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ATP release during cystometry in women with detrusor overactivity and painful bladder syndrome: contribution to 'urgency'?

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RESEARCH ONLINE

ATP release during cystometry in women with detrusor overactivity and painful bladder syndrome: contribution to 'urgency'?

Abstract
ATP is an important signalling molecule whose release from the bladder urothelium in response to stretch is thought to stimulate afferent nerves and thus convey information about bladder fullness (and the sensation of urgency). Our aim was to measure the release of ATP during urodynamic filling of bladders of women with idiopathic detrusor overactivity (DO), painful bladder syndrome (PBS) and stress incontinence (controls), in order to test the hypothesis that ATP release might play a role in bladder function and/or dysfunction.

Keywords
cystometry, during, atp, release, women, contribution, urgency, detrusor, overactivity, painful, bladder, syndrome

Disciplines
Medicine and Health Sciences

Authors
Elizabeth Burcher, Kylie J. Mansfield, W Allan, C Walsh, Kate H. Moore, and Ying Cheng

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07:30 - 08:30 **Satellite Symposium Sponsored by Ferring International**
Location: Hall B

08:00 - 08:30 **Welcome to the ICS**
Location: Room 2007

08:30 - 09:00 **Opening Ceremony**
Location: Hall A

09:00 - 10:30 **Session 1 (Podium) - Surgery for Stress Incontinence**
Location: Hall A
Chairs: Mark C Slack (United Kingdom), Mary P Fitzgerald (United States)

09:00 1 WOMEN'S EXPERIENCES OF STRESS INCONTINENCE SURGERY
Loane K, Toozs-Hobson P, Hicks C

09:15 2 PROCEDURE SPECIFIC CONSENT FORMS IMPROVE THE PROCESS OF INFORMED CONSENT IN PATIENTS UNDERGOING SURGERY FOR STRESS INCONTINENCE BY UROLOGISTS
Sinclair A, Kujawa M, Thompson A

09:30 3 RESULT FROM A NATIONAL INCONTINENCE REGISTRY: TVT IS A BETTER SURGICAL PROCEDURE FOR TREATING STRESS INCONTINENCE, COMPARED TO TVT-O AND TOT
Kulseng-Hanssen S, Dyrkorn O A, Sandvik L

09:45 4 RETROPUBIC TVT VS TRANSOBTURATOR OUTSIDE-IN TOT AND INSIDE-OUT TVT-O – ONE-YEAR RESULTS FROM OUR PROSPECTIVE RANDOMIZED STUDY
Scheiner D, Betschart C, Werder H, Fink D, Perucchini D

10:00 5 A PROSPECTIVE MULTICENTER RANDOMIZED STUDY OF 'U' AND 'H' APPROACH OF TVT-SECUR PROCEDURE FOR THE TREATMENT OF FEMALE STRESS URINARY INCONTINENCE: ONE-YEAR FOLLOW-UP
Lee K, Lee Y, Seo J T, Na Y G, Seo J H, Lee J G, Choo M, Kim J C, Yoon J M, Kim D Y, Yoo E S, Lee J Z

10:15 6 PRE AND POST-OPERATIVE PREDICTORS OF SATISFACTION FOLLOWING SURGICAL TREATMENT OF STRESS URINARY INCONTINENCE
Trabuco E, Klingele C, McGree M, Gebhart J

10:30 - 11:00 **Coffee Break / Poster & Video Viewing / Exhibition**

10:30 - 11:00 **ICS Press Conference**
Location: Press Centre

11:00 - 11:30 **State of the Art 1: Pelvic Floor Biomechanics: Imaging, Modelling, Insight and Change**
Location: Hall A
Chair: Karl Kreder (United States)
Speaker: John O. L. DeLancey (United States)

11:30 - 12:30 **Session 2 (Podium) - Pelvic Organ Prolapse**
Location: Hall A
Chairs: Linda Brubaker (United States), Douglas Gordon Tincello (United Kingdom)

11:30 7 DEFINING "SUCCESS" AFTER SURGERY FOR PELVIC ORGAN PROLAPSE
Barber M, Brubaker L, Nygaard I, Wheeler T, Schaffer J, Chen Z, Spino C

11:45 8 DO OAB SYMPTOMS IMPROVE AFTER SURGERY FOR POP?
de Boer T, Vierhout M

12:00 9 COMPLICATIONS OF MESH KITS FOR PELVIC ORGAN PROLAPSE: A REVIEW OF MANUFACTURER AND USER FACILITY DEVICE EXPERIENCE (MAUDE) DATABASES
Ismail S

12:15 10 A RANDOMIZED CONTROLLED TRIAL ON PROPHYLACTIC ANTIBIOTICS AND PELVIC ORGAN PROLAPSE SURGERY
Weincke M O, Sakse A E, Olsen T, Troelstrup A, Westh B

11:30 - 12:30 **Session 3 (Podium) - Neurourology I**
Location: Hall B
Chairs: Clare Juliet Fowler (United Kingdom), Sender Herschorn (Canada)

11:30 11 THE EFFECT OF ACUTE AND CHRONIC STRESS AND ANXIETY-LIKE BEHAVIOUR ON BLADDER MOTOR AND SENSORY FUNCTION
Smith A L, Leung J, Harper S K, Zhang R, Raz S, Rodriguez L V

11:45 12 URETHRAL NEUROMUSCULAR INJURY FOLLOWING SIMULATED CHILDBIRTH INJURY IN A RAT MODEL
Kong W, Lin D, Kinley B, Kerns J, Damaser M

12:00 13 NORADRENERGIC REGULATION OF MOTONEURONS INNERVATING THE URETHRAL SPHINCTER
Yashiro K, Thor K, Burgard E

12:15 14 PUDENDAL NERVE STIMULATION IS A VIABLE ALTERNATIVE TO SACRAL NERVE STIMULATION FOR VOIDING DYSFUNCTION
Peters K, Killinger K, Boguslawski B

12:30 - 12:35 **Promotion ICS/IUGA 2010 Toronto**
Location: Hall A
Chairs: Harold P Drutz (Canada), Sender Herschorn (Canada)

12:35 - 13:30 **Lunch Break / Poster & Video Viewing / Exhibition**

12:35 - 13:30 **ICS Meetings Committee**
Location: Meeting Room 2

12:35 - 13:30 **Meet the Experts 1: Pelvic Prolapse and Pelvic Reconstruction**
Location: Room 2002
Experts: Linda Cardozo (United Kingdom), Christopher R Chapple (United Kingdom)

12:35 - 13:30 **Meet the Experts 2: Physiotherapy and Faecal Incontinence**
Location: Room 2002
Experts: Kari Bø (Norway), Christine Norton (United Kingdom)

13:30 - 15:30 **Session 4 (Podium Video) - Videos - Surgical Techniques I**
Location: Hall A
Chairs: Sigurd Kulseng-Hanssen (Norway), Ann Gormley (United States)

13:30 15 TRANSRECTALTRANSSPHINCTERIC REPAIR OF RECTOURINARY FISTULA WITH DARTOS FLAP
Kim J, Smith A L, Baxter C, Staack A, Raz S

13:40 16 ADVANTAGES ON URINARY CONTINENCE USING THE CAPIO RP SUTURING DEVICE FOR VESICO-URETHRAL ANASTOMOSIS AFTER RADICAL RETROPUBIC PROSTATECTOMY
Perugia G, Teodonio S, Di Viccaro D, Bova G, Balla J, Zanza C, Chinazzi A, Liberti M

13:50 17 THE ADJUSTABLE MALE SLING CAN BE SUCCESSFULLY IMPLANTED BY TRANSOBTURATOR APPROACH FOR TREATING POST-PROSTATECTOMY URINARY INCONTINENCE. SURGICAL TECHNIQUE AND EARLY RESULTS OF A MULTICENTER TRIAL
Romano S V, Hubner W, Trigo Rocha F, Muller V, Nakamura F

14:00 18 OPTIMIZING RESULTS OF SUBURETHRAL SLING OPERATIONS AMONG MALES USING SUBURETHRAL HYALURONIC ACID INJECTIONS
Neymeyer J, Abdul-Wahab Al-Ansari W, Wei Long L, Gang L, Kassin S, Beer M

14:10 19 TRANSPOSITION OF DISTAL URETHRA IN FEMALE PATIENTS WITH RECURRENT LOWER UTI ASSOCIATED WITH SEXUAL INTERCOURSE
Pushkar D, Sumerova N, Dyakov V, Gvozdev M

14:20 20 SUPRAMEATAL URETHROLYSIS WITH MARTIUS FLAP
Smith A L, Kim J, Staack A, Baxter C, Rodriguez L V, Raz S

14:30 21 URETHROVAGINAL FISTULA REPAIR WITH MARTIUS FLAP
Smith A L, Kim J, Staack A, Baxter C, Rodriguez L V, Raz S

14:40 22 SINGLE-PORT TRANSVESICAL EXCISION OF FOREIGN BODIES
Ingber M, Firoozi F, Goldman H, Moore C, Vasavada S, Rackley R

14:50 23 SURGICAL PROCEDURE WITH LOCAL ANESTHESIA FOR THE TREATMENT OF STRESS URINARY INCONTINENCE: A SINGLE INCISION TOT
Baya G, Janin P, Navazo R

15:00 24 ROBOTIC-ASSISTED LAPAROSCOPIC RETROPUBIC URETHROLYSIS FOR INTRADETRUSOR TVT SLING
Gilleran J, Lowe G

15:10 25 SOLYX SIS SYSTEM: PROCEDURAL VIDEO
Serels S

15:20 26 NOVEL RECTUS CROSSOVER FOR ENHANCED CONTINENCE OF CATHETERIZABLE URINARY DIVERSION
Baxter Z, Kim J, Smith A L, Staack A, Rodriguez L V, Raz S

13:30 - 15:30 **Session 5 (Poster) - Neurourology (Clinical)**
Location: Hall B
Chairs: John P Lavelle (United States), John PFA Heesakkers (Netherlands)

14:10 27 ASSOCIATION BETWEEN STIMULATION PARAMETERS AT THE TIME OF IMPLANTATION OF SACRAL NERVE STIMULATOR AND EXPLANTATION AFTER SUCCESSFUL IMPLANTATION
Ghazwani Y, Elkelini M, Hassouna M

14:15 28 PATIENT AGE PREDICTS SUCCESS IN PATIENTS UNDERGOING SACRAL NEUROMODULATION FOR VOIDING DYSFUNCTION
Powell C, Takacs E, Kreder K

14:20 29 RESULTS OF SACRAL NERVE MODULATION FOR THE TREATMENT OF BLADDER DYSFUNCTIONS IN MULTIPLE SCLEROSIS PATIENTS
Andretta E, Ostardo E, Simeone C, Signorello D, Pastorello M, Campo C, Limido L, Bastianello P

14:25 30 IMPACT OF CONVENIENCE VOID IN BLADDER DIARY WHICH INVOLVES SELF-REPORTED URINARY PERCEPTION TO ASSESS BLADDER SENSITIVITY
Honjo H, Ukimura O, Kawauchi A, Kitakoji H, Nakao M, Miki T

14:30 31 ATTITUDES OF WOMEN WITH MULTIPLE SCLEROSIS WHEN QUESTIONED ABOUT GENITAL TOUCHING AND CONTINENCE DEVICE PLACEMENT
McClurg D, Hagen S

14:35 32 THE POSSIBLE ROLE OF OPIATES IN WOMEN WITH URINARY RETENTION- OBSERVATIONS FROM A PROSPECTIVE CLINICAL STUDY
Panicker J, Khan S, Kessler T, Gonzales G, Haslam C, Elneil S, Fowler C

14:40 33 EFFICACY OF BOTULINUM TOXIN A INJECTION FOR NEUROGENIC DETRUSOR OVERACTIVITY AND URINARY INCONTINENCE – A RANDOMIZED DOUBLE-BLIND TRIAL
Herschorn S, Gajewski J, Ethans K, Corcos J, Carlson K, Bailly G, Bard R, Valiquette L, Baverstock R, Radomski S, Carr L

14:45 34 CAN 100 UNITS OF BOTULINUM TOXIN A PRESERVE THE ABILITY OF VOLUNTARY VOIDING AND IMPROVE OVERACTIVE BLADDER SYMPTOMS IN PATIENTS SUFFERING FROM MULTIPLE SCLEROSIS?
Birzele J, Mehnert U, Reuter K, Schurch B

14:50 35 EFFECTS OF REPEATED BOTULINUM TOXIN A INJECTION THERAPY IN PATIENTS WITH SYMPTHOMATIC NEUROGENIC DETRUSOR OVERACTIVITY – A 3-YEAR FOLLOW UP
Malmberg L, Karadzic V

