

Griffiths C, Drinnan M, Harding C, Robson W, Ramsden P, Pickard R. Comparison of invasive and non-invasive bladder pressure measurements by calculation of the bladder outlet obstruction index (BOOI) *Neurourol Urodynamics* vol 24, number 5/6, 2005 pages 529 – 531

Harding C, Robson W, Genner S, Drinnan M, Ramsden P, Griffiths C, Piackard R Change in Bladder contraction strength following TURP. *Neurourol Urodynamics* vol 24, number 5/6, 2005 pages 529 - 531

McIntosh SL, Drinnan MJ, Griffiths CJ, Robson WR, Ramsden PD, Pickard RS. Non-invasive assessment of bladder contractility in men. *J Urol* 2004; 172: 1394-1398

Harding CK, Robson WR, Drinnan MJ, Griffiths CJ, Ramsden PD, Pickard RS. An Automated penile compression release manoeuvre as a non-invasive test for diagnosis of bladder outlet obstruction. *J Urol* 2004; 172: 2312-2315.

Blake C, Abrams P. Non-invasive techniques for the measurement of isovolumetric bladder pressure. *J Urol* 2004; 171: 12-19

McIntosh SL, Griffiths CJ, Drinnan MJ, Robson WA, Ramsden PD, Pickard RS. Non-invasive measurement of bladder pressure: does mechanical interruption of the urine stream inhibit detrusor contraction? *J Urol* 2003; 169; 1003-06.

McIntosh SL, Griffiths CJ, Drinnan MJ, Robson WA, Ramsden PD, Pickard RS. The relationship of abdominal pressure and body mass index in men with LUTS. *Neurourol Urodynamics* 2003; 22: 602-605.

Drinnan MJ, McIntosh SL, Robson WA, Pickard RS, Ramsden PD, Griffiths CJ. Inter-observer agreement in the estimation of bladder pressure using a penile cuff. *Neurourol Urodynamics* 2003; 22: 296-300.

Drinnan MJ, Pickard RS, Ramsden PD, Griffiths CJ. Assessment of prostatic obstruction - a cuff may be enough. *Neurourol Urodynamics* 2003; 22: 40-43.

Griffiths CJ, Rix D, MacDonald A, Reddy M, Drinnan MJ, Pickard RS, Ramsden PD. Non-invasive measurement of bladder pressure using controlled inflation of a penile cuff: comparison with simultaneous invasive measurements in patients and volunteers. *J Urology* 2002; 167: 1344-47.

Drinnan MJ, Robson W, Reddy M, Pickard RS, Ramsden PD, Griffiths CJ. Transmission of penile cuff pressure to the penile urethra. *J Urology* 2001; 166: 2545-49.

Griffiths C, Pickard R, Tuckey J, Thomas D, Davies J, Ramsden P. A new method for noninvasive measurement of voiding pressures? Assessment of penile cuff occlusion. *Neurol Urodyn* 1999; 18: 256-7

McRae LP, Bottaccini MR, Gleason DM. Noninvasive quantitative method for measuring isovolumetric bladder pressure and urethral resistance in male: I. Experimental validation of theory. *Neurol Urodyn* 1995; 14: 101-4.

### **Conference presentations with published abstracts**

American Urological Association, Chicago, April 2003. McIntosh SL, Pickard RS, Drinnan MJ, Robson WA, Ramsden PD, Griffiths CJ. Non-invasive assessment of detrusor hypocontractility. *J Urol* 2003; 169 (supp) p404.

International Continence Society, Florence, October 2003. Griffiths C, Blake C, Harding C, McIntosh S, Drinnan MJ, Robson W, Pickard R, Abrams P, Ramsden P. Non-invasive bladder pressure: the case for using a modified ICS nomogram. *Neurol Urodyn* 2003; 22: 367-68.

International Continence Society, Florence, October 2003. Harding C, McIntosh S, Robson W, Ramsden P, Drinnan MJ, Griffiths CJ, Pickard R. Validation of the penile compression-release manoeuvre for non-invasive diagnosis of bladder outflow obstruction. *Neurol Urodyn* 2003; 22: 369-70.

British Association of Urological Surgeons, Glasgow, June 2002. McIntosh SL, Drinnan MJ, Pickard RS, Ramsden PD, Robson WA, Griffiths CJ. The assessment of bladder contractility in men with LUTS by non-invasive measurement of bladder pressure.

International Continence Society, Seoul, September 2001. Drinnan MJ, Johnston A, Macdonald A, Robson W, Pickard R, Ramsden P, Griffiths C. Comparison of bladder pressure, urethral pressure and cuff pressure during interruption of flow by inflation of a penile cuff. *Neurol Urodyn* 2001; 20: 384-5.

International Continence Society, Seoul, September 2001. McIntosh SL, Drinnan MJ, Robson WA, Ramsden PD, Griffiths CJ, Pickard RS. Non-invasive bladder pressure monitoring – how does interrupting the urinary stream affect intra-vesical pressure? *Neurol Urodyn* 2001; 20: 382-4.

British Association of Urological Surgeons, Dublin, June 2001. Drinnan MJ, Johnston A, Macdonald A, Robson W, Pickard R, Ramsden P, Griffiths C. Comparison of bladder pressure, urethral pressure and cuff pressure during interruption of flow by inflation of a penile cuff. *Br J Urology* 2001; 88 (supp 1): p156.

British Association of Urological Surgeons, Dublin, June 2001. Griffiths CJ, Rix D, MacDonald A, Robson W, Kelly L, Reddy M, Drinnan MJ, Pickard RS, Ramsden PD. Can non-invasive bladder measurements identify men with bladder outflow obstruction? *Br J Urology* 2001; 88(supp 1): p155.

