

# CENTER FOR RECONSTRUCTIVE URETHRAL SURGERY



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# “Brennpunkt Urologie” – Urologic Symposium



**October 25 – 26, 2013**

**Zurich - Switzerland**

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# Treatment of Urethral Strictures

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## **Opposing Views**

**Urethral Strictures is Now an Open Surgical Disease**

**Allen Morey**

**Cost-Effective Approach to Short Bulbar Urethral Strictures  
Supports Single Internal Urethrotomy Before Urethroplasty**

**Hunter Wessels**

**J Urol 2009; 181: 953-955**

*Open Journal of Urology*, 2012, 2, 16-19

doi:10.4236/oju.2012.21004 Published Online February 2012 (<http://www.SciRP.org/journal/oju>)



## **The Role of Dilation and Internal Urethrotomy as a Risk Factor of Failure in Patients Who Undergoing One-Stage Bulbar Oral Graft Urethroplasty**

**184 patients from 1999 to 2010 who undergone bulbar urethroplasty using ventral onlay graft**

**Open Journal of Urology 2012; 2: 16-19**

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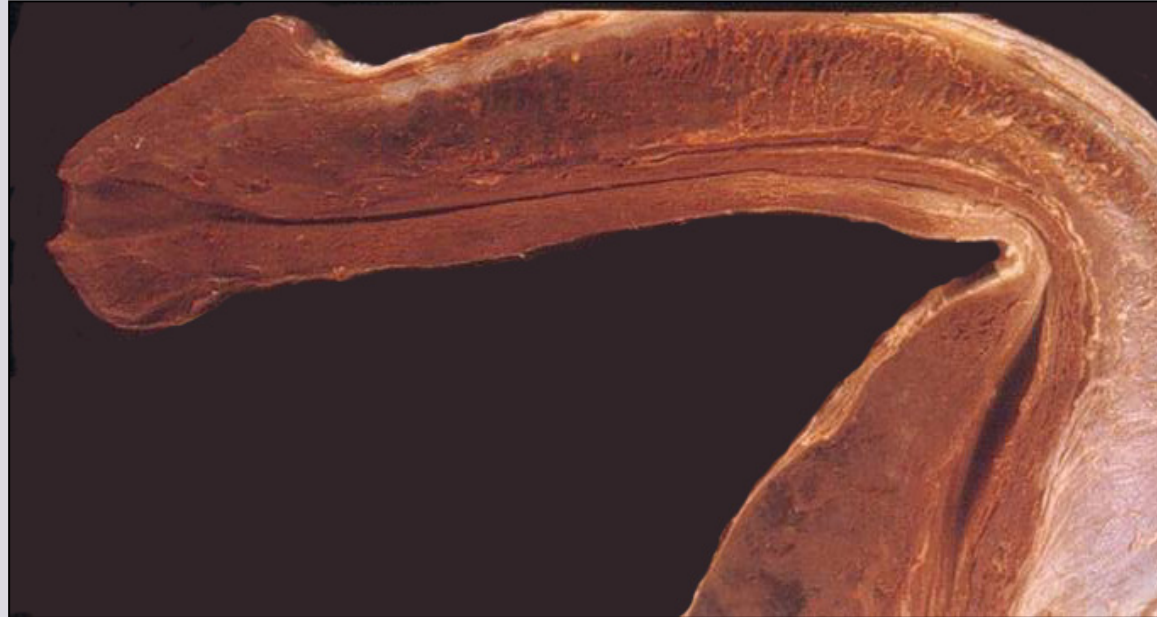
**Table 2. Number of previous DVIU and success rate**

N. of previous DVIU	N. patients	success rate %
1 DVIU	34	33 (97.1%)
2DVIU	26	25 (96.2%)
3DVIU	10	8 (80%)
4DVIU	4	4 (100%)
5 DVIU	3	1 (33.3%)
6 DVIU	1	0 (0%)
10 DVIU	2	1 (50%)
15 DVIU	1	0 (50%)
total	81	72 (88.9%)

**Open Journal of Urology 2012; 2: 16-19**



# New classification of anterior urethral strictures



**Penile**

**Simple**

**Complex**

# Simple penile urethral stricture



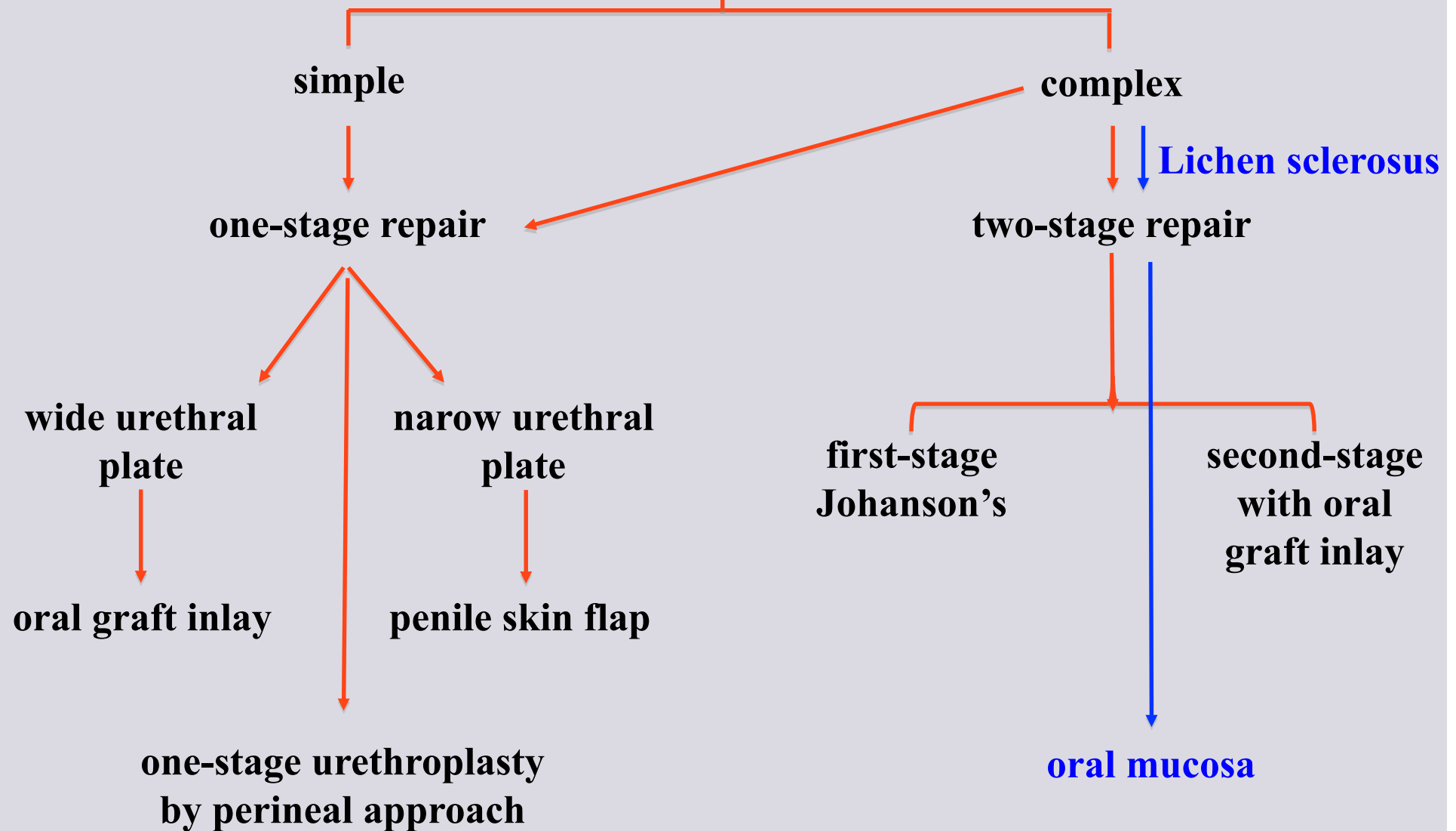
1. The penis and genitalia are normal
2. Practicable urethral plate
3. No Lichen sclerosus
4. No failed hypospadias repair
5. No prior failed urethroplasty

# Complex penile urethral stricture



1. Genital lichen sclerosus
2. Failed hypospadias repair
3. Prior failed urethroplasty
4. No practicable urethral plate

# Penile urethral stricture





# One-stage oral graft inlay urethroplasty



**Wide urethral plate**



**Asopa's technique**

# One-stage oral graft inlay urethroplasty

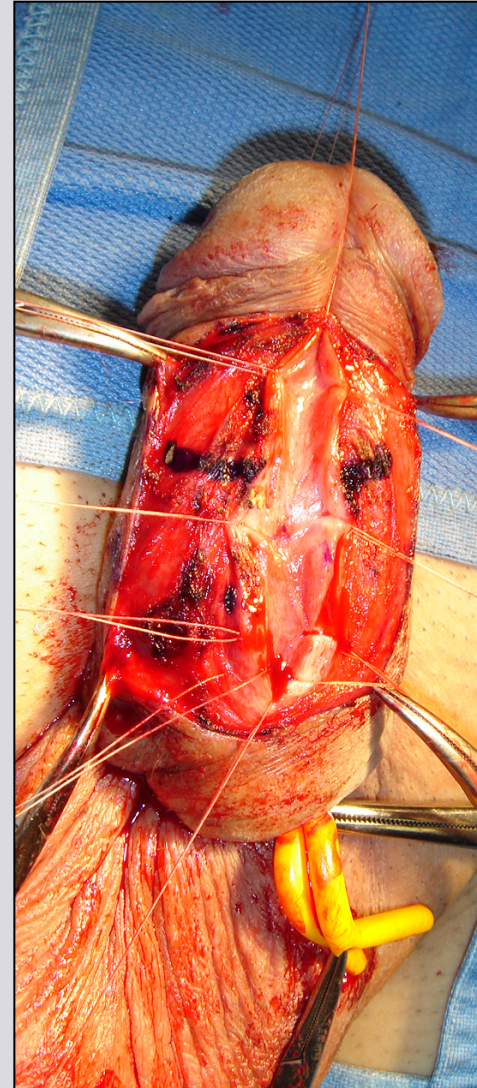
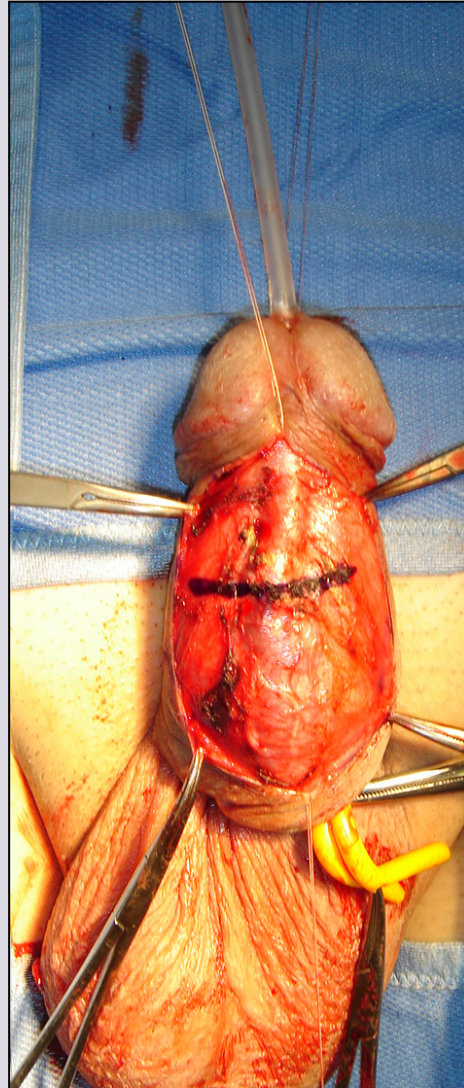


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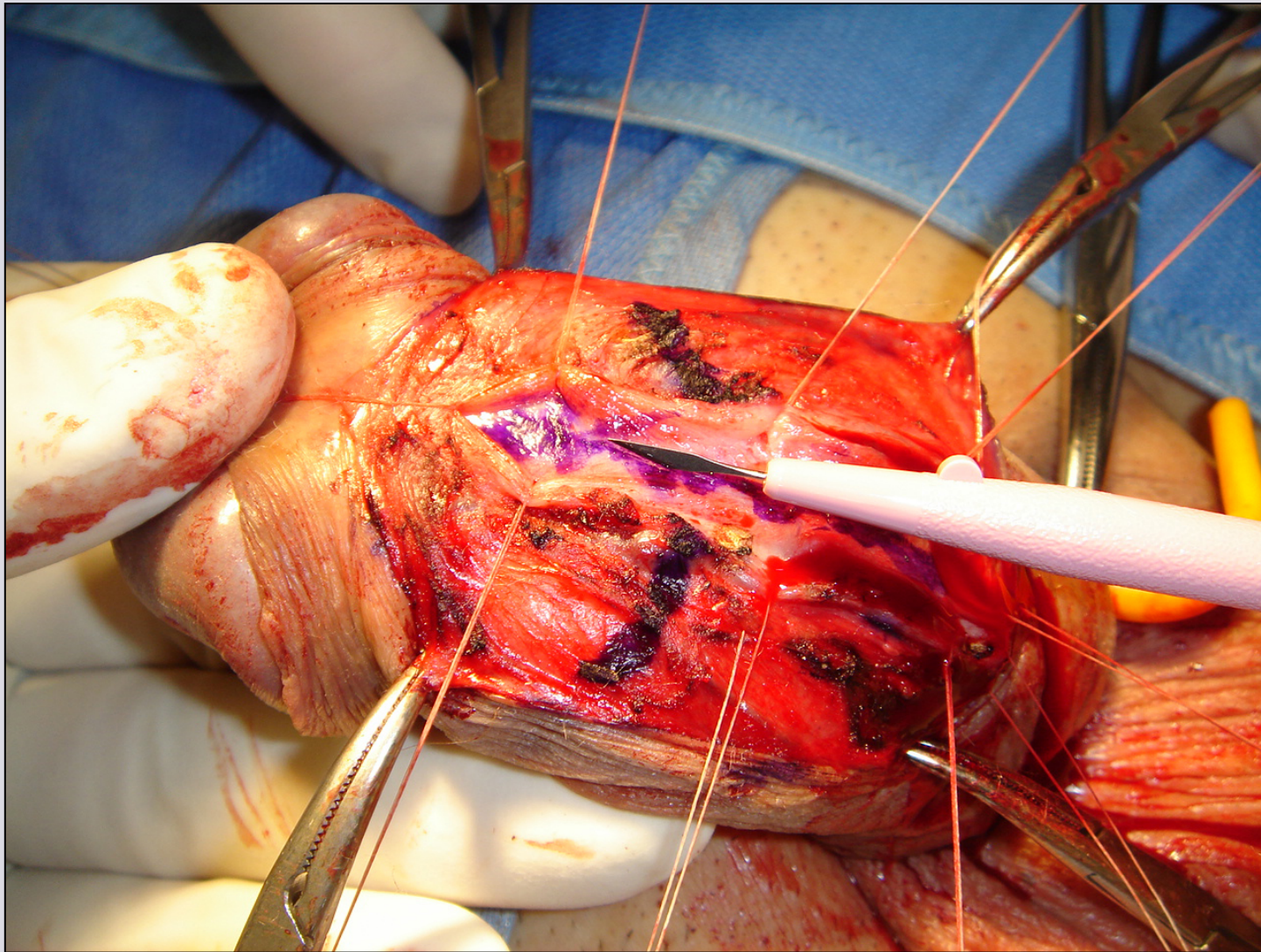


# One-stage oral graft inlay urethroplasty





# One-stage oral graft inlay urethroplasty

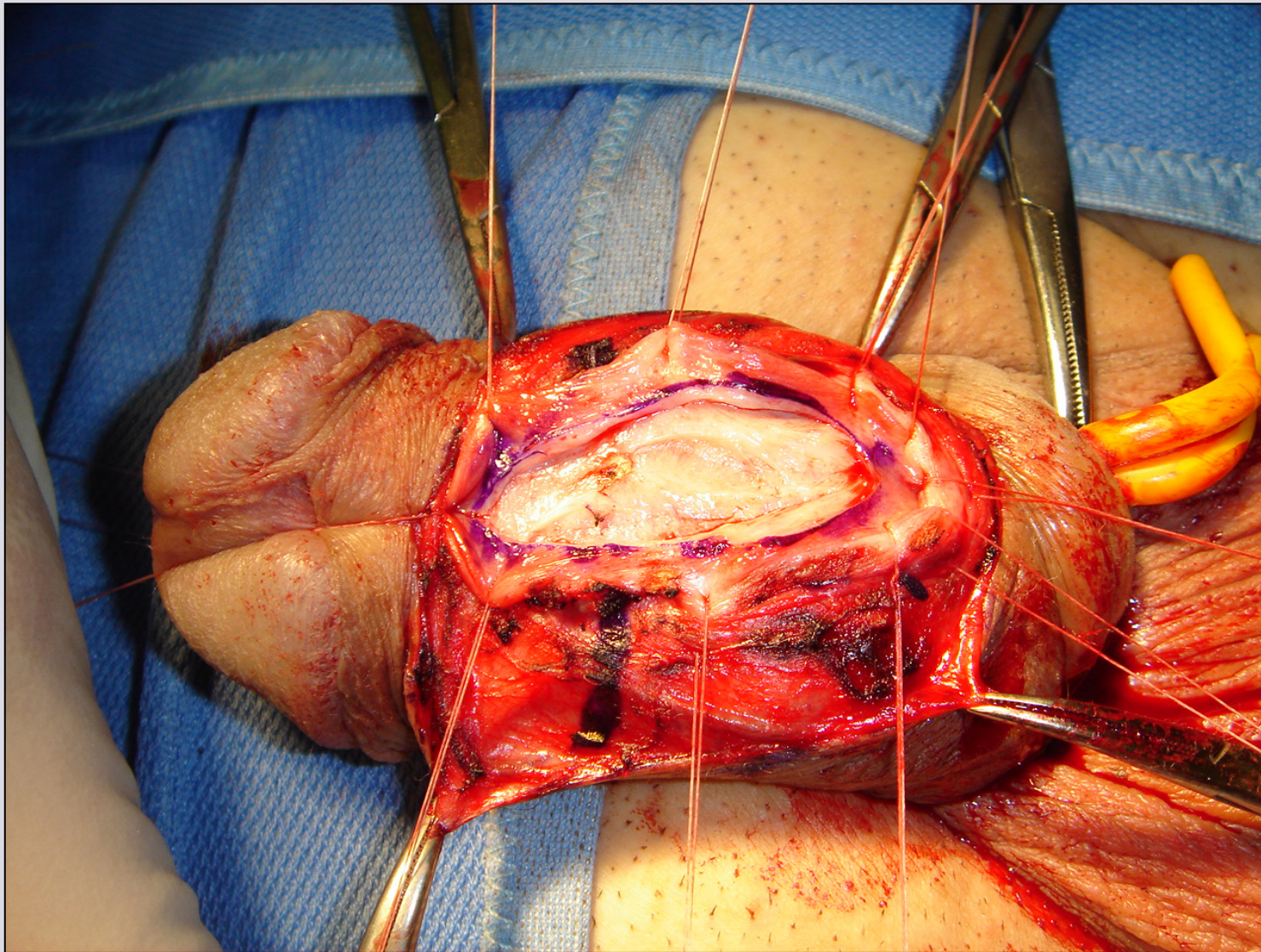


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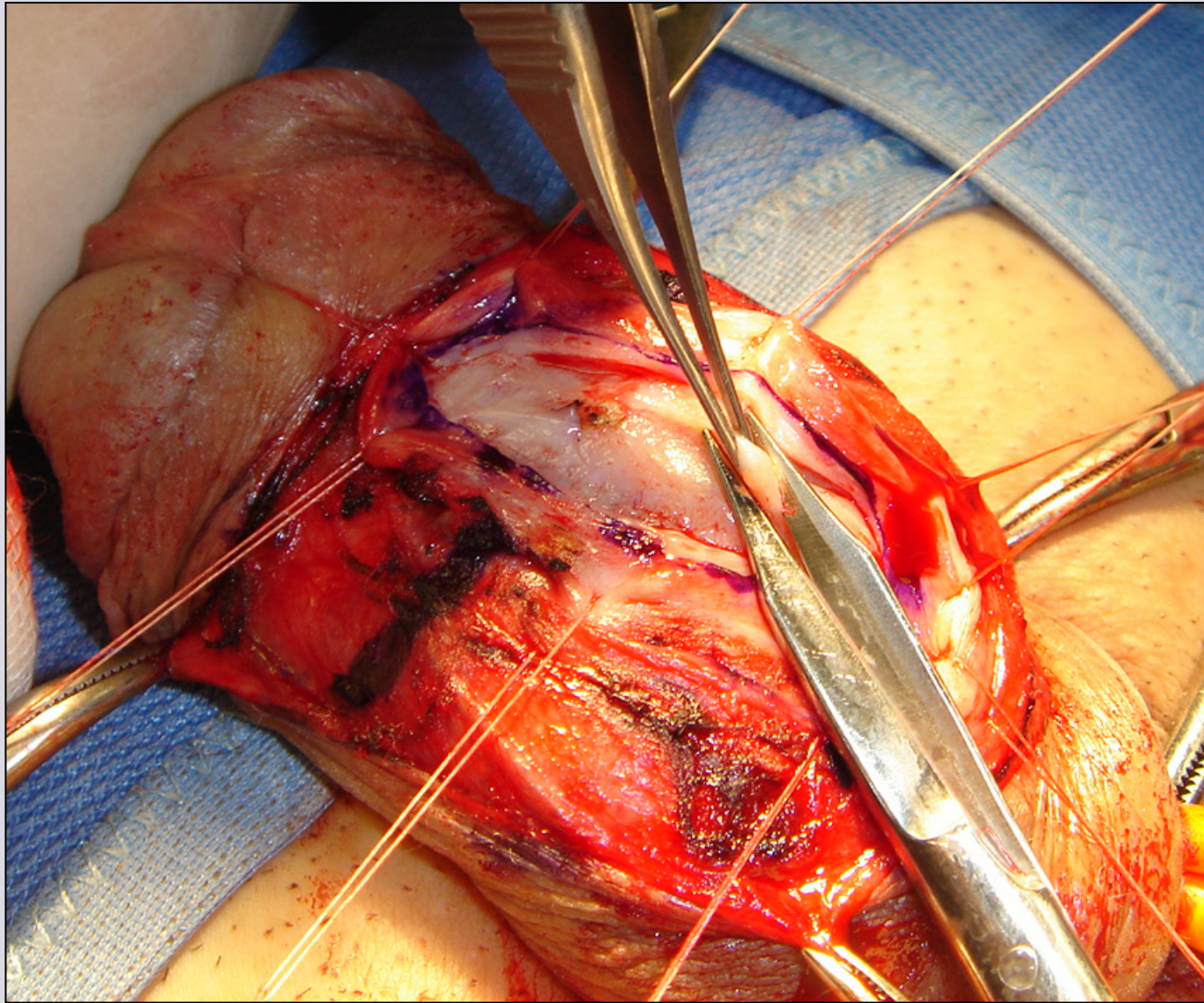


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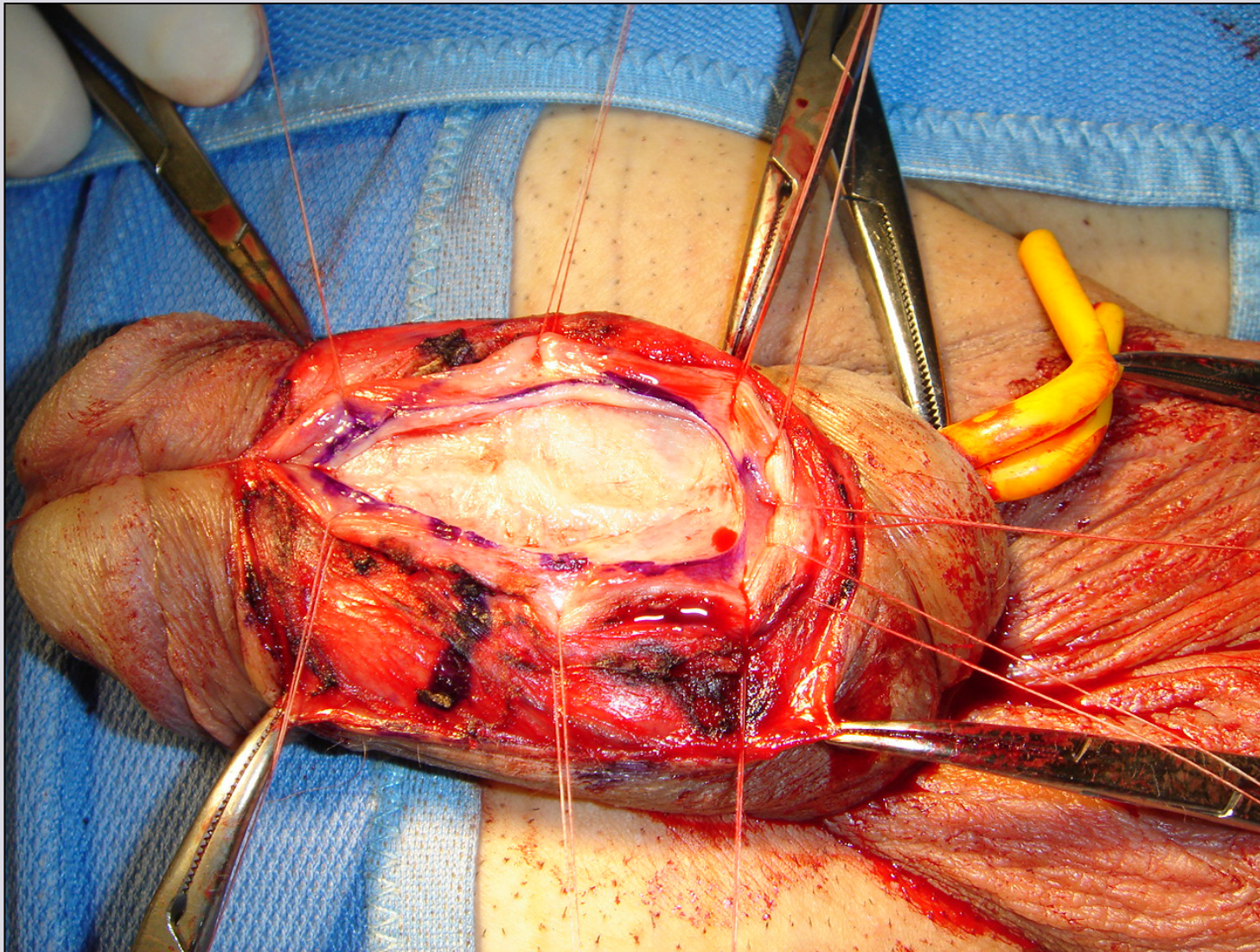


