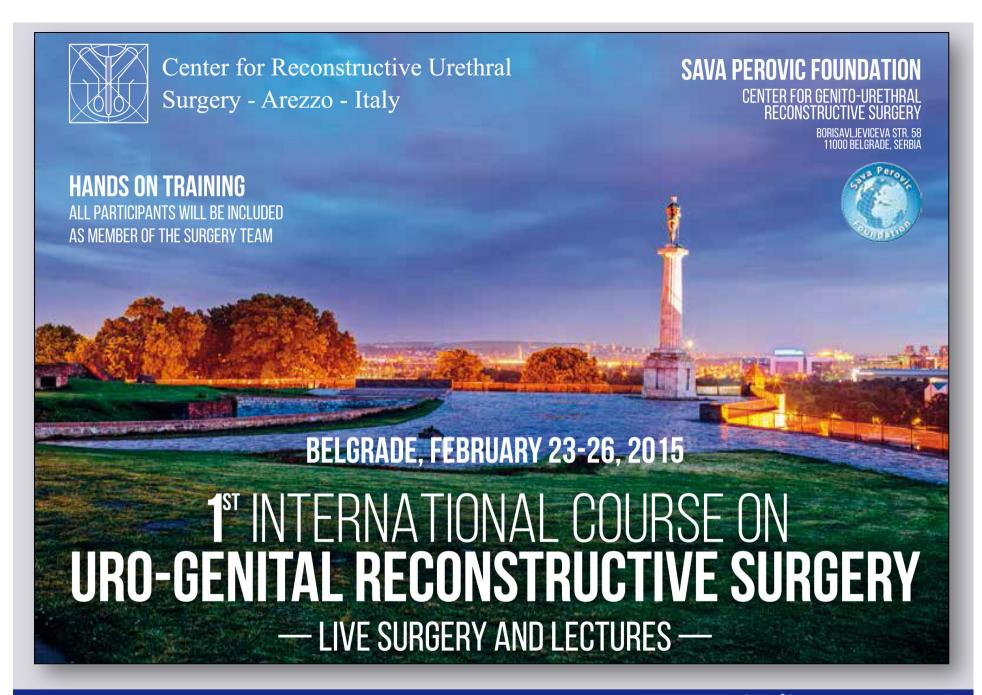
CENTER FOR RECONSTRUCTIVE URETHRAL SURGERY



e-mail: info@urethralcenter.it

Websites: www.uretra.it www.urethralcenter.it



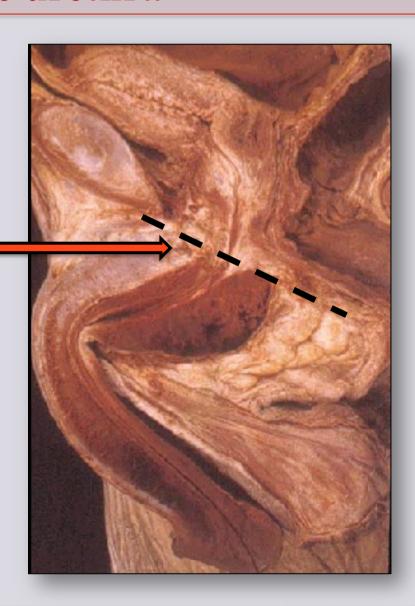
Anatomy of male urethra and surgical approaches: concepts and concerns