International Continence Society, Tampere, August 2000. Drinnan MJ, Pickard RS, Ramsden PD, Reddy M, MacDonald A, Robson W, Hewart P, Griffiths CJ. An experimental model reproducing the response of urine flow rate to penile cuff pressure observed in man. *Neurourol Urodyn* 2000; 19: 486-7.

International Continence Society, Tampere, August 2000. Griffiths CJ, Rix D, MacDonald A, Robson W, Kelly L, Reddy M, Drinnan MJ, Pickard RS, Ramsden PD. Can non-invasive bladder measurements identify men with bladder outflow obstruction? *Neurourol Urodyn* 2000; 19: 429-30.

### **Other conference presentations and posters**

Robson W, Walia D, Harding C, et al. A questionnaire study of patients' experience during non-invasive urodynamics. Presented at ICS 2005 as a non-discussion poster. Available at URL: <http://www.icsoffice.org/publication/2005/PDF/0373.pdf>. Accessed 22 September 2006.

International Continence Society, Montreal 2005. Comparison of invasive and non-invasive bladder pressure measurements by calculation of the bladder outlet obstruction index (BOOI) Griffiths C, Drinnan M, Harding C, Robson W, Ramsden P, Pickard R.

International Continence Society, Montreal 2005. Change in Bladder contraction strength following TURP. Harding C, Robson W, Genner S, Drinnan M, Ramsden P, Griffiths C, Piackard R.

International Continence Society, Montreal 2005. A non-invasive method for the measurement of urethral opening pressures. Blake C, Bevan W, Hassine A, Baldry L, Abrams P.

International Continence Society, Montreal 2005. The penile compression-release index is sensitive to change following a prostatectomy. Harding C, Robson W, Drinnan M, Ramsden P, Griffiths C, Pickard R.

International Continence Society, Montreal 2005. A questionnaire study of patients' experience during non-invasive Urodynamics. Robson W, Walia D, Harding C, Griffiths C, Drinnan M, Ramsden P, Piackard R.

Incontinence: the engineering challenge, Institute of Mechanical Engineers, London, October 2003. Drinnan MJ, Griffiths CJ. Assessment of prostatic obstruction - a cuff is enough. [Invited paper]

International Continence Society, Florence, October 2003. Drinnan MJ, McIntosh S, Robson W, Harding C, Pickard R, Ramsden P, Griffiths CJ. Inter-observer agreement in the interpretation of pressure-flow cystometry.

Institute of Physics and Engineering in Medicine, Bath, September 2003. Drinnan MJ, Brown J, Ramsden PD, Pickard R, Griffiths CJ. Non-invasive estimation of bladder pressure using a penile cuff technique.

International Continence Society, Florence, October 2003. Robson WA, Drinnan MJ, Griffiths CJ, Pickard RS, Ramsden P. Non-invasive urodynamic testing in the clinical setting. [video]

International Continence Society, Florence, October 2003. Brown J, Harding C, Drinnan MJ, McIntosh S, Robson W, Pickard R, Ramsden P, Griffiths CJ. Does the presence of a urethral catheter affect pressure-flow parameters measured non-invasively by the penile cuff technique?

International Continence Society, Heidelberg, August 2002. Drinnan MJ, McIntosh SL, Robson WA, Pickard RS, Ramsden PD, Griffiths CJ. Inter-observer agreement in the estimation of bladder pressure using a penile cuff.

International Continence Society, Heidelberg, August 2002. McIntosh SL, Drinnan MJ, Pickard RS, Robson WA, Ramsden PD, Griffiths CJ. Non-invasive estimation of bladder pressure using an automated penile cuff technique.

International Continence Society, Heidelberg, August 2002. McIntosh SL, Pickard RS, Drinnan MJ, Robson WA, Ramsden PD, Griffiths CJ. Non-invasive measurement of bladder pressure: minimum voided volume and test/re-test reproducibility.

International Continence Society, Heidelberg, August 2002. Robson W, McIntosh S, Drinnan MJ, Pickard RS, Ramsden PD, Griffiths CJ. Patient acceptability of a non-invasive bladder pressure measurement technique.

Urology Research Society, London, January 2002. McIntosh SL, Pickard RS, Drinnan MJ, Ramsden PD, Robson WA, Macdonald AM, Griffiths CJ. Non-invasive measurement of bladder pressure using an inflatable cuff.

British Urology Club, Newcastle, November 2000. Drinnan MJ, MacDonald A, Johnston A, Pickard RS, Ramsden PD, Griffiths CJ. An experimental model reproducing the response of urine flow rate to penile cuff pressure observed in man.

### **Other resource material**

BAUS 2004, Harrogate, UK Griffiths CJ, Drinnan MJ, Harding CK, Robson WR, Pickard RS, Ramsden PD, Blake C, Abrams P. Urodynamic Classification of Men with LUTS Using a Non-invasive Pressure-flow Nomogram.

BAUS 2004, Harrogate, UK Harding CK, Robson WR, Drinnan MJ, Griffiths CJ, Ramsden PD, Pickard RS. Is Non-invasive Cystometry Predictive of Outcome And Sensitive to Change Following Prostatectomy?

Harding CK, Robson WR, Drinnan MJ, Griffiths CJ, Ramsden PD, Pickard RS. Variation of invasive and non-invasive measurements of isovolumetric bladder pressure according to bladder volume. ICS 2004, Paris, France

International Continence Society, Paris, 2004 Belal M, Blake C, Harding C, McIntosh S, Griffiths C, Robson W, Drinnan M, Ramsden P, Pickard R, Abrams P Detrusor contractility is greater in male patients with detrusor overactivity.