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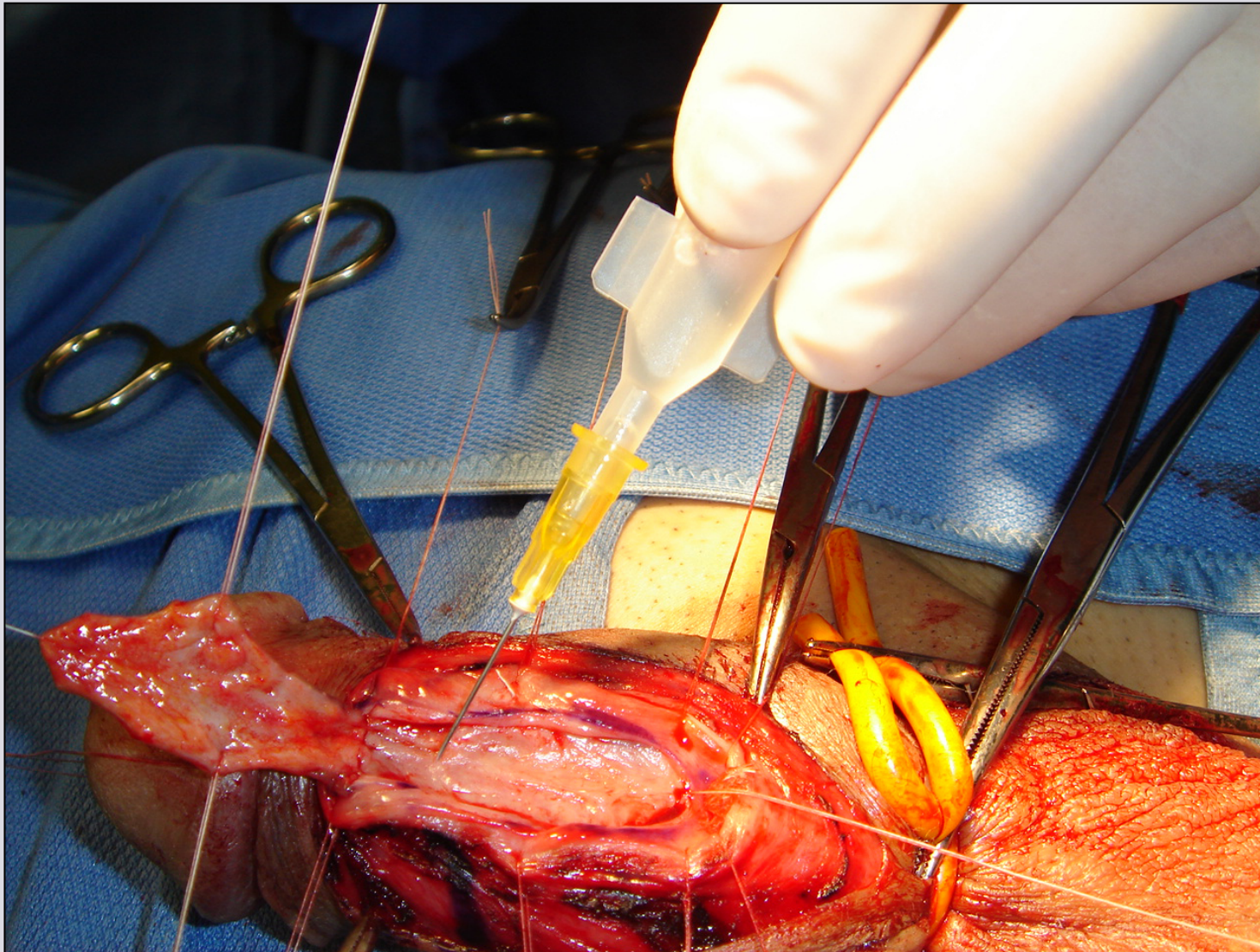


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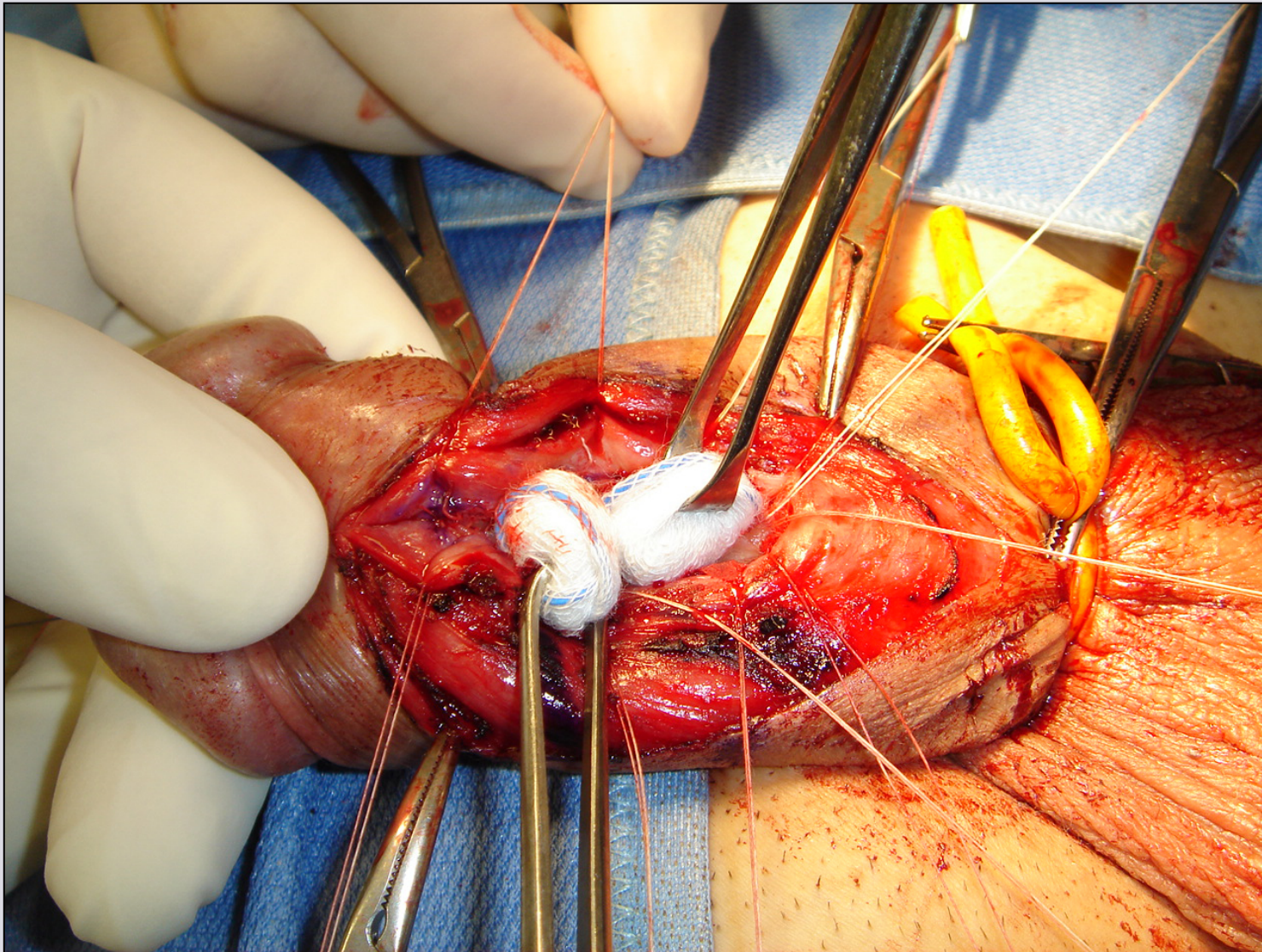


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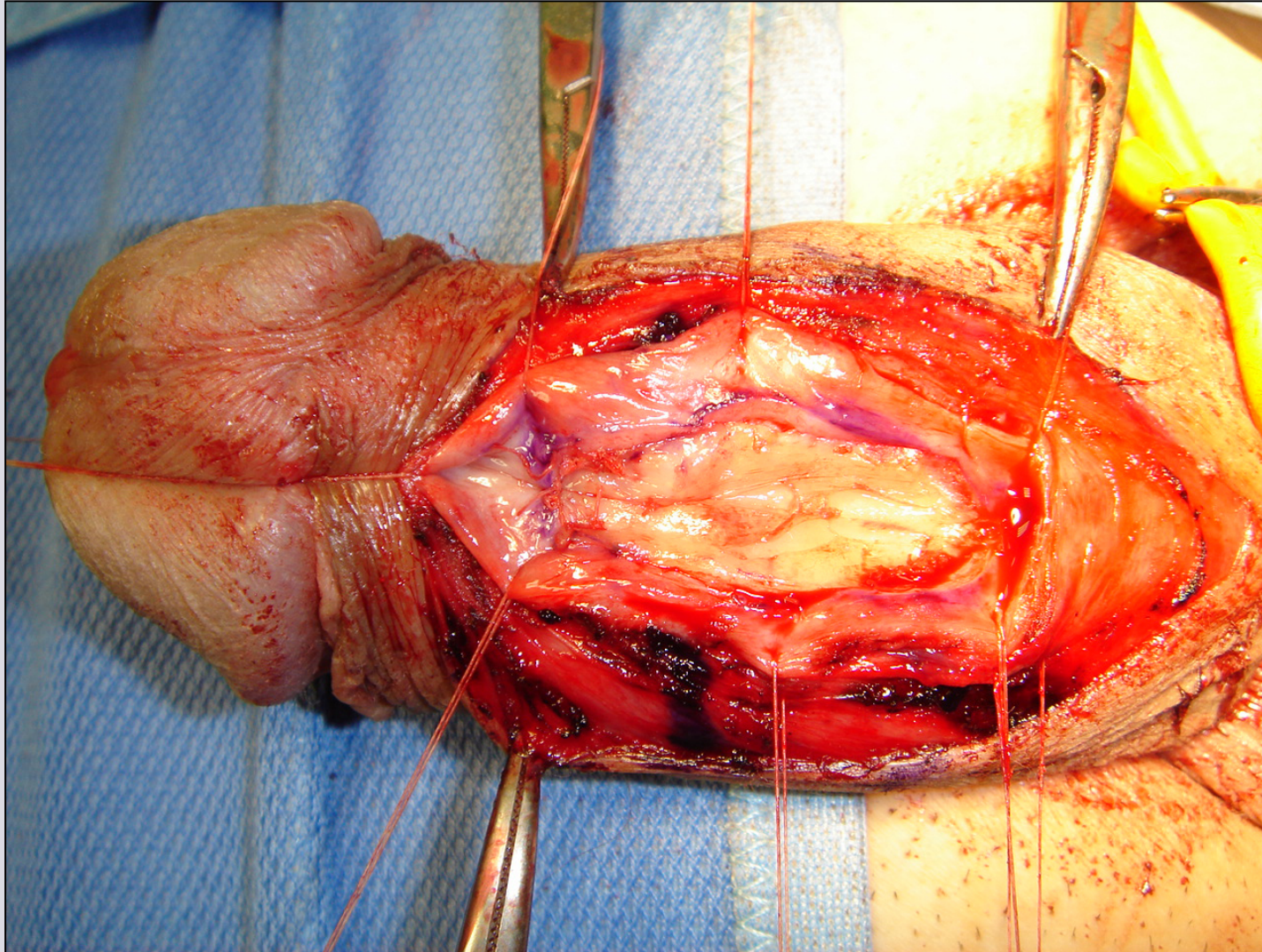


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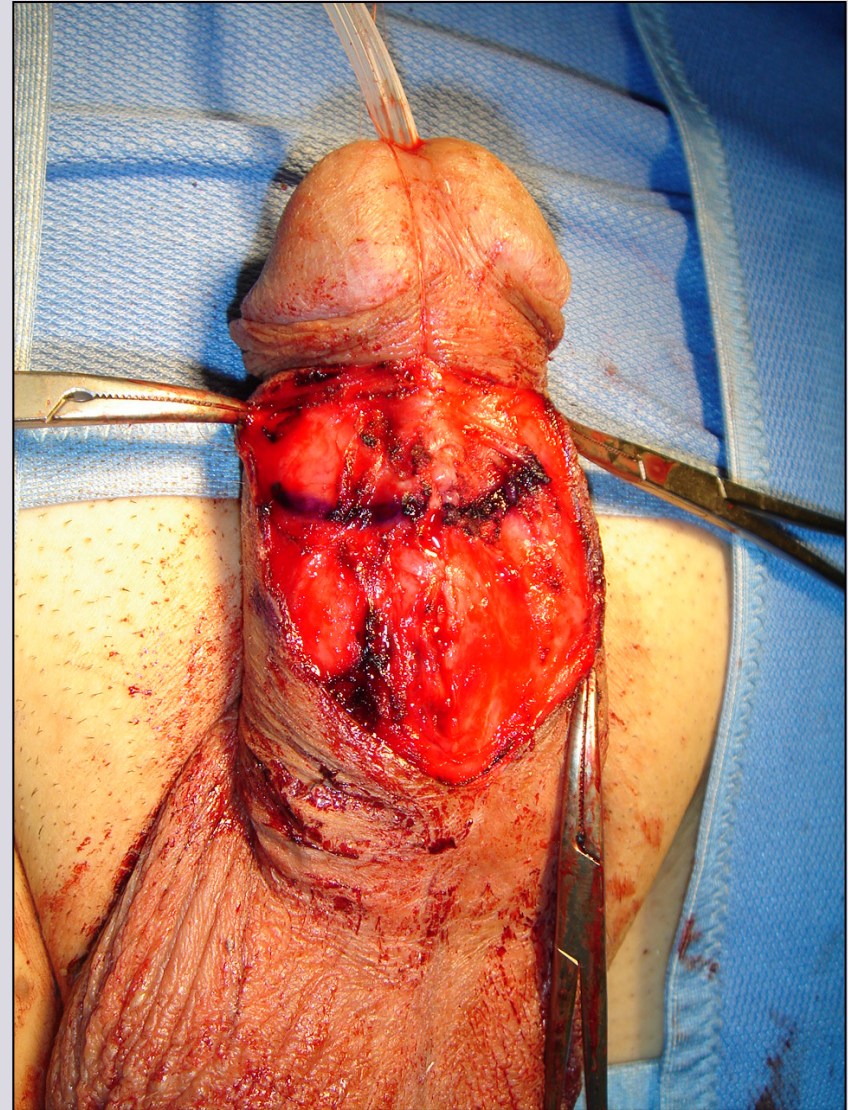
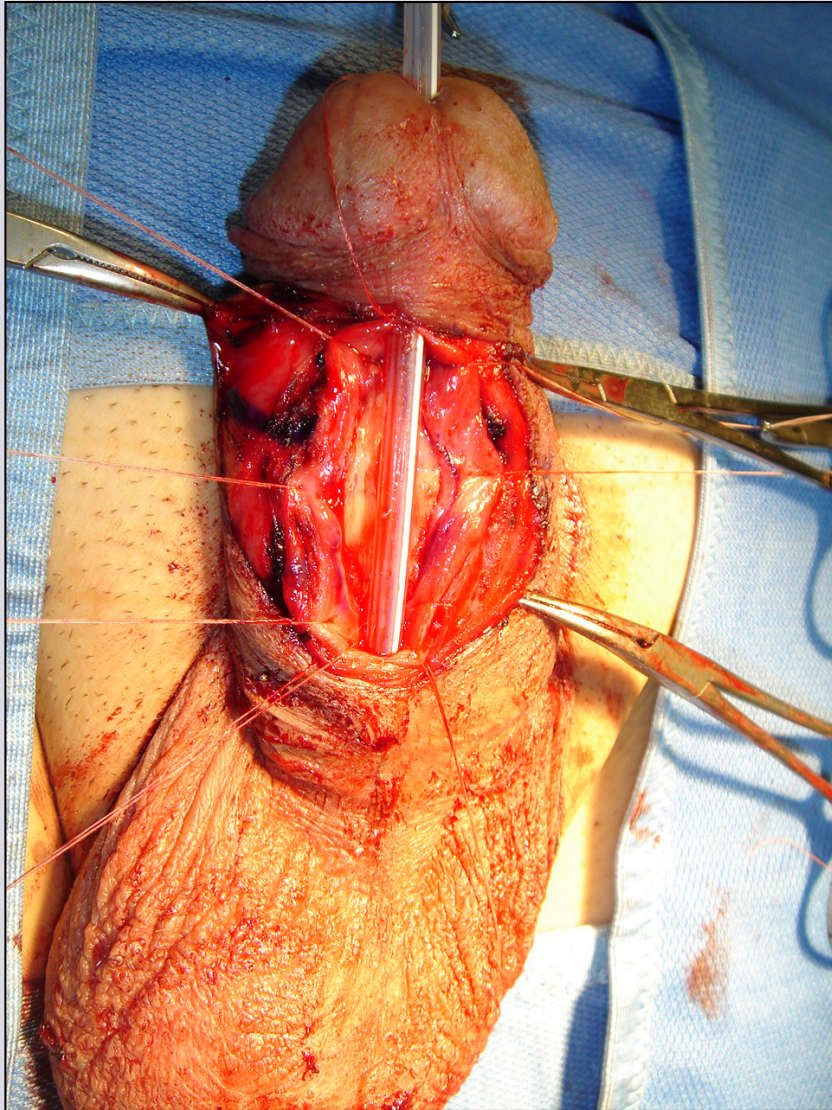


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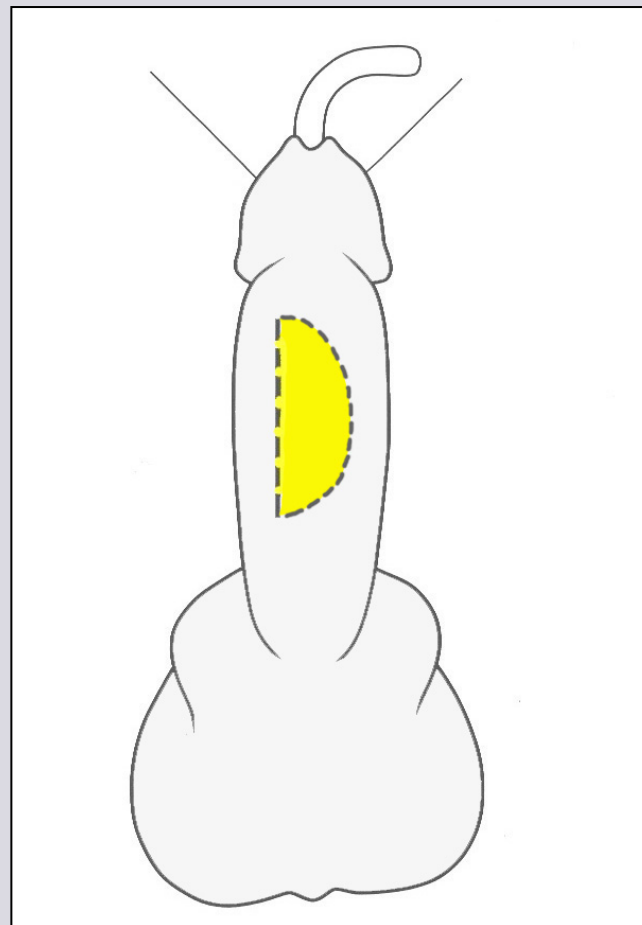
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# One-stage skin flap urethroplasty

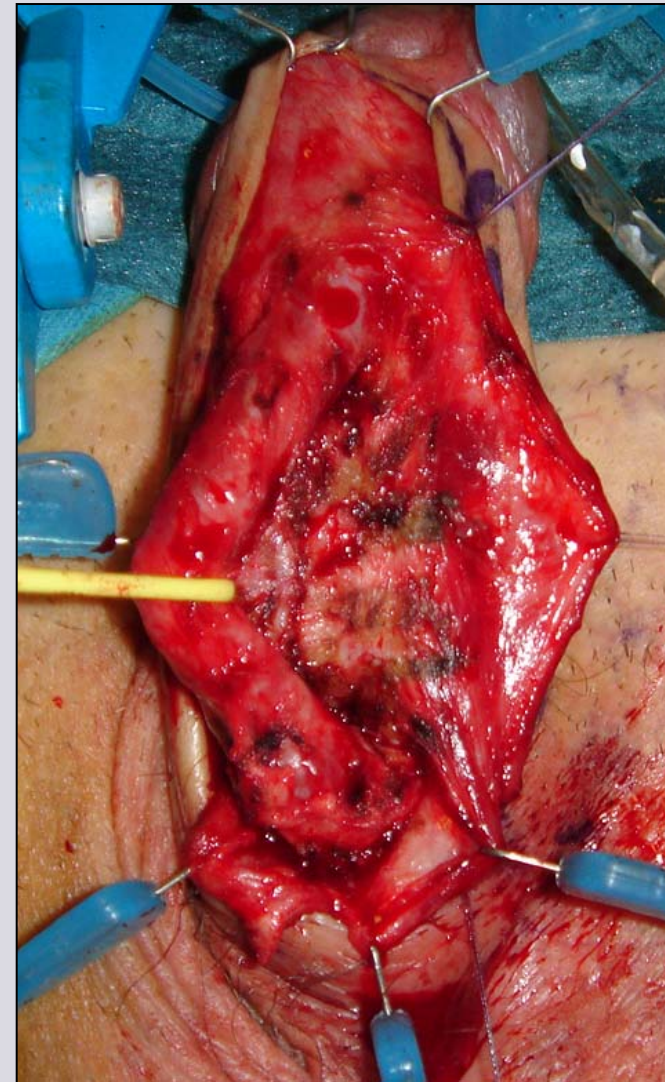


**Narrow urethral plate**



**Orandi's technique**

# One-stage skin flap urethroplasty

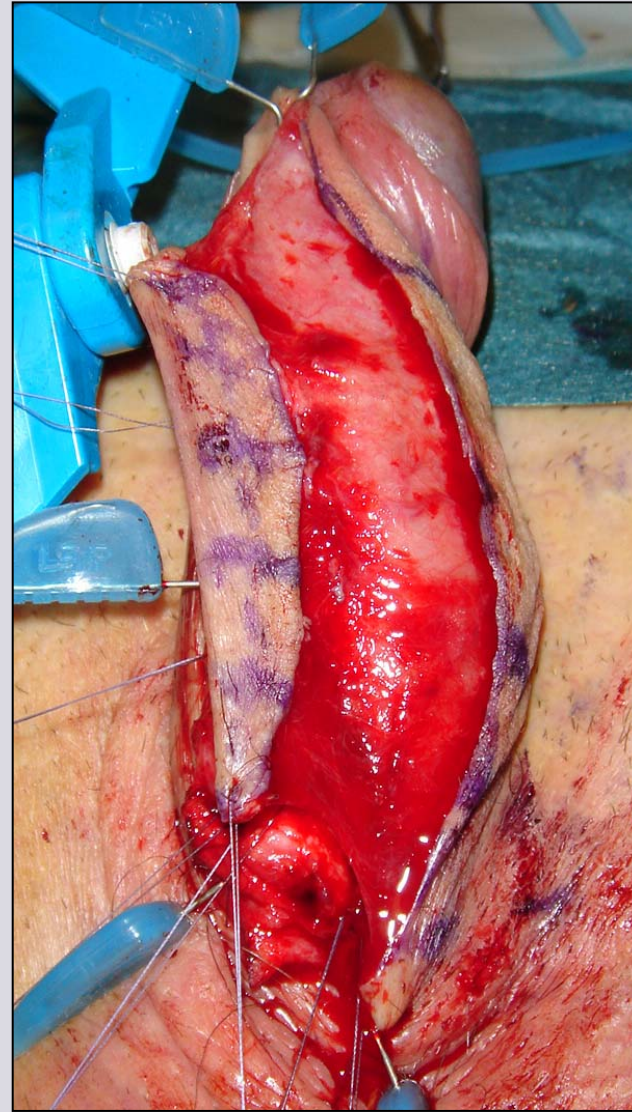
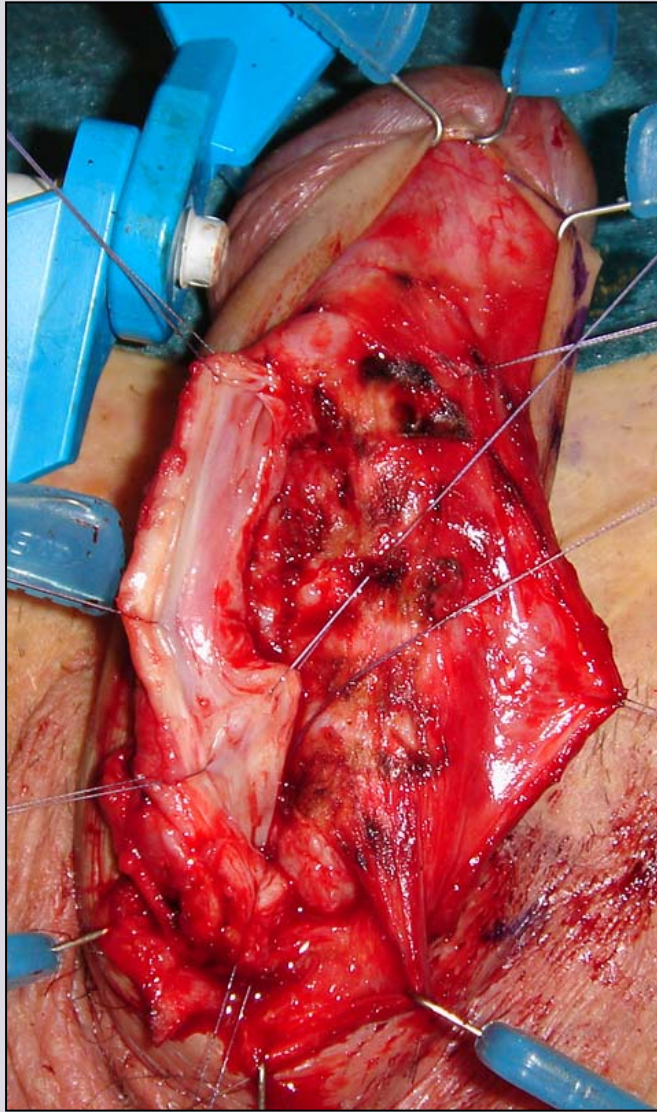


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# One-stage skin flap urethroplasty

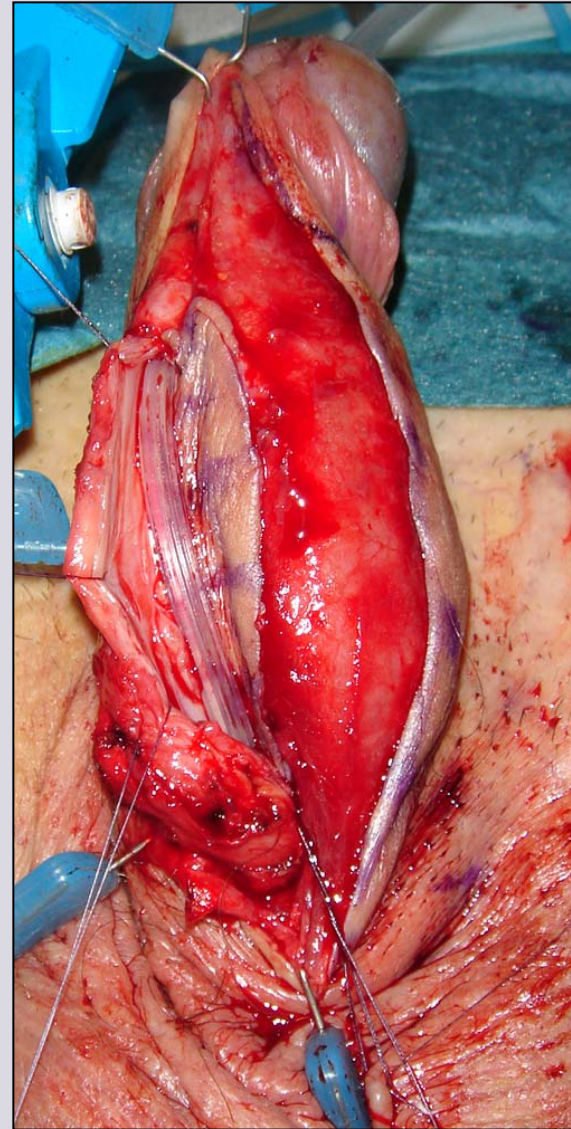
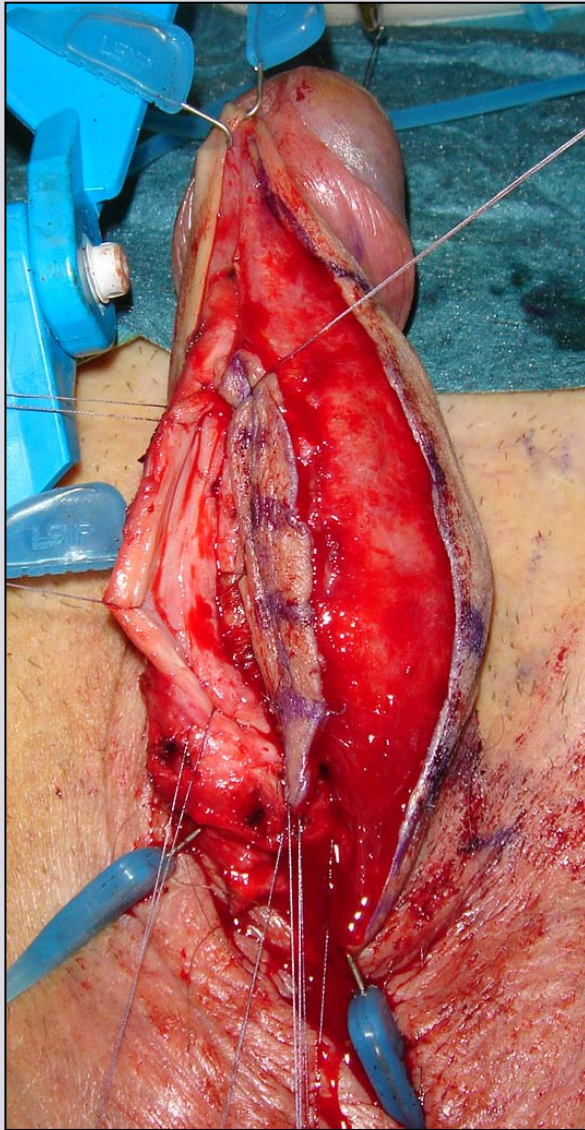


