#### **CENTER FOR RECONSTRUCTIVE URETHRAL SURGERY**

## GUIDO BARBAGLI, M.D. Arezzo - Italy

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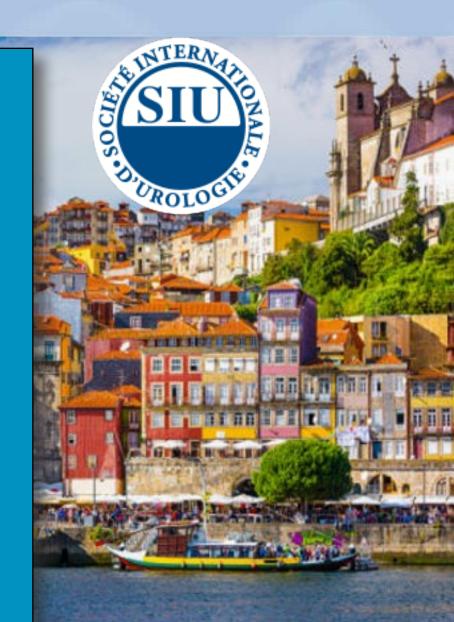
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Pre-37<sup>th</sup> SIU Workshop on Genitourethral **Reconstruction** 

Venue: SANA Lisboa Hotel
OCTOBER 17-18, 2017

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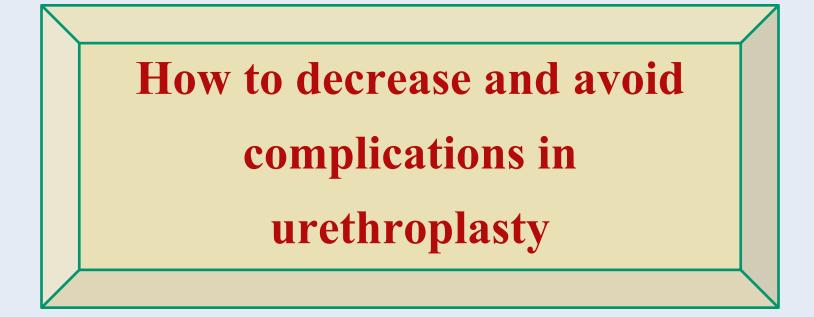


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Lessons learned during my threedecade (1978 - 2017) journey aroud and inside the urethra in 3.400 patients (5.160 surgical procedures) (346 (10%) failures)



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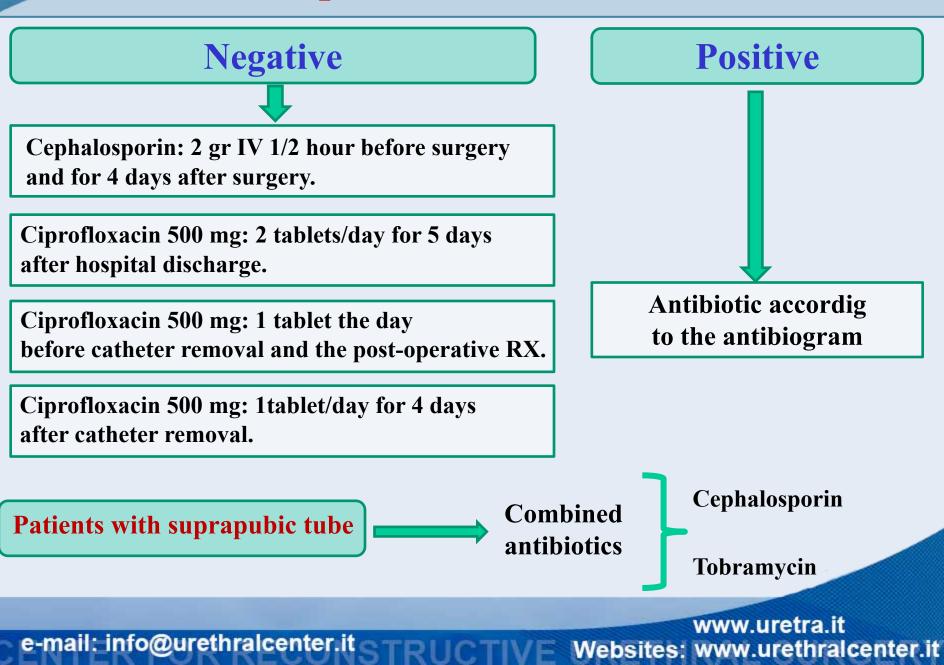




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### **Pre-operative urine culture**



### **Surgeon and patient disinfection**



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#### **Chlorexidine vs Betadine**

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### **Patient disinfection**



#### **Three times Chlorexidine cleaning**

### **Operating room**



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#### **SURGERY IN PROGRESS**



If you are not working on this case, please do not enter

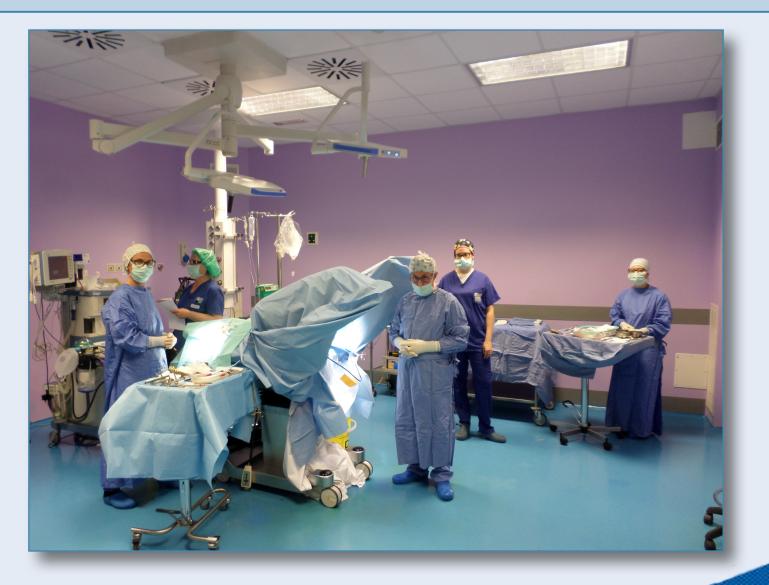
**NO TRAFFIC** 

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### **Operating room ?**



### **Operating room**



### **Operating room**



## Avoiding patient positioning related complications



#### **Exaggerated lithotomy position**

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#### **Old dangerous stirrupps**

