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M.J. Morris, D. Huang, W.K. Kelly, S.F. Slovin, R.D. Stephenson, C. Eicher, A. Delacruz, T. Curley, L.H. Schwartz, H.I. Scher

This study shows that state-specific trial designs using contemporary indices of treatment effect can be used safely to test exogenous testosterone in patients with castration-resistant metastatic prostate cancer. We will explore this concept in patients enriched for androgen receptor-overexpressing tumors.

Testosterone Therapy in Castrate-Resistant Prostate Cancer: A Possible New Approach

R.A. Gardiner, C. Sweeney, W.D. Tilley



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P-U. Malmström, R.J. Sylvester, D.E. Crawford, M. Friedrich, S. Krege, E. Rintala, E. Solsona, S.M. Di Stasi, J.A. Witjes

For prophylaxis of recurrence, maintenance bacillus Calmette-Guérin is required to demonstrate superiority to mitomycin C. There were no statistically significant differences regarding disease progression, overall survival, or cancer-specific survival between the two treatments reviewed in this meta-analysis.

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Eur Urol 2009;56:257-8

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Long-term Efficacy of Maintenance Bacillus Calmette-Guérin versus Maintenance Mitomycin C Instillation Therapy in Frequently Recurrent TaT1 Tumours without Carcinoma In Situ: A Subgroup Analysis of the Prospective, Randomised FinnBladder I Study with a 20-Year Follow-up

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R. Järvinen, E. Kaasinen, A. Sankila, E. Rintala, FinnBladder Group

Bacillus Calmette-Guérin instillation therapy significantly reduces recurrence in frequently recurrent bladder cancer. It is, however, difficult to demonstrate its impact on overall survival because of the low progression rate, the limited efficacy on progression, and the high proportion of competing causes of death.

Bacillus Calmette-Guérin versus Mitomycin C for the Treatment of Intermediate-Risk Non-Muscle-Invasive Bladder Cancer: The Debate Continues

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Rebuttal from Authors re: Richard J. Sylvester. Bacillus Calmette-Guérin versus Mitomycin C for the Treatment of Intermediate-Risk Non-Muscle-Invasive Bladder Cancer: The Debate Continues. Eur Urol 2009;56:266-8

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S.A. Tomlins, A. Bjartell, A.M. Chinnaiyan, G. Jenster, R.K. Nam, M.A. Rubin, J.A. Schalken

Ongoing work suggests that the discovery of E twenty-six (ETS) gene fusions in prostate cancer can be translated to clinical practice. Likely areas of impact include early detection, diagnosis, treatment decisions, and therapeutic targeting.

A New Generation of Optical Diagnostics for Bladder Cancer: Technology, Diagnostic Accuracy, and Future Applications 287

E.C.C. Cauberg, D.M. de Bruin, D.J. Faber, T.G. van Leeuwen, J.J.M.C.H. de la Rosette, T.M. de Reijke

[Editorial Comments by L.G. Gomella and by R.T. Bryan]

Recent developments in optical diagnostics for bladder cancer show promising first results to overcome the limitations of current methods, but more research is needed before possible implementation of these techniques in the management of bladder cancer.

Basic Mechanisms of Urgency: Preclinical and Clinical Evidence 298

M.C. Michel, C.R. Chapple

[Editorial Comments by G. Novara and by J.-J. Wyndaele]

Multiple mechanisms have been proposed to underlie the lower urinary tract storage symptom of urgency. Although none has been proven, these proposed mechanisms are not mutually exclusive, and in specific patients, different admixtures of causes may be present.

Androgens and Morphologic Remodeling at Penile and Cardiovascular Levels: A Common Piece in Complicated Puzzles? 309

V. Mirone, C. Imbimbo, F. Fusco, P. Verze, M. Creta, G. Tajana

Testosterone regulates morphologic homeostasis at penile and cardiovascular levels, whereas hypogonadism is associated with pathologic remodeling. Endothelial cells and smooth-muscle cells are involved at both the penile and the cardiovascular levels.

Surgery in Motion



Current Technique of Open Intrafascial Nerve-Sparing Retropubic Prostatectomy 317

L. Budäus, H. Isbarn, T. Schlomm, H. Heinzer, A. Haese, T. Steuber, G. Salomon, H. Huland, M. Graefen

This paper describes a current technique of open retropubic intrafascial nerve-sparing prostatectomy. Surgical refinements include a strict intrafascial approach and subtle preservation of the posterior urethra and its insertion. Considering these principles, favourable functional and oncological outcome combined with a low morbidity of the procedure can be achieved.

Prostate Cancer



Impact of Percutaneous Suprapubic Tube Drainage on Patient Discomfort after Radical Prostatectomy 325

L.S. Krane, M. Bhandari, J.O. Peabody, M. Menon

[Editorial Comment by V. Ficarra, W. Artibani]

Percutaneous suprapubic tube drainage is feasible and safe and results in less patient discomfort than urethral catheterization following robot-assisted laparoscopic radical prostatectomy.