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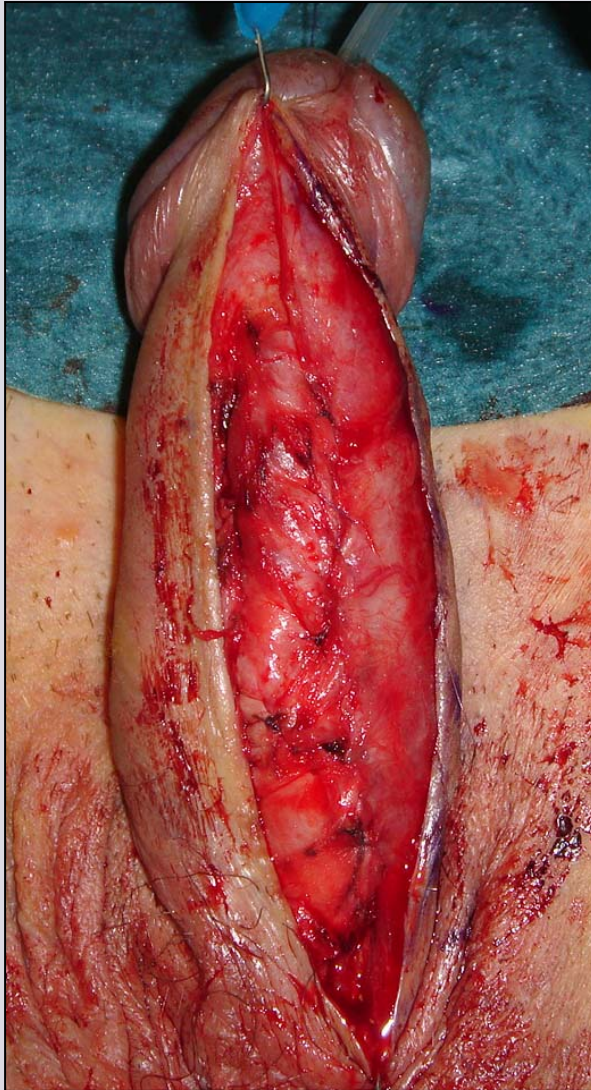


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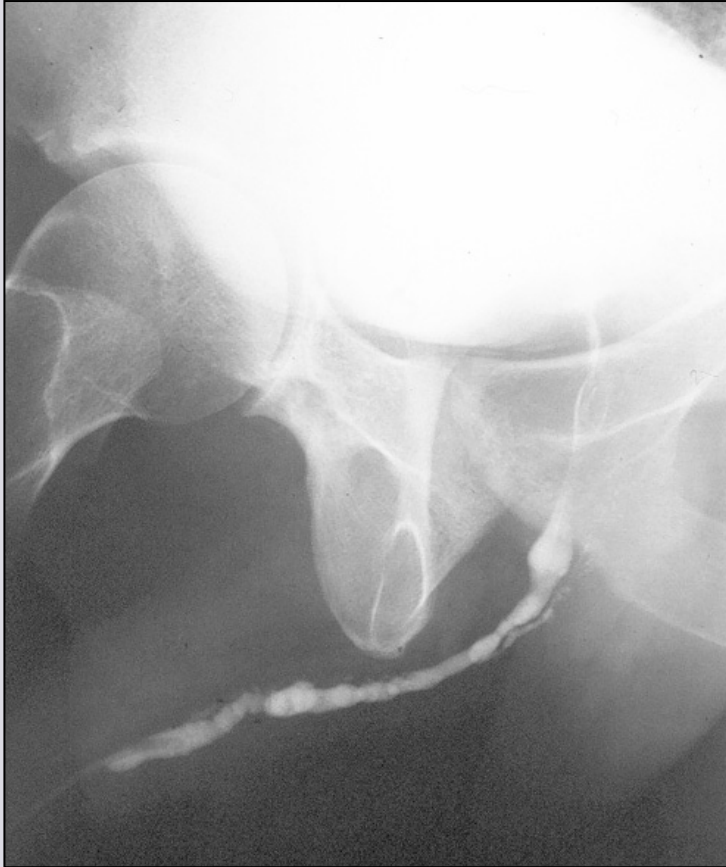
# One-stage penile urethroplasty: graft or flap ?

- ❖ NO sure data available from literature
- ❖ NO comparative studies including evaluation of post-operative sexual and aesthetic dysfunctions and patient satisfaction
- ❖ Surgeon background and preference





# One-stage urethroplasty - perineal approach



**Panurethral stricture**



**Kulkarni's technique**

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# One-stage urethroplasty - perineal approach

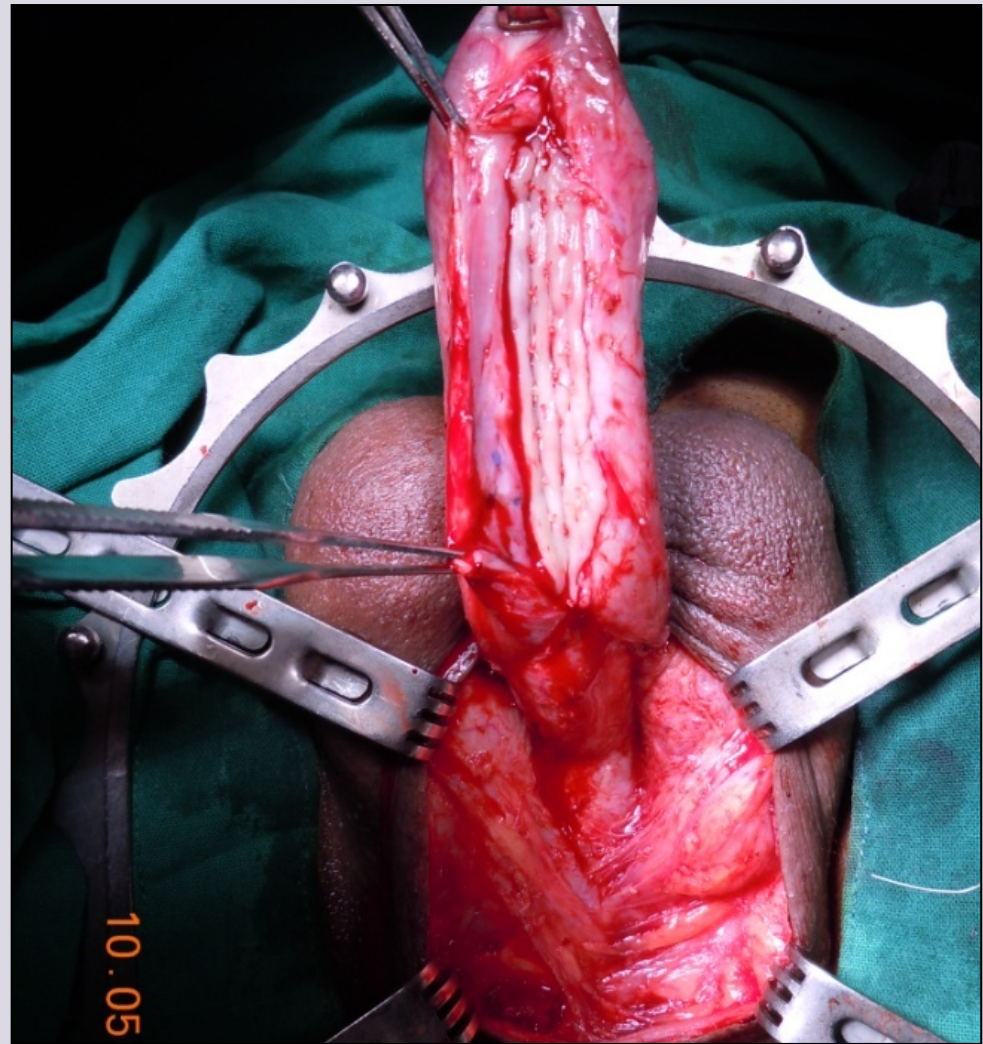
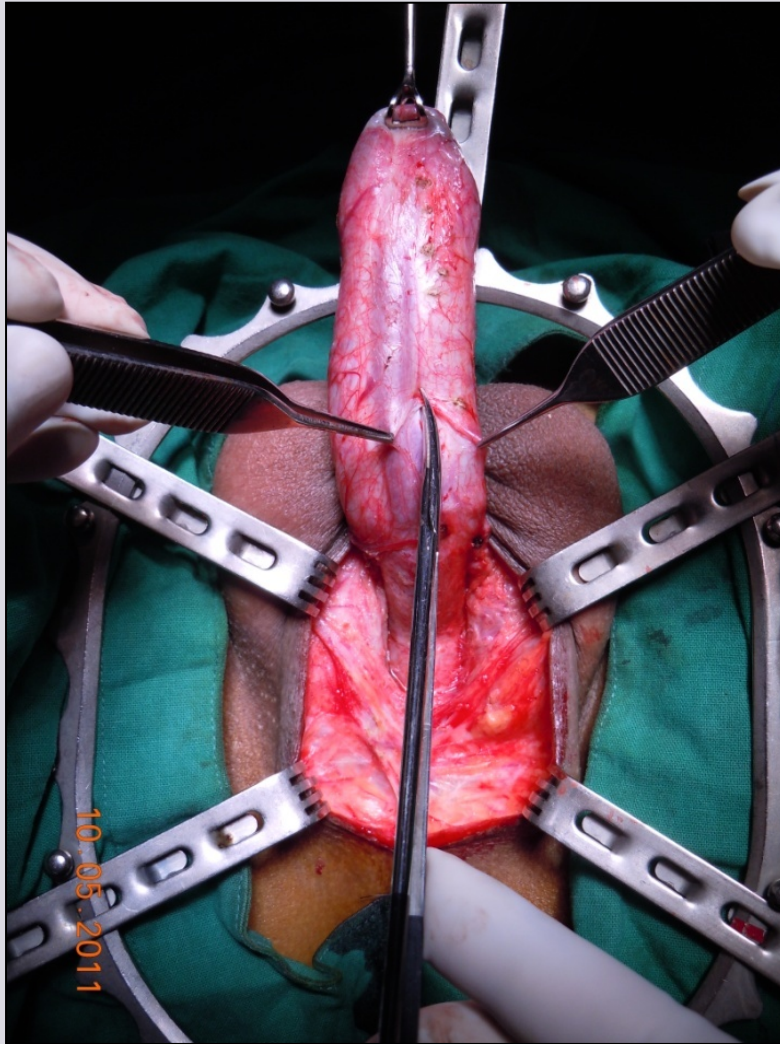


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# One-stage urethroplasty - perineal approach

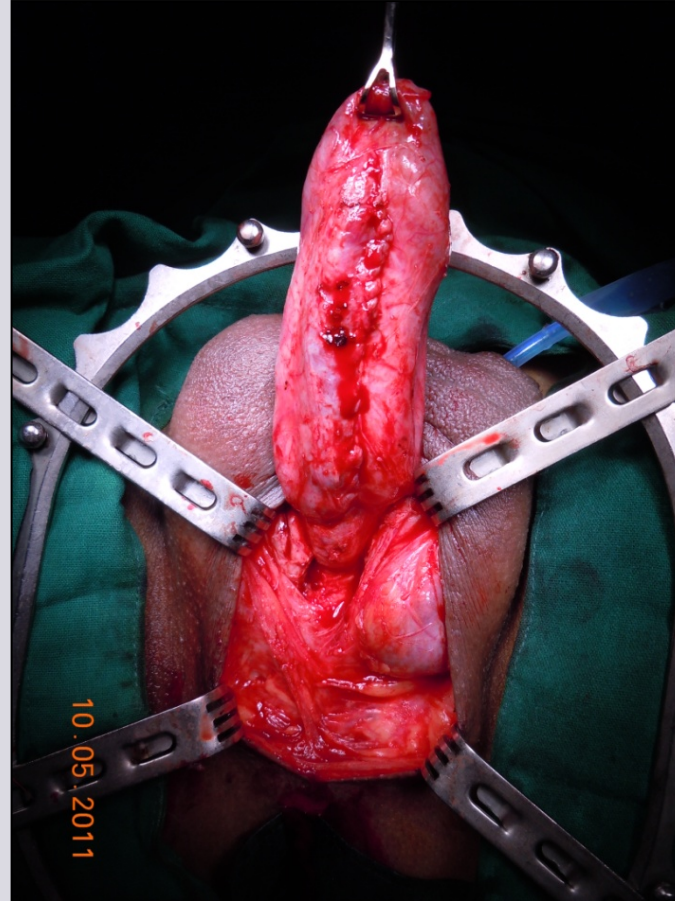
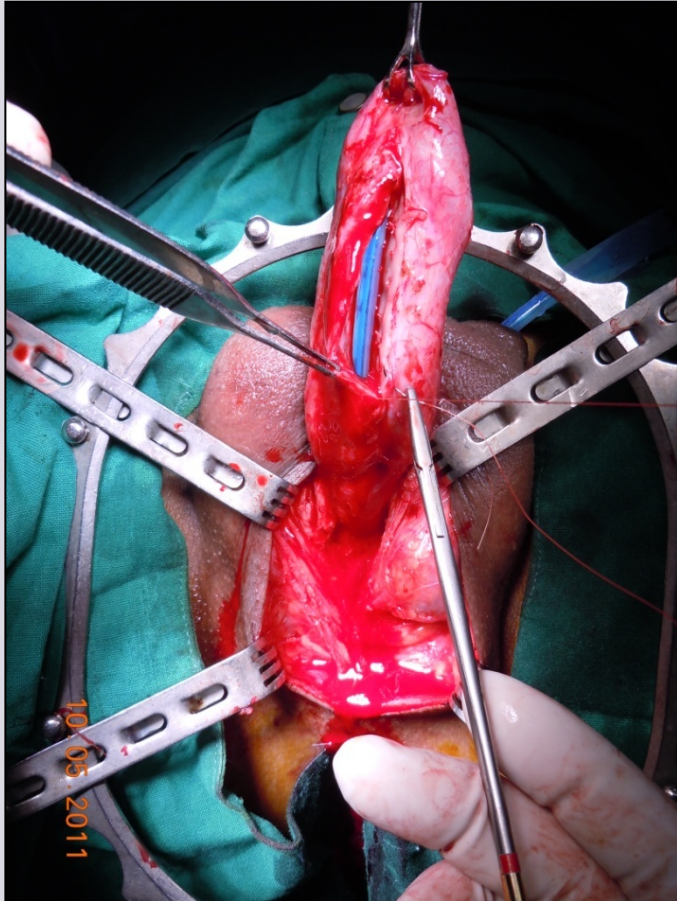


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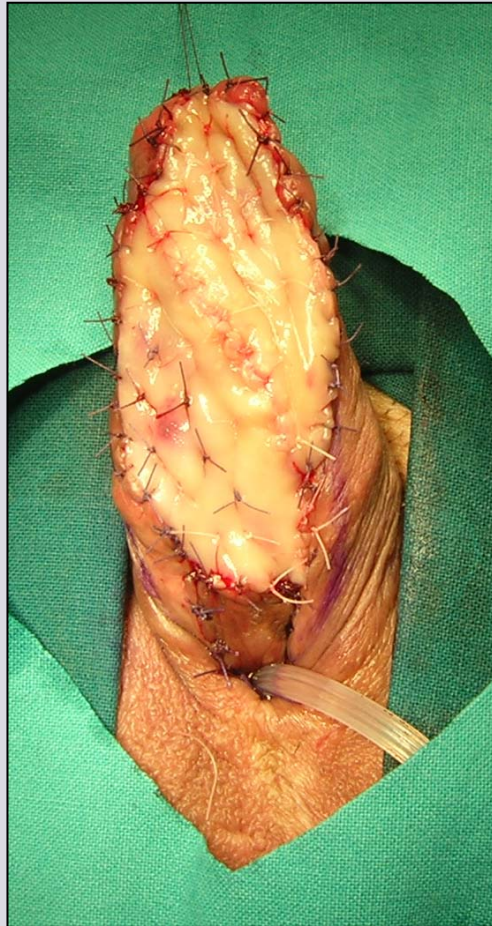
# One-stage urethroplasty - perineal approach



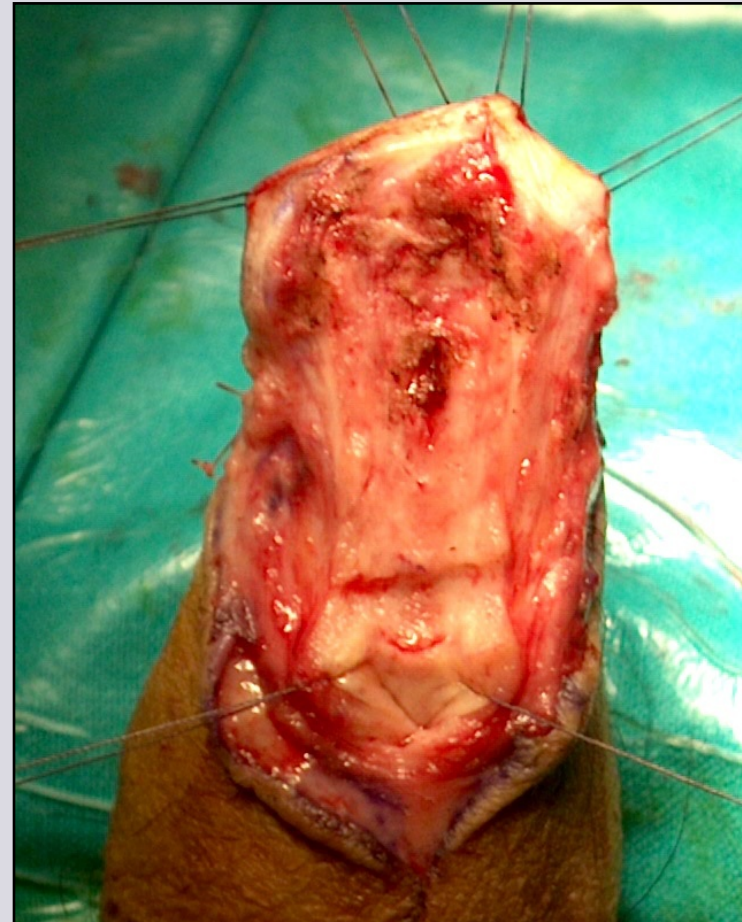


# Surgical repair of **complex** penile urethral stricture

## Two-stage repair



## First-stage repair using oral mucosal graft



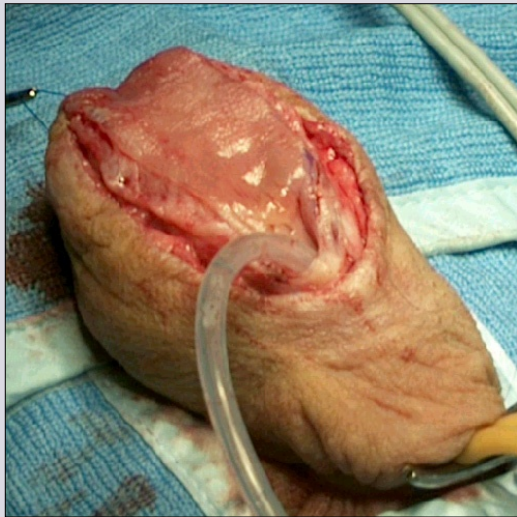


# First-stage repair using oral mucosal graft





## Second stage: primary closure





**39% of our patients required new surgical revision  
of the grafted area**

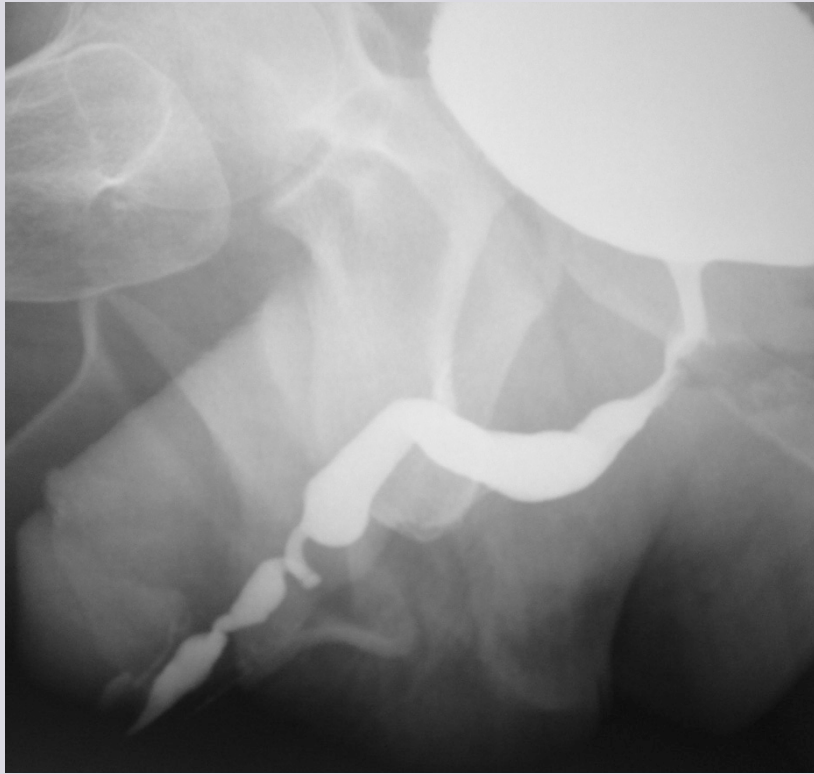


**Eur Urol 2006; 49: 887-895**

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# First-stage urethroplasty



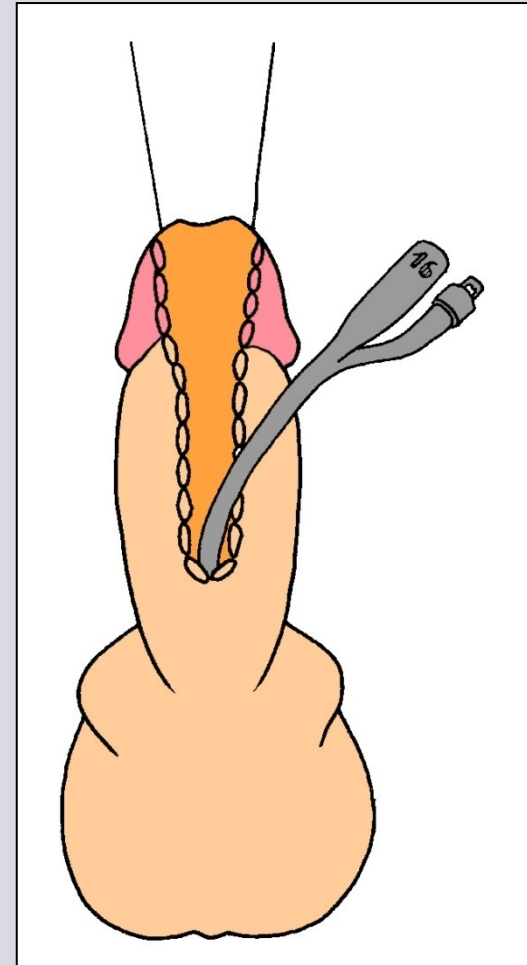
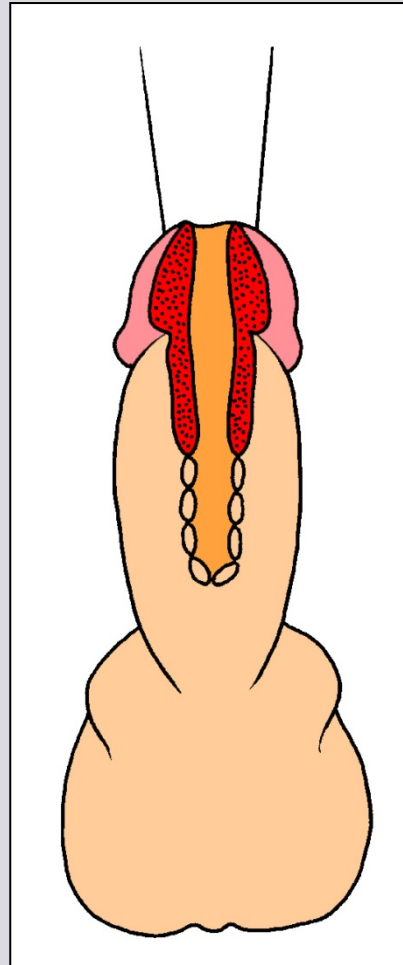
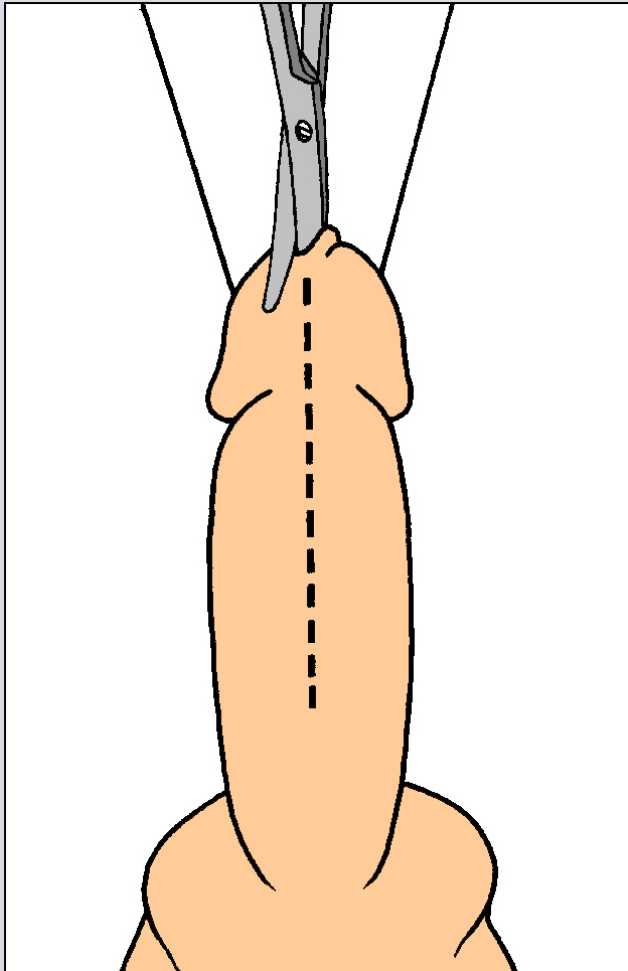
**Failed hypospadias repair**