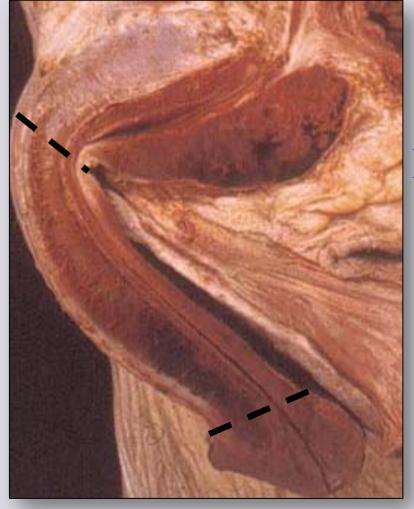
Male urethra

Posterior urethra

Anterior urethra



Anterior urethra



Bulbar urethra

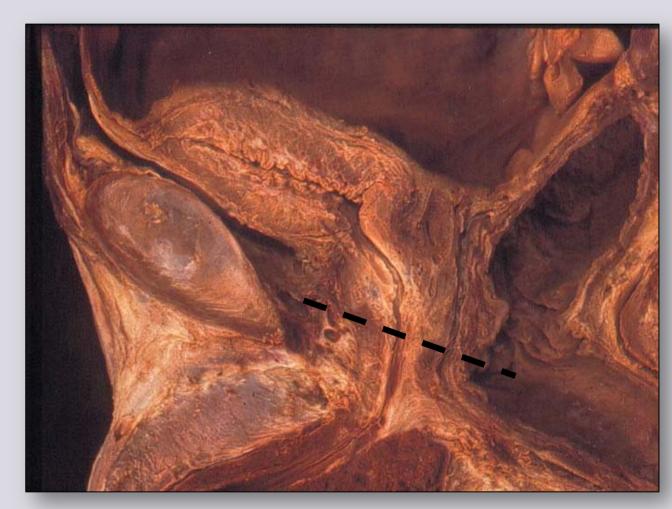
Penile urethra

Navicularis urethra

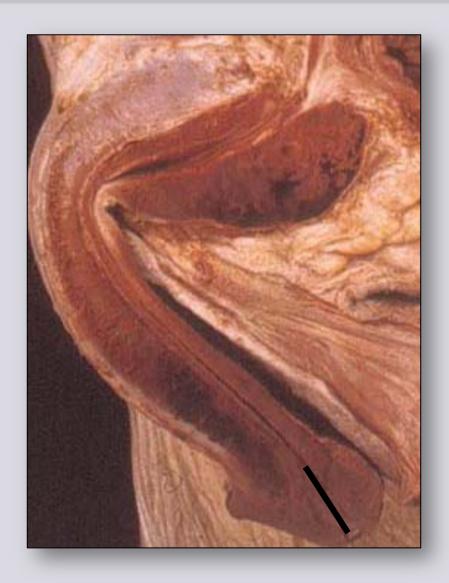
Posterior urethra

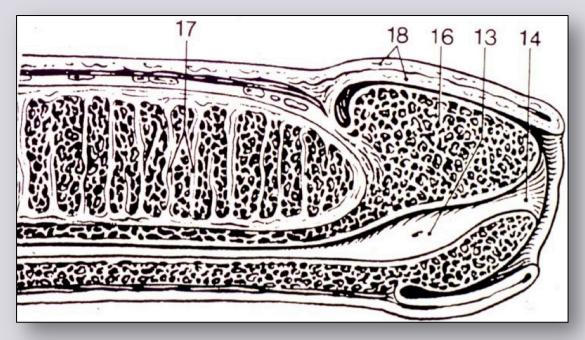
Prostatic urethra

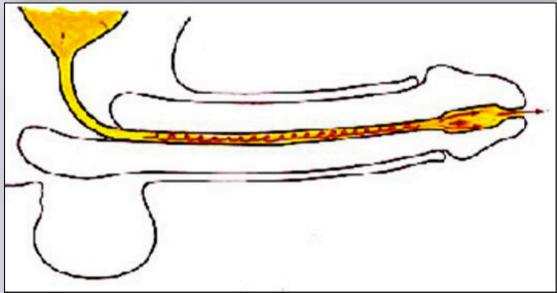
Membranous urethra

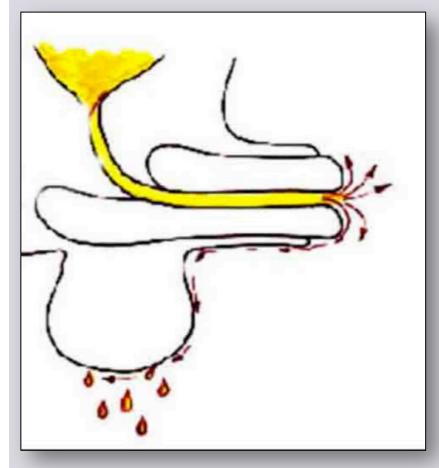


Navicularis urethra

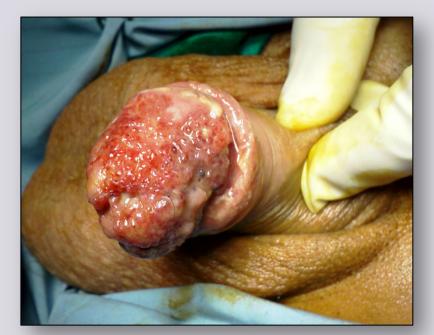








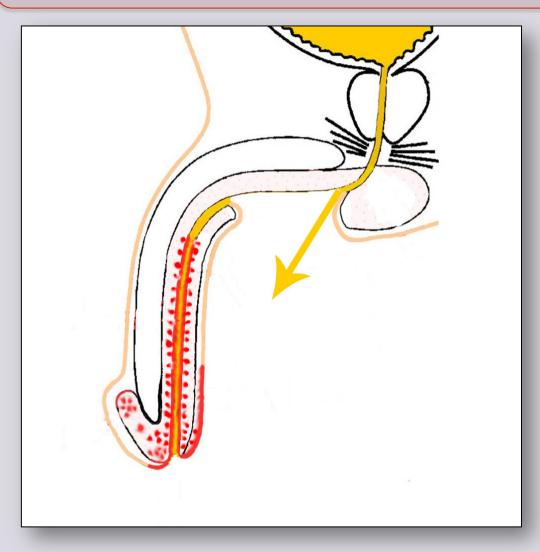








Perineal urethrostomy diverts urine from diseased tissues









HEROIC MEASURES MAY NOT ALWAYS BE JUSTIFIED IN EXTENSIVE URETHRAL STRICTURE DUE TO LICHEN SCLEROSUS (BALANITIS XEROTICA OBLITERANS)

ANDREW C. PETERSON, ENZO PALMINTERI, MASSIMO LAZZERI, GIORGIO GUANZONI, GUIDO BARBAGLI, AND GEORGE D. WEBSTER

Urology 2004; 64: 565-586

Clinical Outcome and Quality of Life Assessment in Patients Treated With Perineal Urethrostomy for Anterior Urethral Stricture Disease