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#### **Nurse positioning**

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#### **Surgeon positioning**

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#### **Simple lithotomy position**

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# Mundy's "social" lithotomy position

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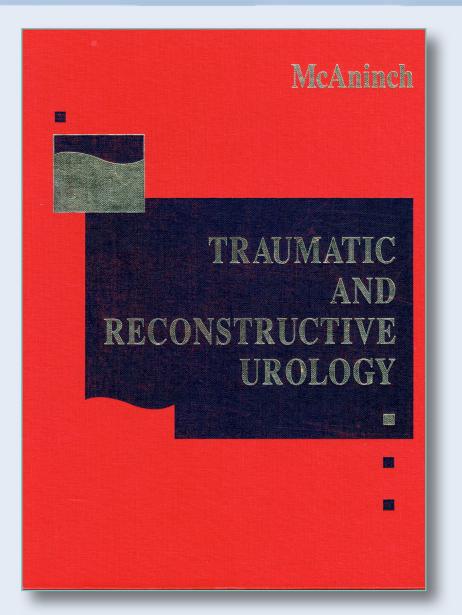


**Inflatable sequential sleeves** 

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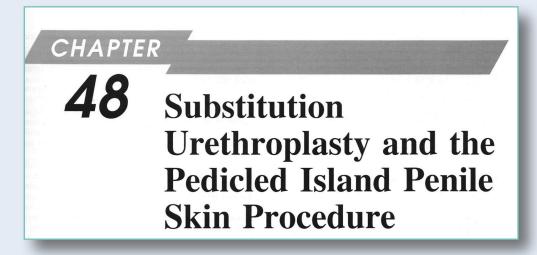




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#### **Mr. Richard Turner-Warwick**





Observations on Hemostatic and Hemorrhagic Anesthesiologic Procedures

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All operations on the anterior urethra naturally involve the spongy tissue so that a basic requirement of urethral

surgery is the avoidance of erections or erectile turgescence; this is particularly important for operative procedures that require a definitive spongioplasty. It is, therefore, somewhat remarkable that one of the commonest anesthetic procedures offered for urologic operations is an epidural block—the turgescence and partial erection that this commonly creates may reassure the anesthesiologist that the anesthesia is progressing satisfactorily—but is not helpful to the urologist.

Urologists commonly complain about unwanted erections, but many anesthesiologists have never been asked to prevent them—and some do not know how to prevent them effectively. It is important to appreciate that a positively diminished erectile tissue blood supply and an induced systemic hypotension are quite different hemodynamic features that may or may not be coincident during anesthesia. In general, a pharmacologic ganglion blockade sufficient to cause dilatation of the pupils induces a specific reduction in the vascular circulation of the erectile tissue and enables one to "look into the interstices" of the spongy tissue after sponging (instead of a constant welling up) before it significantly reduces the systolic blood pressure. A secret of a comfortable surgical operating field is induced bradycardia.<sup>21</sup>

Page 592..594

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"...epidural block is not helpful for the urologist...



...but it is helpful for the anesthetist ".

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#### **Induced controlled systemic hypotension**

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### **Patient reassessment**



Before the surgery, reassess again the patient clinical history and Rx!

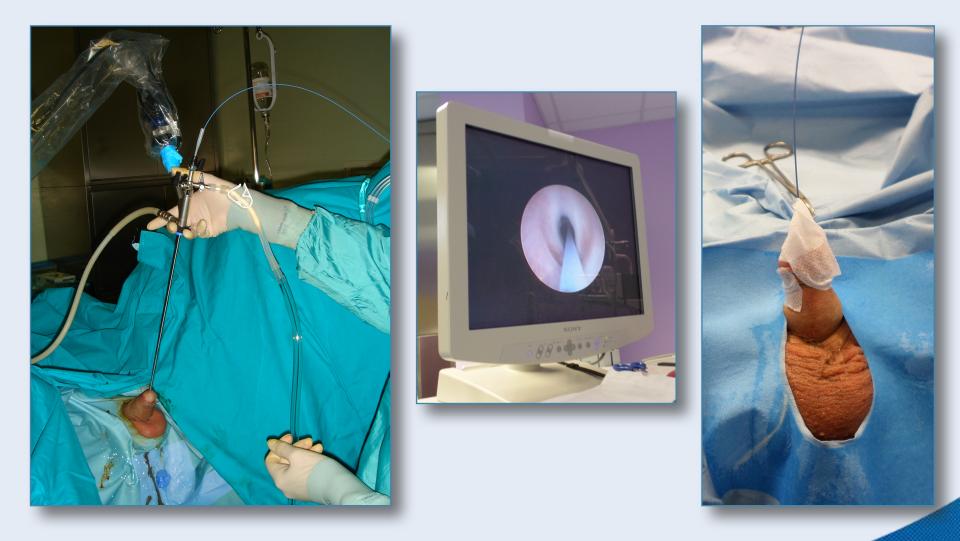
### **Patient reassessment**



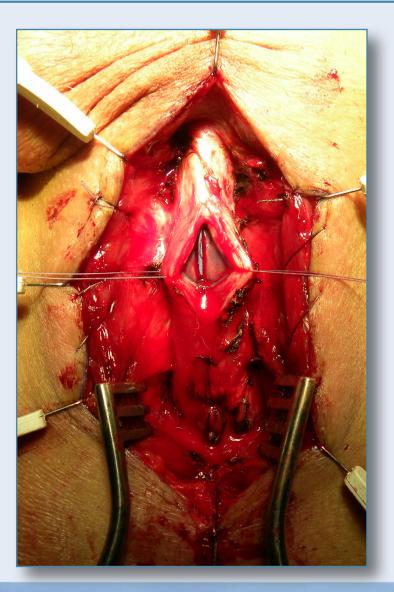
Discuss with the anesthetis and the scrub nurse what you need and what you are planning !