**Johanson's technique**



## First stage: Johanson's urethroplasty



# First stage: Johanson's urethroplasty

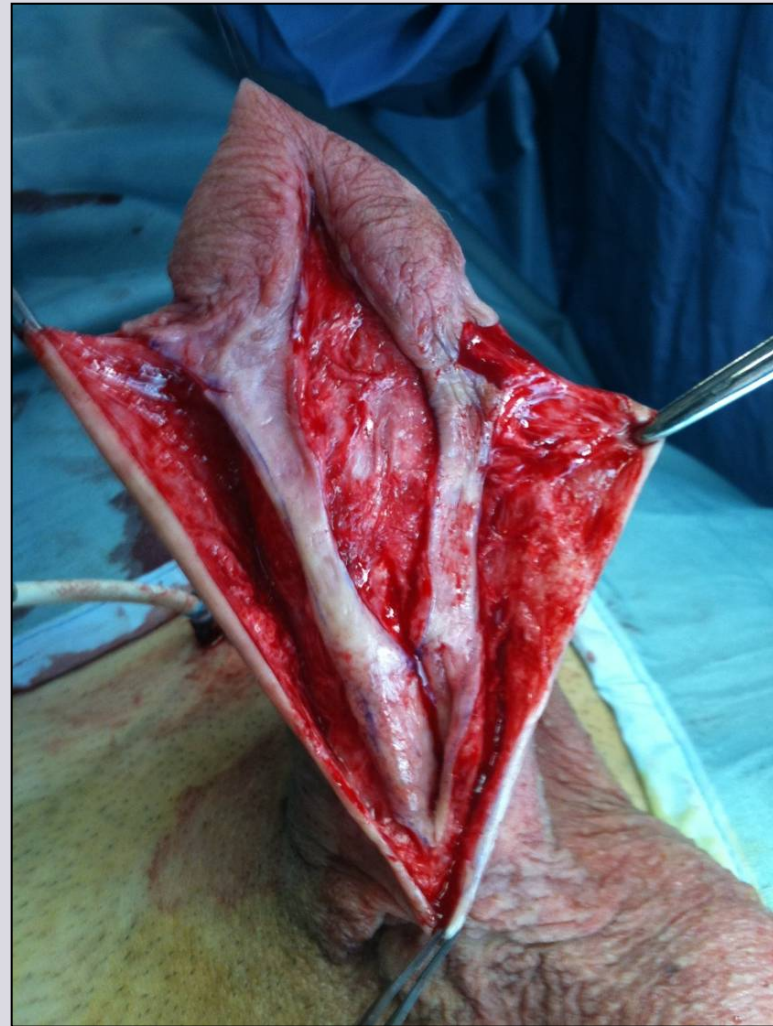


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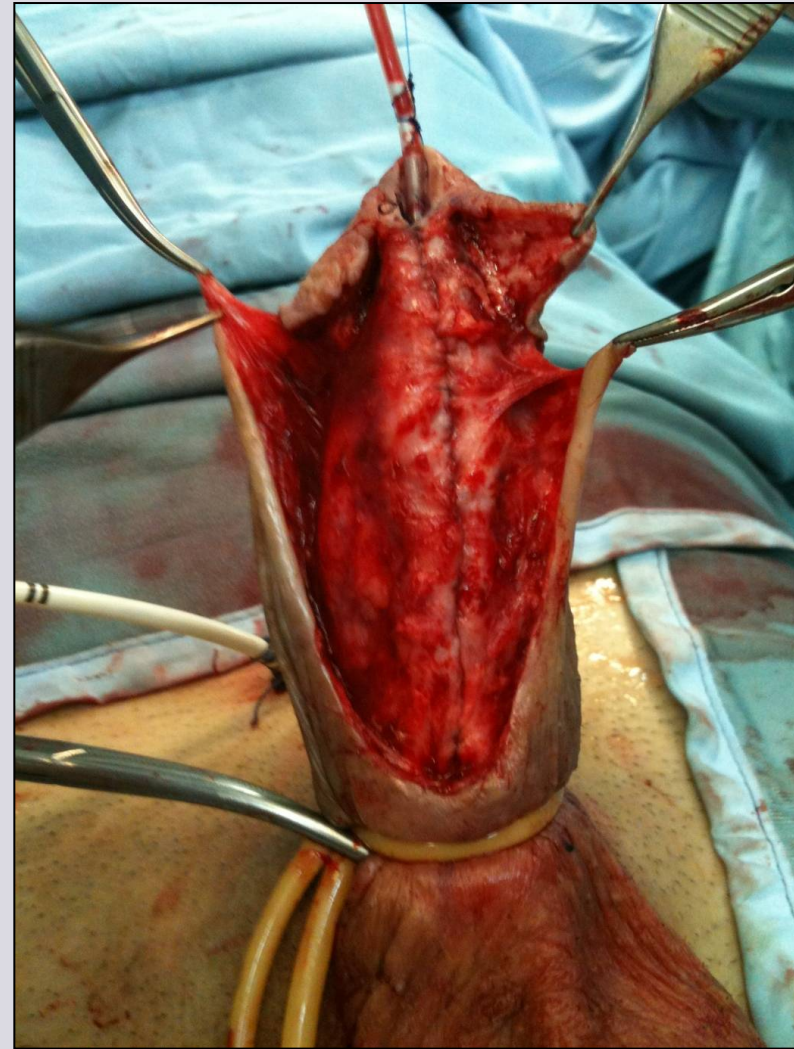
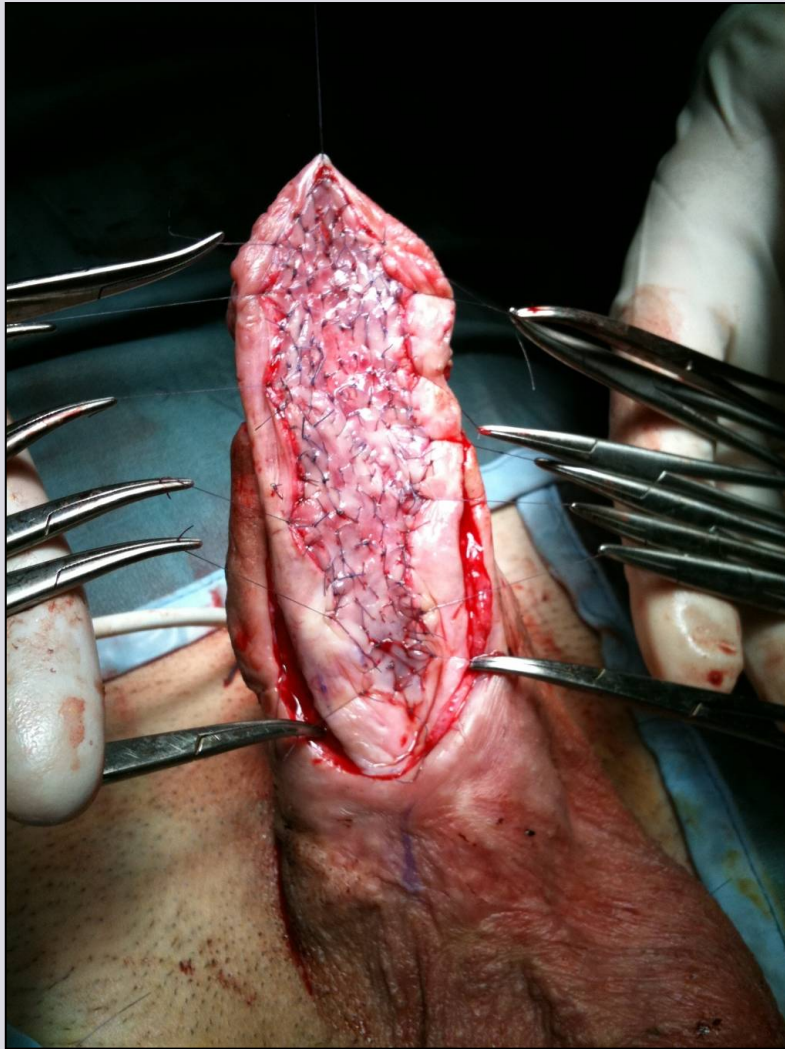


## Second stage: oral graft inlay urethroplasty





## Second stage: oral graft inlay urethroplasty





## Second stage: oral graft inlay urethroplasty



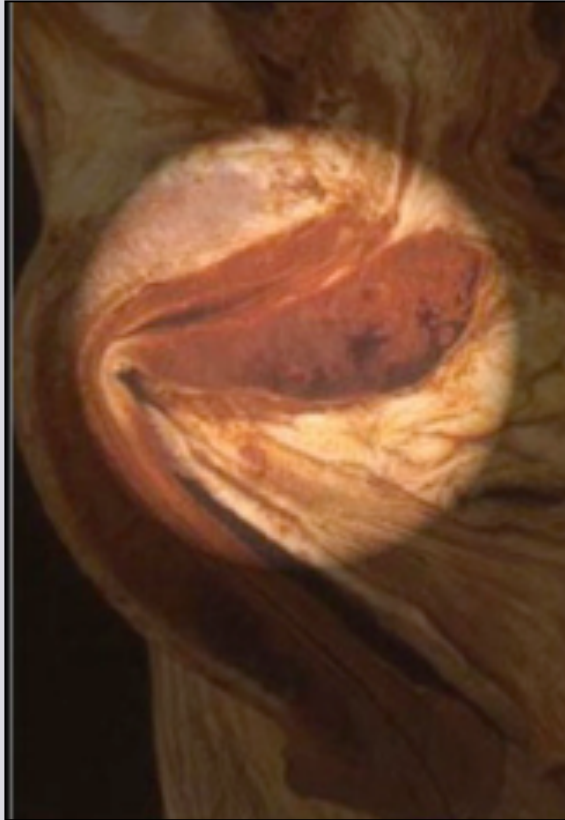


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# New classification of anterior urethral strictures

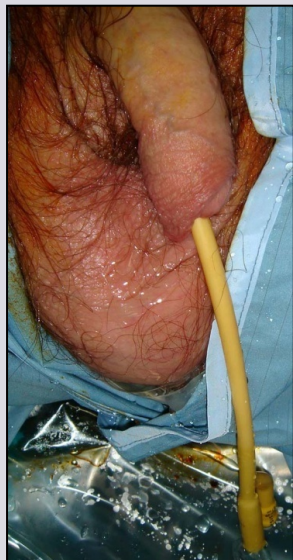


**Bulbar**

**Traumatic**

**Non-traumatic**

# Etiology of bulbar urethral stricture



**Catheter**



**Instrumentation**



**Infection**

**Idiopathic**  
**Radiotherapy**  
**Other**



**Trauma**

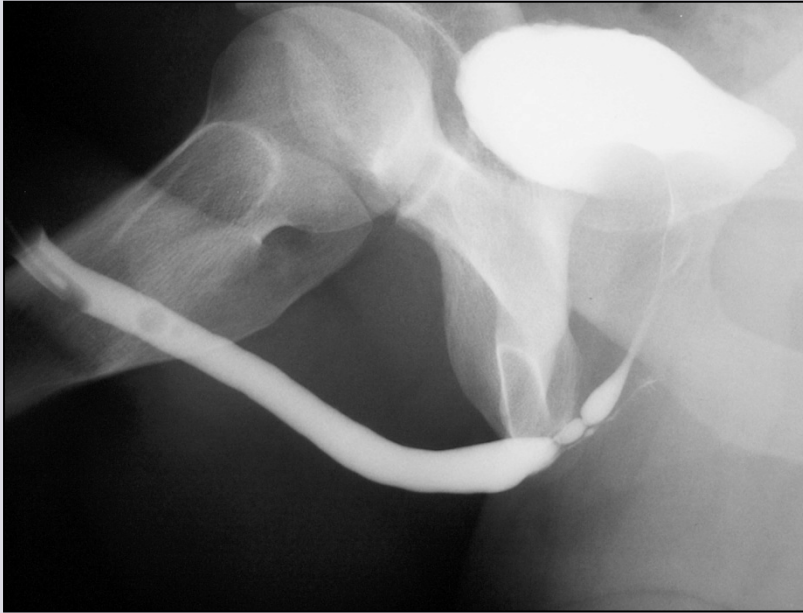


# Traumatic bulbar urethral stricture



1. Obliterative stricture
2. No practicable urethral plate
3. Scar tissue
4. Short or long fibrous gap

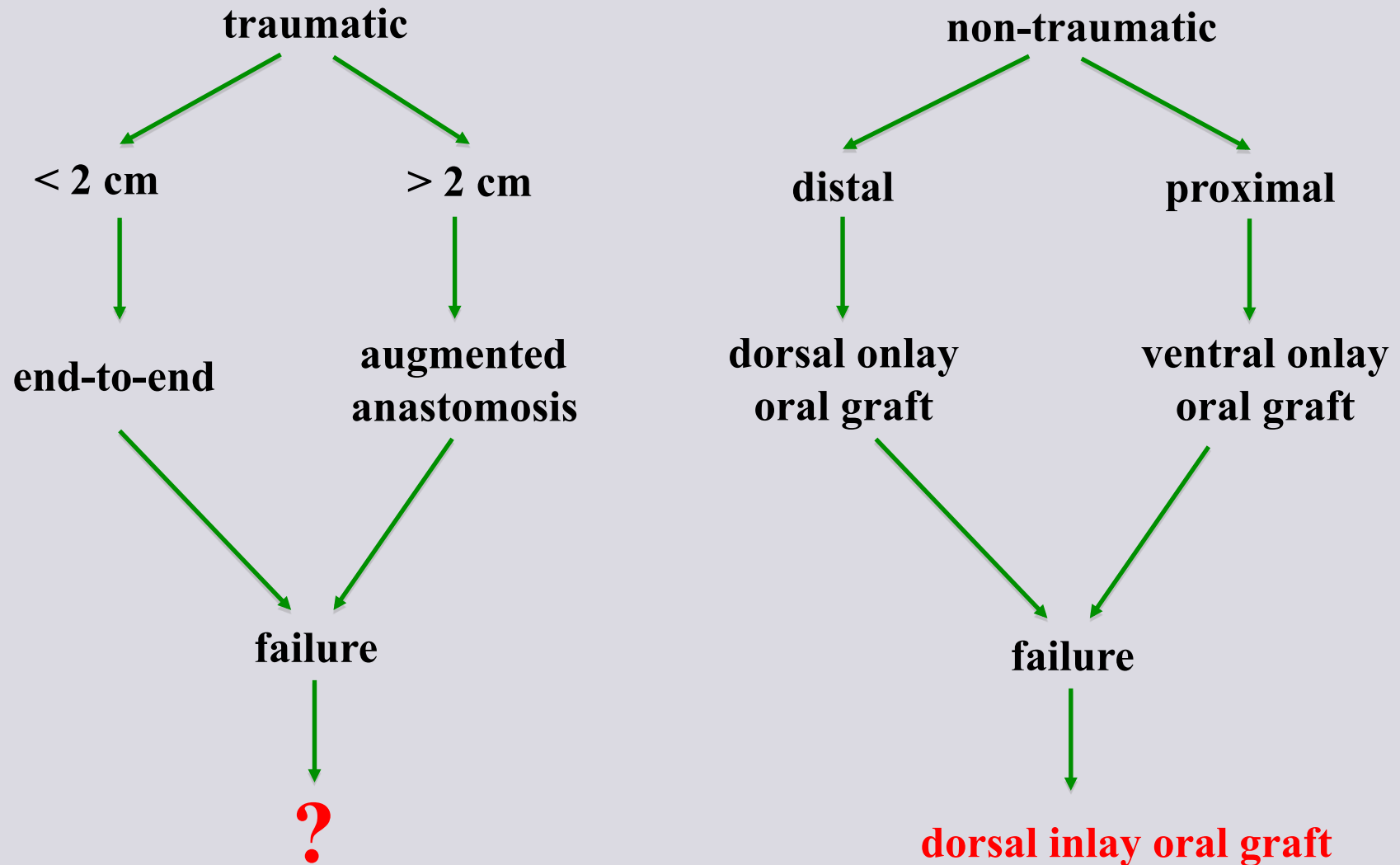
# Non-traumatic bulbar urethral stricture



1. Etiology: idiopathic – catheter - instrumentation –infection – other
2. Practicable urethral plate (3 Fr. Sensor guidewire)
3. No fibrous gap



# Bulbar urethral stricture

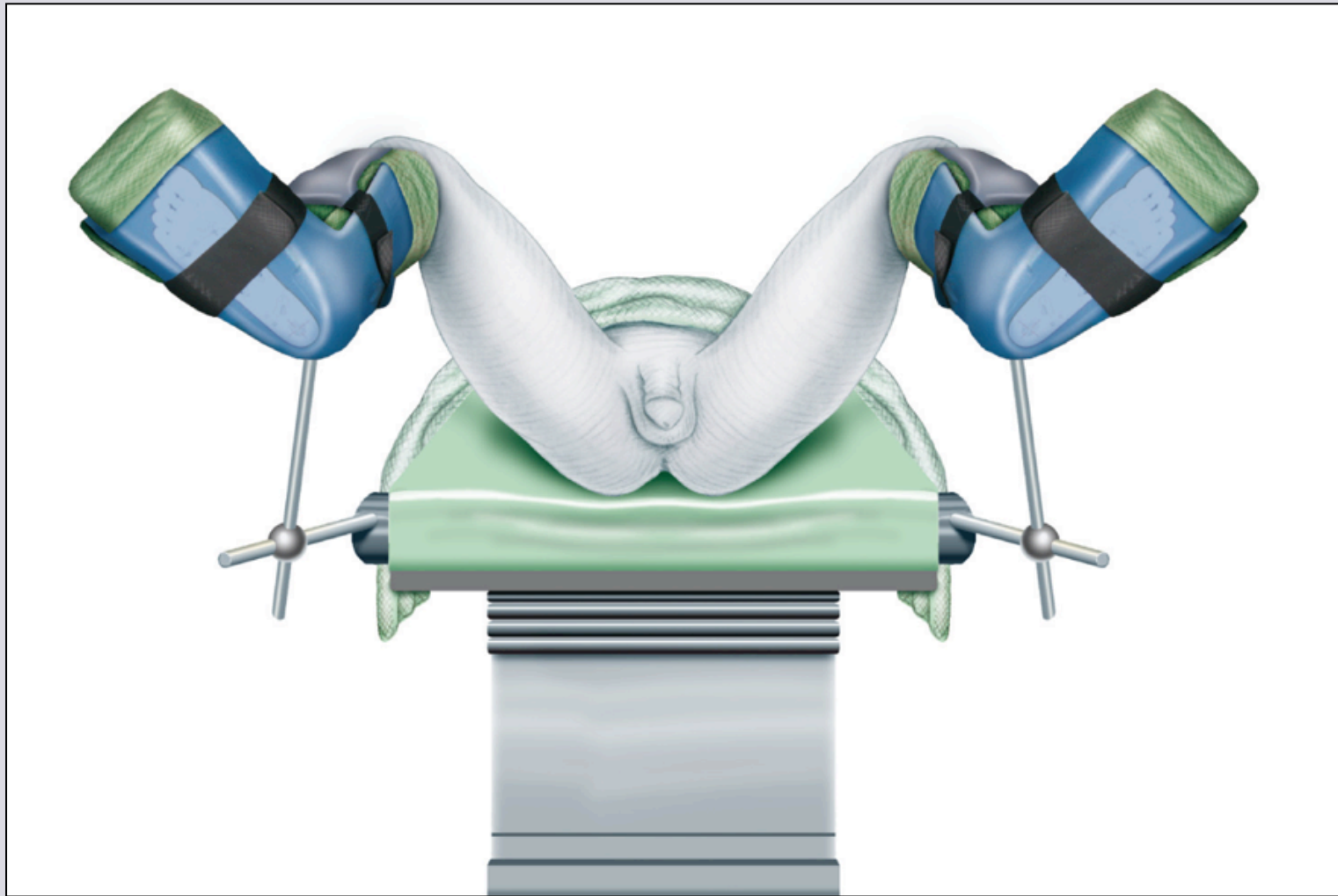


# **Reconstruction of the bulbar urethra in traumatic stricture**

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**Simple lithotomy position**



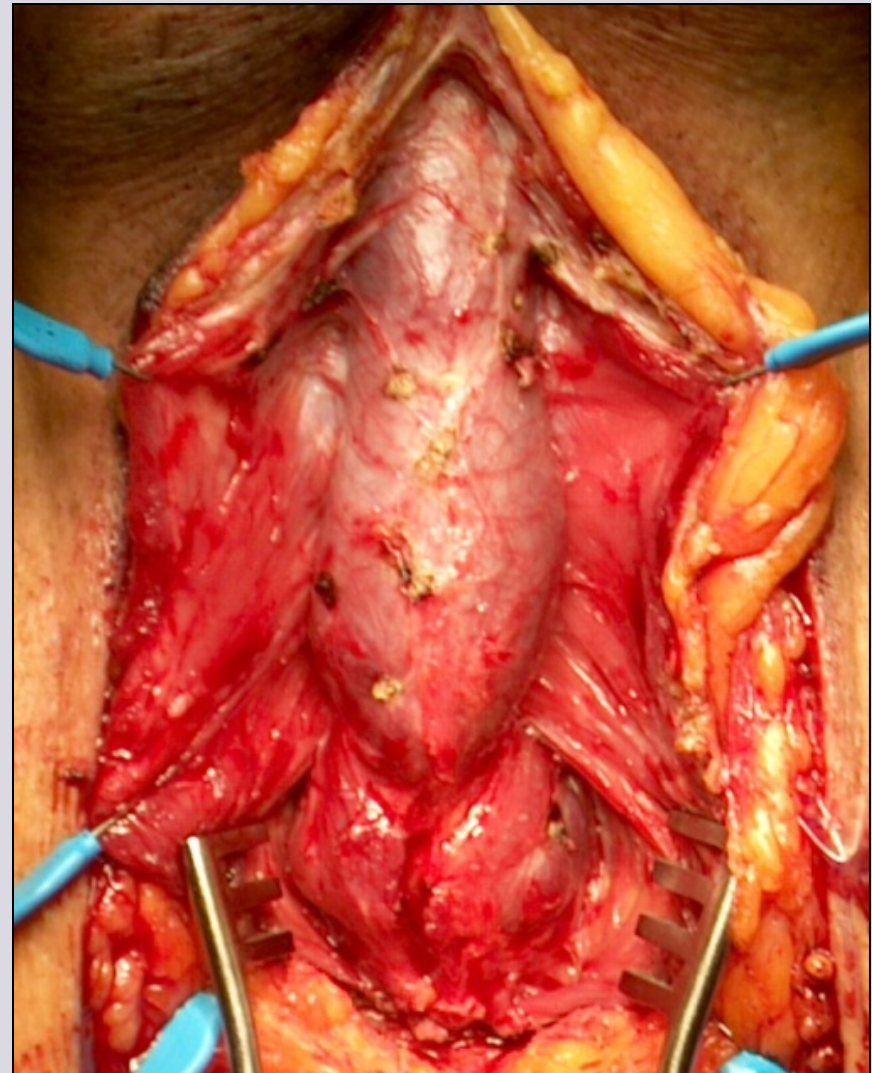
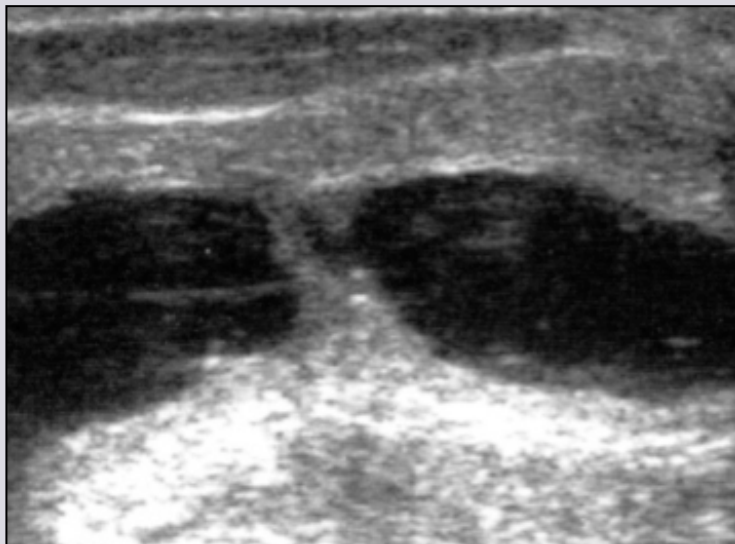
**Allen stirrups**



**Sequential inflatable  
compression sleeves**



# 1 - 2 cm traumatic bulbar urethral stricture

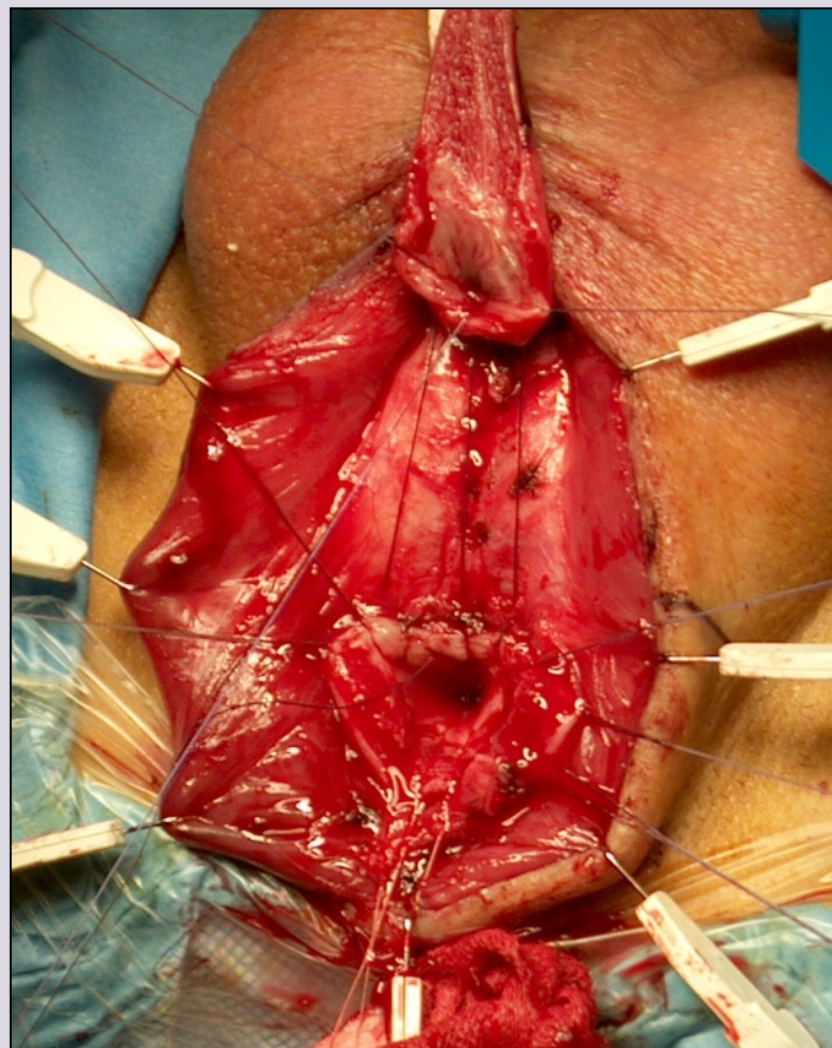
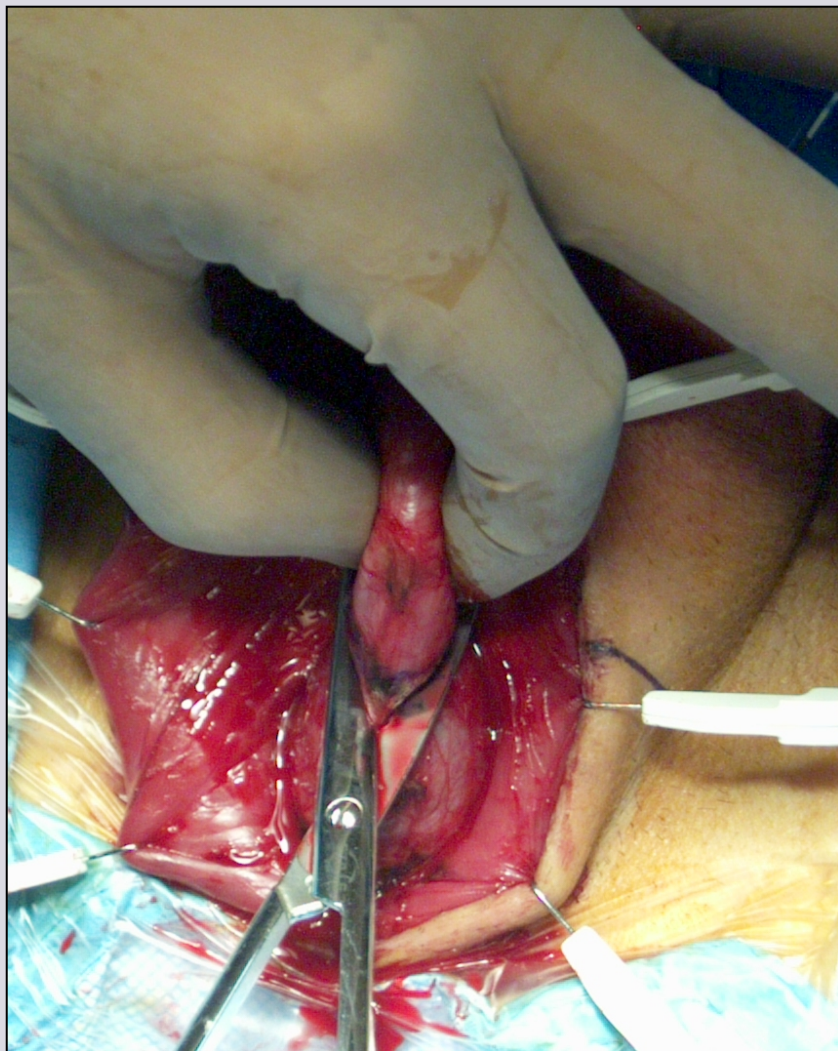