Guido Barbagli, Michele De Angelis, Giuseppe Romano and Massimo Lazzeri*

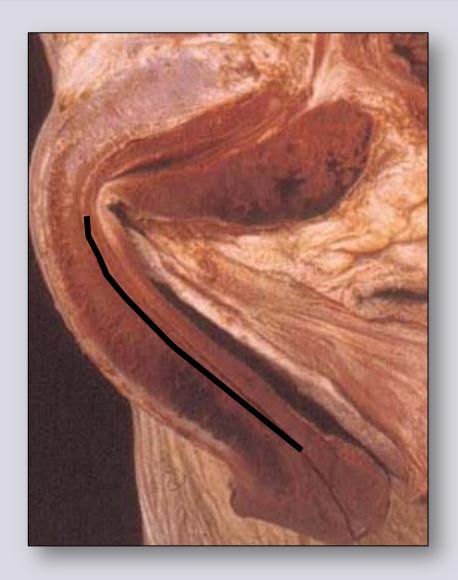
From the Center for Reconstructive Urethral Surgery (GB) and Unità Operativa Urologia, Ospedale San Donato (MDA, GR), Arezzo, and Department of Urology, Santa Chiara-Firenze, Florence (ML), Italy

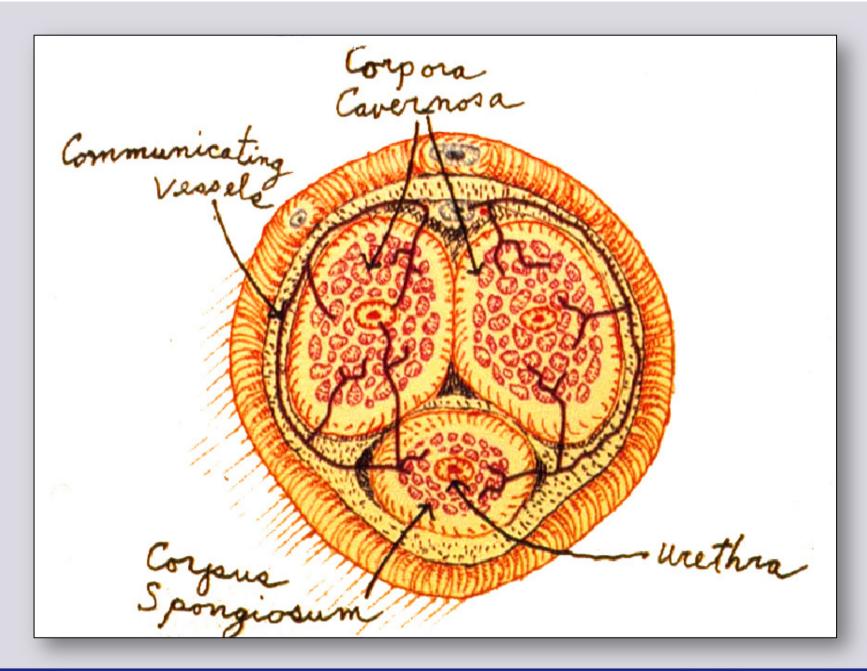
J Urol 2009; 182: 548-557

What's new in urethroplasty

1. Re-evaluation of simple definitive perineal urethrostomy vs complex one-stage reconstruction in complex anterior stricture disease