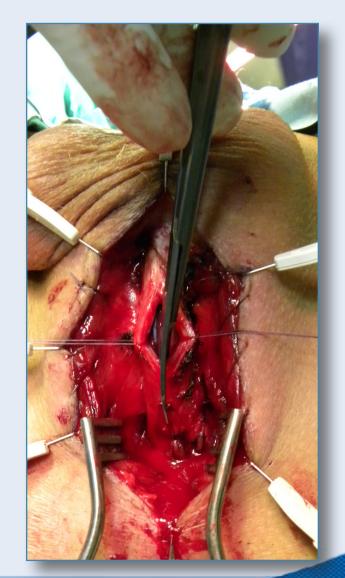
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### **Pre-operative urethroscopy**

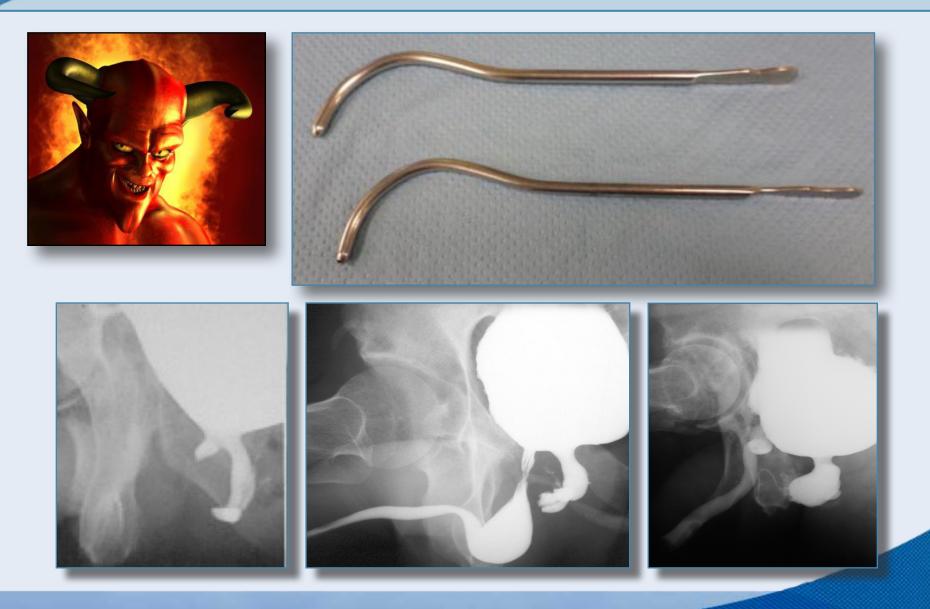


### **Pre-operative urethroscopy**



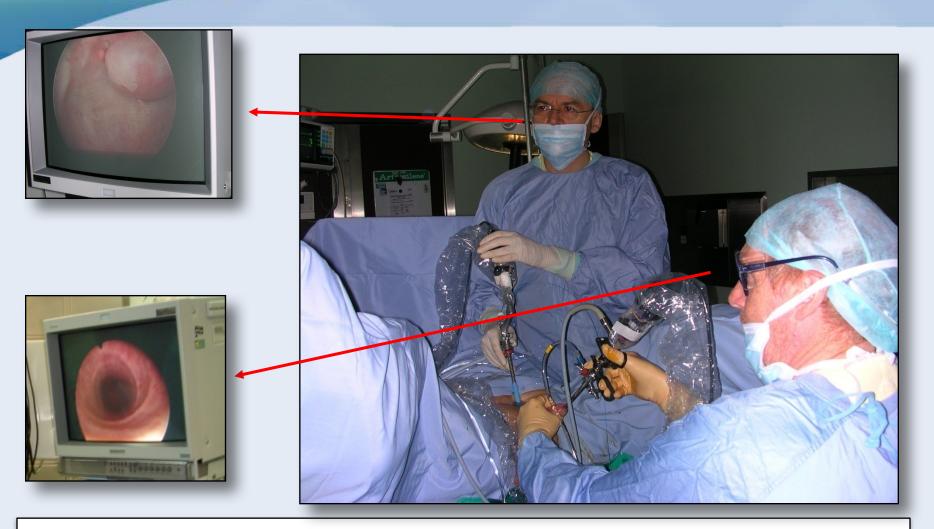


#### Get it over with the use of these "diabolic" instruments



### **Use only these atraumatic instruments**





#### Any problem during urethroplasty should be clarified

**ONLY under direct vision !** 

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www.uretra.it CTIVE Websites: www.urethralcenter.it Some lessons that have greatly improved my surgery !