14:55 36 THE EFFECT OF DEEP BRAIN STIMULATION ON VOIDING DYSFUNCTION IN PARKINSON'S DISEASE AND ESSENTIAL TREMOR
Vishwajit S, Patel B, Herco M, Siddiqui M, Cartwright M, Badlani G

15:00 37 THE INCIDENCE OF VOIDING DIFFICULITY AND CONSTIPATION IN PATIENTS WITH ESSENTIAL TREMOR COMPARED TO PARKINSON'S DISEASE
Vishwajit S, Patel B, Herco M, Siddiqui M, Cartwright M, Badlani G

15:05 38 IS EARLY PROPHYLACTIC INTERVENTION BENEFICIAL FOR THE MANAGEMENT OF THE LOWER URINARY TRACT DYSFUNCTION IN CHILDREN WITH SPINA BIFIDA?
Ichino M, Igawa Y, Ogawa T, Seki S, Ishizuka O, Nishizawa O

15:10 39 VOIDING DYSFUNCTION IN PATIENTS WITH DYSAUTONOMIA
Shridharani A, Guralnick M, Barboi A, Jaradeh S, Prieto T, Yellick M, O'Connor R C

15:15 40 EVALUATION OF RENAL FUNCTION BY SERUM CYSTATIN C FOR THE PATIENT WITH NEUROGENIC BLADDER HAVING A CENTRAL NERVE SYSTEM DISORDER
Ken-ichi M, Noguchi M, Hatada T, Takahashi H, Matsuo M

15:20 41 DO PATIENTS WITH A SMALL PROSTATE VOLUME DIFFER URODYNAMICALLY FROM THOSE WITH A LARGER PROSTATE VOLUME?
Cho S, Kang M, Yi J, Oh S

15:25 42 URETHRAL INNERVATION BETTER IN CONTINENT WOMEN THAN STRESS INCONTINENT WOMEN
Kenton K, Brubaker L, Mueller E

13:30 - 15:30 Session 6 (Poster) - Quality of Life & Epidemiology
Location: Hall C
Chairs: Steinar Hunskaar (Norway), J. Quentin Clemens (United States)

14:10 43 HYSTERECTOMY DOES NOT IMPAIR INCONTINENCE – A SWEDISH QUALITY REGISTER STUDY
Kjaeldgaard A

14:15 44 PREDICTORS OF THE EFFICACY OF NON-DRUG LIFESTYLE MODIFICATIONS FOR THE MANAGEMENT OF NOCTURIA
Soda T, Masui K, Okuno H, Terai A, Ogawa O, Yoshimura K

14:20 45 FECAL INCONTINENCE: A POPULATION BASED STUDY OF SEVERITY AND QUALITY OF LIFE
Grahn S, Varma M, Schembri M, Thom D, Van Den Eeden S, Brown J

14:25 46 MENOPAUSE AND ITS IMPACT ON PELVIC FLOOR DISORDERS, STRESS AND DEPRESSION
Nguyen A, Aschkenazi S, Gamble T, Du H, Vu M, Secco A, Robert K, Botros S, Sand P, Goldberg R

14:30 47 CHARACTERIZATION OF PELVIC FLOOR SYMPTOMS IN WOMEN OF NORTHEASTERN LIBERIA
Bowling C B, Munoz O, Gerten K A, Mann M, Taryor R, Norman A M, Szychowski J M, Richter H E

14:35 48 A NEW CATHETER-RELATED QUALITY OF LIFE INSTRUMENT FOR LONG-TERM URINARY CATHETER USERS
Wilde M, Brasch J, Getliffe K, McMahon J, Anson E, Tu X

14:40 49 VALIDATION OF THE GERMAN VERSION OF THE "ICIQ VAGINAL SYMPTOMS QUESTIONNAIRE" (THE ICIQ-VS GERMAN): THE GERMAN TRANSLATION OF THE ICIQ-VS- AN OBSERVATIONAL STUDY
Banerjee C, Banerjee M, Hellmich M, Sachse K, Noé K

14:45 50 RESPONSIVENESS OF THE PFDI-20 AND PFIQ-7, 12 MONTHS FOLLOWING VAGINAL PROLAPSE REPAIR AUGMENTED BY MESH AND A VAGINAL SUPPORT DEVICE
Sikirica V, Zyczynski H, Subramanian D, Slack M, Hinoul P, Robinson D, Gauld J, Urquhart C, Ilie B, Carey M

14:50 51 COMPARISON OF SF-12 DATA ON QUALITY OF LIFE IN NOCTURIA PATIENTS WITH US NORMS
Holm-Larsen T, Weiss J, Daneshgari F

14:55 52 EFFECT OF CHILDBIRTH VERSUS PARENTING PRESSURE ON SEXUAL FUNCTION
Nguyen A, Aschkenazi S, Gamble T, Vu M, Secco A, Du H, Kuo R, Botros S, Sand P, Goldberg R

15:00 53 DOES LONG-TERM TREATMENT OF OVERACTIVE BLADDER RESULT IN CLINICALLY MEANINGFUL IMPROVEMENT IN HEALTH RELATED QUALITY OF LIFE IN REAL WORLD CLINICAL PRACTICE?
Basra R, Khullar V, Kelleher C

15:05 54 DOES THE USE OF SLEEP QUESTIONNAIRES ADD TO OUR KNOWLEDGE ABOUT THE IMPACT OF NOCTURIA?
Ancoli-Israel S, Klein B M, Holm-Larsen T

15:10 55 A QUALITATIVE STUDY OF THE IMPACT OF CARING FOR A PERSON WITH URINARY INCONTINENCE
Noimark D, Steventon N, Wagg A

15:15 56 IMPACT OF 'DRY DAYS' ON QUALITY OF LIFE IN PATIENTS WITH 'WET' OVERACTIVE BLADDER: RESULTS OF A POOLED ANALYSIS OF THREE PHASE III STUDIES WITH DARIFENACIN
Newman D, Larson-Peters A, Seifu Y, Aronstein W, Mongay L

15:20 57 THE BRINDLEY BLADDER STIMULATOR IMPROVES QUALITY OF LIFE AND CLINICAL OUTCOMES IN SPINAL CORD INJURED PATIENTS AS COMPARED TO A MATCHED CONTROL GROUP
den Hollander P, Snoek G, Martens F, Koldewijn E, van Kerrebroeck P, Heesakkers J

15:25 58 NEUROPHYSIOLOGICAL MODIFICATION OF PELVIC FLOOR PARAMETERS DURING SACRAL NERVE NEUROMODULATION
Andretta E, Zuliani C, De Biaggi L, De Santo T, Ostardo E

13:30 - 15:30 **Session 7 (Poster) - LUTS in Women I**
Location: Hall D
Chairs: JLH Ruud Bosch (Netherlands), Peggy Norton (United States)

14:10 59 EXPECTATIONS OF URGE INCONTINENCE TREATMENT AND THEIR RELATIONSHIP TO OUTCOMES
DuBeau C, Fitzgerald M P, Johnson H, Kraus S, Lemack G, Mallett V, Stoddard A, Tennstedt S, Zyczynski H

14:15 60 LONG-TERM USE OF ANTIMUSCARINIC MEDICATION IN THE REAL WORLD: RESULTS OF A COMMUNITY-BASED PROSPECTIVE STUDY OF PATIENTS WITH OVERACTIVE BLADDER
Basra R, Khullar V, Kelleher C

14:20 61 THE RELATIONSHIP BETWEEN FEMALE OVERACTIVE BLADDER AND METABOLIC SYNDROME
Kinjo M, Yoshimura Y, Sekiguchi Y, Higashihara E

14:25 62 VALIDATION OF THE URGENCYMETRY 1.0 – QUANTIFICATION OF THE URINARY URGENCY IN FEMALES
Svihra J, Luptak J, Kliment J, Vasil J, Brenisin P, Kovacik V, Macko L, Skladany L

14:30 63 RELATIONSHIP BETWEEN OVERACTIVE BLADDER SYMPTOM SEVERITY, CYSTOMETRIC BLADDER CAPACITY AND DETRUSOR OVERACTIVITY
Blaivas J, Liang L, Weiss J, Somaroo C, Amirian M

14:35 64 COMPARISON OF SELF-REPORTED DAYTIME VOIDING FREQUENCY AND NOCTURIA BETWEEN CONTROLS AND WOMEN REPORTING STRESS, URGE OR MIXED URINARY INCONTINENCE
Wyndaele M, Wyndaele J J

14:40 65 EFFICACY OF TAMSULOSIN 0.2MG AND TAMSULOSIN 0.2MG PLUS TOLTERODINE 2MG FOR TREATMENT OF WOMEN WITH LOWER URINARY TRACT SYMPTOMS
Kim D Y, Park C H, Jung H C, Yoo E S

14:45 66 EFFECTS OF AGE ON THE PREVALENCE AND BOTHERSOMENESS FOR OAB SYMPTOMS IN FEMALE PATIENTS VISITING TO PRIMARY CARE DOCTORS
Yoshida M, Inadome A, Masunaga K, Otani M, Matsumoto K, Yono M

14:50 67 SCREENING TOOLS FOR VOIDING DIFFICULTIES IN WOMEN: A COMPARISON OF THE ICIQ-FLUTS AND THE MODIFIED IPSS QUESTIONNAIRES
Cartwright R, Cox P, Cardozo L, Srikrishna S, Robinson D

14:55 68 AFFECT OF DIABETES ON THE PREVALENCE OF LOWER URINARY TRACT SYMPTOMS (LUTS) IN WOMEN
Van Remoortere K C, Doshi A, Schembri M, Thom D, Van Den Eeden S, Brown J

15:00 69 URINARY FREQUENCY IN WOMEN: ARE THERE MULTIPLE FACTORS AT PLAY?
Steele S, Gajewski J

15:05 70 A NOVEL EXTERNALLY APPLIED NEUROMUSCULAR STIMULATOR FOR THE TREATMENT OF STRESS URINARY INCONTINENCE– A PILOT STUDY
Maher R, Crowe L, Caulfield B

15:10 71 THE ROLE OF INTROITAL ULTRASONOGRAPHY IN TREATING LOW URINARY TRACT SYMPTOMS COMPLICATING SUB-URETHRAL TAPE PLACEMENT
Mouracade P, Ej-jennane A, Lang H, Jacqmin D, Saussine C

15:15 72 RELATIONSHIP OF THE SEVERITY OF URGENCY ACCORDING TO THE DEGREE OF STRESS URINARY INCONTINENCE
Bae J H, Kim H J, Choi J B, Yeo J K, Choi H, Kim K H, Oh M M, Lee J G

15:20 73 URODYNAMICS IN WOMEN FROM MENOPAUSE TO OLDEST AGE: WHICH MOTIVE? WHICH DIAGNOSIS?
Valentini F, Robain G, Marti B, Nelson P

15:25 74 ARE URINARY TRACT INFECTIONS AND URINARY INCONTINENCE IN WOMEN ASSOCIATED WITH EACH OTHER?
Platte R, Minassian V, Wood C, Parekh M, Poplawsky D

15:30 - 16:00 **Coffee Break / Poster & Video Viewing / Exhibition**

15:30 - 16:00 **ICS & IUGA 2010 Scientific Committee Pre-liminary Meeting**
Location: Meeting Room 3

16:00 - 17:30 **Session 8 (Poster) - Pelvic Floor**
Location: Hall B
Chairs: Kate Moore (Australia), Chris E Constantinou (United States)

16:30 75 EFFECT OF "THE KNACK" ON THE PELVIC FLOOR: EVALUATED BY 2D REAL TIME ULTRASOUND AND IMAGE PROCESSING METHODS
Lovegrove Jones R, Peng Q, Humphrey V, Stokes M, Payne C, Constantinou C E

16:35 76 PELVIC FLOOR MUSCLE TRAINING IN TREATMENT OF PELVIC ORGAN PROLAPSE - A SINGLE BLIND RANDOMISED CONTROLLED TRIAL
Brækken I H, Majida M, Ellström Engh M, Bo K

16:40 77 INTRAVAGINAL PRESSURE MEASUREMENTS PROVIDE A VALID REPRESENTATION OF THE CHANGES IN URETHRAL PRESSURE THAT OCCUR DURING MAXIMUM VOLUNTARY CONTRACTIONS AND DURING COUGHING
Madill S, McLean L