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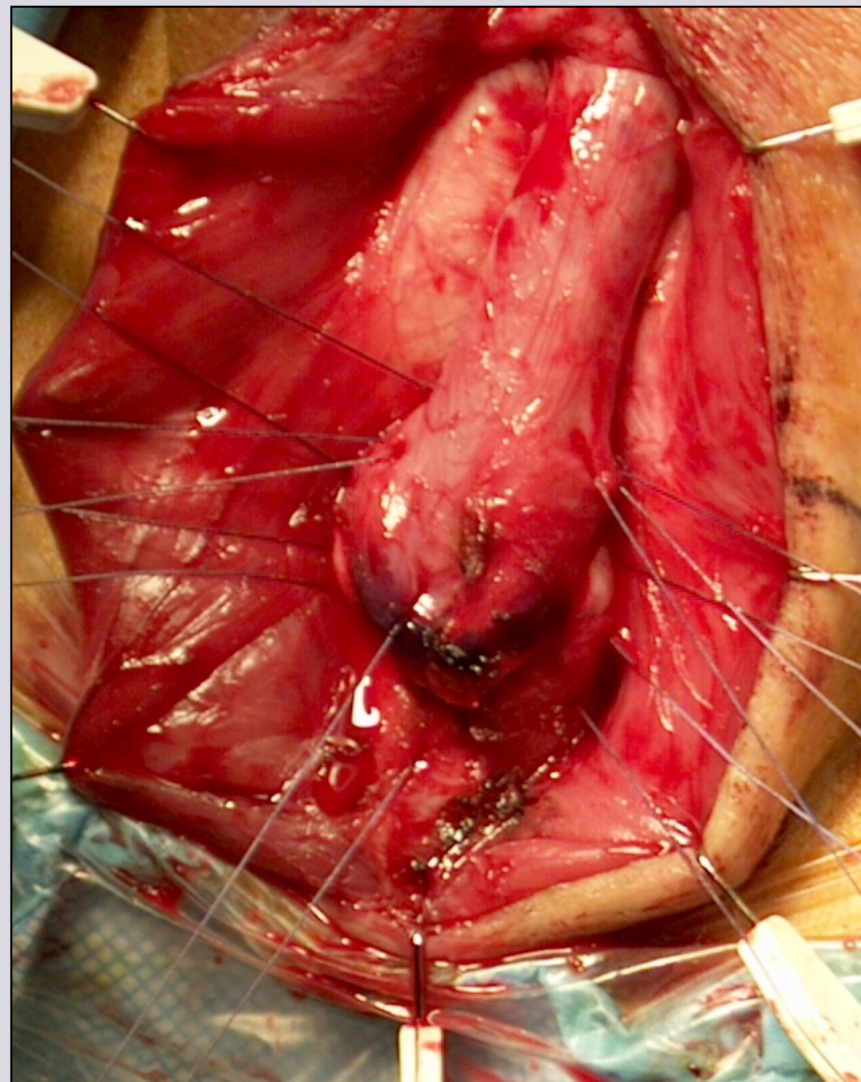
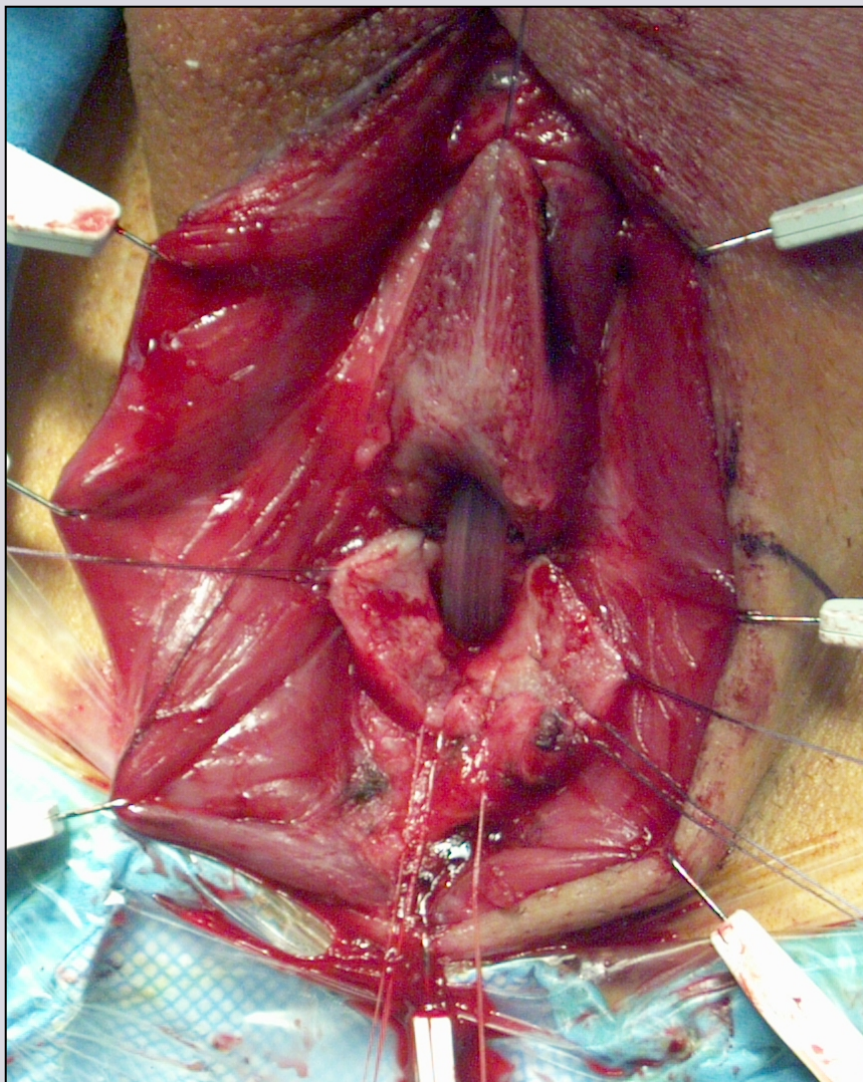


# End-to-end anastomosis





# End-to-end anastomosis

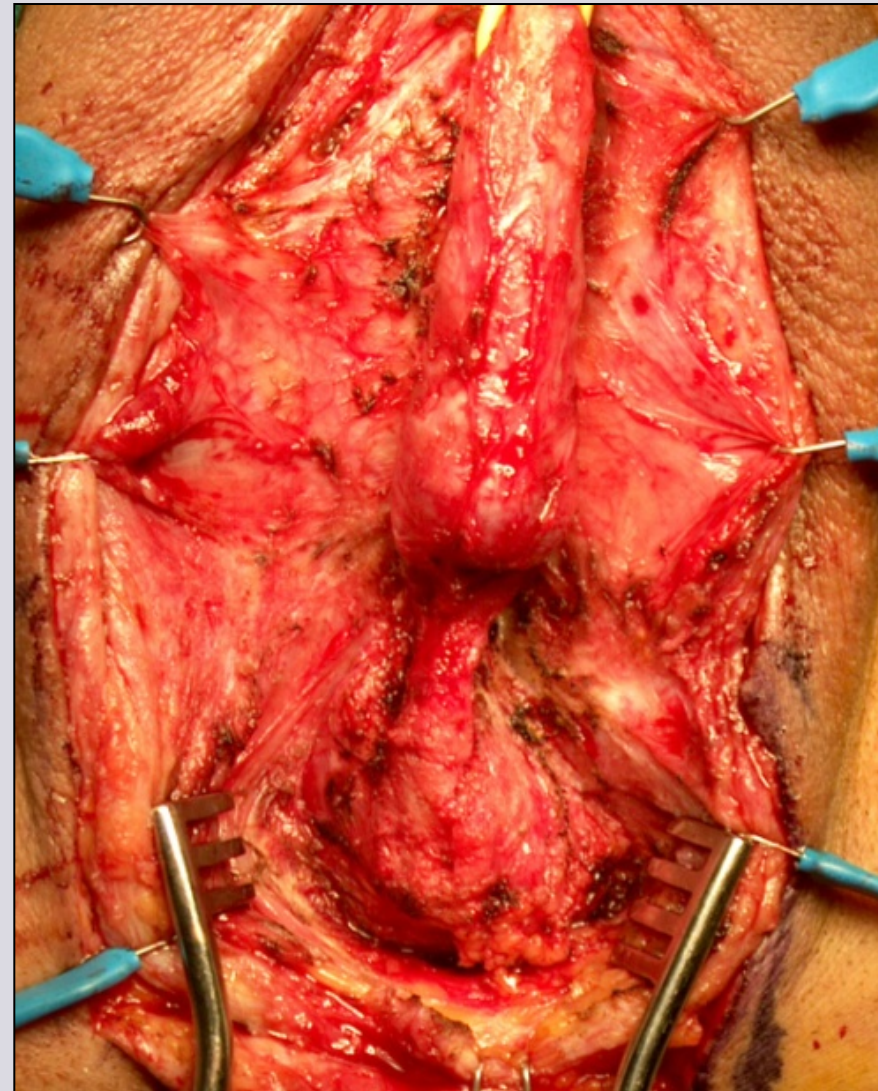
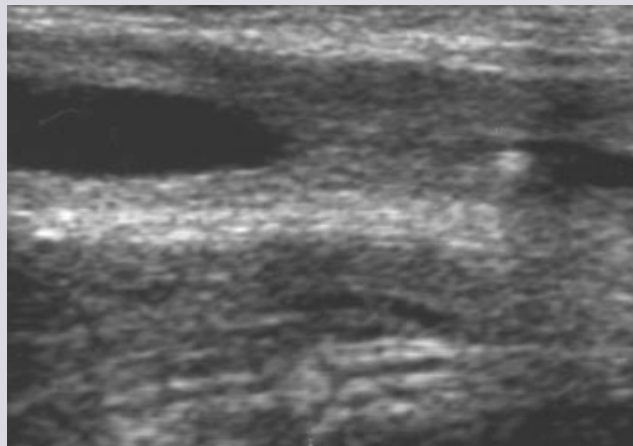
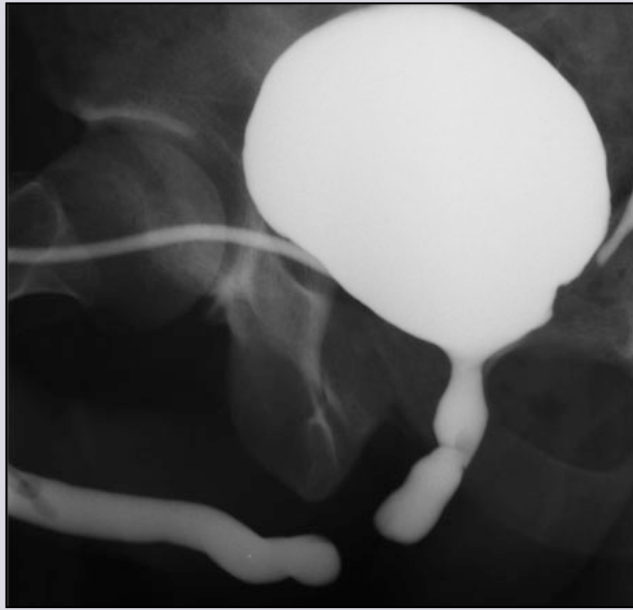


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## 2 - 4 cm traumatic bulbar urethral stricture





# Augmented anastomotic repair



**G.D. Webster**



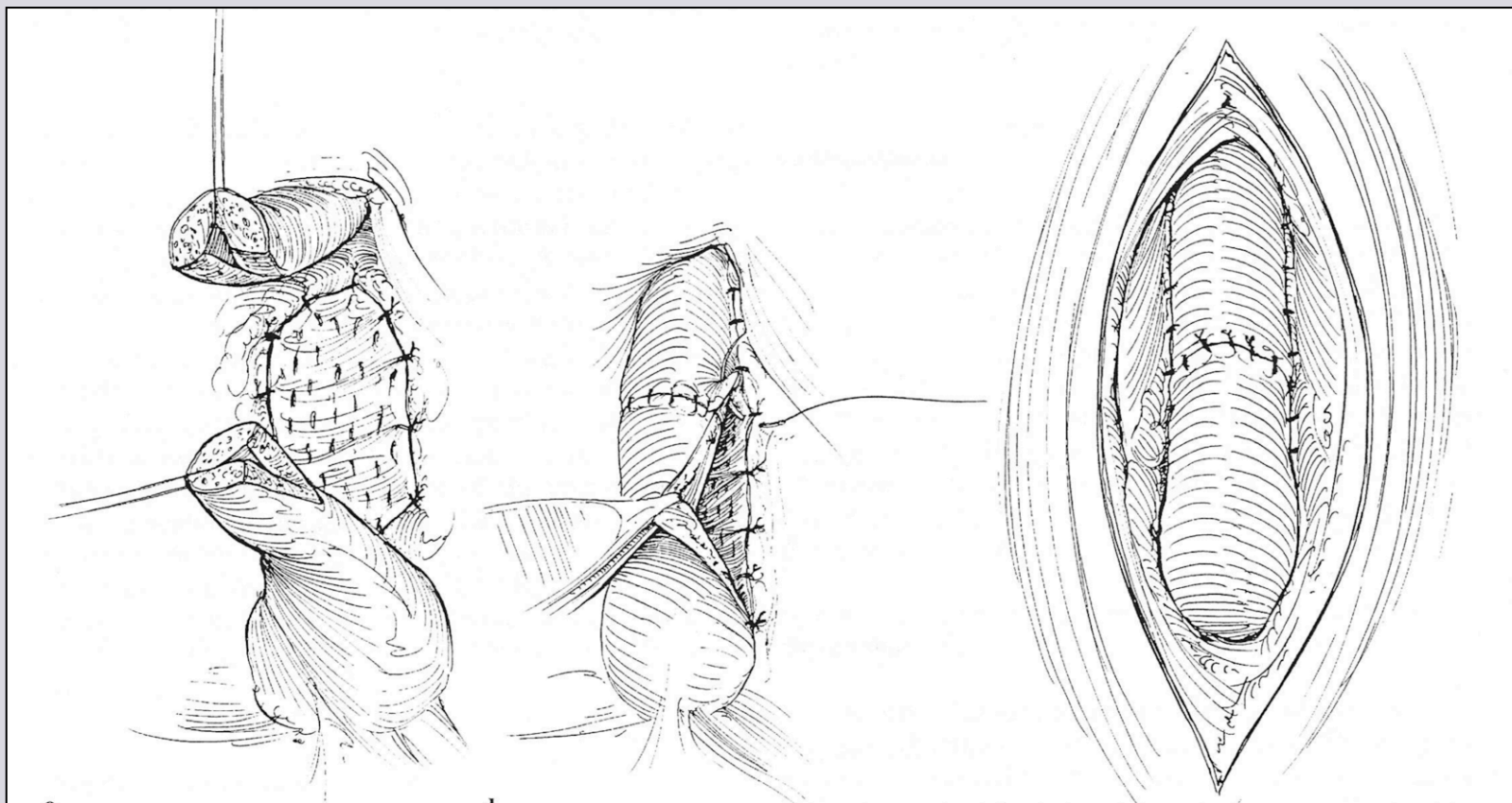
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Christophe E. Iselin · George D. Webster

## **Dorsal onlay urethroplasty for urethral stricture repair**



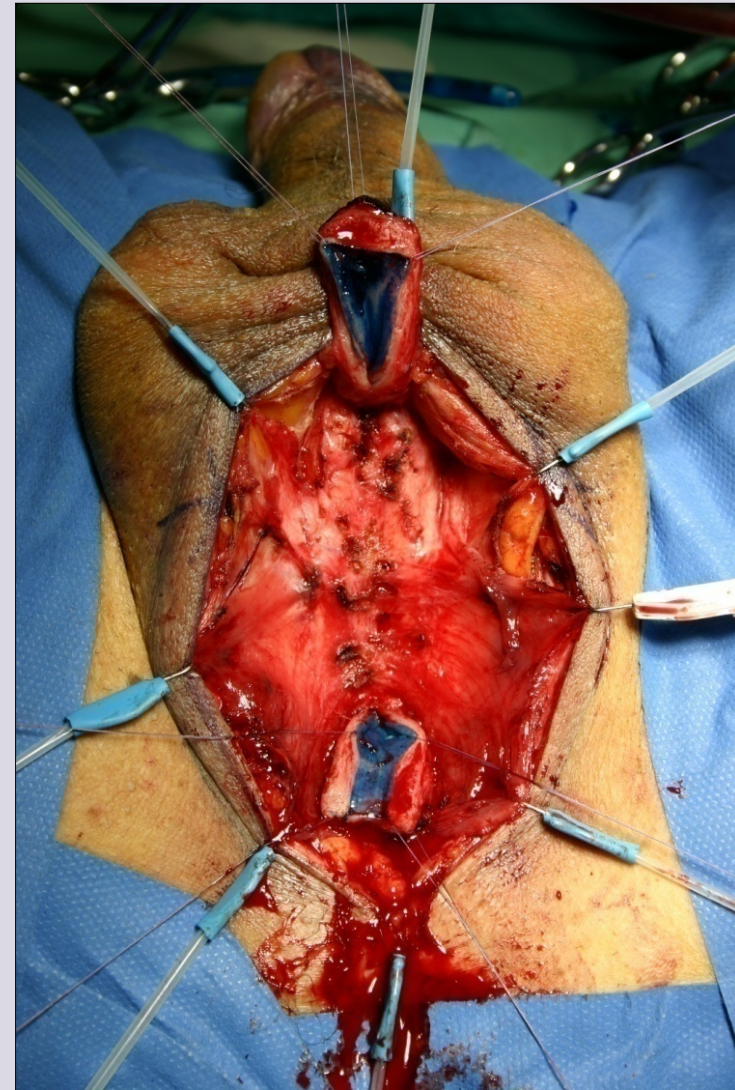
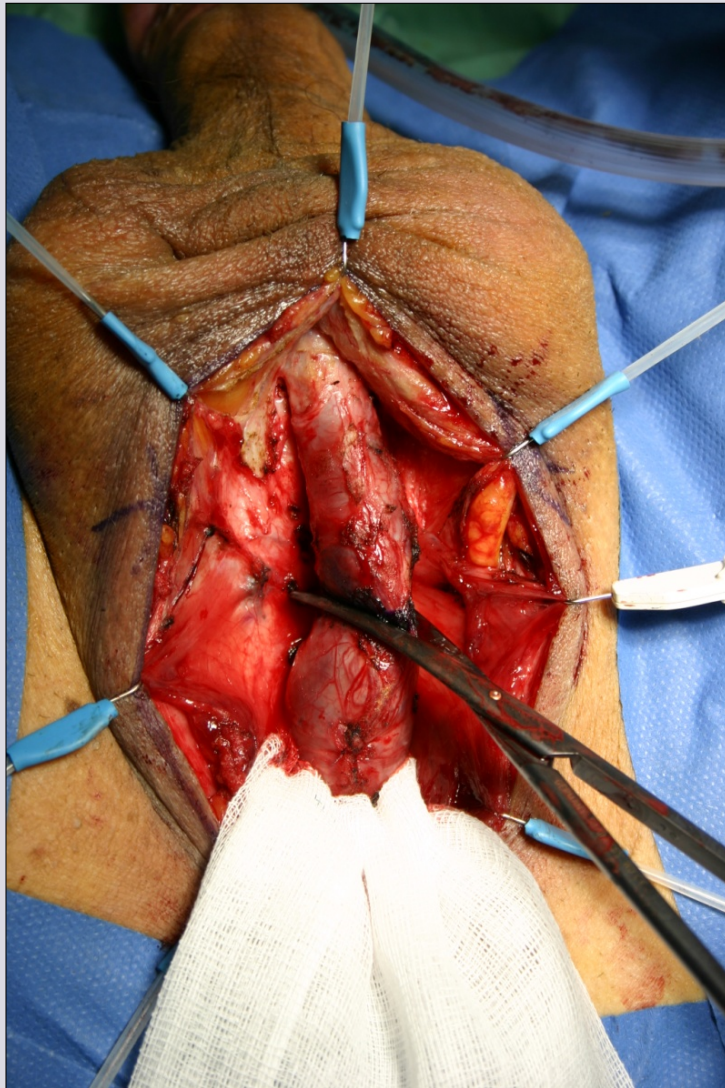
**Word J Urol 1998; 16: 181-185**

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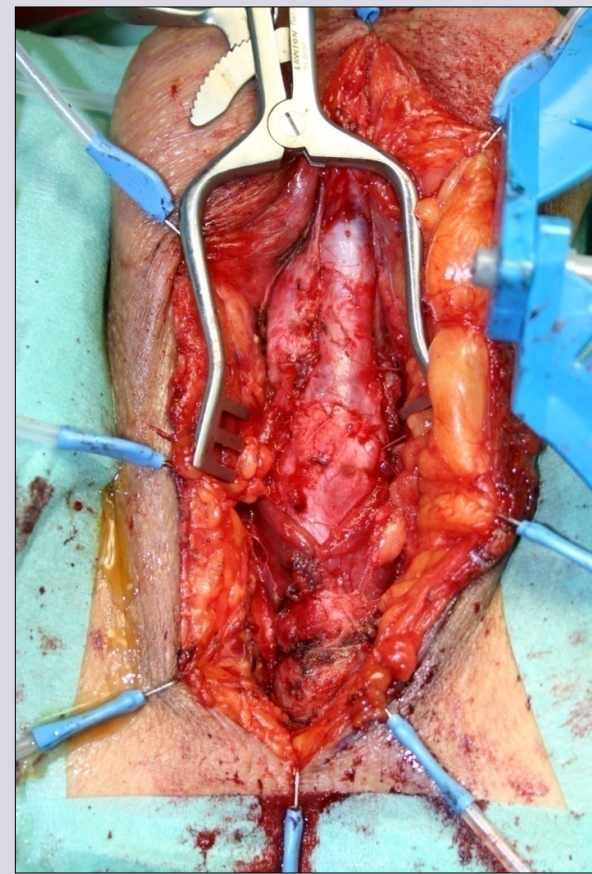
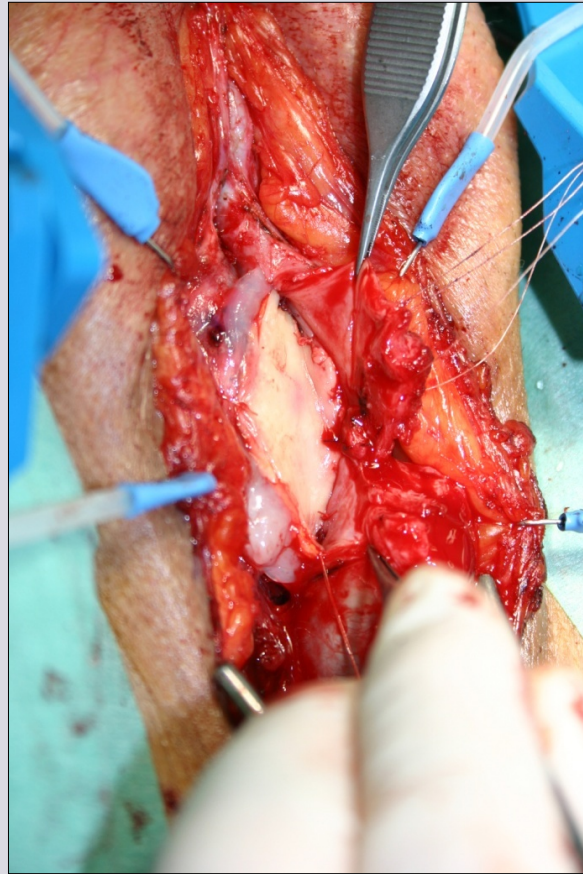
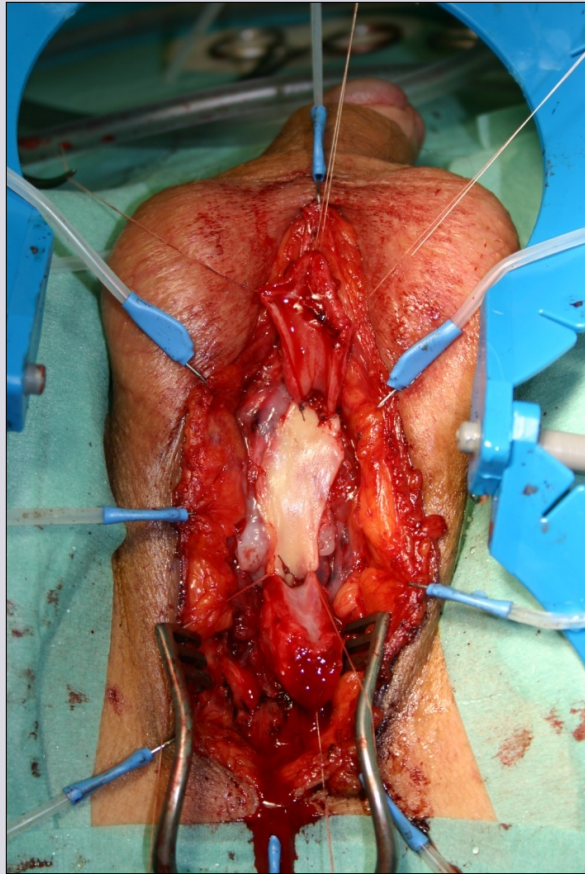