### 1. Oral mucosa harvesting

- 2. Two-stage penile urethroplasty
- 3. One-stage bulbar urethroplasty
- 4. Perineal urethrostomy

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#### **Oral mucosa harvesting**

#### **Double team**



#### **Two-stage penile urethroplasty**

#### When use the oral mucosa at the first stage?

#### Failed hypospadias



#### **Lichen sclerosus**



#### **Two-stage penile urethroplasty**

#### When use the oral mucosa at the first stage?

(Eur Urol 2006; 49: 887-895)

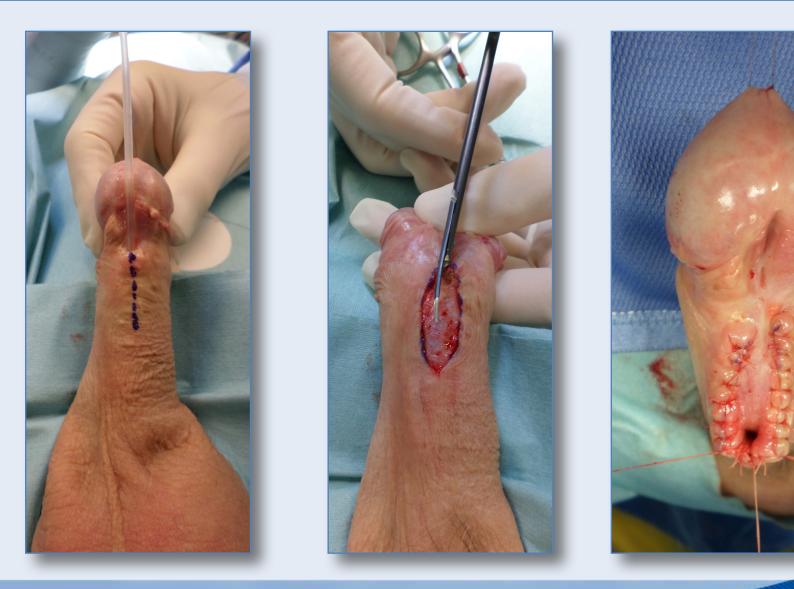
#### **Failed hypospadias**

#### **39% of patients**



## How to do two-stage penile urethroplasty using oral mucosa only at the second stage

#### **First stage – Johanson's urethroplasty**



#### **First stage – Johanson's urethroplasty**



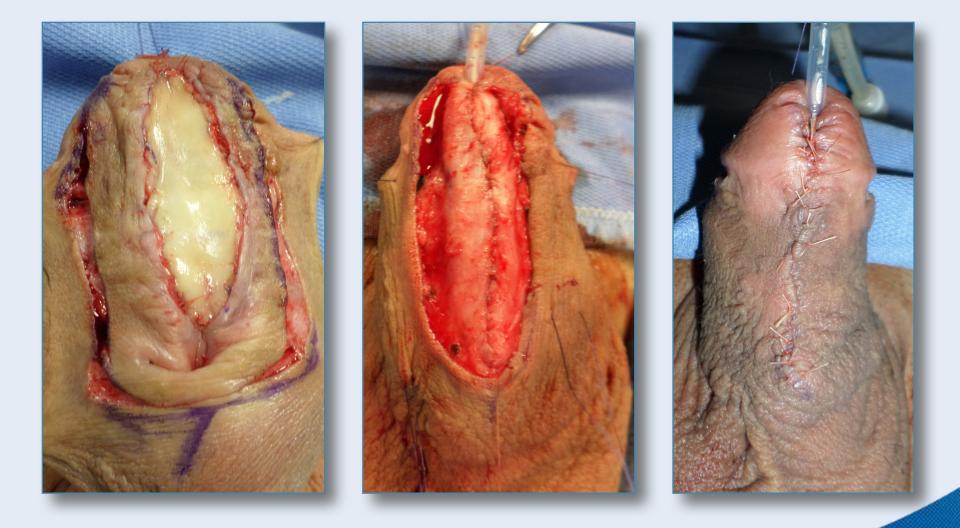




#### **Second stage: Oral graft inlay urethroplasty**

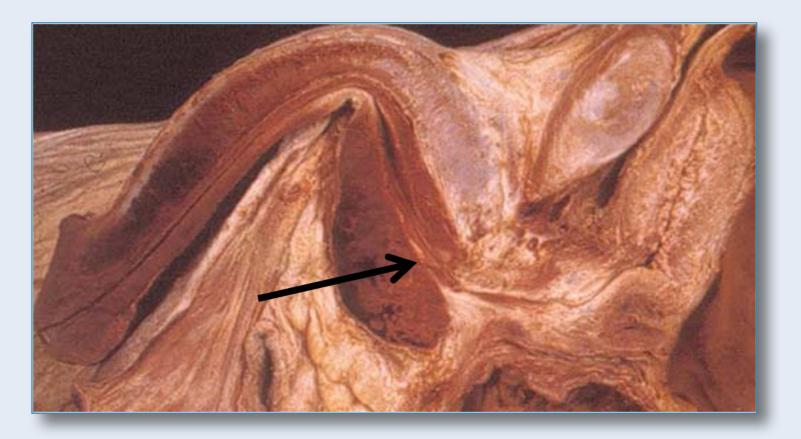


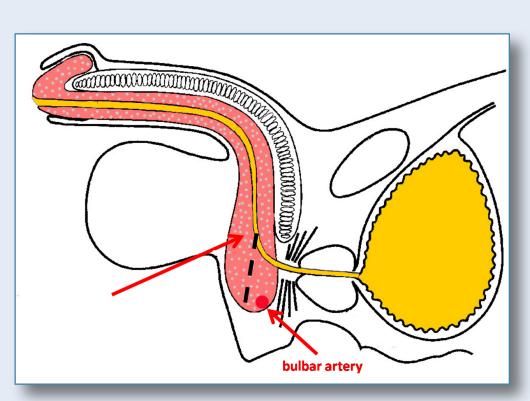
#### **Second stage: Oral graft inlay urethroplasty**