16:45 78 WOMEN WITH AND WITHOUT STRESS URINARY INCONTINENCE SHOW AGE-RELATED CHANGES IN THE RISE TIME AND THE PEAK OF THE INTRAVAGINAL PRESSURE PRODUCED DURING COUGHING
McLean L, Madill S, Harvey M

16:50 79 A HIGH RESOLUTION 3D STUDY OF THE FEMALE PELVIS REVEALS IMPORTANT ANATOMICAL AND PATHOLOGICAL DETAILS OF THE PELVIC FLOOR
Wallner C, Wallace C, Maas C, Lange M, Lahaye M, Moayeri N, Groen G, Dabhoiwala N, Bleys R, Lamers W, DeRuiter M

16:55 80 DEVELOPMENT OF A TOOL FOR VISUAL INSPECTION OF PELVIC FLOOR MUSCLE COORDINATION
Sadowy A, Hollman J, Angela B, Danica F, Kirstin H, Heidi J

17:00 81 MODELLING FETAL HEAD MOTION AND ITS MECHANICAL INTERACTION WITH THE PELVIC FLOOR DURING CHILDBIRTH
Li X, Kruger J, Nash M, Nielsen P

17:05 82 DYNAMIC ASSESSMENT OF THE VAGINAL HIGH PRESSURE ZONE USING HIGH DEFINITION MANOMETRY, 3-DIMENSIONAL ULTRASOUND & MAGNETIC RESONANCE IMAGING OF THE PELVIC FLOOR
Raizada V, Bhargava V, Jung S, Karsten A, Pretorius D, Krysal P, Mittal R

17:10 83 EVIDENCE FOR THE NON-EUCLIDEAN NATURE OF THE PLANE OF MINIMAL DIMENSIONS
Kruger J, Heap S, Murphy B, Dietz H P

17:15 84 SMOOTH MUSCLE ANCHORS THE PELVIC ORGANS TO THE PELVIC FLOOR
Wallner C, Dabhoiwala N, DeRuiter M, Lamers W

17:20 85 REAL 3D BIOMECHANICAL MODELS OF PELVIS AND PELVIC FLOOR AS THE WAY TO IMPROVE KNOWLEDGE ABOUT INCONTINENCE
Grill R, Baca V, Horak Z, Otcenasek M, Smrzova T, Kachlik D, Dzupa V

17:25 86 WOMEN WHO CANNOT CONTRACT THEIR PELVIC FLOOR MUSCLES- AVULSION OR DENERVATION? THE PELVIC FLOOR NEUROANATOMY STUDY
Sarma S, Hersch M, Siva S, Dietz H P, Moore K H

16:00 - 17:30 Session 9 (Poster) - Male Incontinence
Location: Hall C
Chairs: Laurence Stewart (United Kingdom), Craig Vance Comiter (United States)

16:30 87 BEHAVIORAL THERAPY WITH OR WITHOUT BIOFEEDBACK AND PELVIC FLOOR ELECTRICAL STIMULATION FOR PERSISTENT POST-PROSTATECTOMY INCONTINENCE – A RANDOMIZED CONTROLLED TRIAL
Goode P, Burgio K, Johnson T, Roth D, Clay O, Burkhardt J, Lloyd L K

16:35 88 PILOT-TESTING OF A THEORY-BASED PELVIC FLOOR TRAINING INTERVENTION FOR RADICAL PROSTATECTOMY PATIENTS
Robinson J, Weiss R, Avi-Itzhak T, McCorkle R

16:40 89 PREOPERATIVE PAD WEIGHT AND PAD NUMBER AS A PREDICTOR OF FAILURE OF SINGLE CUFF ARTIFICIAL URINARY SPHINCTER
Zafirakis H, Alba F, Westney O L

16:45 90 OUTCOMES FOLLOWING TRANSCORPORAL PLACEMENT OF AN ARTIFICIAL URINARY SPHINCTER
Zafirakis H, Alba F, Shapiro A, Westney O L

16:50 91 CORRELATION OF PENILE SHAFT AND URETHRAL GIRTH MEASUREMENTS: IMPLICATIONS FOR ARTIFICIAL URINARY SPHINCTER CUFF PLACEMENT
Schlomer B, Valadez C, Dugi D, Morey A

16:55 92 SEVERE BLADDER NECK CONTRACTURE AND STRESS URINARY INCONTINENCE IN PATIENTS STATUS POST PROSTATECTOMY, RADIATION AND CRYOTHERAPY: SUCCESSFUL MANAGEMENT USING A TWO-STAGED APPROACH
Kanagarajah P, Caruso D, Gousse A

17:00 93 THE INSIDE-OUT TRANSOBTURATOR SLING FOR THE SURGICAL TREATMENT OF POST-RADICAL PROSTATECTOMY URINARY INCONTINENCE: INTERIM RESULTS OF A PROSPECTIVE, OBSERVATIONAL STUDY AFTER A 1-YEAR MINIMUM FOLLOW-UP
Waltregny D, Leruth J, de Leval J

17:05 94 URODYNAMIC AND CLINICAL RESULTS OF ADJUSTABLE SLING FOR MALE URINARY INCONTINENCE - 32 MONTHS FOLLOW UP - ARGUS® IS EFFECTIVE ALSO IN SEVERE CASES
Hind A, Pini G, Viola D, Martino F, Rossi R, Leoni S

17:10 95 OPTIMIZING ADVANCE™ SLING OUTCOMES VIA INTRAOPERATIVE URETHROSCOPIC CONFIRMATION OF SLING POSITIONING
Schlomer B, Valadez C, Dugi D, Morey A

17:15 96 CONTINENCE CARE FOR MEN HAVING PROSTATE SURGERY: ADVICE AND CARE BEFORE AND AFTER RADICAL PROSTATECTOMY AND TRANSURETHRAL RESECTION OF PROSTATE
Hagen S, Glazener C, Cochran C, Campbell L

17:20 97 DECLINED URETHRAL SPHINCTER FUNCTION RELATED TO AGING COMTRIBUTES TO URINARY INCONTINENCE AFTER RADICAL PROSTATECTOMY
Matsukawa Y, Hattori R, Komatsu T, Funahashi Y, Mizutani K, Gotoh M

17:25 98 TRANSRECTAL ULTRASOUND-GUIDED IMPLANTATION OF THE PROACT™ SYSTEM IN PATIENTS WITH POST-RADICAL PROSTATECTOMY STRESS URINARY INCONTINENCE: CLINICAL RESULTS AFTER A MEAN FOLLOW UP OF 2 YEARS
Gregori A, Romanò A L, Pietrantuono F, Salvaggio A, Granata A, Incarbone P, Scieri F, Gaboardi F

16:00 - 17:30 Session 10 (Poster) - Neurourology (Basic Science)
Location: Hall D
Chairs: Masayuki Takeda (Japan), Michael Chancellor (United States)

16:30 99 TRPV1 EXPRESSION IN THE BLADDER IS ESSENTIAL FOR NGF-INDUCED DETRUSOR OVERACTIVITY
Charrua A, Pinto R, Frias B, Cruz C D, Cruz F

16:35 100 RHO-KINASE INHIBITION IMPACTS NEUROGENIC DETRUSOR OVERACTIVITY IN CHRONIC SPINALIZED RATS
Broquères-You D, Behr-Roussel D, Oger S, Compagnie S, Caisey S, Denys P, Chartier-Kastler E, Giuliano F

16:40 101 COLLAGEN AND ELASTIC SYSTEM CHANGES INDUCED BY DETRUSOR OVERACTIVITY IN RABBITS. THE ACTION OF OXYBUTYNIN
Amaro J, Polido Jr A, Da Costa J, Munhoz T, Cardoso L E, Sampaio F

16:45 102 ROLE OF SUPRASPINAL AND SPINAL A1-ADRENERGIC RECEPTOR SUBTYPES IN THE MICTURITION REFLEX IN CONSCIOUS RATS
Yoshizumi M, Matsumoto-Miyai K, Yonezawa A, Kawatani M

16:50 103 THE EFFECT OF INTRAVESICAL ELECTRICAL STIMULATION UPON THE RAT WHOLE BLADDER ACTIVITY: IN VIVO AFTER NERVE TRANSSECTIONS AND IN VITRO AFTER TREATMENT WITH ATROPINE, ALPHA,BETA-METHYLATP AND TETRODOTOXIN
De Bock F, De Wachter S, Wyndaele J J

16:55 104 APP441-1, A NOVEL TRPV4 AGONIST IS ABLE TO INDUCE BLADDER OVERACTIVITY IN RATS AND MICE
Everaerts W, Leten C, Appendino G, Voets T, Nilius B, De Ridder D

17:00 105 HUMAN ALPHA-SYNUCLEIN TRANSGENIC MICE: A NOVEL ANIMAL MODEL OF LOWER URINARY TRACT DYSFUNCTION IN PARKINSON'S DISEASE
Kershen R, Vizzard M, Hamill R

17:05 106 CHANGES IN URINARY PROSTAGLANDIN E2 EXCRETION IN WATANABE HERITABLE HYPERLIPIDEMIC RABBITS, A BLADDER ISCHEMIA MODEL
Yoshida M, Masunaga K, Satoji Y, Maeda Y, Nagata T, Inadome A

17:10 107 THE EFFECT OF AGING ON NITRIC OXIDE AND NORADRENALINE RELEASE IN ISOLATED RABBIT PROSTATE
Ogawa S, Aikawa K, Kawashima Y, Shiomi H, Yoshida J, Chiba S, Shishido K, Yamaguchi O

17:15 108 FUNCTIONAL ROLE OF THE TRPV4 CATION CHANNEL IN STRETCH-EVOKED CA2+ INFLUX AND ATP RELEASE IN MOUSE UROHELIAL PRIMARY CULTURES
Mochizuki T, Araki I, Yoshiyama M, Takeda M

17:20 109 INTRATHECAL BLOCKADE OF TRK RECEPTOR AND NEUROTROPHINS SEQUESTRATION REDUCES PAIN AND URINARY FREQUENCY IN AN ANIMAL MODEL OF CHRONIC BLADDER INFLAMMATION
Frias B, Charrua A, Pinto R, Allen S, Dawbarn D, Cruz F, Cruz C D

17:25 110 FUNCTIONAL CHARACTERISATION OF TRP CHANNELS IN MOUSE UROTHELIUM: A MAJOR ROLE FOR TRPV4
Everaerts W, Owsianik G, Vriens J, Talavera K, Van Haute C, Nilius B, De Ridder D

16:00 - 17:30 Session 11 (Poster) - Gerontology & BPH
Location: Hall E
Chairs: Adrian Wagg (United Kingdom), Neil M Resnick (United States)

16:30 111 ARE THE EFFECTS OF OXYBUTYNIN ON COGNITION DEPENDENT UPON THE ROUTE OF ADMINISTRATION – TOPICAL OR ORAL? A DOUBLE-BLIND PLACEBO CONTROLLED STUDY EMPLOYING SENSITIVE COGNITIVE AND PSYCHOMOTOR TESTING
Kay G, Staskin D, MacDiarmid S, McIlwain M, Dahl N

16:35 112 IS THERE A RELATIONSHIP BETWEEN BALANCE OR LOWER EXTREMITY STRENGTH AND THE IMPACT AND/OR SEVERITY OF MIXED UI IN AGING COMMUNITY-DWELLING WOMEN?
Dumoulin C, Razavi S, Elliott V, Corriveau H

16:40 113 PILOT OF THE ICIQ-OAB IN AN OUTREACH FALLS PREVENTION CLINIC FOR OLDER ADULTS
Hunter K, Freund-Heritage R, Chan L, Tilroe S, Lechelt K

16:45 114 EVALUATION OF OUTCOME MEASURES FOR STRESS URINARY INCONTINENCE IN OLDER WOMEN
Sherburn M, Bo K, Galea M

16:50 115 LOWER URINARY TRACT SYMPTOMS AND SLEEP DISORDERS IN ADULTS
Yoon H, Jun G M, Shim B S, Hong J Y

16:55 116 EFFECT OF AGE ON CAVEOLAE-MEDIATED SIGNALING PATHWAYS IN BLADDER SMOOTH MUSCLE
Cristofaro V, Lowalekar S, Yalla S V, Sullivan M P

17:00 117 THE BACKGROUND CHARACTERISTICS OF PATIENTS WITH BENIGN PROSTATIC HYPERPLASIA WHO RECEIVED EARLY TREATMENT WITH ANTI-CHOLINERGICS AFTER UNDERGOING A TRANSURETHRAL RESECTION OF THE PROSTATE
Seki N, Nomura H, Kajioka S, Shahab N, Takahashi R, Yamaguchi A, Naito S