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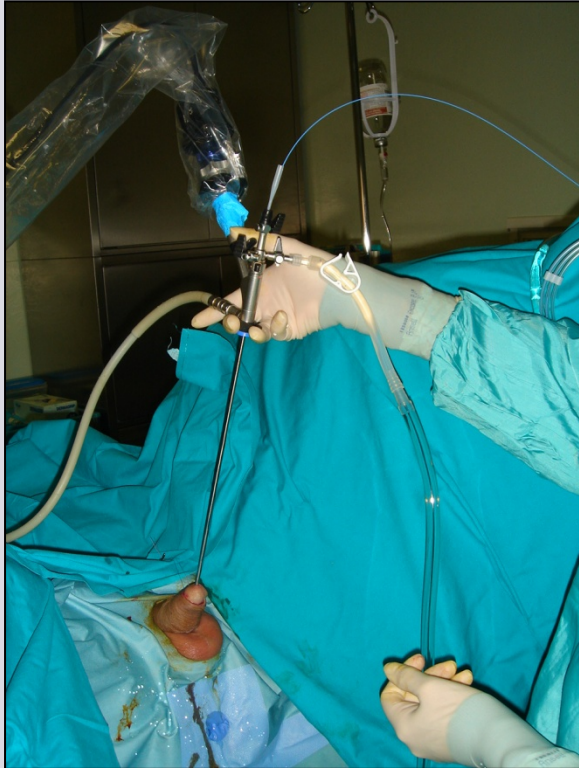
# Augmented anastomotic repair



# **Reconstruction of the bulbar urethra in non-traumatic stricture**



# Non-traumatic bulbar urethral stricture



**Pre-operative  
urethroscopy**



**Insert Sensor 3 Fr. guidewire**



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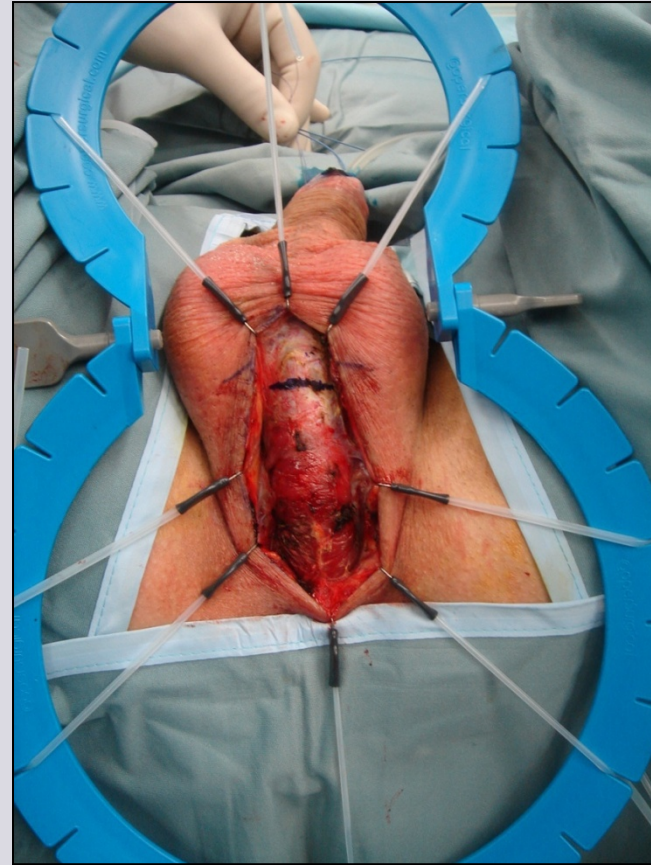
# Non-traumatic bulbar urethral stricture



**Inject methylene blue  
inside the urethra**

**(G. Webster)**

# Non-traumatic bulbar urethral stricture



**Calibrate the distal urethra and identify the distal stop**



# Non-traumatic bulbar urethral stricture

## Ventral or dorsal graft?



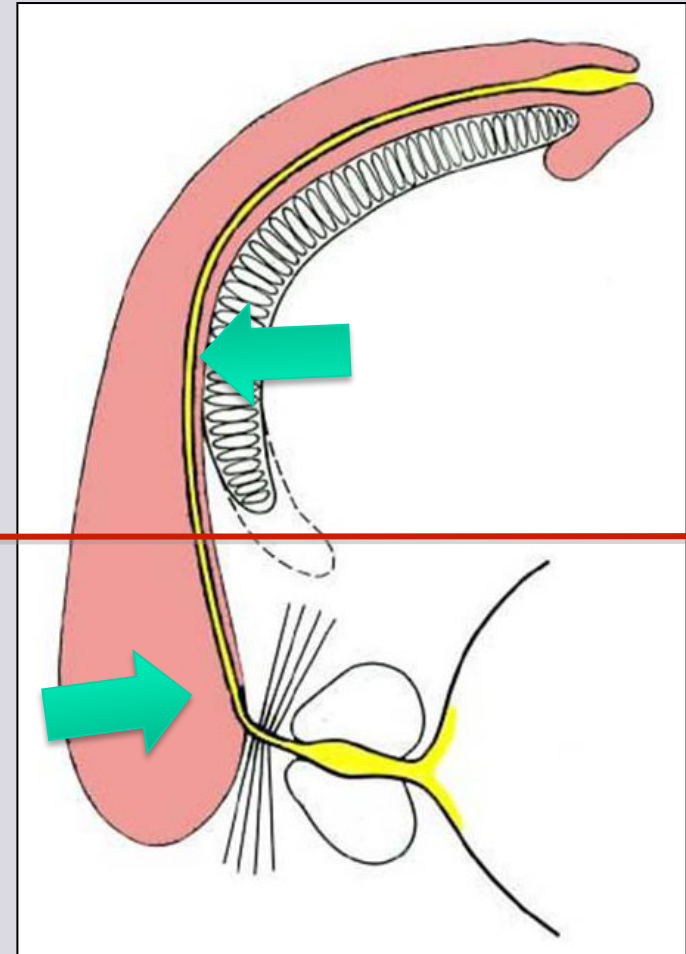
**Distal**

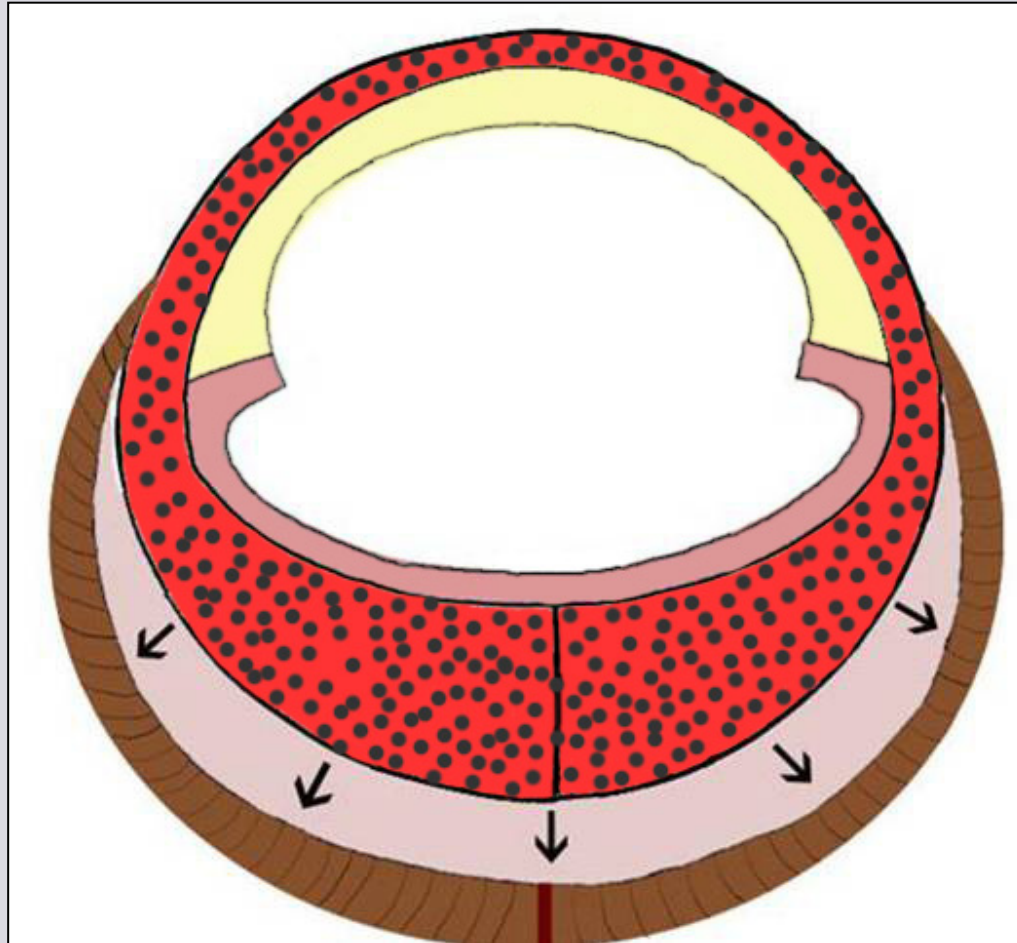
**Dorsal onlay**



**Proximal**

**Ventral onlay**

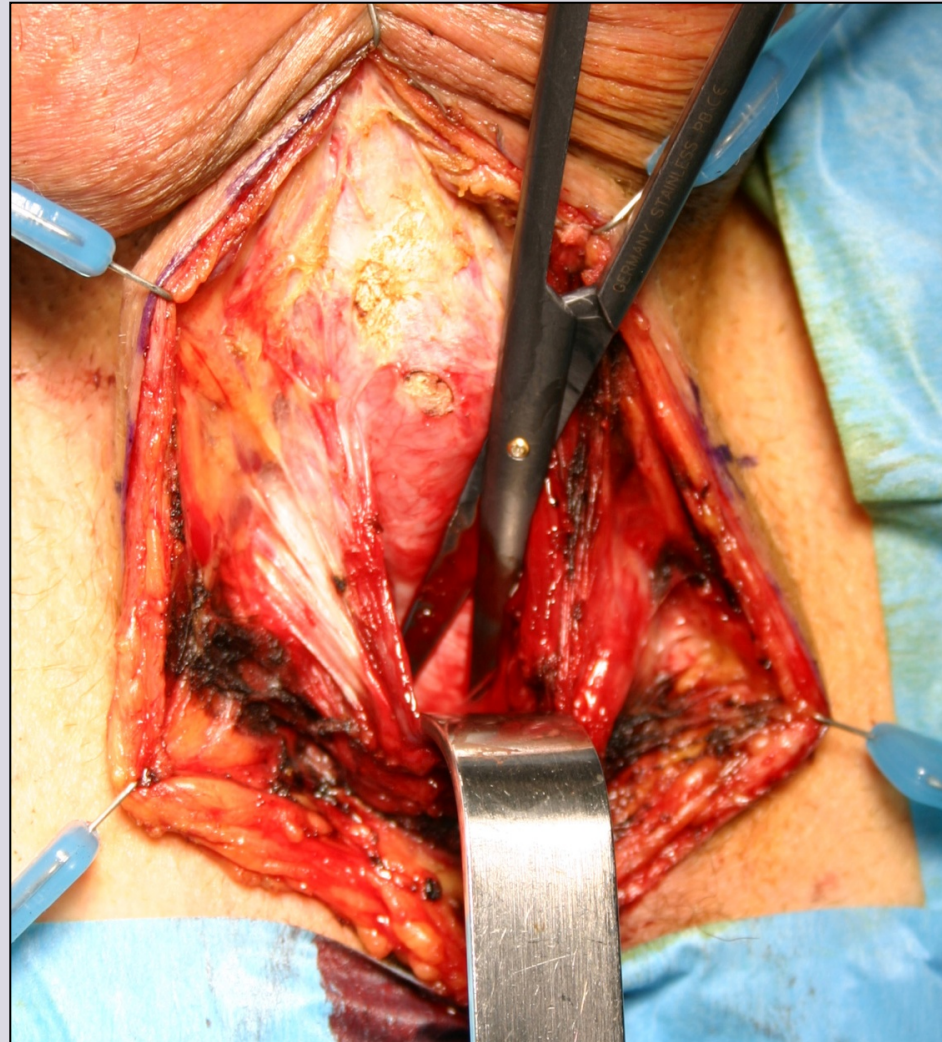
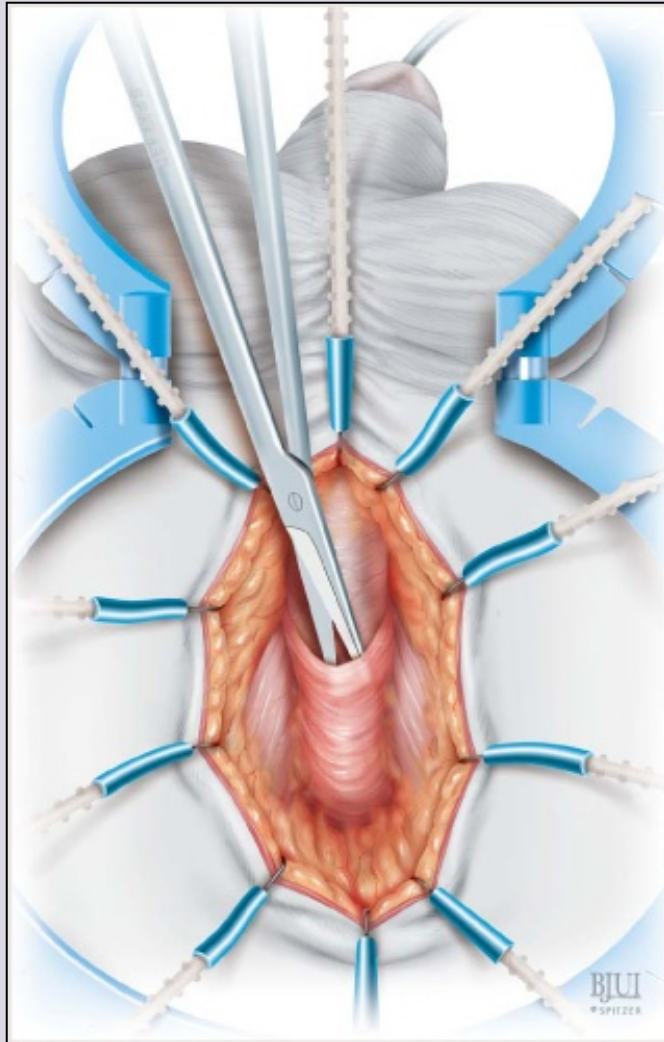




## Muscle and nerve-sparing **ventral** onlay graft bulbar urethroplasty



# Muscle and nerve-sparing **ventral** onlay graft bulbar urethroplasty

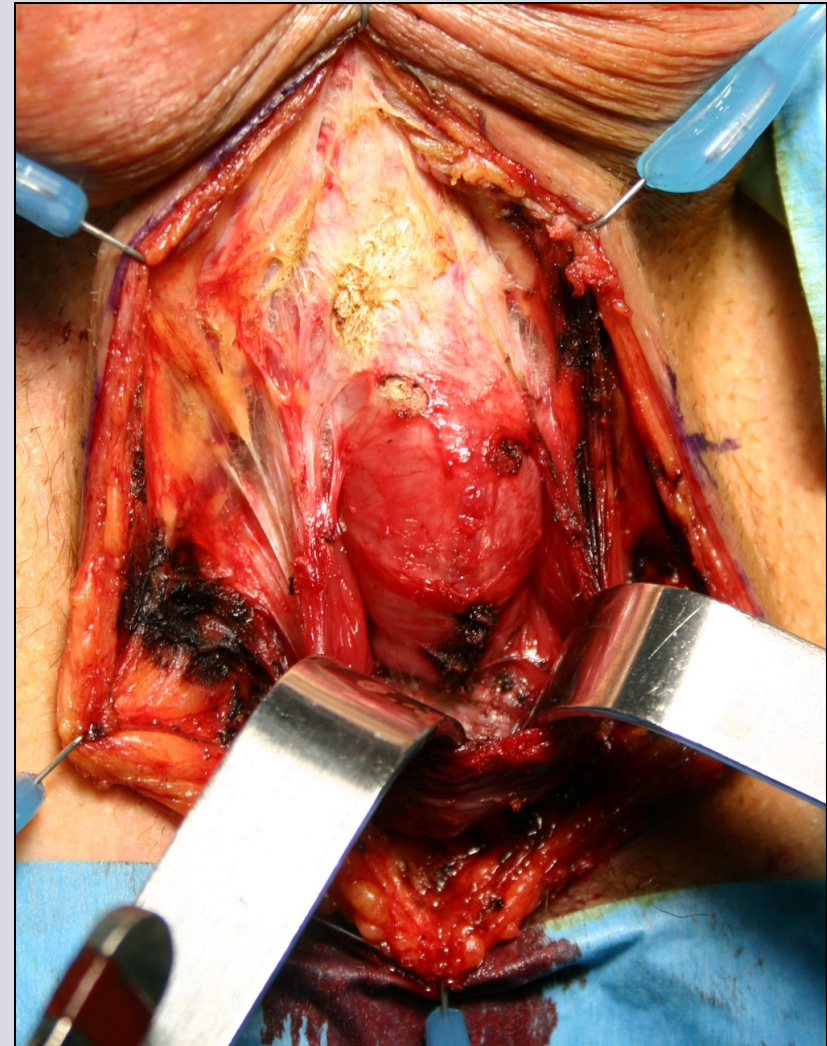
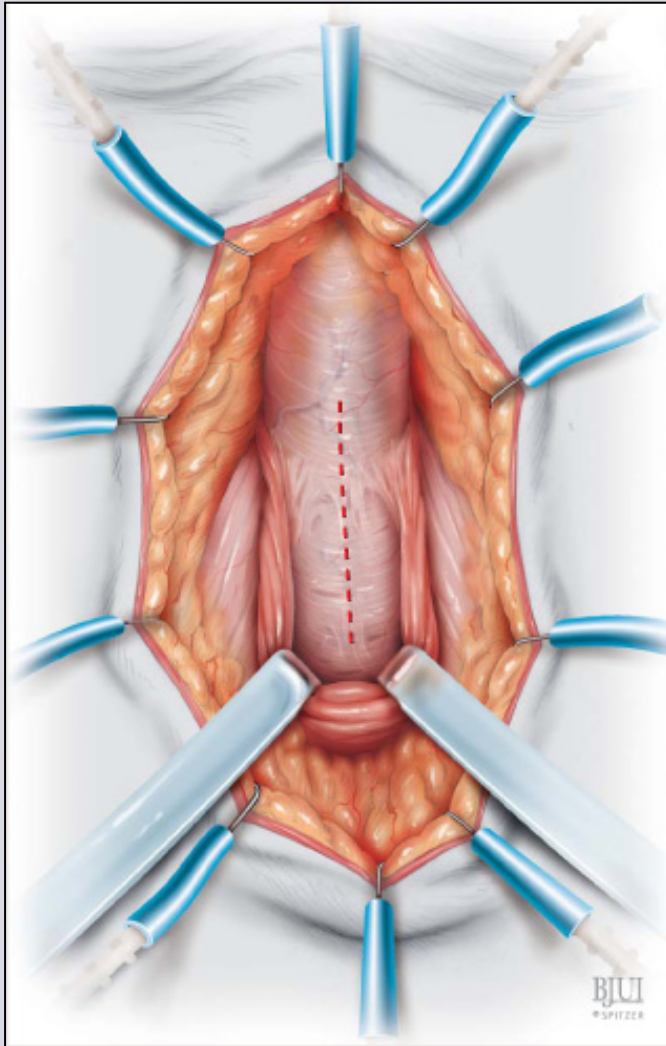


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# Muscle and nerve-sparing **ventral** onlay graft bulbar urethroplasty

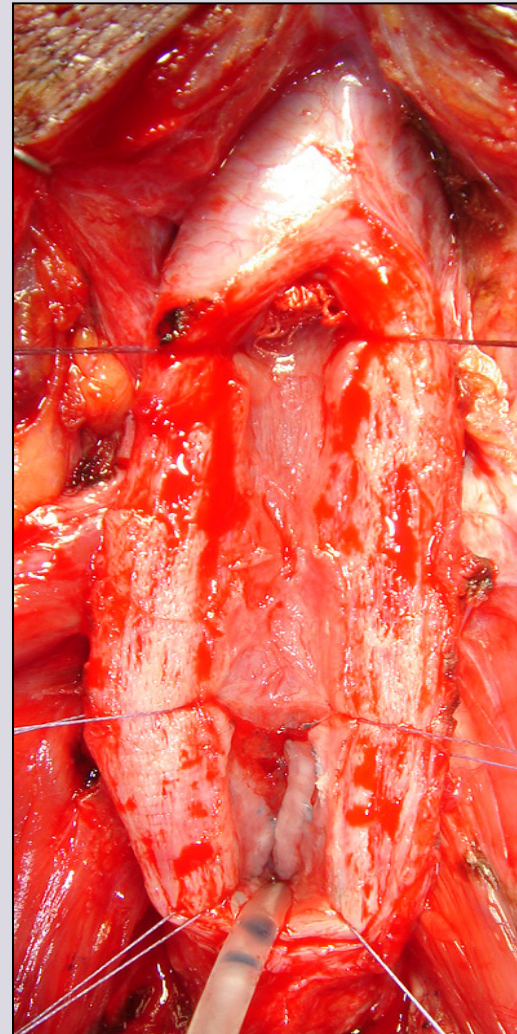
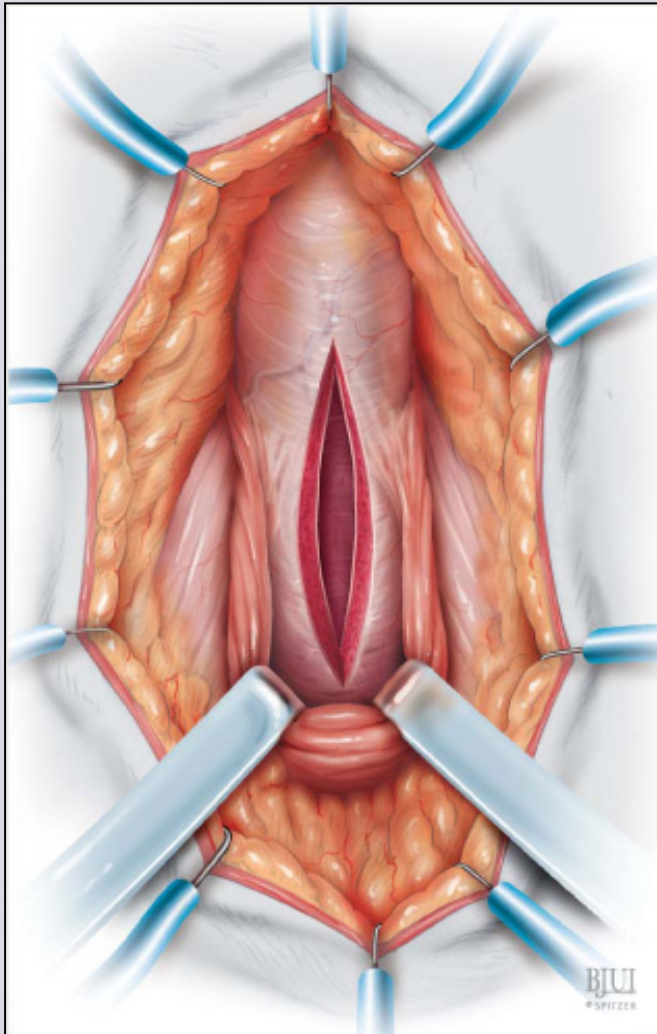


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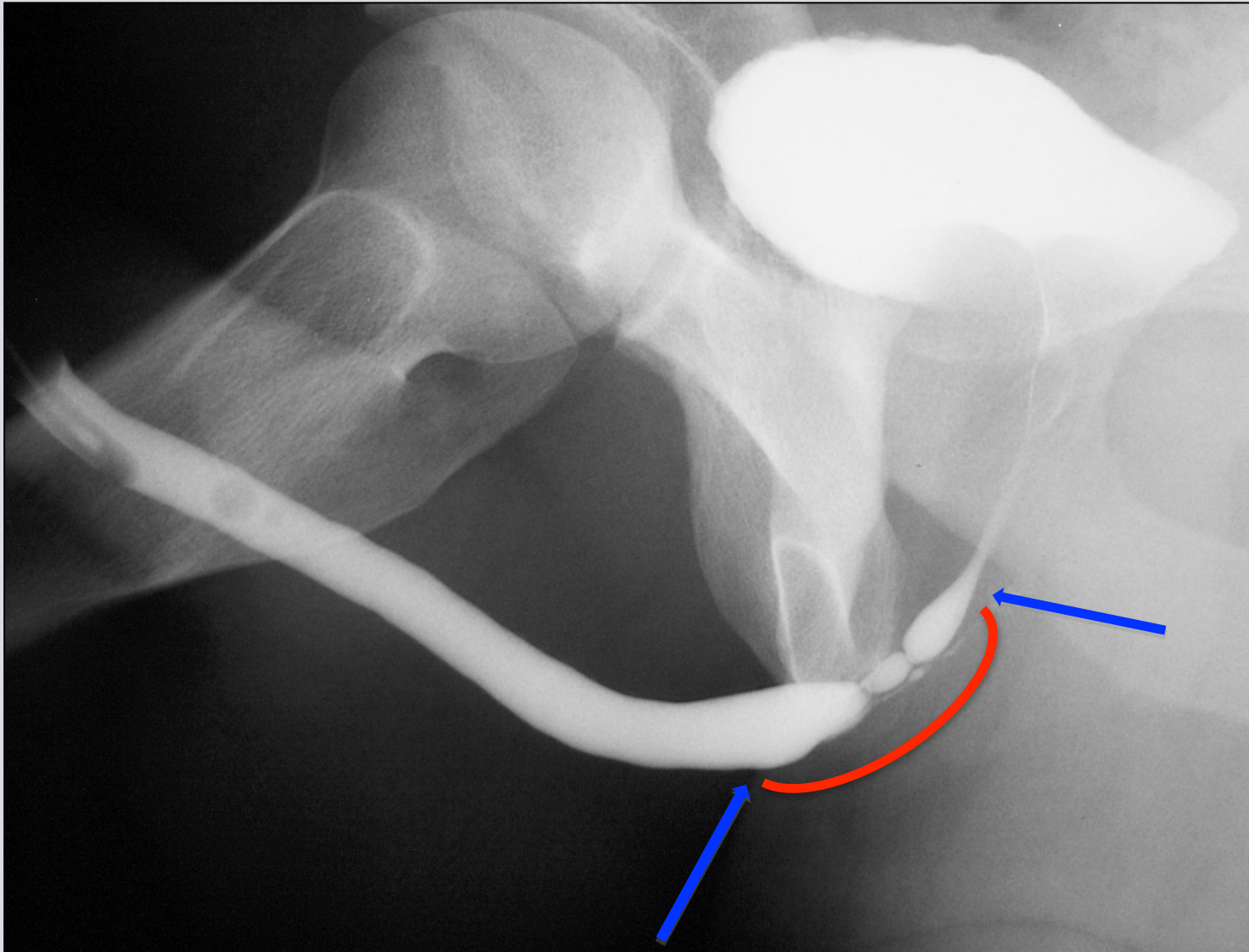