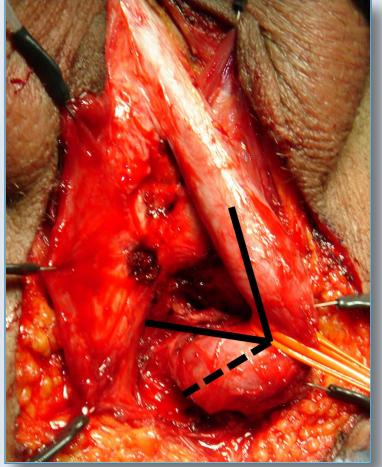


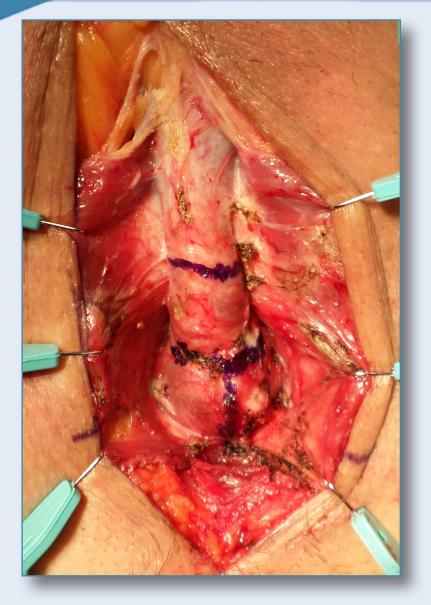
#### **One-stage bulbar urethroplasty**

#### The true anatomy of bulbar urethra

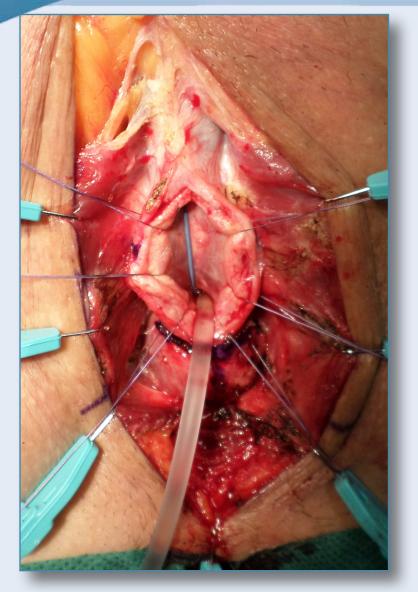


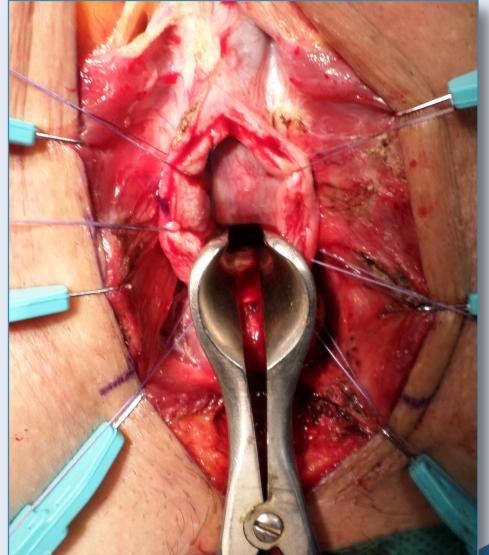


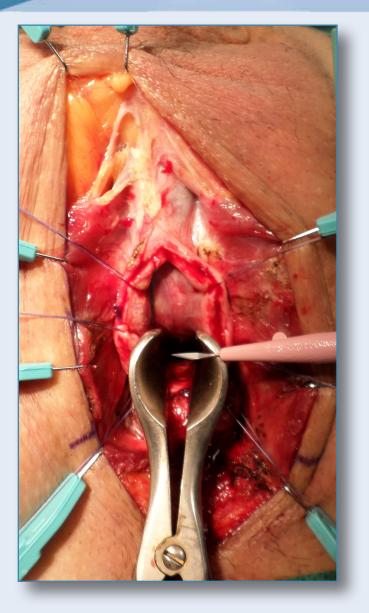


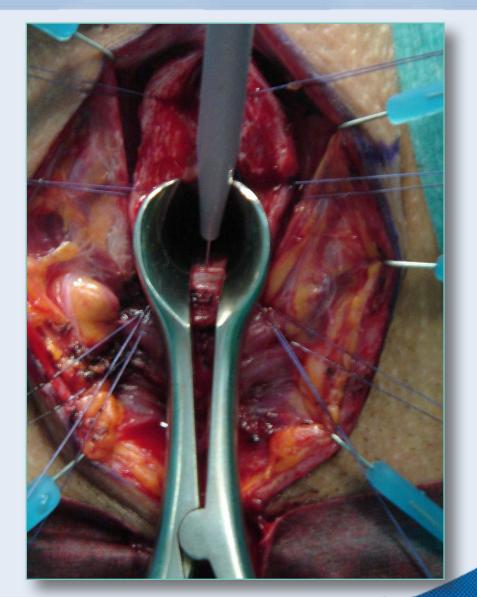


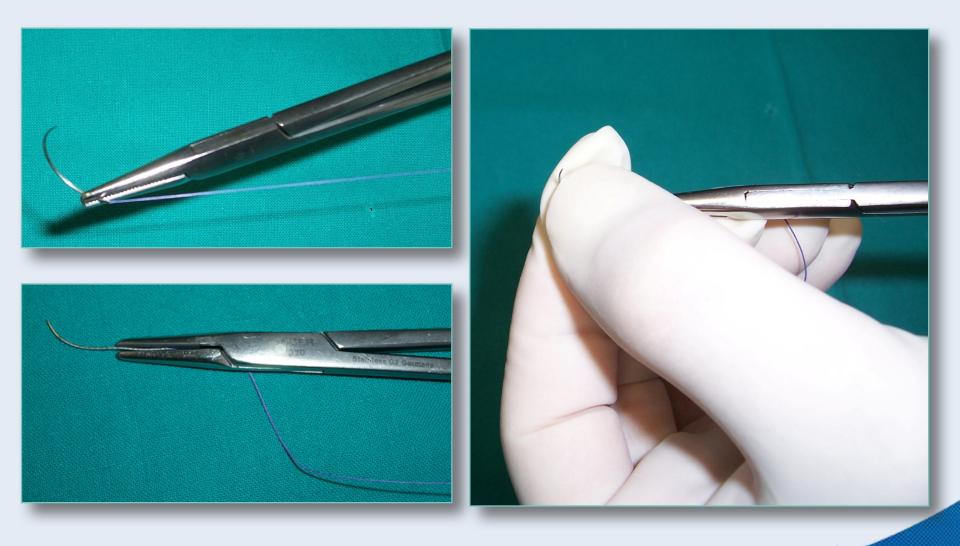


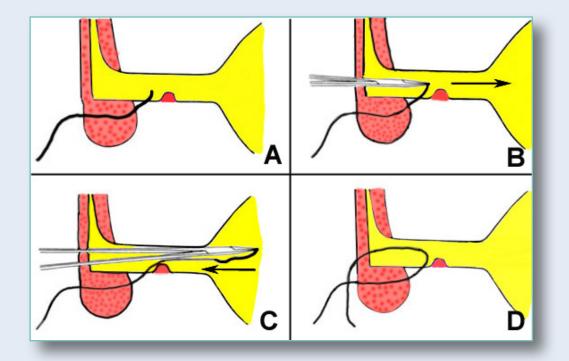


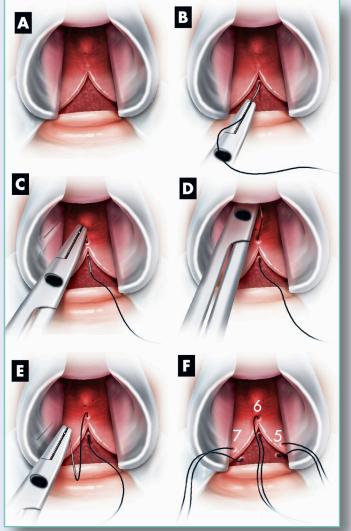


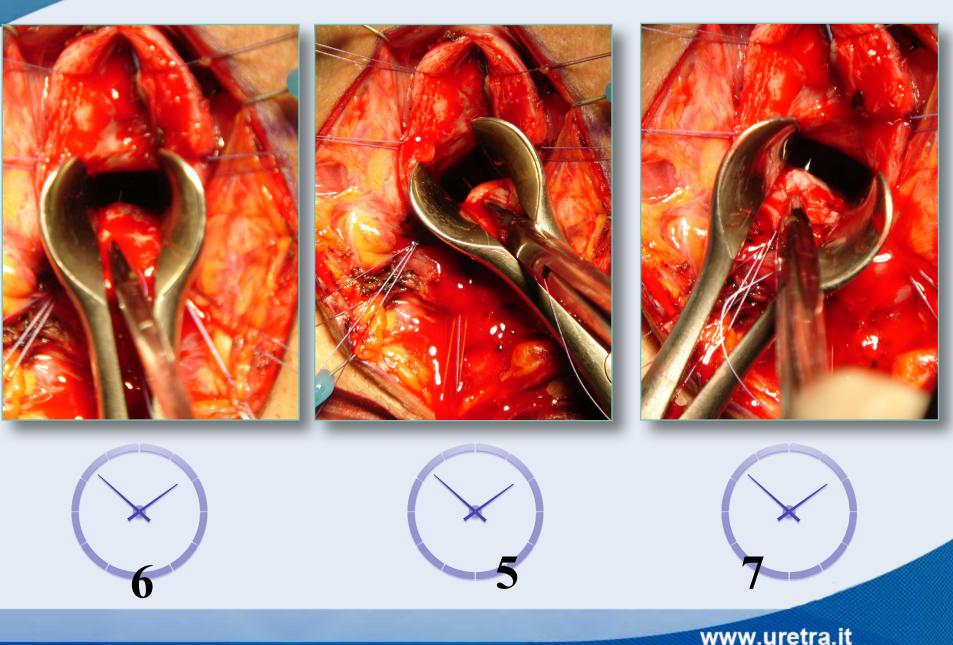