Penile urethra



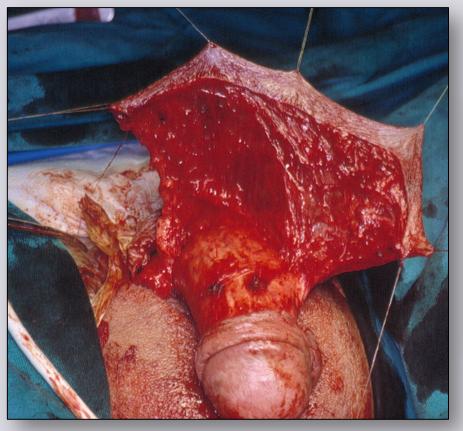


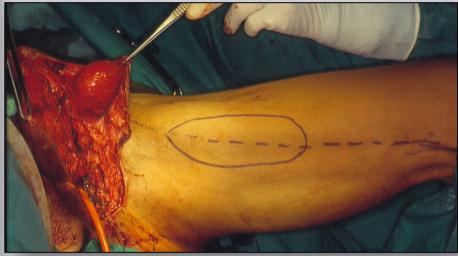








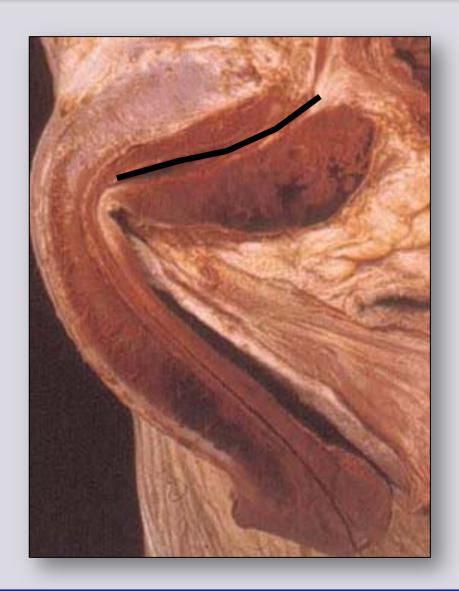


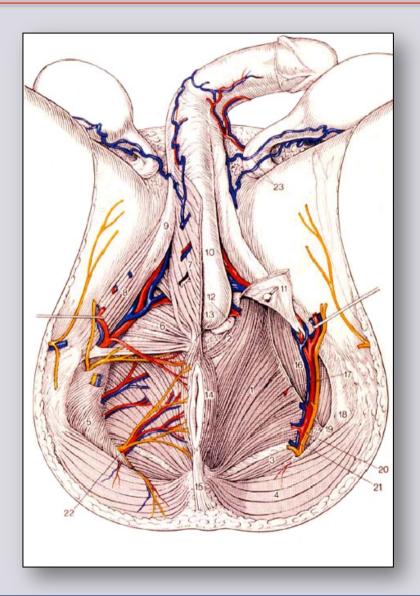


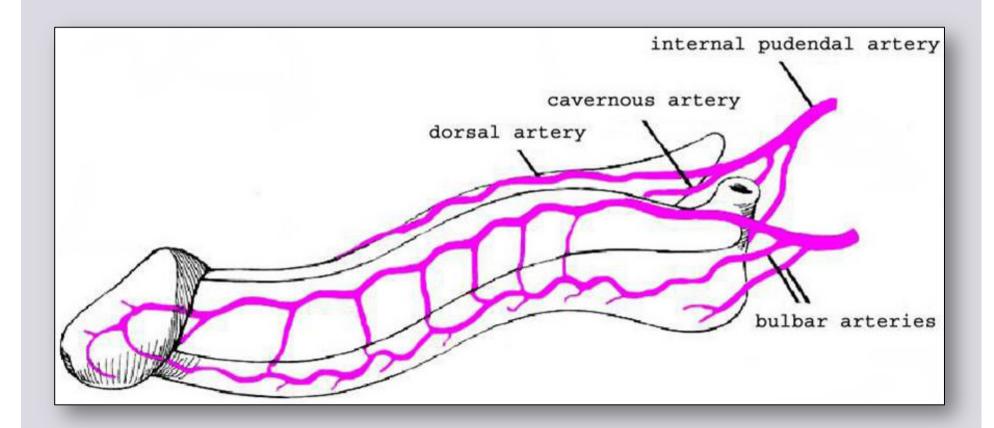
What's new in urethroplasty

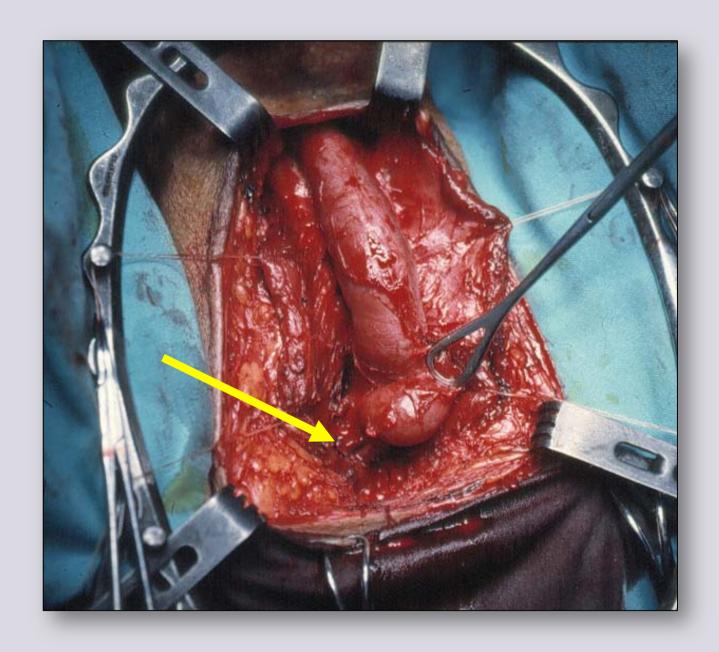
2. Re-evaluation of one-stage reconstruction using oral graft vs skin flap

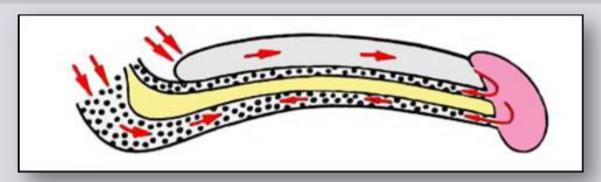
Bulbar urethra

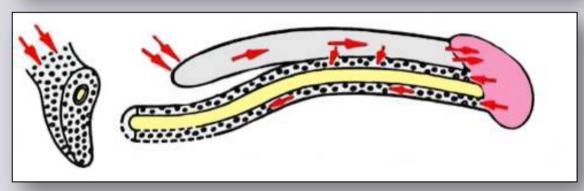


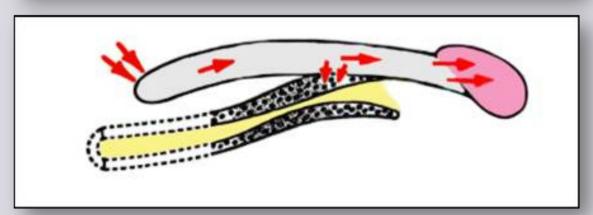














Vascular necrosis of the bulbar urethra



Non-transecting anastomotic bulbar urethroplasty: a preliminary report

Daniela E. Andrich and Anthony R. Mundy

Institute of Urology, London, UK
Accepted for publication 21 April 2011

Br J Urol Int 2011; 109:1090-1094

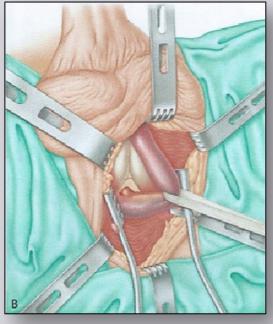
REVIEW

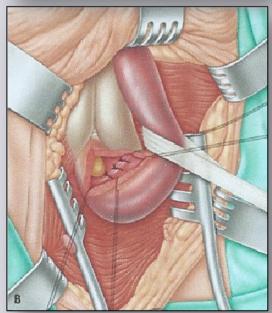


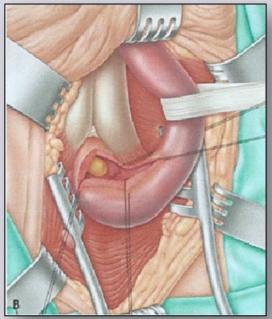
Bulbar urethroplasty: transecting vs. nontransecting techniques