Kidney Cancer



Augmented Reality: A New Tool To Improve Surgical Accuracy during Laparoscopic Partial Nephrectomy? Preliminary In Vitro and In Vivo Results 332



D. Teber, S. Guven, T. Simpfendorfer, M. Baumhauer, E.O. Guven, F. Yencilek, A.S. Gozen, J. Rassweiler

Augmented reality (AR) enables the fusion of preoperative and intraoperative data in real time during laparoscopic partial nephrectomy. AR seems to be a promising tool in vitro as well as in vivo to improve surgical accuracy.

Penile Cancer



Scanning with 18F-FDG-PET/CT for Detection of Pelvic Nodal Involvement in Inguinal Node-Positive Penile Carcinoma

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N.M. Graafland, J.A.P. Leijte, R.A. Valdés Olmos, C.A. Hoefnagel, H.J. Teertstra, S. Horenblas

Penile carcinoma patients with inguinal lymph node involvement have an increased risk for further lymphatic spread. Positron emission tomography with computed tomography scanning appears promising for detecting pelvic metastases with great accuracy in these patients, and it identifies distant metastases.

Voiding Dysfunction



Characteristics of Spontaneous Activity in the Bladder Trigone

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A. Roosen, C. Wu, G. Sui, R.A. Chowdhury, P.M. Patel, C.H. Fry

[Editorial Comments by C. Gratzke, M. Seitz and by P. Hedlund]

Trigonal smooth muscle cells employ membrane L-type-Ca²⁺ and Cl⁻ channels to generate pronounced spontaneous activity. Extensive electrical coupling ensures propagation throughout the whole trigone and its sustained contraction, which in turn may enable the trigone to keep the orifices open and the bladder neck shut during bladder filling.

Renal Disease



Perioperative Morbidity of Laparoscopic Cryoablation of Small Renal Masses with Ultrathin Probes: A European Multicentre Experience

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M.P. Laguna, P. Beemster, P. Kumar, H.C. Klingler, S. Wyler, C. Anderson, F.X. Keeley, A. Bachmann, J. Rioja, C. Mamoulakis, M. Marberger, J.J. de la Rosette

[Editorial Comment by S.E. Eggener]

Laparoscopic cryoablation of small renal masses with ultrathin needles has an acceptable rate of perioperative negative outcomes and complications. Cardiac conditions, increasing tumour size, and female gender are risk factors for development of negative perioperative outcomes. A tumour size cut-off of 3.4 cm has the best trade-off between sensitivity and specificity for prediction of negative outcomes.



Andrology



A First Prospective, Randomized, Double-Blind, Placebo-Controlled Clinical Trial Evaluating Extracorporeal Shock Wave Therapy for the Treatment of Peyronie's Disease

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A. Palmieri, C. Imbimbo, N. Longo, F. Fusco, P. Verze, F. Mangiapia, M. Creta, V. Mirone

[Editorial Comment by A. Martin Morales]

In patients with Peyronie's disease treated with extracorporeal shock wave therapy, significant improvement of painful erections and erectile function is observed at 12-wk follow-up compared with placebo.

Sexual Medicine



Correction of Erosion after Suburethral Sling Insertion for Stress Incontinence: Results and Related Sexual Function

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A. Kuhn, C. Eggeman, F. Burkhard, M.D. Mueller

[Editorial Comments by R. Dmochowski, H. Scarpero and by A.L. Smith, S. Raz]

Erosion after sling insertion can be treated by reclosure of the epithelium with a short-term success rate of 89% and improvement of sexual function.

Hydrogen Sulphide Is Involved in Testosterone Vascular Effect

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M. Bucci, V. Mirone, A. Di Lorenzo, V. Vellecco, F. Roviezzo, V. Brancaleone, I. Ciro, G. Cirino

[Editorial Comment by A. Salonia]

In rat aorta, testosterone induces an increase of H₂S generation, most likely through a positive modulation of both CSE and CBS activity. The H₂S generated, in turn, acts on K_{ATP} channels, modulating the vasodilator effect of testosterone.

Pediatric Urology



Retroperitoneal Laparoscopic Heminephrectomy in Duplex Kidney in Infants and Children: A 15-Year Experience

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M.-D. Leclair, I. Vidal, E. Suply, G. Podevin, Y. H eloury

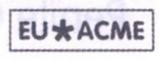
[Editorial Comments by R. Katz and by A. Zisman, J. Ben-Chaim]

Laparoscopic retroperitoneal partial nephrectomy is feasible in children and infants whatever their age, with a low incidence of complications. Nonetheless, this procedure remains technically challenging, especially for upper-pole heminephrectomy with dilated urinary tract in very small infants.

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