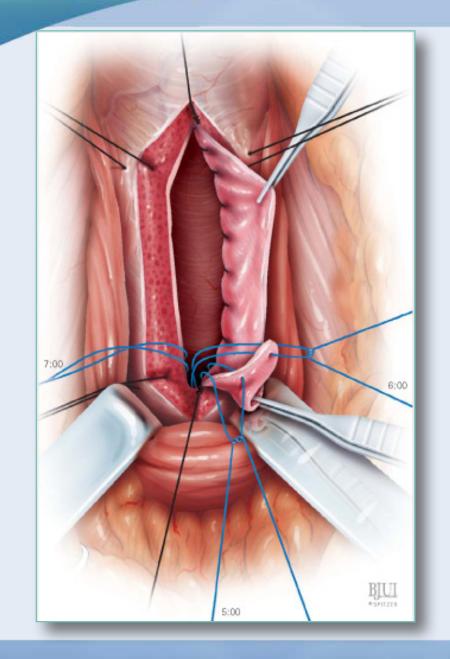


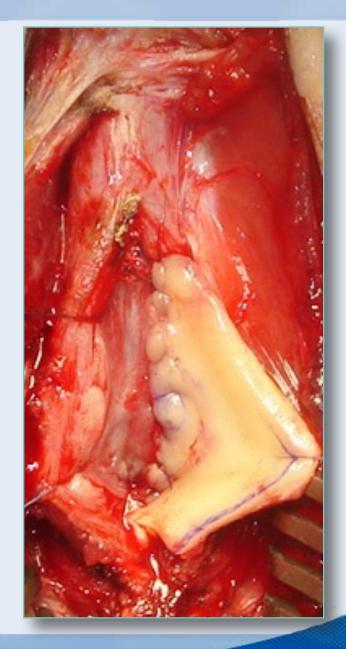


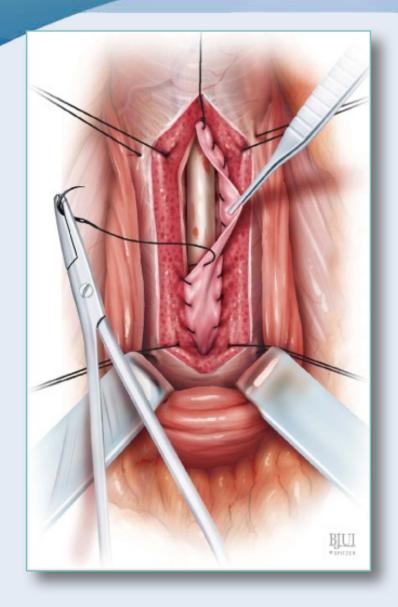


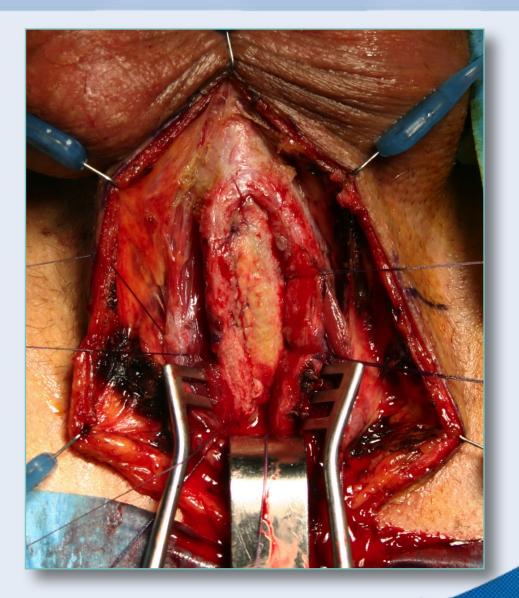


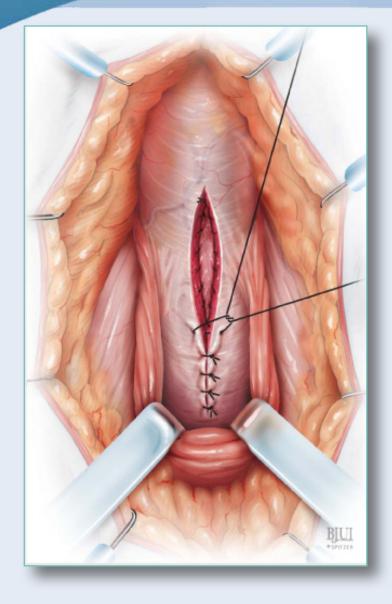


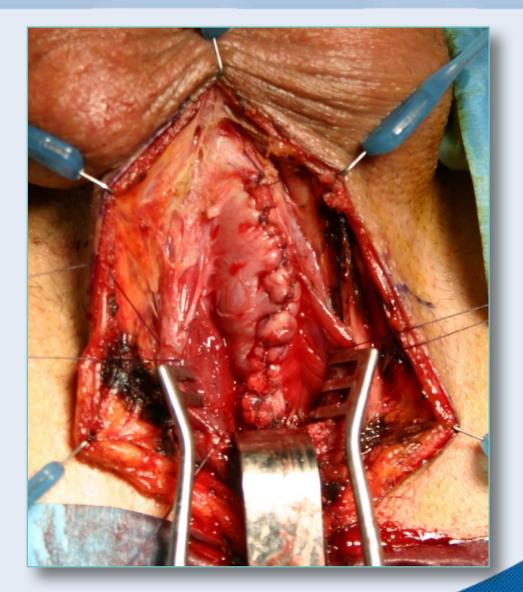






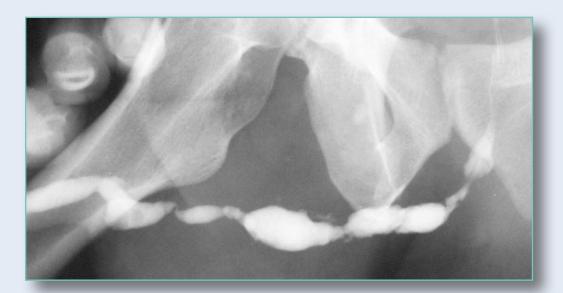






#### **Panurethral stricture disease**

I want you to remember, that at the end of the urethra there is the bladder and, in some patients, londstanding, chronic panurethral stricture disease may greatly influence the bladder morphology and function!