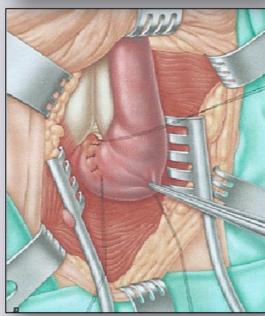
Guido Barbagli^a, Salvatore Sansalone^b, Giuseppe Romano^a, and Massimo Lazzeri^c

Curr Opin Urol Int 2012; 22:474-477



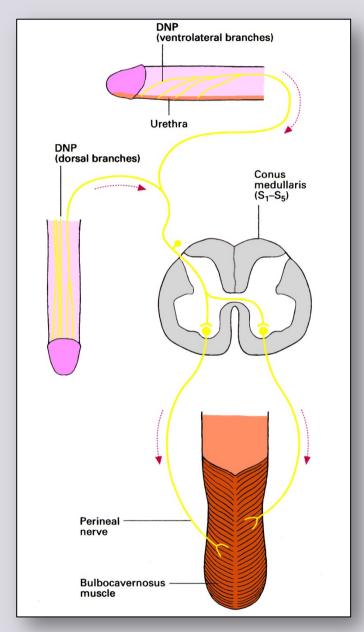






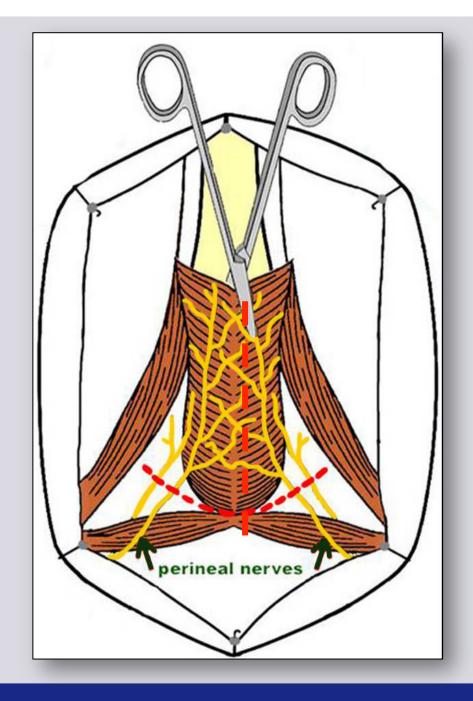
What's new in urethroplasty

3. Re-evaluation of non-transecting techniques vs anastomotic repair



Rhythmic contractions of the bulbospongiosum muscles and other perineal muscles expel semen from the urethra and have an important role in expelling urine, avoiding urine sequestration in the large urethral bulb.

Yang and Bradley, BJU International 2000; 85:857-863



During bulbar urethroplasty, damage to the bulbospongiosum muscle and to the perineal nerves may play a role in determining loss of efficient urethral contraction, causing difficulties in expelling semen and urine, and temporary or permanent sexual dysfunction.

Loss of efficient contraction of the bulbospongiosum muscles and corpus spongiosum

- ✓ decreased force of the ejaculation jet
- ✓ loss of the ejaculation jet
- ✓ semen sequestration
- **✓** infertility
- ✓ urine sequestration in the urethral bulb
- **✓ post-voiding dribbling**

Surgery in Motion

Muscle- and Nerve-sparing Bulbar Urethroplasty: A New Technique

Guido Barbagli ^a, Stefano De Stefani ^b, Filippo Annino ^{b,*}, Cosimo De Carne ^b, Giampaolo Bianchi ^b

Eur Urol 2008; 54:335-345



One-sided anterior urethroplasty: a new dorsal onlay graft technique

Sanjay Kulkarni, Guido Barbagli*, Salvatore Sansalone† and Massimo Lazzeri†

Centre for Reconstructive Urethral Surgery, Pune, India; *Centre for Reconstructive Urethral Surgery, Arezzo,
†Department of Urology, University Tor Vergata, Rome, and †Department of Urology, Santa Chiara-Firenze, GIOMI Group, Florence, Italy

Accepted for publication 5 December 2008

Br J Urol Int 2009; 104:1150-1155

a Center for Reconstructive Urethral Surgery, Arezzo, Italy

^b Department of Urology, University of Modena-Reggio Emilia, Modena, Italy

What's new in urethroplasty

4. Re-evaluation of muscle and nerve sparing approaches to the bulbar urethra



AVOIDING ERECTILE DYSFUNCTION IN URETHRAL SURGERY

Guido Barbagli and Massimo Lazzeri

Is erectile dysfunction a real issue after open urethroplasty?



How can you avoid it?

Is erectile dysfunction a real issue after open urethroplasty?

Epidemiology

• The difficulty of accurately defining erectile dysfunction before and after open reconstructive surgery led to lack of information about epidemiology.

Epidemiology

The Effect of Bulbar Urethroplasty on Erectile Function

Jennifer T. Anger,* Neil D. Sherman and George D. Webster

From the Department of Urology, University of California-Los Angeles (JTA), Los Angeles, California, Division of Urology, University of Medicine and Dentistry of New Jersey (NDS), New Brunswick, New Jersey, and Division of Urology, Duke University Medical Center (GDW), Durham, North Carolina

CONCLUSIONS

We report on men undergoing 4 variations of bulbar urethroplasty and we found that such surgery had an insignificant effect on EF. Surgical complexity with long stricture excision and the use of a buccal graft did not influence outcome. Our data suggest that increasing age and preoperative erectile dysfunction may adversely affect postoperative outcome.