# Muscle and nerve-sparing **ventral** onlay graft bulbar urethroplasty



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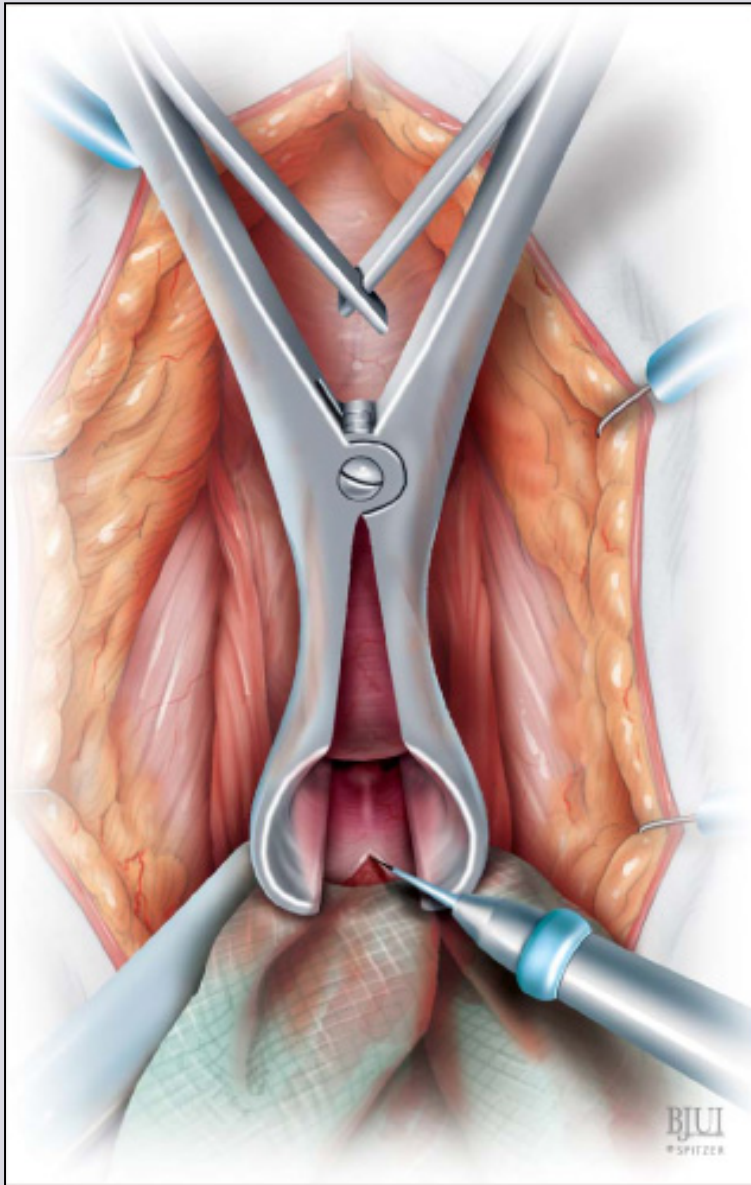
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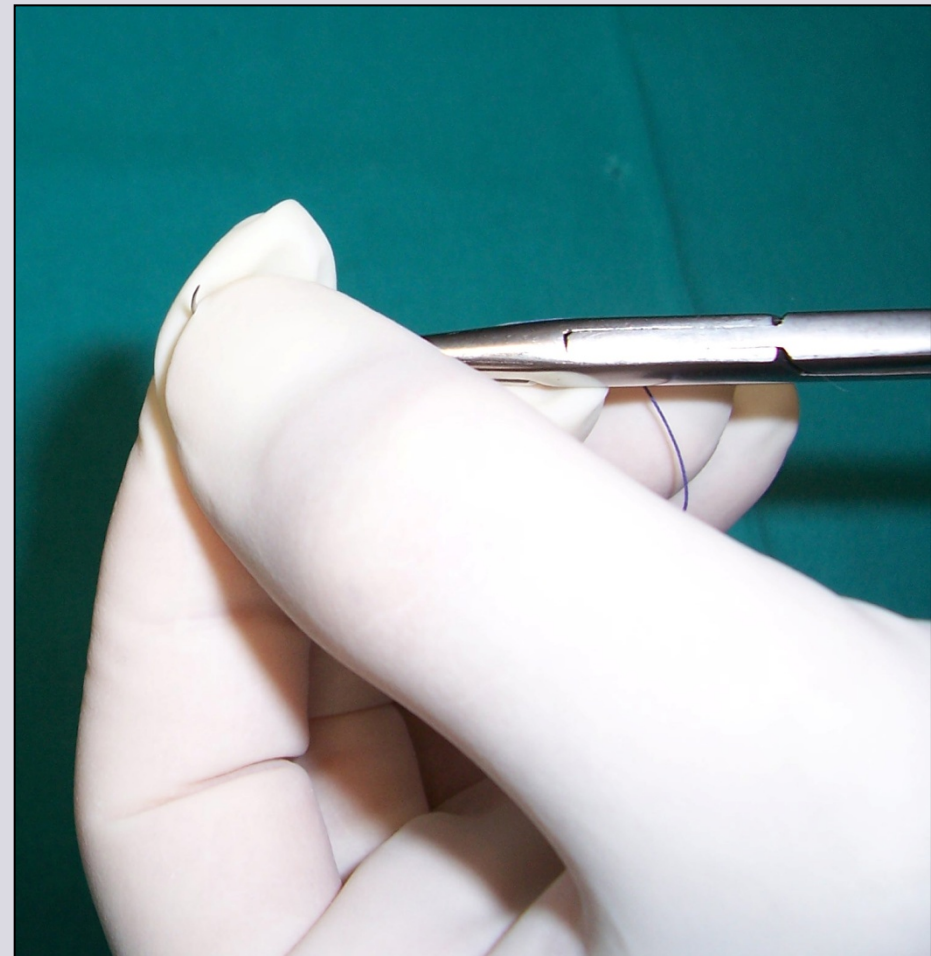
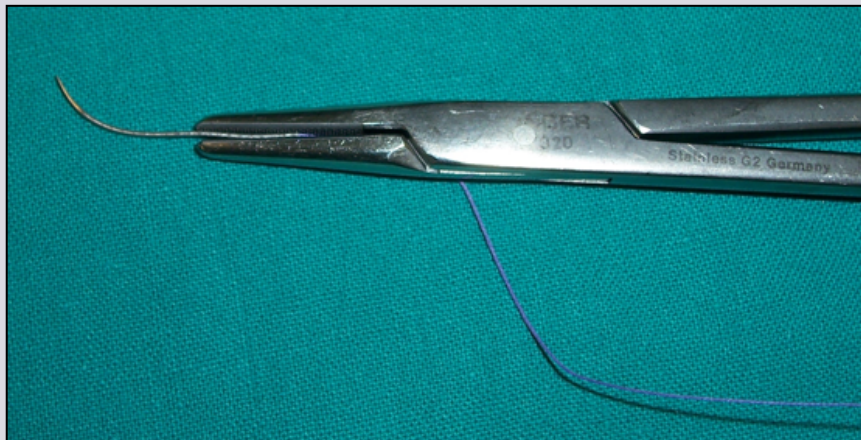


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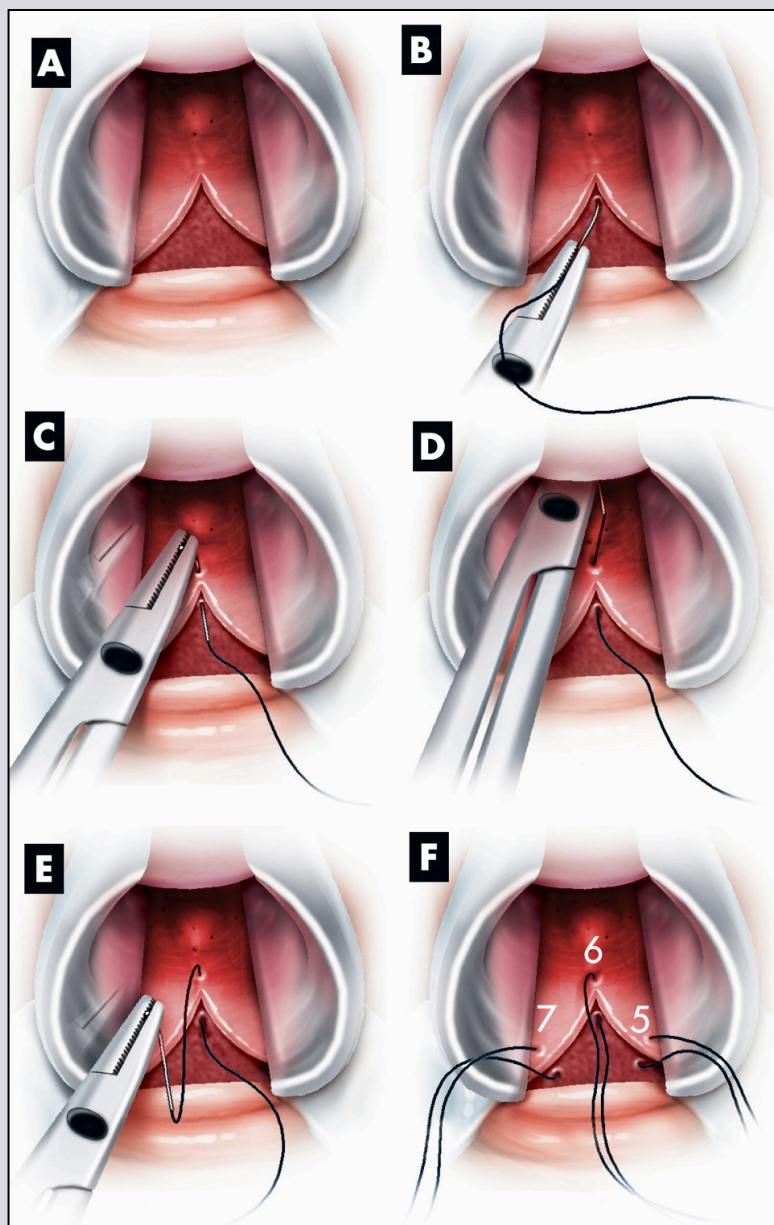
# Webster's technique



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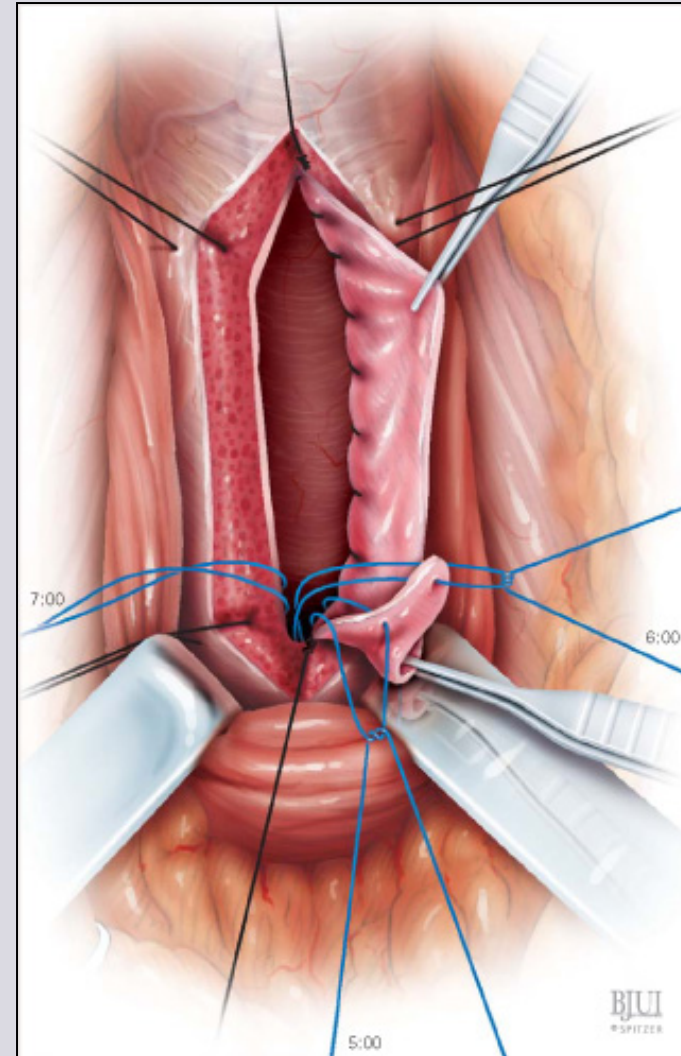
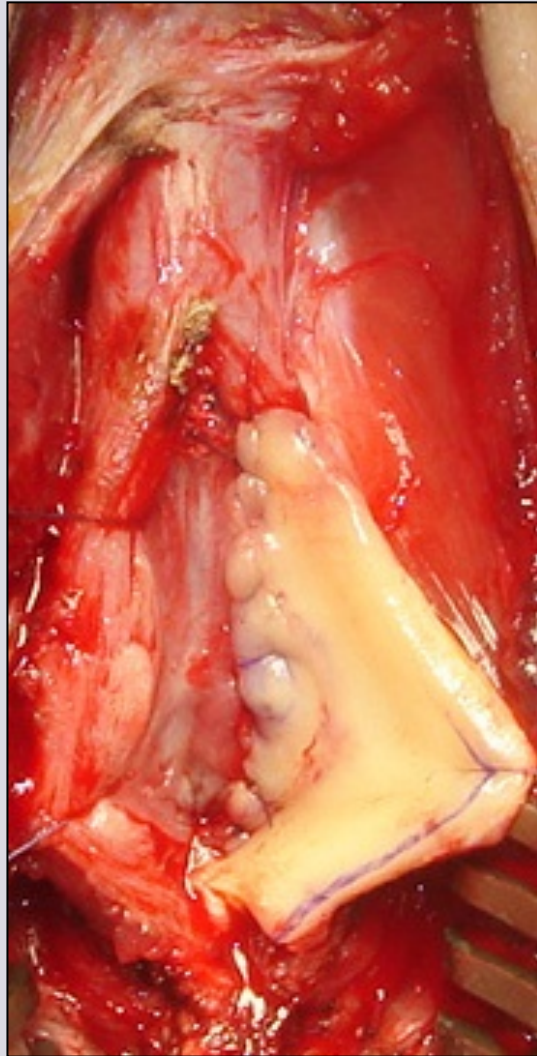




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# Muscle and nerve-sparing **ventral** onlay graft bulbar urethroplasty

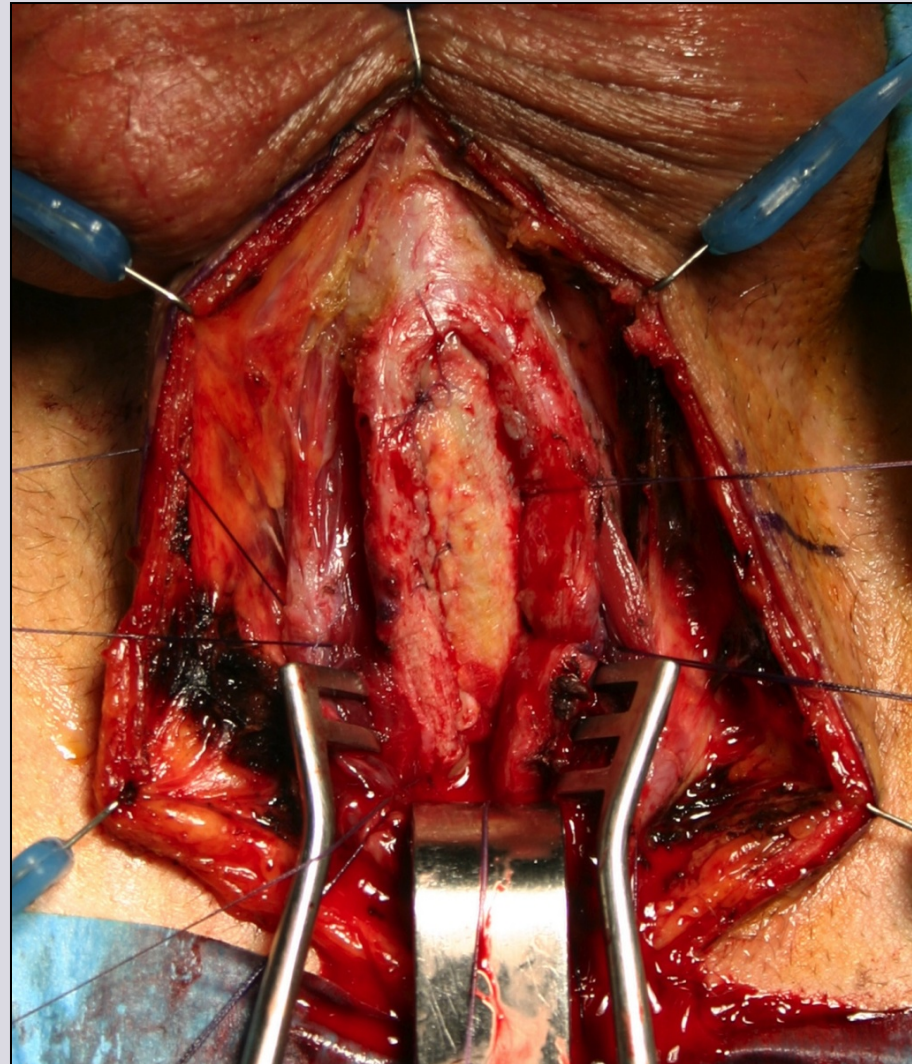
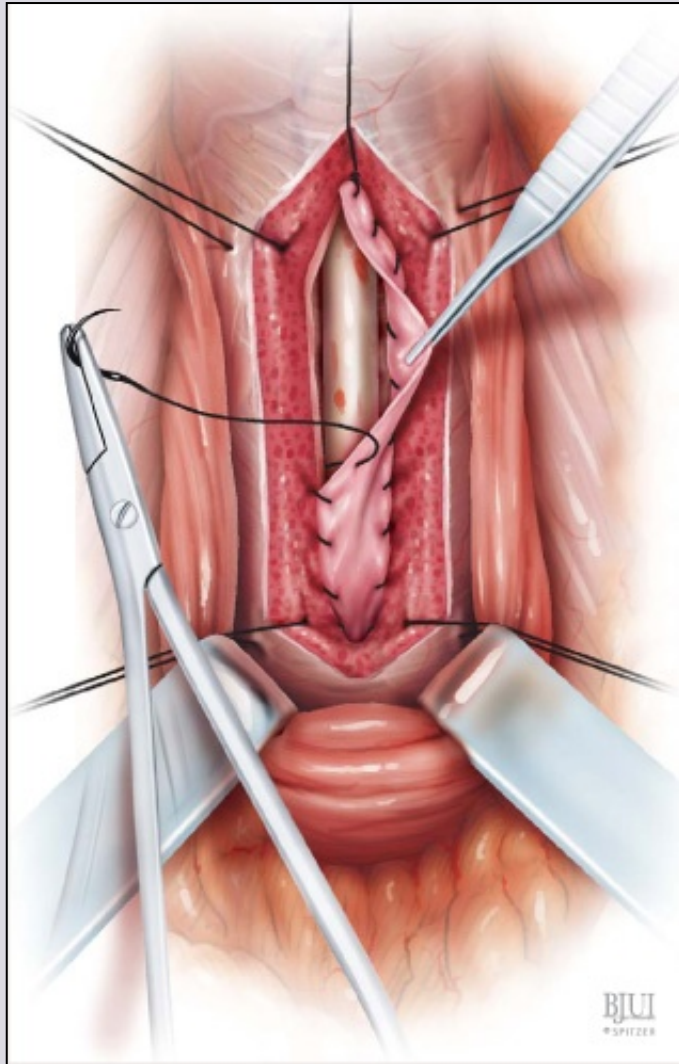


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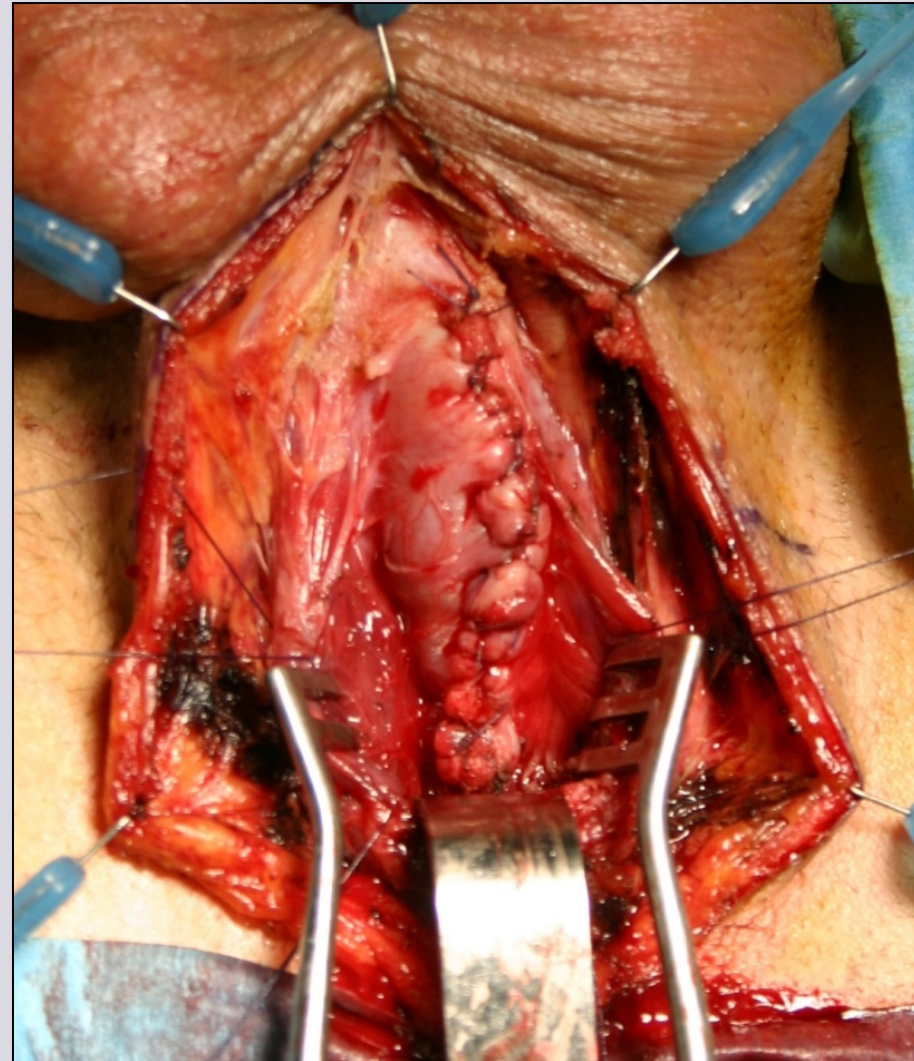
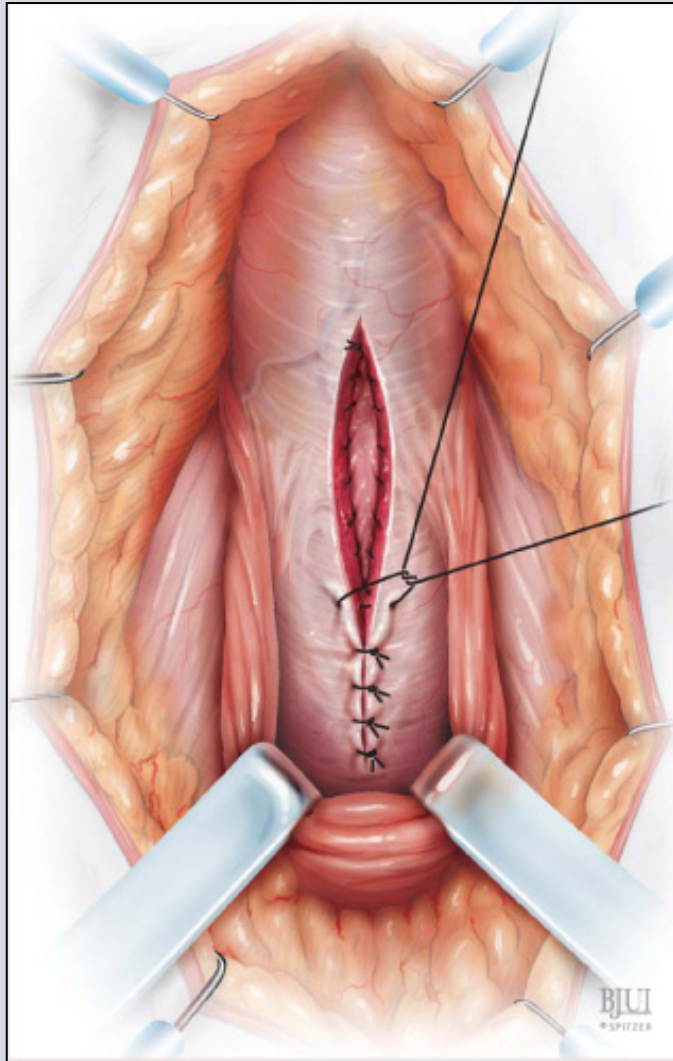


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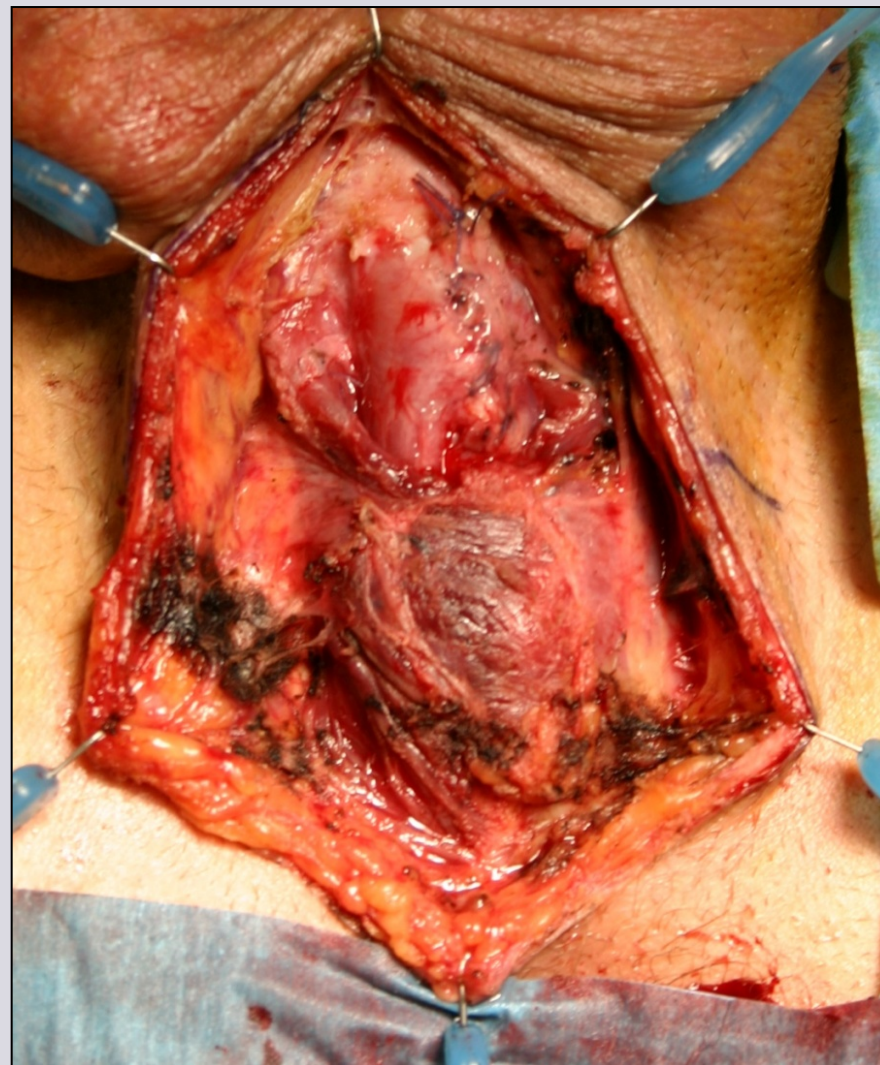
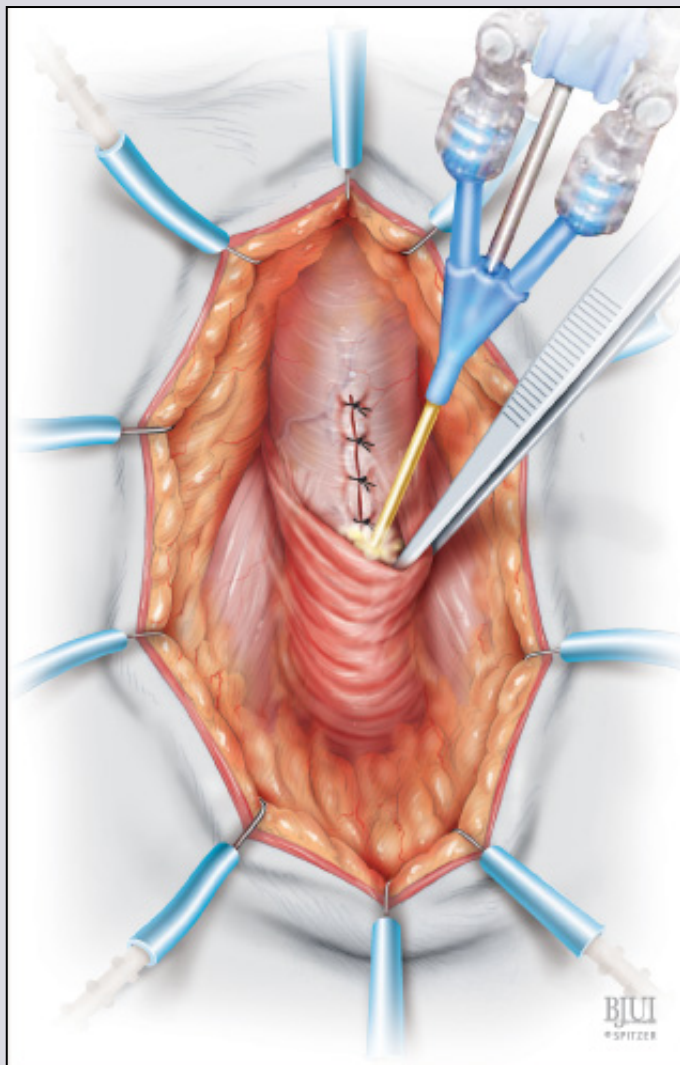