17:05 118 VARIABILITY OF THE POST VOID RESIDUALS AMONG THE PATIENTS WITH BENIGN PROSTATIC HYPERPLASIA
Shishido K, Nomiya M, Honda K, Aikawa K, Yamaguchi O

17:10 119 TAMUSULOSIN ALTERS STRUCTURE OF PROSTATIC URETHRA: OBSERVATION BY PROCESSED ENDOSCOPIC IMAGE
Nakamura K, Naya Y, Awa Y, Ichikawa T, Igarashi T

17:15 120 THE CHANGE OF IPSS STORAGE SUB-SCORE AFTER LONG TERM MEDICAL THERAPY IN BPH PATIENTS
Kim S J, Kim S W, Lee D H, Kim H W, Kim C, Lee H M, Kim C I, Chung B H, Hwang T K, Lee J Y

17:20 121 THE EFFICACY AND SAFETY OF PHOTOSELECTIVE VAPORIZATION OF THE PROSTATE(PVP) FOR THE TREATMENT OF BENIGN PROSTATE HYPERPLASIA(BPH) IN MEN WITH LARGE PROSTATES
Kim M, Park J H, Lee C J, Ko D W, Kim S W, Paick J, Yang S, Son H

17:25 122 TWELVE-YEAR SYMPTOMATIC OUTCOME OF TRANSURETHRAL RESECTION OF THE PROSTATE FOR PATIENTS WITH LOWER URINARY TRACT SYMPTOMS BY PROSTATIC ENLARGEMENT COMPARED TO THE PREOPERATIVE URODYNAMIC FINDINGS
Masumori N, Furuya R, Tanaka Y, Furuya S, Ogura H, Tsukamoto T

17:30 - 18:30 Neurourology and Urdynamics Editorial Board Meeting
Location: Meeting Room 2

17:30 - 19:00 Nurses Forum
Location: Hall B

17:30 - 19:00 Satellite Symposium Sponsored by Astellas
Location: Hall A

07:30 - 08:30 **Satellite Symposium Sponsored by Pfizer**
Location: Hall B

08:30 - 10:30 **Session 12 (Podium) - Epidemiology**
Location: Hall A
Chairs: Bary Berghmans (Netherlands), Jeanette Sarah Brown (United States)

08:30 123 THE ROLE OF INDUSTRY FUNDING IN RANDOMIZED CONTROLLED TRIALS OF ANTIMUSCARINIC MEDICATIONS FOR OVERACTIVE BLADDER
Clemens J Q

08:45 124 ENVIRONMENTAL FACTORS VERSUS GENETICS IN WOMEN WITH FECAL INCONTINENCE: A CLASSICAL TWIN STUDY OF IDENTICAL AND NON-IDENTICAL TWINS
Nguyen A, Aschkenazi S, Gamble T, Vu M, Secco A, Kuo R, Du H, Botros S, Sand P, Goldberg R

09:00 125 PREVALENCE OF URINARY INCONTINENCE DURING 10 YEARS IN A PROSPECTIVE COHORT OF MIDDLE AGED WOMEN
Jahanlu D, Hunskaar S

09:15 126 HOW DOES WEIGHT GAIN DURING PREGNANCY AFFECT RISK OF URINARY INCONTINENCE?
Wesnes S L, Hunskaar S, Bo K, Rortveit G

09:30 127 SMOKING IS INDEPENDENTLY ASSOCIATED WITH CERTAIN URINARY STORAGE SYMPTOMS: A POPULATION-BASED STUDY
Tikkinen K, Johnson T, Auvinen A, Cartwright R, Tammela T L J

09:45 128 NATIONAL TRENDS IN THE USAGE AND SUCCESS OF SACRAL NEUROMODULATION
Cameron A P, Anger J T, Madison R, Saigal C S, Clemens J Q, Urologic Diseases in America Project U D A

10:00 129 DOES GOOD ORGANISATIONAL STRUCTURE LEAD TO QUALITY CARE PROVISION FOR OLDER PEOPLE WITH INCONTINENCE ?
Wagg A, Lowe D, Peel P, Potter J

10:15 130 IMPACT OF URINARY INCONTINENCE ON REHABILITATION OUTCOMESIN INPATIENT REHABILITATION FACILITIES IN THE UNITED STATES
Neville C, Mallinson T, Almagor O, Fitzgerald C, Heinemann A

10:30 - 11:00 **Coffee Break / Poster & Video Viewing / Exhibition**

11:00 - 12:30 **Session 13 (Poster) - Physiology**
Location: Hall B
Chairs: Marcus Drake (United Kingdom), Naoki Yoshimura (United States)

11:30 131 **PRIZE AWARD: Best Basic Science Abstract**
ESTABLISHING A RODENT MODEL FOR CHARACTERIZATION OF NATURAL IN VIVO BLADDER REGENERATION
Burmeister D, AbouShwareb T, Andersson K, Christ G

11:35 132 BONE MARROW MESENCHYMAL STROMAL CELLS DISPLAY A SMOOTH MUSCLE PHENOTYPE WHICH IS ENHANCED BY TGFB1: POTENTIAL USE TO TREAT SPHINCTERIC INCONTINENCE AND BLADDER WALL DEFECT
Loutochin O, Campeau L, Eliopoulos N, Galipeau J, Corcos J

11:40 133 THE SPHINGOSINE-1-PHOSPHATE PATHWAY IS UPREGULATED IN RESPONSE TO PARTIAL URETHRAL OBSTRUCTION IN MALE RATS AND ACTIVATES RHOA/RHO-KINASE SIGNALING
Aydin M, Downing K, Villegas G, Zhang X, Chua R, Melman A, DiSanto M

11:45 134 ALTERED CAMP-MEDIATED POTASSIUM CHANNEL CURRENTS IN DETRUSOR MYOCYTES FROM DIABETIC RATS
Zhao W, Brink P, Christ G

11:50 135 INCREASED ATP MEDIATED CONTRACTION OF ISOLATED DETRUSOR CELLS OF PATIENTS WITH OUTFLOW OBSTRUCTION
Bishara S, Gao H, Malone-Lee M, Clark S, Lunawat R, Khan S, Khasriya R, King B, Malone-Lee J

11:55 136 TRPV4 AS STRETCH-RECEPTOR; CO-LOCALIZATION BETWEEN TRPV4 AND ADHERENCE JUNCTIONS IN UROTHELIUM OF HUMAN KIDNEY, URETER & URINARY BLADDER
Janssen D A W, Jansen K C F J, Schalken J A, Heesakkers J

12:00 137 TRPV4 AS A MECHANORECEPTOR IN THE HUMAN BLADDER; A CO-LOCALIZATION BETWEEN TRPV4 AND ADHERENCE JUNCTIONS THE UROTHELIUM
Janssen D A W, Jansen K C F J, Schalken J A, Heesakkers J

12:05 138 STIMULATION OF COLD STRESS SKIN RECEPTOR: TRANSIENT RECEPTOR POTENTIAL MELASTATIN 8 (TRPM8) CAUSES SUDDEN URINARY FREQUENCY IN NORMAL CONSCIOUS RATS
Ishizuka O, Chen Z, Imamura T, Aizawa N, Kurizaki Y, Igawa Y, Nishizawa O, Andersson K

12:10 139 OBSTRUCTION ENHANCES RHO-KINASE PATHWAY IN CARBACHOL-INDUCED CA2+ SENSITIZATION IN ALPHA-TOXIN PERMEABILIZED GUINEA-PIG DETRUSOR SMOOTH MUSLCE
Shahab N, Kajioka S, Takahashi R, Seki N, Naito S

12:15 140 HISTOLOGICAL EVIDENCE OF UBIQUITOUS OCCURRENCE OF CHRONIC CYSTITIS IN UROTHELIAL BIOPSIES FROM PATIENTS WITH SYMPTOMS OF OVERACTIVE BLADDER AND NORMAL URINANALYSIS
Lunawat R, Khasriya R, Bishara S, Maraj B, Falzon M, Malone-Lee J

12:20 141 HOW IS THE BLADDER BEHAVIOUR INFLUENCED BY THE OSMOLARITY OF URINE?
Shiraiwa M, Shishido K, Nanri M, Kiniwa M, Yamaguchi O

12:25 142 A THERAPEUTIC APPROACH FOR RHABDOSPHINCTER REGENERATION BY AUTOLOGOUS ADULT STEM CELLS
Baumann S, Feil G, Schäfer J, Schäfer R, Möhle R, Stenzl A, Sievert K

11:00 - 12:30 **Session 14 (Poster) - Epidemiology**
Location: Hall C
Chairs: Vatche Minassian (United States), Guri Rortveit (Norway)

11:30 143 BLADDER CANCER IS NOT ASSOCIATED WITH IRRITATIVE LOWER URINARY TRACT SYMPTOMS
Idriz S, Gao H, Malone-Lee M, Lunawat R, Khan S, Khasriya R, Malone-Lee J, Bishara S

11:35 144 INCIDENCE OF AND RISK FACTORS FOR CHANGES IN URINARY INCONTINENCE STATUS IN A PROSPECTIVE COHORT OF MIDDLE-AGED AND OLDER WOMEN
Thom D, Van Den Eeden S, Ragins A, Schembri M, Subak L, Brown J

11:40 145 RELATIONSHIP BETWEEN NOCTURIA AND METABOLIC SYNDROME
Aoki Y, Kusukawa N, Maekawa M, Matsuta Y, Tanase K, Ito H, Oyama N, Miwa Y, Akino H, Yokoyama O

11:45 146 ETHNICITY AND SOCIOECONOMIC STATUS ARE SIGNIFICANT INDEPENDENT RISK FACTORS FOR OBSTETRIC ANAL SPHINCTER INJURY
Cartwright R, Tikkinen K, Cardozo L

11:50 147 HELP-SEEKING BEHAVIOUR FOR URINARY INCONTINENCE AMONG COMMUNITY-DWELLING WOMEN: A SYSTEMATIC REVIEW
Sande A K, O'Donnell M, Hunskaar S

11:55 148 THE EPIDEMIOLOGY OF NOCTURNAL POLYURIA (INCIDENCE AND PREVALENCE): A LONGITUDINAL COMMUNITY BASED STUDY IN MEN BETWEEN 50 AND 78 YEARS OF AGE
van Doorn B, Blanker M, Bosch R

12:00 149 DIFFERENCES AND ASSOCIATIONS BETWEEN NIGHT-TIME FREQUENCY/NOCTURIA AND SLEEP DISORDERS
Yoshimura K, Oka Y, Kamoto T, Yoshimura K, Ogawa O

12:05 150 THE ASSOCIATION BETWEEN SPECIFIC PARTURITION EVENTS AND URINARY INCONTINENCE IN LATER LIFE: RESULTS FROM A RETROSPECTIVE COHORT STUDY
Thom D, Van Den Eeden S, Ragins A, Creasman J, Subak L, Brown J

12:10 151 PROGNOSTIC INDICATORS OF POOR SHORT-TERM OUTCOME OF PHYSIOTHERAPY INTERVENTION IN WOMEN WITH STRESS URINARY INCONTINENCE
Hendriks E, Kessels A G, de Vet H C, Bernards A T, de Bie R

12:15 152 LESSONS LEARNED FROM A PATIENT BURDEN SURVEY FOLLOWING A LARGE RANDOMIZED CONTROLLED TRIAL FOR THE SURGICAL MANAGEMENT OF STRESS URINARY CONTINENCE IN WOMEN
Zimmern P, Tennstedt S, Dickinson T, Dandreo K

12:20 153 INTERMITTENT CATHETERISATION: DO DIFFERENT CATHETER TYPES, STRATEGIES OR TECHNIQUES AFFECT UTI?
Moore K, Fader M, Getliffe K

12:25 154 GENITOURINARY FISTULA EXPERIENCE IN SIERRA LEONE: REVIEW OF 505 CASES
Kaufman M, Lewis A, Wolter C, Phillips S, Maggi D, Condry L, Smith J, Dmochowski R

11:00 - 12:30 **Session 15 (Poster) - LUTS in Women II**
Location: Hall D
Chairs: Jerzy B Gajewski (Canada), Soren Brostrom (Denmark)

11:30 155 LOWER URINARY TRACT SYMPTOMS IN FEMALE PATIENTS WITH HYPERTHYROIDISM
Ho C, Yu H, Huang K

11:35 156 PRESERVATION OF URINARY WHITE CELLS TO ENABLE ADOPTION OF MICROSCOPY OF UNSPUN URINE FOR PYURIA INTO ORDINARY CLINICAL ASSESSMENT PROTOCOLS OF LOWER URINARY TRACT SYMPTOMS
Khan S, Khasriya R, Bishara S, Mahmood W, Chandhyoke N, Mohenden M, Malone-Lee J