J Urol 2007; 178: 10090

Epidemiology

Long-Term Followup of Bulbar End-to-End Anastomosis: A Retrospective Analysis of 153 Patients in a Single Center Experience

Guido Barbagli, Michele De Angelis, Giuseppe Romano and Massimo Lazzeri*

From the Center for Urethral Reconstructive Surgery (GB), Unità Operativa Urologia, Ospedale San Donato (MDA, GR), Arezzo, and Department of Urology, Santa Chiara-Firenze, Florence (ML), Italy

With regard to the prevalence of postoperative sexual function disorders, 12 patients (20%) experienced decreased ejaculation force and in 2 patients (3.3%) ejaculation was possible only by manually compressing the perineum at the level of the urethral bulb. One patient (1.6%) had a cold glans during erection, 7 (11.6%) had a glans that was neither full nor swollen during erection and 11 (18.3%) had decreased sensitivity of the glans or distal penile shaft. No

J Urol 2007; 178: 2470

Epidemiology

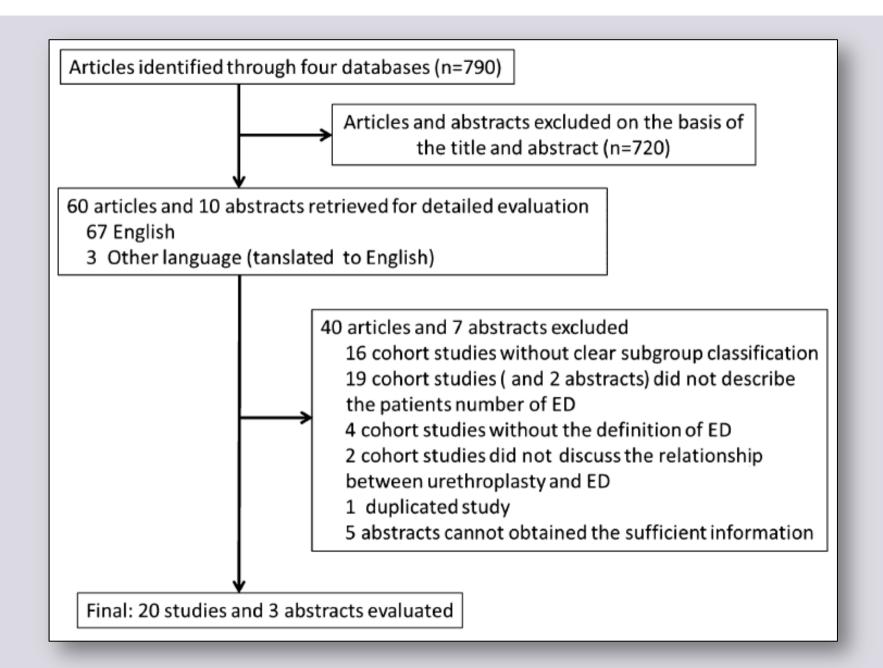
2060

The Relationship Between Erectile Dysfunction and Open Urethroplasty: A Systematic Review and Meta-Analysis

Chao Feng, MD, PhD,* Yue-Min Xu, MD, PhD,* Guido Barbagli, MD, PhD,† Massimo Lazzeri, MD, PhD,† Chen-ye Tang, MD,* Qiang Fu, MD, PhD,* and Ying-Long Sa, MD*

*The Department of Urology, Affiliated Sixth People's Hospital, Shanghai Jiaotong University, Shanghai, China; †The Center for Reconstructive Urethral Surgery, Arezzo, Italy

DOI: 10.1111/jsm.12181



Comparison of incidence of ED before vs. after bulbar urethroplasty.

Out of 20 studies included in the analysis only 5 studies, eligible for metanalysis, reported data on erectile function before and after open urethroplasty.

No statistical difference was found in the incidence of ED pre and post operation.

Comparison of different type of bulbar urethroplasty.

Patients who underwent bulbar graft urethroplasty showed less incidence (16.67%) of ED compared to patients who underwent anastomotic transecting urethroplasty (36.54%).

Comparison of incidence of ED before vs. after posterior urethroplasty.

Out of 20 studies included in the analysis only 6 studies, eligible for metaanalysis, reported data on erectile function before and after open urethroplasty.

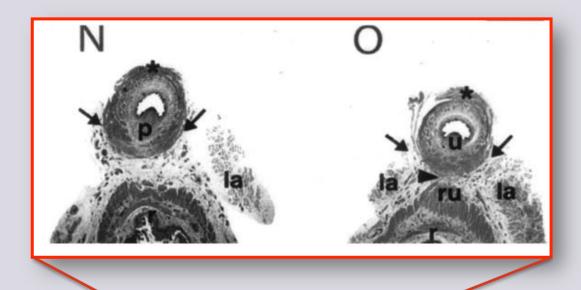
The incidence of ED before the operation was significanlty higher than after the operation.

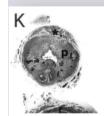
Erectile dysfunction in urethral surgery

How can you avoid it?