#### **Perineal urethrostomy or pan-urethroplasty ?**

#### **Panurethral stricture disease**

# Patient with panurethral stricture disease associated with normal bladder.

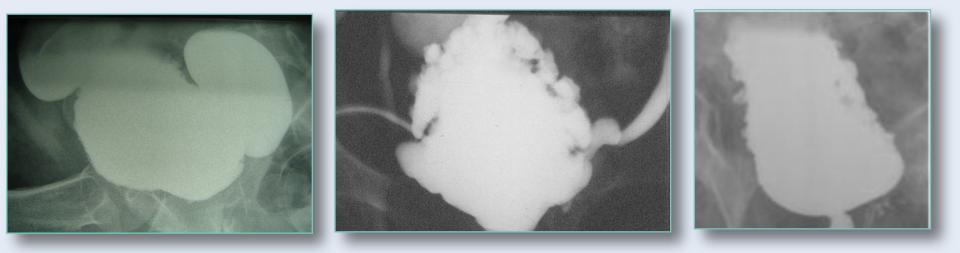


#### **Pan-urethroplasty**

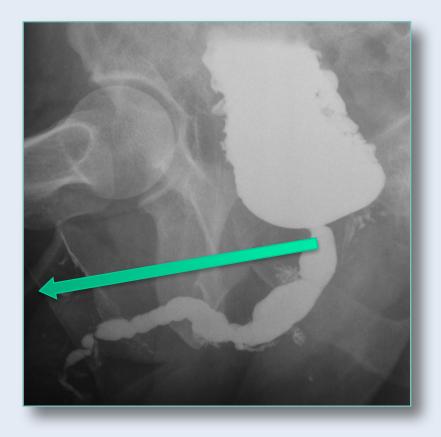
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www.uretra.it Websites: www.urethralcenter.it **Panurethral stricture disease** 

Patient with panurethral stricture disease associated with abnormal bladder.