11:40 157 SPUN URINARY SEDIMENTS AND GIEMSA STAIN REVEAL A CHRONIC INFLAMMATORY INFILTRATE IN PATIENTS WITH SYMPTOMS OF OAB
Lunawat R, Khasriya R, Falzon M, Balachandran L, Malone-Lee J

11:45 158 ENHANCING THE DETECTION OF PYURIA IN FRESH URINE FROM PATIENTS WITH OVERACTIVE BLADDER BY USE OF THE STERNHEIMER-MALBIN STAIN
Khan S, Khasriya R, Badiani R, Bishara S, Malone-Lee J

11:50 159 BACTERIAL URINARY TRACT INFECTION IN PATIENTS WITH OAB SYMPTOMS AND NEGATIVE MIDSTREAM CULTURES EXPOSED THROUGH CULTURE OF THE URINARY SPUN SEDIMENT
Khasriya R, Khan S, Ismail S, Ready D, Pratten J, Wilson M, Kelsey M, Malone-Lee J

11:55 160 IS ULTRASOUND BLADDER WALL THICKNESS A BETTER OBJECTIVE MEASURE THAN URODYNAMICS FOR OVERACTIVE BLADDER SYMPTOMS?
Panayi D, Khullar V, Fernando R, Hendricken C, Tekkis P

12:00 161 CAN AN AIR-FILLED INTRAVESICAL BALLOON IN-VIVO ATTENUATE PRESSURE AND RAISE THE ABDOMINAL PRESSURE AT WHICH STRESS URINARY INCONTINENCE LEAKAGE OCCURS?
Lopez M, Snyder J

12:05 162 SAFETY AND TOLERABILITY OF DULOXETINE IN THE TREATMENT OF FEMALE STRESS URINARY INCONTINENCE (SUI) IN GENERAL PRACTICE IN GERMANY - RESULTS FROM A LARGE OBSERVATIONAL STUDY
Michel M C, Methfessel D H, Minarzyk A, Schwerdtner I, Quail D, Gross A

12:10 163 URODYNAMIC URETHRAL FUNCTION, THE SUPINE EMPTY BLADDER STRESS TEST, AND INCONTINENCE SEVERITY
Nager C, Kenton K, Kraus S, Chai T, Sirls L, Sutkin G, Wai C, Leng W, Litman H, Tennstedt S, Richter H E, for the Urinary Incontinence Treatment Network

12:15 164 AN INTERNATIONAL UROGYNECOLOGICAL ASSOCIATION (IUGA) – INTERNATIONAL CONTINENCE SOCIETY (ICS) JOINT REPORT ON THE TERMINOLOGY FOR FEMALE PELVIC FLOOR DYSFUNCTION
Haylen B, Freeman R, De Ridder D, Swift S, Berghmans B, Lee J, Monga A, Petri E, Rizk D E, Sand P K

12:20 165 SUBCAPSULAR RELOCATION FOR SACRAL NEUROMODULATION PULSE GENERATOR IMPLANT REVISION
Roth T

12:25 166 SACRAL NEUROMODULATION IN URINARY RETENTION SECONDARY TO PELVIC ENDOMETRIOSIS ERADICATION
Pastorello M, Andretta E, Zuliani C, Vecchio D, Ostardo E

11:00 - 12:30 **Session 16 (Poster) - Lower Urinary Tract, Physiology & Treatment**
Location: Hall E
Chairs: Christopher R Chapple (United Kingdom), Anthony John Kanai (United States)

11:30 167 TREATMENT OF EXTENSIVE BXO INVOLVING THE WHOLE PENDULOUS URETHRA WITH BILATERAL BUCCAL MUCOSA GRAFTS
Osman T, Ihab E, Abdelwahab E

11:35 168 RISK FACTORS OF DE NOVO OVERACTIVE BLADDER AND STRESS INCONTINENCE FOLLOWING SURGICAL REMOVAL OF URETHRAL DIVERTICULUM
Kim Y H, Park S J, Hong J

11:40 169 SURGICAL MANAGEMENT OF URETHRAL DIVERTICULA IN WOMEN: A SYSTEMATIC REVIEW
Bodner B, Elenskaia K, Doerfler D, Umek W, Laml T, Haeusler G, Hanzal E

11:45 170 MANAGEMENT AND OUTCOME OF INJURY TO THE URINARY TRACT AT GYNAECOLOGICAL AND OBSTETRIC PROCEDURES AT A BUSY DISTRICT GENERAL HOSPITAL
Venkitaraman U, Dixit S, Chilaka V

11:50 171 QUALITY OF LIFE AND VOIDING FUNCTION AND FOLLOWING NEOBLADDER FORMATION
Gillatt D

11:55 172 LATISSIMUS DORSI DETRUSOR MYOPLASTY IN PATIENTS WITH ACONTRACTILE BLADDER – LONG TERM RESULTS OF A MULTICENTER STUDY
Gakis G, vanKoeveringe G, Raina S, Lorenz S, Rahnama'i M, Ninkovic M, Stenzl A, Sievert K

12:00 173 FIVE-YEAR FOLLOW-UP OF SACRAL NERVE NEUROMODULATION IN 60 WOMEN WITH IDIOPATHIC REFRACTORY URGE INCONTINENCE
Groen J, Blok B, Bosch R

12:05 174 THE CORRELATION OF ESTIMATED AND ISOTOPE GFR IN PATIENTS WITH BOWEL IN THE URINARY TRACT
Ockrim J, Hamid R, Shah J, Greenwell T

12:10 175 RELEASE OF ATP AND NO FROM RAT PROSTATE: AN IN VITRO AND IN VIVO ASSESSMENT OF ADRENERGIC RECEPTOR STIMULATION
Munch E, Munoz A, Boone T, Smith C, Somogyi G

12:15 176 ALTERATION OF CAVEOLAE-MEDIATED SIGNALLING PATHWAYS IN OBSTRUCTED BLADDER
Cristofaro V, Lowalekar S, Yalla S V, Sullivan M P

12:20 177 EFFECTS OF ESTROGEN DEFICIENCY AND ITS REPLACEMENT ON VOIDING BEHAVIOUR AND PRIMARY BLADDER AFFERENT ACTIVITY IN THE RAT
Aizawa N, Iijima K, Rosenbaum J, Downs T R, Igawa Y, Andersson K, Wyndaele J J

12:25 178 LOWER URINARY TRACT SYMPTOMS AND QUALITY OF LIFE IN NORWEGIAN MEN: THE HUNT STUDY
Seim A, Fjære O, Hoyo C, Ostbye T, Vatten L J

12:30 - 13:30 **Lunch Break / Poster & Video Viewing / Exhibition**

12:30 - 13:30 **Meet the Experts 3: Male LUTS and Fistulas**
Location: Room 2002
Experts: Roger Roman Dmochowski (United States), Sender Herschorn (Canada)

12:30 - 13:30 **Meet the Experts 4: Urodynamics and Research**
Location: Room 2002
Experts: Marcus Drake (United Kingdom), Werner Schaefer (United States)

13:30 - 14:30 **Session 17 (Podium Video) - Videos - Surgical Techniques II**
Location: Hall A
Chairs: Mark E Vierhout (Netherlands), Sherif Mourad (Egypt)

13:30 179 VIDEO DEMONSTRATION OF VAGINAL SURGERY FOR PROLAPSE USING MESH IMPLANTS AND A VAGINAL SUPPORT DEVICE
Al-Salihi S, Lim J, Carey M

13:40 180 ANTERIOR PROLAPSE (CYSTOCELE AND VAULT) REPAIR WITH MESH: SINGLE INCISION APPROACH WITH NEW MINIMALLY INVASIVE FIXATION SYSTEM
Moore R

13:50 181 ENDOFAST RELIANT™ SYSTEM FOR ANTERIOR COMPARTMENT REPAIR
Von Theobald P, Alcalay M

14:00 182 TRANSVAGINAL REPAIR OF ANTERIOR VAGINAL WALL PROLAPSE WITH AN ULTRA-LIGHT POLYPROPYLENE MESH NOVASILK° USING A LARGE UNFIXED INTERVESICOVAGINAL MESH
Mansoor A

14:10 183 LAPAROSCOPICALLY ASSISTED VAGINAL REPAIR OFVESICO-VAGINAL FISTULA - INITIAL CLINICAL REPORT
Garcia/Segui A, Lopez V, Arnal H, Perez M G, Zambrano C, Ballesteros C, Moanack J, Valero R

14:20 184 ADJUSTABLE TRANSOBTURATOR SLING (ARGUS T®) FOR THE TREATMENT OF POST RADICAL PROSTATECTOMY URINARY INCONTINENCE (PRPUI)
Trigo Rocha F, Gomes C, Figueiredo J A, Bruschini H, Srougi M

13:30 - 14:30 **Session 18 (Poster) - Detrusor Overactivity Non-Clinical**
Location: Hall B
Chairs: Christopher Henry Fry (United Kingdom), Lori A Birder (United States)

13:50 185 INHIBITION OF BLADDER OVERACTIVITY BY TRANSCUTANEOUS STIMULATION TARGETING THE PUDENDAL NERVE IN CATS
Wang J, Shen B, Liu H, Subbaroyan J, Roppolo J, DeGroat W, Tai C

13:55 186 URINARY NERVE GROWTH FACTOR IS A BETTER BIOMARKER THAN DETRUSOR WALL THICKNESS FOR THE ASSESSMENT OF OVERACTIVE BLADDER WITH INCONTINENCE
Kuo H, Liu H, Chancellor M

14:00 187 INTERSTITIAL CELL P2Y6-RECEPTORS MODULATE DETRUSOR OVERACTIVITY FOLLOWING SPINAL CORD TRANSECTION
Ikeda Y, Birder L, DeGroat W, Kanai A

14:05 188 EFFECTS OF COMBINED USE OF TROSPIUM CHLORIDE AND MELATONIN ON IN VITRO CONTRACTILITY OF RAT URINARY BLADDER
Onur R, Ozcan M, Tuygun U, Ozan T, Ayar A, Orhan I

14:10 189 MYOGENIC BASIS OF DETRUSOR OVERACTIVITY : CORRELATION OF ULTRASTRUCTURAL FEATURES IN NEUROGENIC AND NON-NEUROGENIC OVERACTIVE HUMAN DETRUSORS
Brammah S, Chan L, Tse V, Wills E

14:15 190 BLADDER DYSFUNCTION IN A NEW ANIMAL MODEL OF INCREASED LEVELS OF SUPEROXIDE IONS
Soler R, Fuellhase C, Lu B, Bishop C, Andersson K

14:20 191 PROSTAGLANDIN INVOLVEMENT IN AFFERENT SIGNALING OF THE BLADDER
Rahnama'i M, van Koeveringe G, De Wachter S, de Vente J, Gillspie J I, van Kerrebroeck P

14:25 192 CYTOKINES IN URINE INDICATES URETHRAL ORIGIN OF URGENCY IN THE "OVERACTIVE BLADDER SYNDROME"
Lofgren O

13:30 - 14:30 Session 19 (Poster) - Rehabilitation
Location: Hall C
Chairs: Kari Bø (Norway), Wendy F Bower (Hong Kong)

13:50 193 PELVIC FLOOR MUSCLE TRAINING IN THE TREATMENT OF LOWER URINARY TRACT SYMPTOMS IN WOMEN WITH MULTIPLE SCLEROSIS
Lucio A, Campos R, Perissinoto M C, Damasceno B, D'Ancona C

13:55 194 EFFECTIVENESS OF INVOLVING A NURSE SPECIALIST FOR PATIENTS WITH URINARY INCONTINENCE IN PRIMARY CARE: RESULTS OF A PRAGMATIC MULTICENTRE RANDOMISED CONTROLLED TRIAL
Albers-Heitner, MSc, PPT C, Berghmans, PhD, PPT L, Lagro-Janssen, Prof, PhD, MD A, Joore, PhD M, Nieman, PhD F, Venema, PhD, urologist P, Severens, Prof. PhD J, Winkens, PhD, MD R

14:00 195 A RANDOMIZED TRIAL OF PESSARY VS. BEHAVIORAL THERAPY VS. COMBINED THERAPY FOR TREATMENT OF STRESS URINARY INCONTINENCE
Richter H E

14:05 196 THE TREATMENT OF STRESS URINARY INCONTINENCE USING AN INCONTINENCE RING: A RANDOMIZED, CROSS-OVER TRIAL
Harvey M, Day A