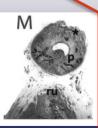
Anatomy

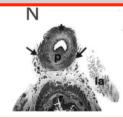
• Neurovascular bundles run along the posterior urethra



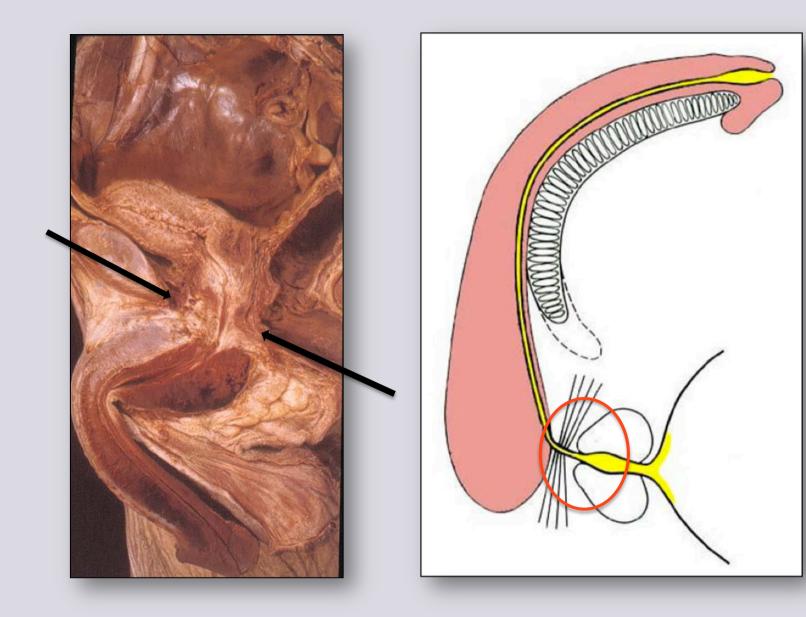


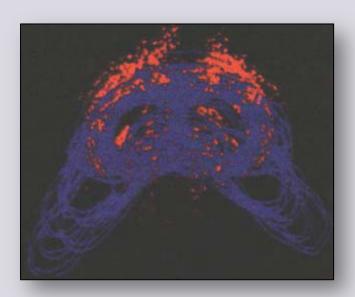




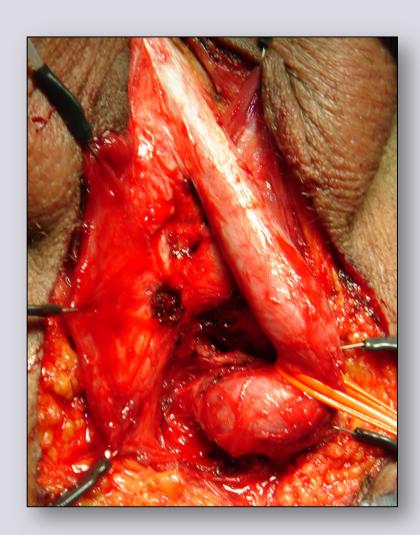






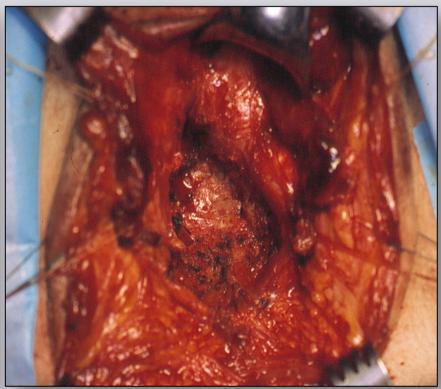


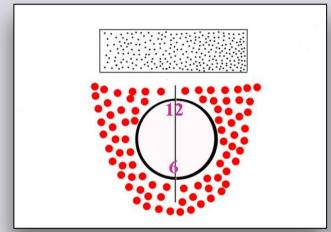
Avoid the use of cautery

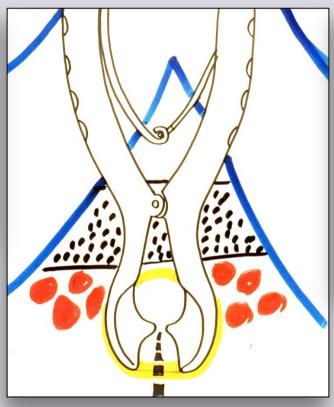


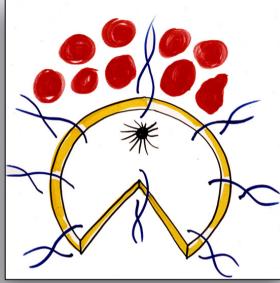
Posterior urethroplasty





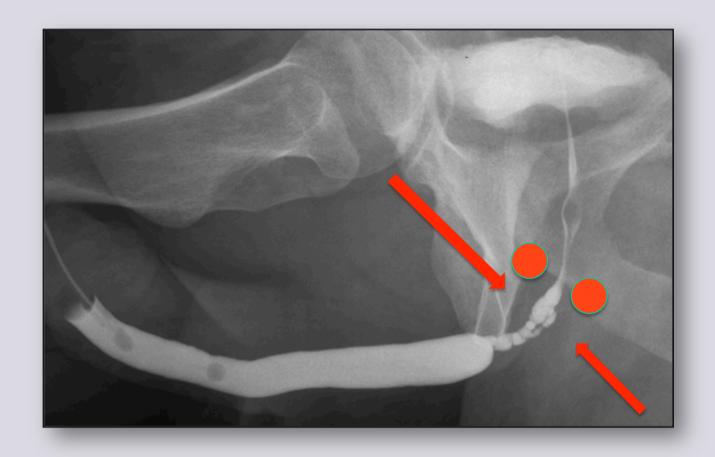






Avoid aggressive dissection: work between 12 – 6 o'clock

Bulbar urethroplasty

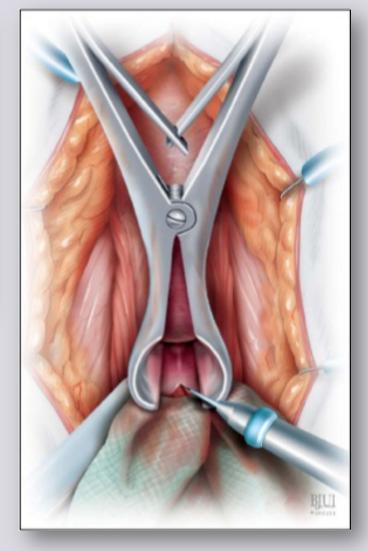