#### **Perineal urethrostomy**



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#### **Perineostomy is not a hole into perineum !**



# **Perineostomy is to convert the long male urethra into the short female urethra !**



#### **Perineostomy: When?**

Age

**General condition and associated diseases** 

**Psichologically stable patient** 

**Superficial recurrent bladder tumor** 

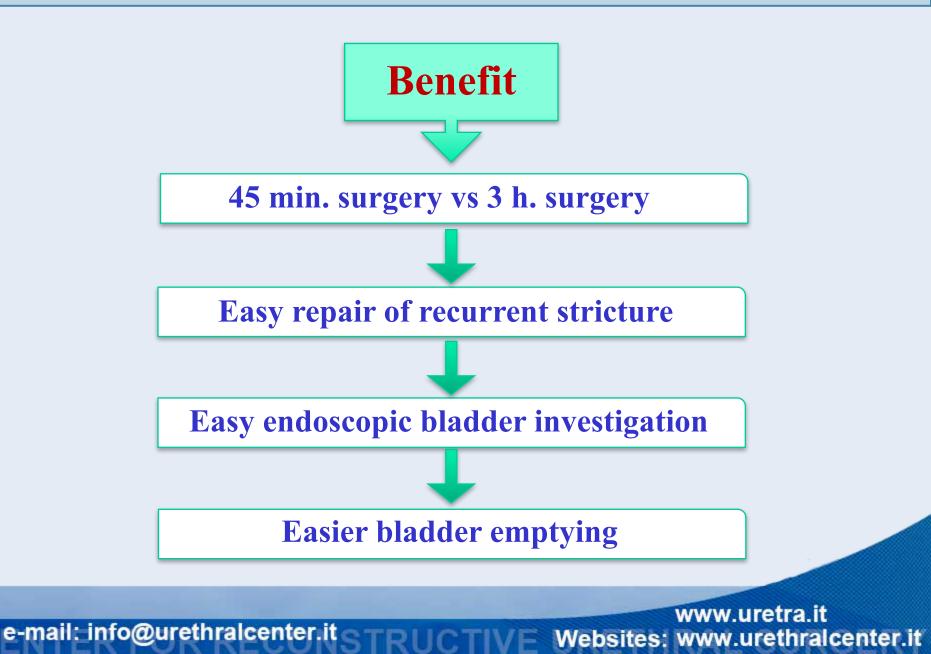
**Bladder diverticula** 

**High capacity bladder** 

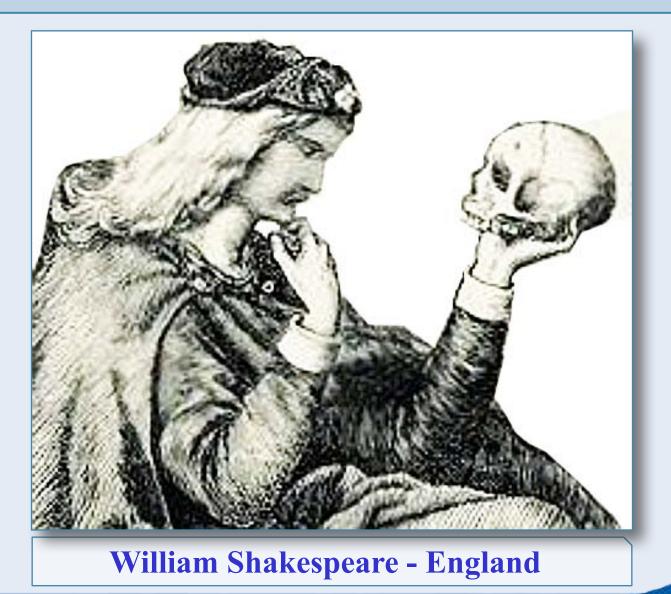
**Decompensated bladder** 

**Previous multiple failed urethroplasties** 

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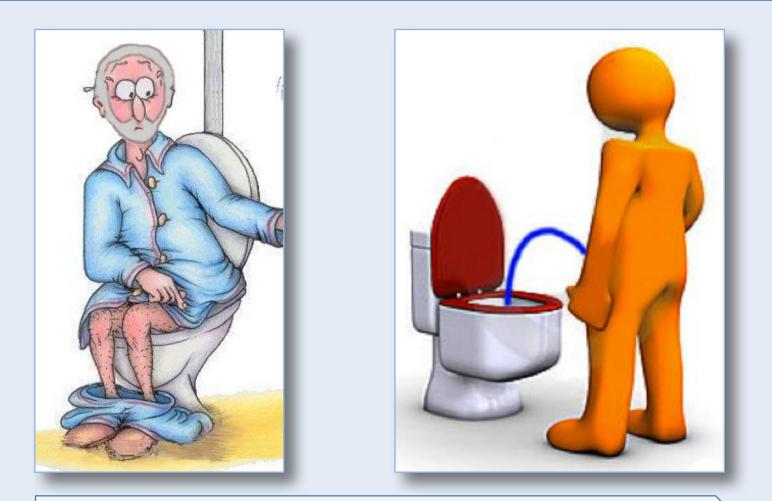


#### To be, or not to be: that is the question!



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#### **To urinate seated or standing: that is the question!**



#### **Guido Barbagli - Italy**

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### Thank you for your attention. I greatly appreciate it!