14:10 197 SIMULTANEOUS PERINEAL ULTRASOUND AND VAGINAL PRESSURE MEASUREMENT PROVES THE EFFICACY OF ELECTRICAL PUDENDAL NERVE STIMULATION IN TREATING FEMALE STRESS INCONTINENCE
Siyou W, Juanjuan Y, Guomei C, Mingyi X

14:15 198 PHYSICAL THERAPY FOR PERSISTENT POSTPARTUM STRESS URINARY INCONTINENCE: A SEVEN YEAR FOLLOW-UP STUDY
Elliott V, Dumoulin C, Martin C, Morin M, Lemieux M, Bourbonnais D

14:20 199 METHODS USED BY PHYSICAL THERAPISTS TO LEARN PELVIC FLOOR MUSCLE EXAMINATION
Shelly E, Krum L

14:25 200 TRANSPLANTATION OF MUSCLE-DERIVED STEM CELL PLUS FIBRIN GLUE RESTORES URETHRAL FUNCTION IN A PUDENDAL NERVE-TRANSECTED RAT MODEL
Xu Y, Song Y

13:30 - 14:30 Session 20 (Poster) - Pain Syndromes
Location: Hall D
Chairs: Bert Messelink (Netherlands), Christopher K Payne (United States)

13:50 201 AXONOPATHIC CHANGES OF VISCERAL NERVE ENDINGS IN URINARY BLADDER IN INTERSTITIAL CYSTITIS – AN ULTRASTRUCTURAL STUDY
Zamecnik L, Zamecnik J, Hacek J, Hanus T

13:55 202 INVOLVEMENT OF UROTHELIAL CRF RECEPTORS IN MODULATING BLADDER FUNCTION
Hanna-Mitchell A, Buffington T, Mayer E, Birder L

14:00 203 MUSCARINIC AND PURINERGIC RECEPTORS IN THE RAT BLADDER ARE ALTERED BY CHEMICALLY INDUCED CYSTITIS
Yamada S, Yoshida A, Kageyama A, Mori F, Ito Y

14:05 204 ASSESSMENT OF PATIENT OUTCOMES FOLLOWING SUBMUCOSAL INJECTION OF TRIAMCINOLONE FOR TREATMENT OF HUNNER'S ULCER SUBTYPE INTERSTITIAL CYSTITIS
Cox M, Kltuke J, Klutke C

14:10 205 INVESTIGATION OF THE FUNCTION OF INTEGRIN-MEDIATED BACTERIAL ADHERENCE PROTEINS AND THEIR RECEPTORS IN WOMEN WITH RECURRENT BACTERIAL CYSTITIS AND INTERSTITIAL CYSTITIS
Price N, Carver J, Jackson S, Mardon H

14:15 206 UNILATERAL SACRAL NEUROMODULATION IN PATIENTS WITH PAINFUL BLADDER SYNDROME/INTERSTITIAL CYSTITIS: 5 YEARS FOLLOW UP
Ghazwani Y, Elkelini M, Hassouna M

14:20 207 VALIDATION OF A MODIFIED NATIONAL INSTITUTES OF HEALTH SYMPTOM INDEX TO ASSESS GENITOURINARY PAIN IN MEN AND WOMEN
Clemens J Q, Calhoun E A, Litwin M S, McNaughton-Collins M, Crowley E M, Landis J R

14:25 208 PAINFUL BLADDER AND URINARY TRACT PATHOLOGY ASSOCIATED WITH LONG TERM KETAMINE USE
Gillatt D

14:30 - 15:00 State of the Art 2: Bladder Reinnervation: Can New Nerves Improve the Function of the Neurogenic Bladder?
Location: Hall A
Chair: Karl-Erik Andersson (United States)
Speaker: William C de Groat (United States)

15:00 - 15:30 Coffee Break / Poster & Video Viewing / Exhibition

15:30 - 17:00 ICS Annual General Meeting
Location: Hall B

19:00 - 23:59 Gala Dinner aboard the San Francisco Belle
Location: San Francisco Belle

08:30 - 09:00 **Point-Counterpoint - Mesh vs No Mesh (Never Mesh: KK / Mesh Selectively: HS / Always Mesh:AS)**
Location: Hall A
Chair: Ann Gormley (United States)
Speakers: Kimberly Kenton (United States), Harriette Miles Scarpero (United States), Ajay Singla (United States)

09:00 - 10:00 **Session 21 (Podium) - Detrusor Overactivity**
Location: Hall A
Chairs: Vikram Khullar (United Kingdom), Roger Roman Dmochowski (United States)

08:30 209 A DOUBLE BLIND, PLACEBO CONTROLLED, RANDOMISED, CROSS OVER STUDY OF TRIGONE SPECIFIC INJECTIONS OF BOTULINUM TOXIN B FOR TREATING PATIENTS WITH IDIOPATHIC DETRUSOR OVERACTIVITY REFRACTORY TO OTHER CONSERVATIVE TREATMENTS
Moore K, Hirst G, Emery S, Turner A, Lucas M

08:45 210 QUALITY OF LIFE IN A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY OF OXYBUTYNIN CHLORIDE TOPICAL GEL TREATMENT OF PATIENTS WITH OVERACTIVE BLADDER
Rudy D, Hanno P, Caramelli K, Thomas H, Hoel G

09:00 211 CONDITIONAL NEUROMODULATION USING TRANS-RECTAL STIMULATION IN SPINAL CORD INJURY
Craggs M, Edirisinghe N, Leaker B, Susser J, Al-Mukhtar M, Donaldson N

09:15 212 ATP RELEASE DURING CYSTOMETRY IN WOMEN WITH DETRUSOR OVERACTIVITY AND PAINFUL BLADDER SYNDROME: CONTRIBUTION TO “URGENCY”?
Cheng Y, Allan W, Walsh C, Mansfield K J, Burcher E, Moore K H

10:00 - 10:30 **State of the Art 3: Urodynamics in 2009: Utilization, Education and Best Practices, Are They Aligned?**
Location: Hall A
Chair: Anthony Stone (United States)
Speaker: Jack Christian Winters (United States)

10:30 - 11:00 **Coffee Break / Poster & Video Viewing / Exhibition**

11:00 - 12:00 **Session 22 (Podium) - Neurourology II**
Location: Hall A
Chairs: Helmut Madersbacher (Austria), Jacques Corcos (Canada)

11:00 213 **PRIZE AWARD: Best Clinical Abstract (Joint)**
ABNORMAL BRAIN RESPONSES TO BLADDER FILLING IN YOUNG WOMEN WITH URINARY RETENTIONAND EFFECT OF SACRAL NEUROMODULATION
Kavia R, DasGupta R, Critchley H, Fowler C, Griffiths D

11:15 214 **PRIZE AWARD: Best Clinical Abstract (Joint)**
BRAIN ACTIVITY MEASURED BY FUNCTIONAL MAGNETIC RESONANCE IMAGING (FMRI) IS RELATED TO PATIENT REPORTS AND CLINICAL SEVERITY OF URGE URINARY INCONTINENCE
Tadic S, Griffiths D, Schaefer W, Cheng C, Resnick N

11:30 215 BRAIN REGIONS AND EFFECTIVE CONNECTIVITY IN VOLUNTARY CONTROL OF BLADDER SENSATIONS: AN FMRI STUDY
Hamann M, Van der Horst C, Wolff S, Jansen O, Juenemann K P, Kuhtz-Buschbeck J P

11:45 216 BLADDER MANAGEMENT AFTER SPINAL CORD INJURY IN THE UNITED STATES 1973-2005
Cameron A P, Wallner L, Sarma A, Tate D, Rodriguez G, Clemens J Q

11:00 - 12:00 **Session 23 (Podium) - Reconstructive Surgery LUT**
Location: Hall B
Chairs: Anthony Stone (United States), Karl-Dietrich Sievert (Germany)

11:00 217 PATIENT EXPECTATIONS, SUBJECTIVE IMPROVEMENT AND OBJECTIVE CURE: IS THERE A DIFFERENCE BETWEEN THE TRANSOBTURATOR TAPE AND THE TENSION FREE VAGINAL TAPE PROCEDURE?
Robert M, Birch C, Cenailo D, Murphy M, Carlson K, Baverstock R, Mainprize T, Ross S

11:15 218 THE IMPACT OF URETHROPLASTY ON VOIDING SYMPTOMS AND SEXUAL FUNCTION
Johnson E, Latini J

11:30 219 A NEW COLLAGEN-BASED UROTHELIAL TRANSPLANT FOR RECONSTRUCTIVE SURGERY OF THE LOWER URINARY TRACT
Feil G, Maurer S, Just L, Krug J, Kohler K, Stenzl A, Sievert K

11:45 220 URETHRAL DIVERTICULAE IN WOMEN: DISCREPANCIES BETWEEN MRI AND SURGICAL FINDINGS
Chung D E, Purohit R, Girshman J, Blaivas J G

12:00 - 13:00 **Lunch Break / Poster & Video Viewing / Exhibition**

12:00 - 13:00 **ICS 2009 Scientific Committee Prizes Meeting**
Location: Meeting Room 1

12:00 - 13:00 **Meet the Experts 5: Female LUTS and Fistulas**
Location: Room 2002
Experts: Firouz Daneshgari (United States), Dirk de Ridder (Belgium)

12:00 - 13:00 **Meet the Experts 6: Neurourology**
Location: Room 2002
Experts: Clare Juliet Fowler (United Kingdom), John PFA Heesakkers (Netherlands)

13:00 - 13:30 **State of the Art 4: Medical Education and the Pharmaceutical Industry - Things ain't what they used to be**
Location: Hall A
Chair: Clare Juliet Fowler (United Kingdom)
Speaker: Kate Lloyd (United Kingdom)

13:30 - 14:30 **Session 24 (Poster) - Urodynamic Techniques & BOO**
Location: Hall B
Chairs: Michael Duncan Craggs (United Kingdom), Werner Schaefer (United States)

13:50 221 COMPUTER MODEL BASED DYNAMIC URETHROVAGINAL SUPPORT ASSESSMENT FOR FEMALE SUI
Zhang Y, Timm G, Sweet R, Metzger G, Burke D, Erdman A

13:55 222 URETHRAL MOBILITY AND ITS RELATIONSHIP WITH URODYNAMIC DIAGNOSIS
Pipiris A, Shek K L, Dietz H P

14:00 223 URETHRAL SLEEVE SENSOR: A BETTER METHOD TO MEASURE URETHRAL PRESSURE DURING DYNAMIC CONDITIONS
Tan-Kim J, Weinstein M, Nager C

14:05 224 PERFORMANCE OF DISPOSABLE PRESSURE-SENSING CATHETERS DURING SIMULATED URODYNAMIC EVENTS
Awada H, Fletter P, Cooper M, Zaszczurynski P, Damaser M

14:10 225 URINE FLOW RATES IN WOMEN WITH SYMPTOMS OF PELVIC FLOOR DYSFUNCTION
Haylen B, Lee J, Zhou J, Law M

14:15 226 THE FIRST METHOD OF CONTINUOUS AND NON-INVASIVE BLADDER PRESSURE MEASUREMENT
Clarkson B, Robson W, McArdle F, Griffiths C, Pickard R, Drinnan M

14:20 227 URODYNAMIC APPRAISAL OF THE EFFECT OF THE A-BLOCKER ALFUZOSIN ON FEMALE PRIMARY BLADDER NECK OBSTRUCTION
Athanasopoulos A, Gyftopoulos K, Giannitsas K, Perimenis P

14:25 228 URODYNAMIC GRADING OF BLADDER OUTFLOW CONDITIONS IN FEMALES
Schaefer W, Chen Y, Tadic S, Griffiths D, Resnick N

13:30 - 14:30 **Session 25 (Poster) - Basic Pharmacology**
Location: Hall C
Chairs: Karl-Erik Andersson (United States), Yasuhiko Igawa (Japan)

13:50 229 EFFECTS OF CL316,243, A BETA3-ADRENOCEPTOR AGONIST, AND PROSTAGLANDIN E2 ON THE PRIMARY BLADDER AFFERENT ACTIVITY OF THE RAT
Aizawa N, Igawa Y, Wyndaele J J

13:55 230 ALLYL ISOTHYOCYNATE INDUCES BLADDER OVERACTIVITY VIA DIRECT ACTIVATION OF BOTH TRPA1 AND TRPV1
Everaerts W, Talavera K, Gees M, Leten C, Voets T, Nilius B, De Ridder D

14:00 231 ACID, BUT NOT CAPSAICIN, IS AN EFFECTIVE STIMULUS FOR ATP RELEASE IN THE PORCINE BLADDER MUCOSA
Sadananda P, Mansfield K J, Burcher E