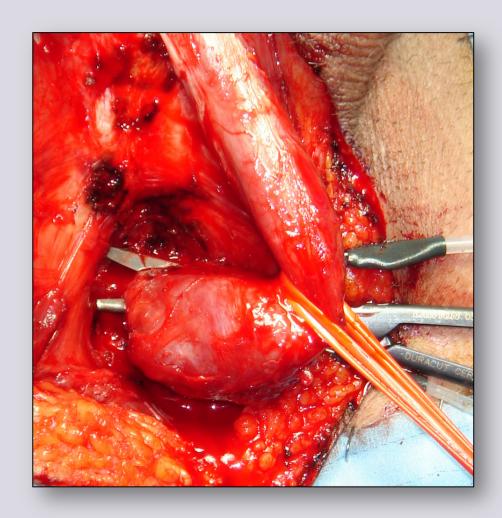
Working around urethra may damage innervation and blood supply

www.uretra.it Websites: www.urethralcenter.it

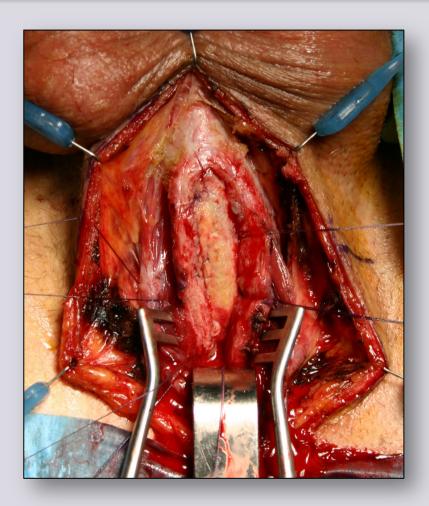


Work inside the urethra and not around the urethra

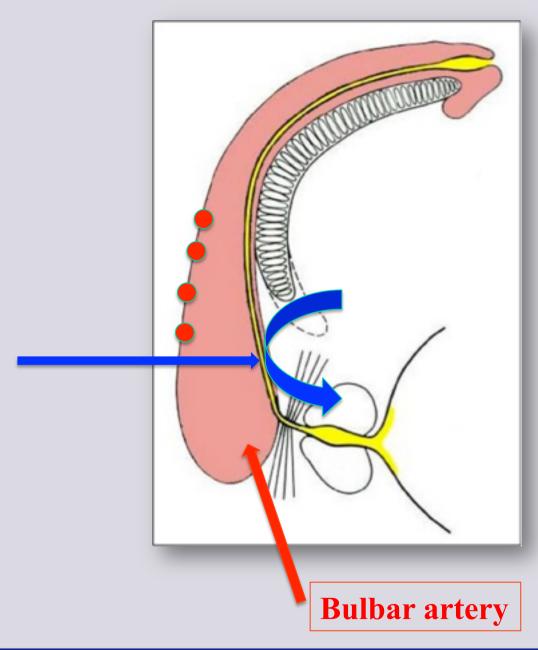


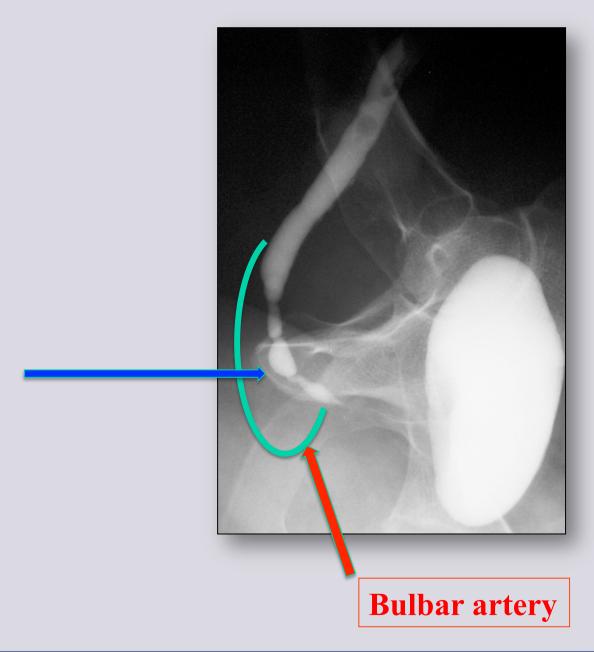


Dissection and/or urethral transection may cause ED



Whenever possible use grafting rather than transecting technique





Sexual dysfunction may occur after open urethroplasty.

Knowledge of anatomy and physiology and adequate surgical strategies as well, may avoid it.



Register now!

www.webon.uretra.it