14:05 232 SPONTANEOUS CONTRACTILE ACTIVITY OF THE UROTHELIUM IS INCREASED BY MUSCARINIC AND PURINERGIC RECEPTOR STIMULATION
Moro C, Milligan C, Leeds C, Chess-Williams R

14:10 233 DEPRESSED UROTHELIAL INHIBITION OF DETRUSOR CONTRACTIONS IN THE HUMAN NEUROGENIC OVERACTIVE BLADDER
Chess-Williams R, Cross R, Chapple C

14:15 234 ROLE OF UROTHELIUM ON BETA-3-ADRENOCEPTOR MEDIATED RELAXATION IN HUMAN DETRUSOR MUSCLE
Propping S, Wuest M, Eichhorn B, Grimm M, Wirth M, Kaumann A, Ravens U

14:20 235 DISTRIBUTION OF ß-ADRENOCEPTOR SUBTYPES IN SUBUROTHELIAL INTERSTITIAL CELLS OF THE HUMAN URINARY BLADDER
Otsuka A, Matsumoto R, Shinbo H, Imanishi T, Kurita Y, Ozono S

14:25 236 THE EXPRESSION OF TRANSIENT RECEPTOR POTENTIAL (TRP) V4, A1, AND V1 IN THE HUMAN BLADDER MUCOSA OF NORMAL AND BLADDER OUTLET OBSTRUCTION - A NOVEL MECHANISM IN THE OBSTRUCTION-INDUCED BLADDER OVERACTIVITY
Miyamoto T, Mochizuki T, Zakohji H, Kobayashi H, Yoshiyama M, Araki I, Takeda M

13:30 - 14:30 **Session 26 (Poster) - Neuromodulation (Basic & Clinical)**
Location: Hall D
Chairs: Philip Edward van Kerrebroeck (Netherlands), Graham H Creasey (United States)

13:50 237 SACRAL NERVE STIMULATION PREVENTS THE FUNCTIONAL AND STRUCTURAL CHANGES ASSOCIATED WITH BLADDER OUTLET OBSTRUCTION: A RAT MODEL
Comiter C, Phull H, Salkini M, Mazar C

13:55 238 THE EFFECTS OF SACRAL ACUPUNCTURE ON ACETIC ACID-INDUCED BLADDER IRRITATION IN CONSCIOUS RATS
Hino K, Honjo H, Nakao M, Kitakoji H

14:00 239 PRIMARY SOMATOSENSORY EVOKED MAGNETIC FIELDS BY DORSAL PENILE NERVE STIMULATION
Matsushita M, Nakagawa H, Nakasato N, Kanno A, Kaiho Y, Kawamorita N, Arai Y

14:05 240 URETHRAL SPHINCTER EMG CONTROLLED DORSAL PENILE/CLITORAL NERVE STIMULATION TO TREAT NDO
Opisso E, Borau A, Rijkhoff N

14:10 241 IS COST THE ACHILLES HEEL OF POSTERIOR TIBIAL NERVE STIMULATION? A COST MINIMISATION COMPARISON WITH ANTIMUSCARINIC THERAPY IN THE MANAGEMENT OF OAB
Robinson D, Jacklin P, Cardozo L

14:15 242 6 AND 12 MONTH RESULTS FROM ORBIT TRIAL COMPARING PERCUTANEOUS TIBIAL NERVE STIMULATION (PTNS) VS. EXTENDED-RELEASE TOLTERODINE
Peters K, MacDiarmid S, Wooldridge L, Leong F C, Shobeiri S A, Rovner E, Siegel S, Tate S, Faegins B

14:20 243 SACRAL NEUROMODULATION IN DIABETIC PATIENTS: SUCCESS AND COMPLICATIONS IN THE TREATMENT OF VOIDING DYSFUNCTION
Powell C, Daniels D, Braasch M, Kreder K

14:25 244 SACRAL NERVE STIMULATION FOR FECAL INCONTINENCE, A PROSPECTIVE, MULTICENTRE, SCOTTISH STUDY
Thornton M, Collie M, McKinlay A, Bartolo D

13:30 - 14:30 **Session 27 (Poster) - Pelvic Floor & Lower Bowel**
Location: Hall E
Chairs: Christine Norton (United Kingdom), Alois Martan (Czech Republic)

13:50 245 MESENCHYMAL STEM CELLS IMPROVE FUNCTIONAL OUTCOME AFTER ANAL SPHINCTER INJURY IN AN ANIMAL MODEL
Zutshi M, Salcedo L, Penn M, Mayorga M, Hull T, Damaser M

13:55 246 PREVALENCE OF URINARY AND BOWEL PROBLEMS IN GYNAECOLOGIC MALIGNANCIES – A CROSS SECTIONAL STUDY
Pushpalatha K, Sharma J B, Sunesh K, Roy K K, Lalit K, Sharma D N

14:00 247 INCIDENCE AND RISK FACTORS FOR FECAL INCONTINENCE IN OLDER MEN AND WOMEN
Markland A, Goode P, Burgio K, Redden D, Richter H E, Allman R, Sawyer P

14:05 248 DO LEVATOR DEFECTS INCREASE THE RISK OF PROLAPSE RECURRENCE AFTER PELVIC FLOOR SURGERY?
Model A, Shek K L, Dietz H P

14:10 249 ULTRASOUND ASSESSMENT OF THE VAGINAL MESH SHRINKING IN PATIENT WITH ANTERIOR VAGINAL WALL REPAIR
Svabik K, Martan A, Masata J, El Haddad R

14:15 250 A PROSPECTIVE INTEROBSERVER STUDY USING THE POPSTIX DEVICE, A MEASURING TOOL TO SIMPLIFY POPQ MEASUREMENT
Hayward L, Wong V, Tomlinson L, Smalldridge J

14:20 251 IS LEVATOR AVULSION A RISK FACTOR FOR RECURRENCE AFTER ANTERIOR COLPORRHAPHY?
Dietz H P, Shek K L, Chantarasorn V

14:25 252 THE OPTIMAL ANTERIOR REPAIR STUDY (OARS): A TRIPLE ARM RANDOMIZED DOUBLE BLINDED CLINICAL TRIAL OF STANDARD COLPORRHAPHY, PORCINE DERMIS OR POLYPROLYLENE MESH AUGMENTED ANTERIOR VAGINAL WALL REPAIR
Dyer K, Nguyen J, Lukacz E, Simsiman A, Luber K, Menefee S

14:30 - 15:00 **Coffee Break / Poster & Video Viewing / Exhibition**

15:00 - 16:00 **Session 28 (Poster) - Pregnancy/Childbirth & Outcome**
Location: Hall B
Chairs: Siv Morkved (Norway), Heinz Koelbl (Germany)

15:20 253 URINARY INCONTINENCE IN NULLIPAROUS WOMEN: INCIDENCE AND ASSOCIATED RISK FACTORS
Brown S, Donath S, MacArthur C, McDonald E, Krastev A

15:25 254 CAN LEVATOR AVULSION BE PREDICTED ANTENATALLY?
Shek K L, Chantarasorn V, Dietz H P

15:30 255 INTRAPARTUM AND POSTNATAL BLADDER CARE: A SURVEY OF MIDWIVES' CURRENT PRACTICE
Carr D, Cook V

15:35 256 RESIDENCY AND RISK OF OBSTETRIC ANAL SPHINCTER INJURY IN MIGRANT SOUTH ASIAN WOMEN
Cartwright R, Al Memar M

15:40 257 INFLUENCE OF MATERNAL WEIGHT IN THE PERSISTENCE OF PREGNANCY STRESS URINARY INCONTINENCE ONE YEAR AFTER FIRST DELIVERY
Diez Itza I, Arrue M, Ibañez L, Paredes J, Murgiondo A, Sarasqueta C

15:45 258 FOUR YEARS AFTER FIRST DELIVERY, DO URINARY INCONTINENCE AND ANAL INCONTINENCE SHARE SAME OBSTETRICAL RISK FACTORS?
Fritel X, Khoshnood B, Fauconnier A

15:50 259 URINARY INCONTINENCE 12 YEARS AFTER FIRST CHILDBIRTH IN A COHORT OF 235 WOMEN
Fritel X, Morel K, Quiboeuf E, Fauconnier A

15:55 260 OVINE MODEL OF OBSTETRIC FISTULA
Crawford B, Zanjani E, Thain D, Stanford E, Van Andel R, Pixley J, Milsap L, Keller P

15:00 - 16:00 **Session 29 (Poster) - Painful Bladder Syndrome / IC**
Location: Hall C
Chairs: Ragi Doggweiler (United States), Stefan de Wachter (Belgium)

15:20 261 PREVALENCE OF INTERSTITIAL CYSTITIS/ PAINFUL BLADDER SYNDROME IN THE UNITED STATES
Clemens J Q, Stoto M A, Elliott M, Suttorp M, Bogart L, Berry S H

15:25 262 CXCR3 AND RELATED CHEMOKINES AS POSSIBLE BIOMARKERS FOR ULCERATIVE INTERSTITIAL CYSTITIS
Ogawa T, Seki S, Imamura T, Igawa Y, Nishizawa O, Homma T, Akahane S, Homma Y

15:30 263 ELEVATED URINARY LEVELS OF HEPATOCARCINOMA-INTESTINE-PANCREAS/PANCREATITIS-ASSOCIATED PROTEIN (HIP/PAP) IN PATIENTS WITH PAINFUL BLADDER SYNDROMES/INTERSTITIAL CYSTITIS (PBS/IC)
Makino T, Kawashima H, Konishi H, Tanaka T, Nakatani T, Kiyama H

15:35 264 PHYSICAL FINDINGS IN PATIENTS WITH UROLOGIC CHRONIC PELVIC PAIN SYNDROMES (UCPPS)
Kotarinos R, Fortman C, Neville C, Badillo S, O'Dougherty B, Fraser L, Lynch A, Odabachian L, Sanfield A, Fitzgerald M P, Clemens J Q, Potts J

15:40 265 DIFFERENTIAL DIAGNOSIS OF PAINFUL BLADDER SYNDROME/INTERSTITIAL CYSTITIS USING INFRARED MICROSPECTROSCOPY
Gilleran J, Pozza M, Dimitrakov J, Stella J, Rodriguez-Saona L, Buffington T

15:45 266 DEFECTIVE SPINAL MODULATION OF NOCICEPTIVE PROCESSING IN PATIENTS WITH PAINFUL BLADDER SYNDROMEINTERSTITIALCYSTITIS (PBS-IC) MAY PLAY AN ESSENTIAL ROLE IN THE PATHOPHYSIOLOGY OF THE DISEASE
Malaguti S, Mako A, Natale F, Lamarche J, Cervigni M

15:50 267 BLADDER-COLON CROSS-SENSITIZATION INDUCED BLADDER OVERACTIVITY
Zabbarova I, Birder L, Roppolo J, DeGroat W, Kanai A

15:55 268 MOUSE MODEL FOR CHARACTERIZATION OF RADIATION CYSTITIS AND ITS PREVENTION USING A NEW CLASS OF RADIOPROTECTORS
Zabbarova I, Wipf P, Birder L, Epperly M, DeGroat W, Kanai A

15:00 - 16:00 Session 30 (Poster) - Anatomy & Imaging
Location: Hall D
Chairs: John Gosling (United States), Hans Peter Dietz (Australia)

15:20 269 ANATOMY OF THE UTEROSACRAL LIGAMENT
Dzung V, Haylen B, Kelly T, Annabelle F

15:25 270 THE CLINICAL IMPORTANCE OF PUDENDAL NERVE COURSE
Grill R, Smrzova T, Baca V, Otcenasek M, Urban M, Kachlik D, Dzupa V

15:30 271 COURSE OF THE DORSAL NERVE OF THE CLITORIS
Ginger V A, Yang C

15:35 272 PERINEAL APPROACH TO VASCULAR ANATOMY DURING TRANSOBTURATOR CYSTOCELE REPAIR
Bader G

15:40 273 A SIMPLIFIED METHOD FOR DETERMINING HIATAL BIOMETRY
Wong V, Dietz H P

15:45 274 UNILATERAL CORONAL DIAMETERS OF THE LEVATOR HIATUS: BASELINE DATA FOR THE AUTOMATED DETECTION OF AVULSION OF THE PUBORECTALIS MUSCLE
Ismail S, Shek K, Dietz H P

15:50 275 THREE-DIMENSIONAL VIRTUAL-REALITY RECONSTRUCTION OF PELVIC FLOOR STRUCTURE FOR PATIENTS WITH FEMALE STRESS URINARY INCONTINENCE
Hu L, Song Y

15:55 276 REAL-TIME MEASUREMENT OF OXYHEMOGLOBIN CONCENTRATION CHANGES IN THE FRONTAL MICTURITION AREA: AN FNIRS STUDY
Sakakibara R, Tsunoyama K, Takahashi O, Uchiyama T, Yamamoto T, Yamanishi T, Kishi M, Ogawa E, Awa Y, Yamaguchi C

15:00 - 16:00 Session 31 (Poster) - Nocturia & Incontinence
Location: Hall E
Chairs: Edwin Paterson Arnold (New Zealand), Jerry G Blaivas (United States)

15:20 277 NOCTURIA PREVALENCE AND ASSOCIATION WITH CHRONIC MEDICAL ILLNESS, 2-YEAR MORTALITY IN OLDER PUERTO RICAN MEN
Fitzgerald M P, Davila Ramon A L, Garcia A, Palloni A, Tong L, Durazo-Arvizu R, Durazo-Arvizu R

15:25 278 THE EFFECT OF NOCTURIA ON HEALTH-RELATED QUALITY OF LIFE AND MOS SLEEP SCORE IN FEMALE
Kim S, Kwon D, Hwang E C, Rho J, Jeong H J, Kim M K, Choi H S, Ryu S B, Jung S I, Im C M, Oh K J

15:30 279 THE INCIDENCE AND PREVALENCE OF NOCTURIA (INCREASED NOCTURNAL VOIDING FREQUENCY): RESULTS FROM A COMMUNITY BASED COHORT STUDY IN OLDER MEN
van Doorn B, Blanker M, Bosch R

15:35 280 IMPACT OF NOCTURIA ON MEDICAL CARE USE AND ITS COSTS IN AN ELDERLY POPULATION: 30 MONTH PROSPECTIVE OBSERVATION OF NATIONAL HEALTH INSURANCE BENEFICIARIES IN JAPAN
Nakagawa H, Ikeda Y, Kaiho Y, Matsushita M, Hozawa A, Ohmori-Matsuda K, Tsuji I, Arai Y

15:40 281 VOIDING FUNCTION IN WOMEN WITH ORTHOTOPIC NEOBLADDER DIVERSION
Kaufman M, Wolter C, Lowrance W, Scarpero H, Dmochowski R, Cookson M, Smith, Jr. J

15:45 282 THE AGE OF RECOVERY FROM ENURESIS CORRELATES WITH THE NATURAL COURSE OF OAB IN ADULTS
Al-Shukri S, Kuzmin I, Lukina E

15:50 283 ANXIETY AND DEPRESSION ASSOCIATED WITH INCONTINENCE IN MIDDLE AGED WOMEN
Felde G, Bjelland I, Hunskaar S

15:55 284 THE EPIDEMIOLOGICAL STUDY OF WOMEN WITH URINARY INCONTINENCE AND RISK FACTORS FOR STRESS URINARY INCONTINENCE IN CHINA
Zhu L

16:00 - 16:30 Closing Ceremony & Prizes
Location: Hall A

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Cheng Y[1], Allan W[2], Walsh C[2], Mansfield K J[3], Burcher E[4], Moore K H[1]
1. *St George Hospital, University of New South Wales,* ***2.*** *St George Hospital,* ***3.*** *University of Wollongong,* ***4.*** *University of New South Wales*

ATP RELEASE DURING CYSTOMETRY IN WOMEN WITH DETRUSOR OVERACTIVITY AND PAINFUL BLADDER SYNDROME: CONTRIBUTION TO "URGENCY"?

Hypothesis / aims of study

ATP is an important signalling molecule whose release from the bladder urothelium in response to stretch is thought to stimulate afferent nerves and thus convey information about bladder fullness (and the sensation of urgency). Our aim was to measure the release of ATP during urodynamic filling of bladders of women with idiopathic detrusor overactivity (DO), painful bladder syndrome (PBS) and stress incontinence (controls), in order to test the hypothesis that ATP release might play a role in bladder function and/or dysfunction.

Study design, materials and methods

Routine cystometry was performed on 118 women aged 28-87 years. Informed consent was obtained and the study was approved by the local human ethics committee. Saline was infused into the bladder at a filling rate of 75ml / min. The volumes at first desire to void (FDV) and maximal cystometric capacity (MCC) were noted. The presence of any detrusor contractions during filling, erect provocation and tap water stimulus were recorded. After voiding, the saline bladder washings were collected, the volume voided noted and the bladder washings were snap frozen at -30°C. ATP was measured using a bioluminescence assay (Sigma) and a luminometer (GloMax 20/20). The concentration of ATP (nmoles/l) in each sample was calculated. Patients were characterised as (a) DO (involuntary detrusor contractions during the filling phase which may be spontaneous or provoked), (b) PBS (FDV ≤200 ml, MCC ≤400 ml, stable bladder) or (c) control (neither DO or PBS, i.e. pure urodynamic stress incontinence, involuntary leakage of urine during increased abdominal pressure in the absence of detrusor contractions). Subjects found to have bacterial cystitis on a catheter specimen of urine on the test day (10^7 c.f.u./l with pyuria >10 wbc/l) were excluded from the study. Overall subject numbers comprised 49 DO, 18 PBS and 51 control women. Data were expressed as median (interquartile range, IQR). Correlations between two factors were tested by linear regression analysis.

Results

Figure 1. Correlation of ATP concentration in bladder washing with maximal cystometric capacity (MCC) in all patients (control (○), DO (◆) and PBS (▲) patients). There was a significant inverse correlation between maximal bladder capacity and ATP concentration in the bladder washings from all of the patients (r^2 = 0.07, P = 0.003): that is, the smaller the maximal capacity, the greater the ATP concentration (Fig 1). Analysis of the correlation between the ATP concentration in the individual patient sub-groups revealed a similar trend in control and DO patients, but this was significant only in control patients (P = 0.013, r^2 = 0.12).

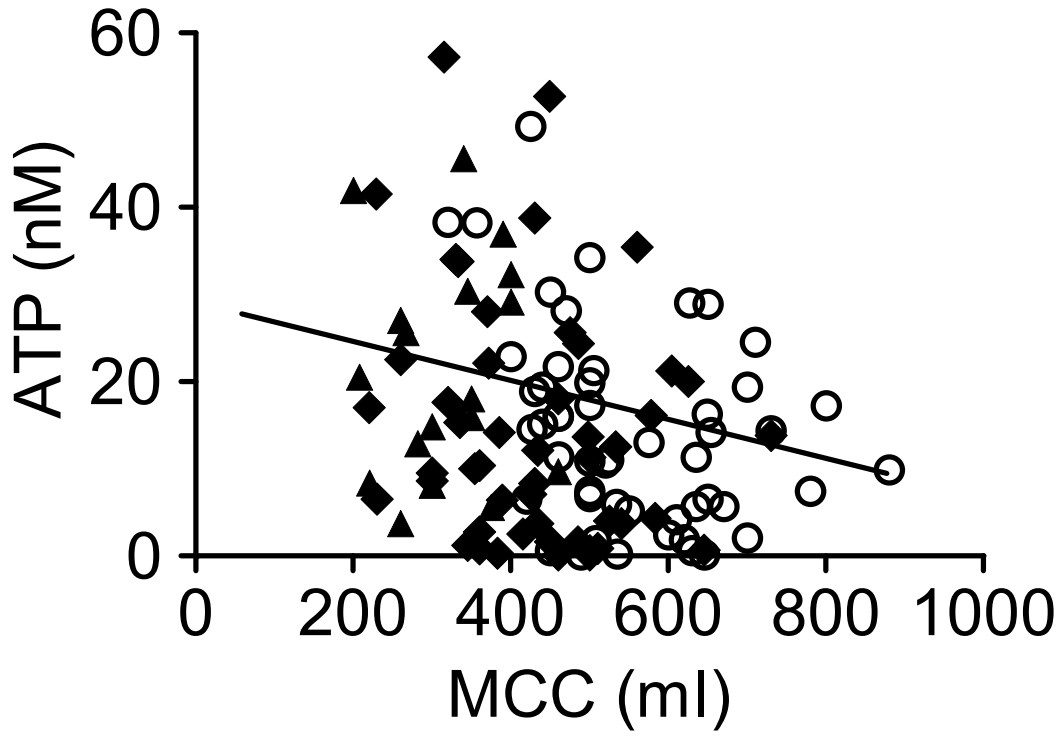
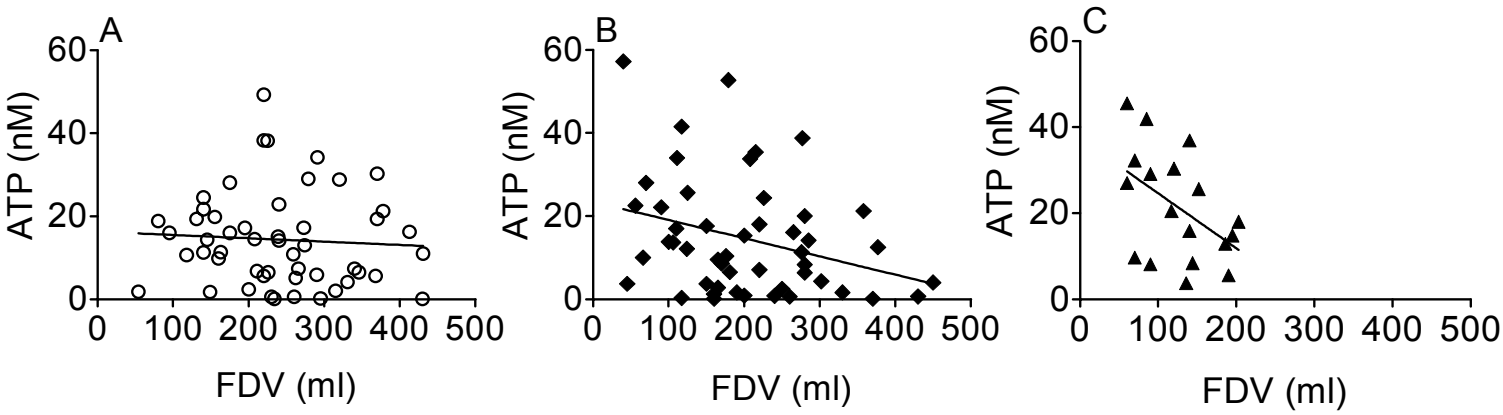


Figure 2. Correlation of ATP concentration in bladder washings with first desire to void (FDV) in (A) control patients, (B) DO patients and (C) PBS patients.



There was a significant correlation between FDV and ATP concentration in the bladder washings in DO (Fig 2B, r^2 = 0.096, P = 0.03) and PBS (Fig 2C, r^2 = 0.23, P=0.04) patients, but not in control patients (Fig 2A, r^2 = 0.004, P = 0.65).

Interpretation of results

This appears to be the first study showing that ATP release can be analyzed in the fluid voided after cystometry testing, which opens new avenues of research. In the present study, there was a general correlation between ATP release and MCC. That is, the lower the MCC, the higher the ATP concentration in the bladder washing. This is in accordance with data from human mucosal strips where stretch increases ATP release [1]. Our findings suggest that the intravesical concentration of ATP might be an important factor in the sensation of maximum bladder capacity. As regards the first desire to void, there was no correlation between bladder washing ATP concentration and FDV in control patients. However, there was a significant correlation between ATP and FDV in DO and PBS patients. That is, higher ATP release was related with a lower FDV, in these two groups. This is in accordance with recent studies in bladder mucosal strips showing enhanced ATP release in response to stretch in patients with PBS [2].

Concluding message

The measurement of ATP in cells from cystometry washings is a novel approach to understanding the signals that may contribute to the sensation of “urgency” (the sudden compelling desire to void). The inverse correlation between ATP release and maximum capacity suggests that ATP released during bladder filling plays a role in modulating afferent sensation. The relationship between ATP and FDV seen only in the DO / PBS patients suggests that ATP release may be more readily triggered in these women.

References

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2. Kumar V, Chapple CR, Surprenant AM, Chess-Williams R (2007). Enhanced adenosine triphosphate release from the urothelium of patients with painful bladder syndrome: a possible pathophysiological explanation. J Urol 2007 178: 1533-1536

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Was this study approved by an ethics committee?	**Yes**
Specify Name of Ethics Committee	**St George Hospital Human Ethics Committee, Sydney, Australia**
Was the Declaration of Helsinki followed?	**Yes**
Was informed consent obtained from the patients?	**Yes**