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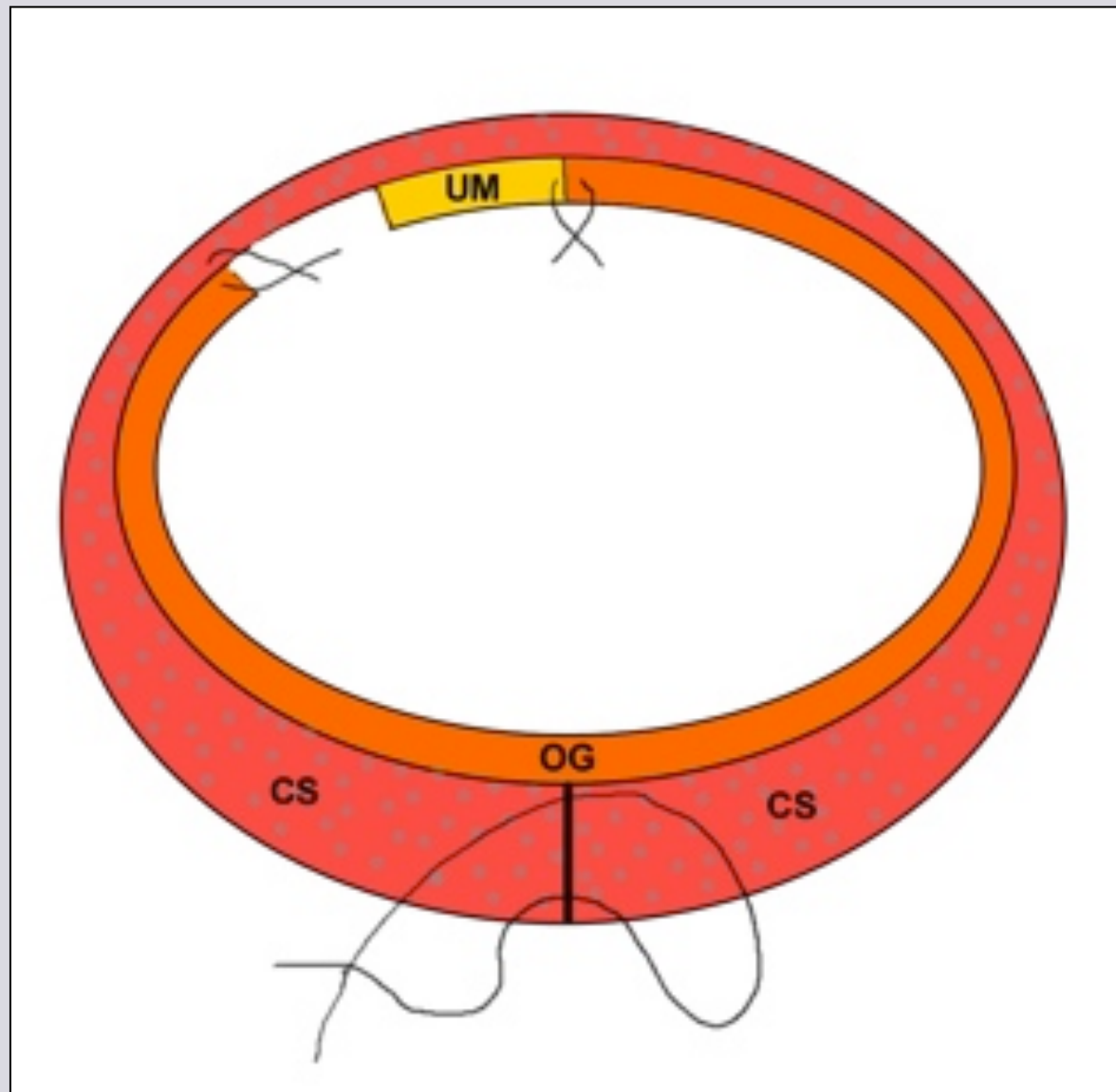
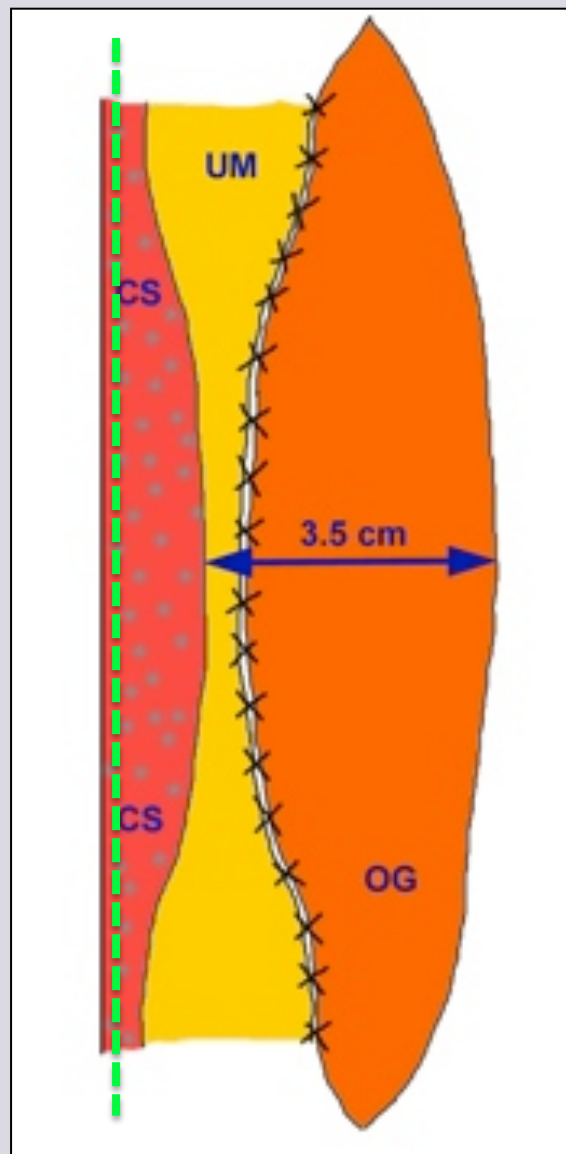


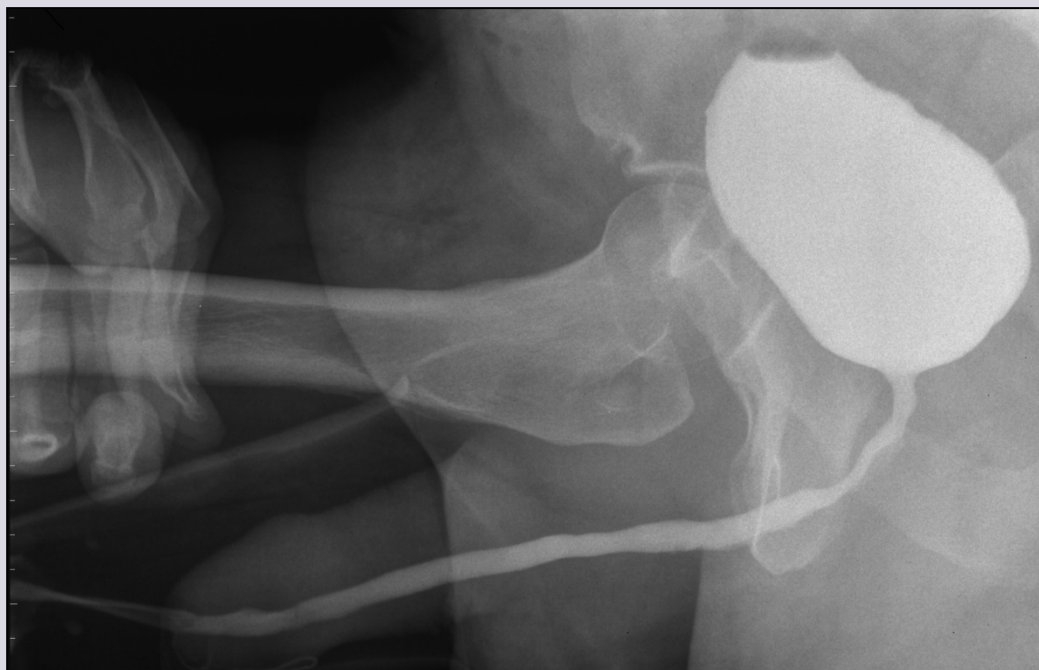
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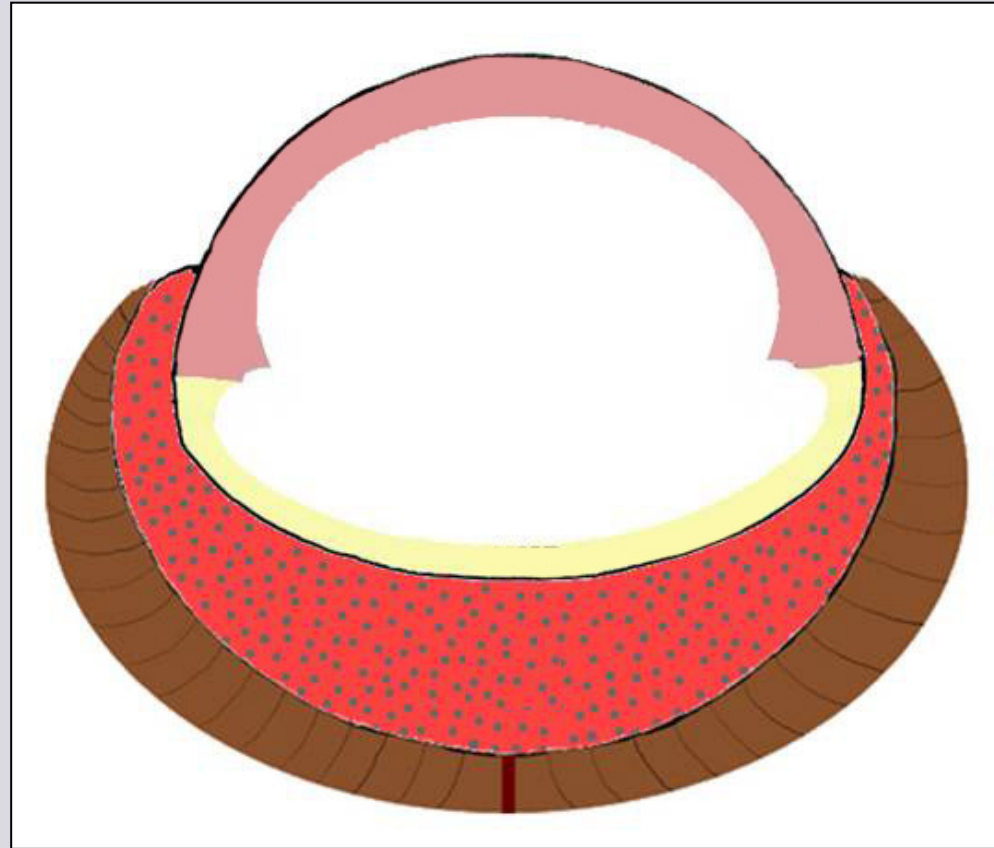




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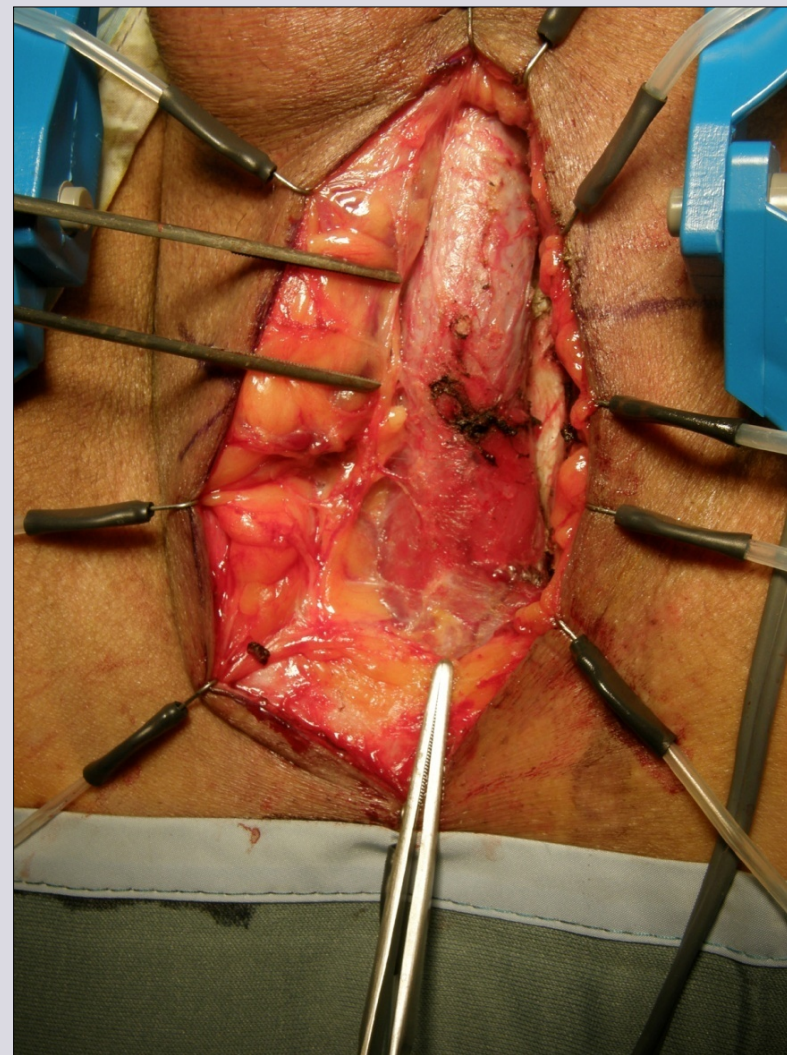
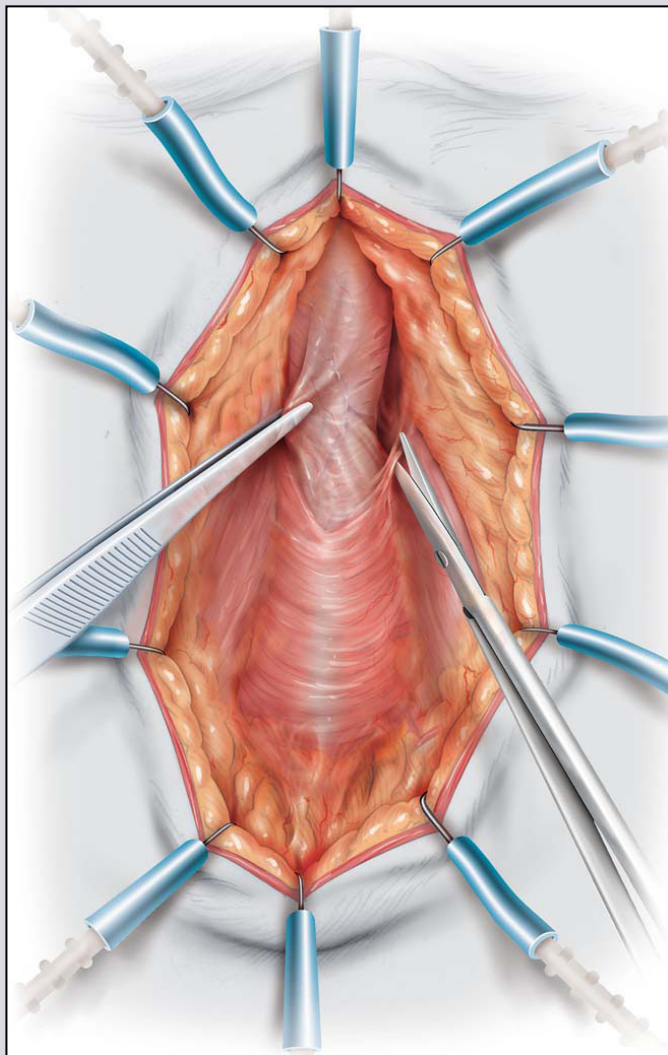
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## **Muscle and nerve-sparing dorsal onlay graft bulbar urethroplasty**

# Muscle and nerve-sparing **dorsal** onlay graft bulbar urethroplasty

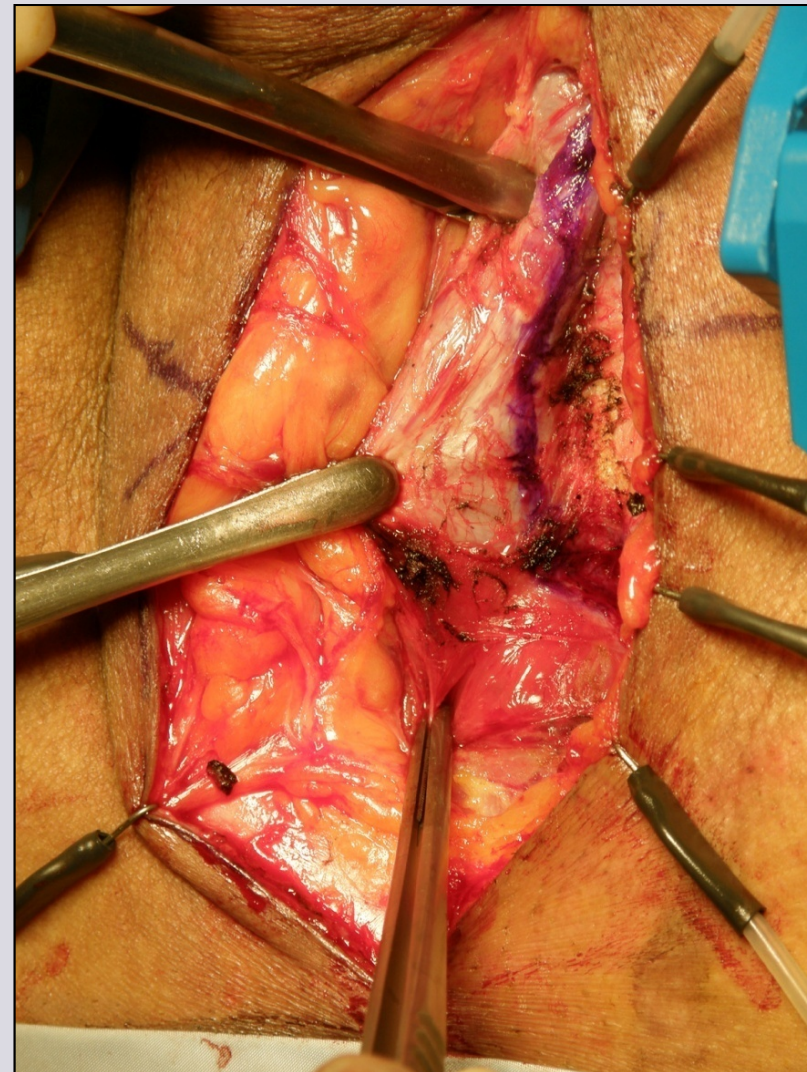
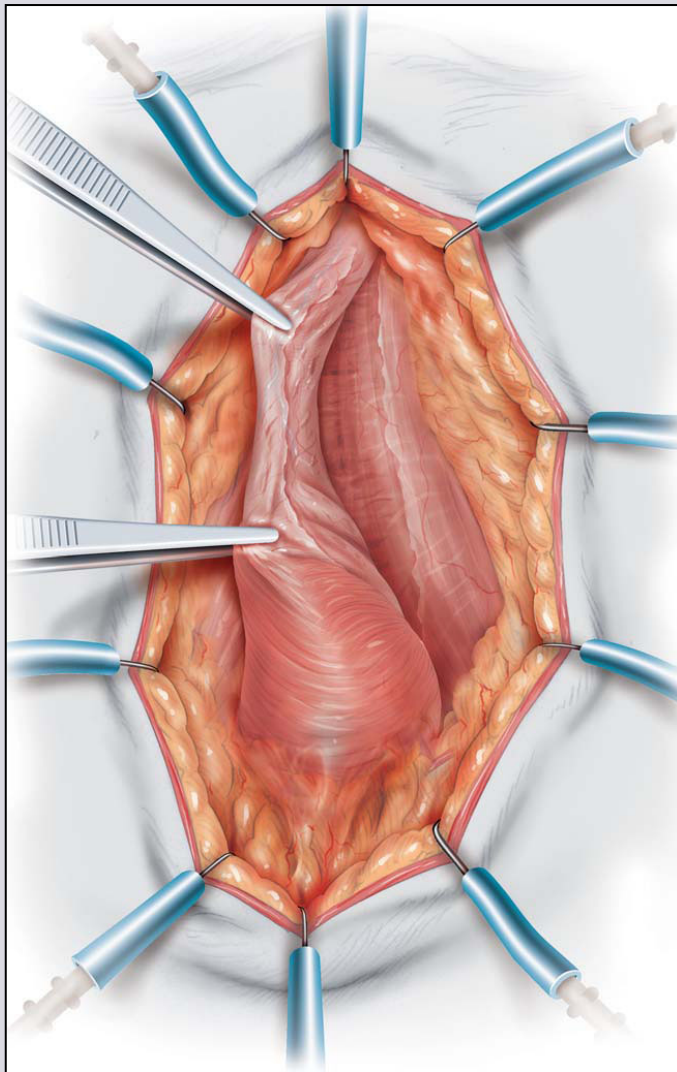


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# Muscle and nerve-sparing **dorsal** onlay graft bulbar urethroplasty

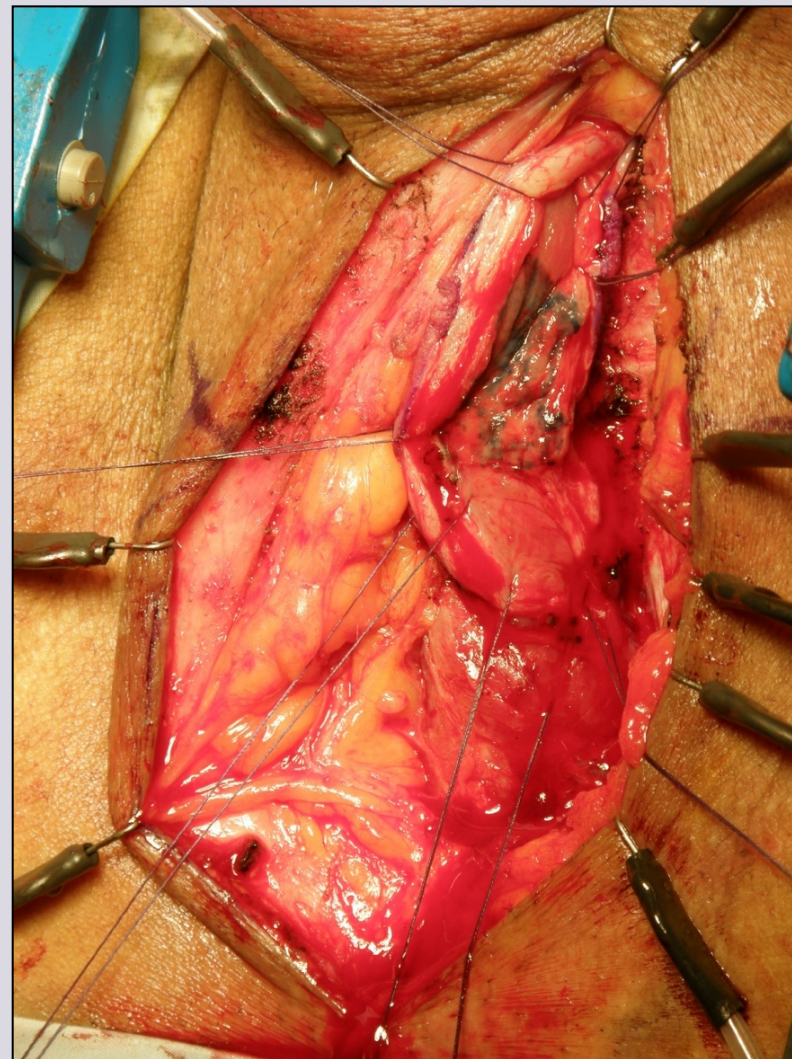
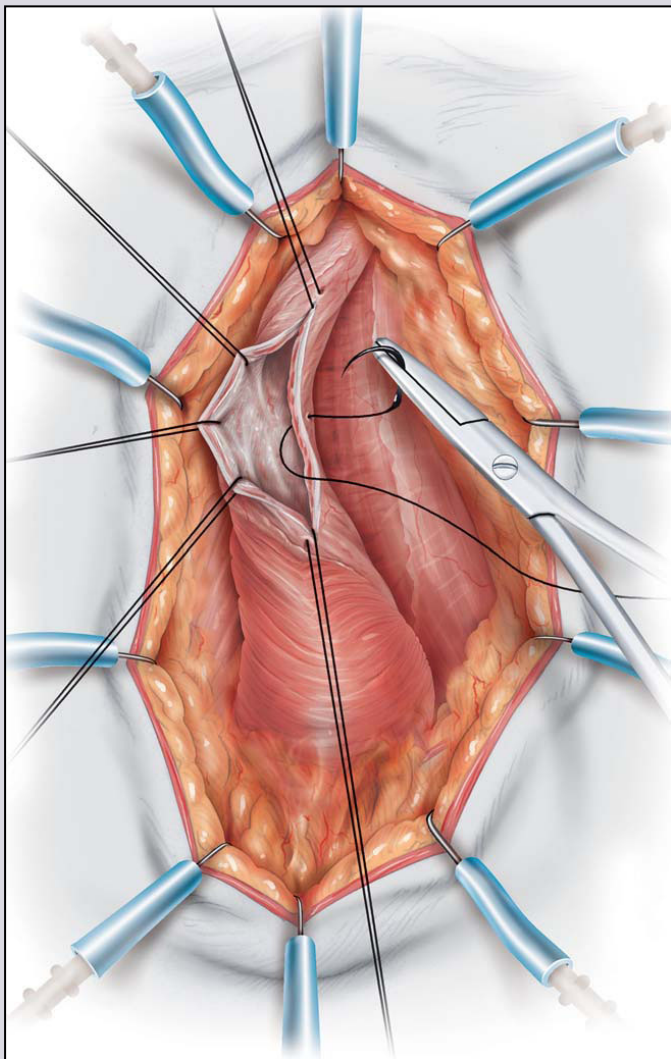


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# Muscle and nerve-sparing **dorsal** onlay graft bulbar urethroplasty

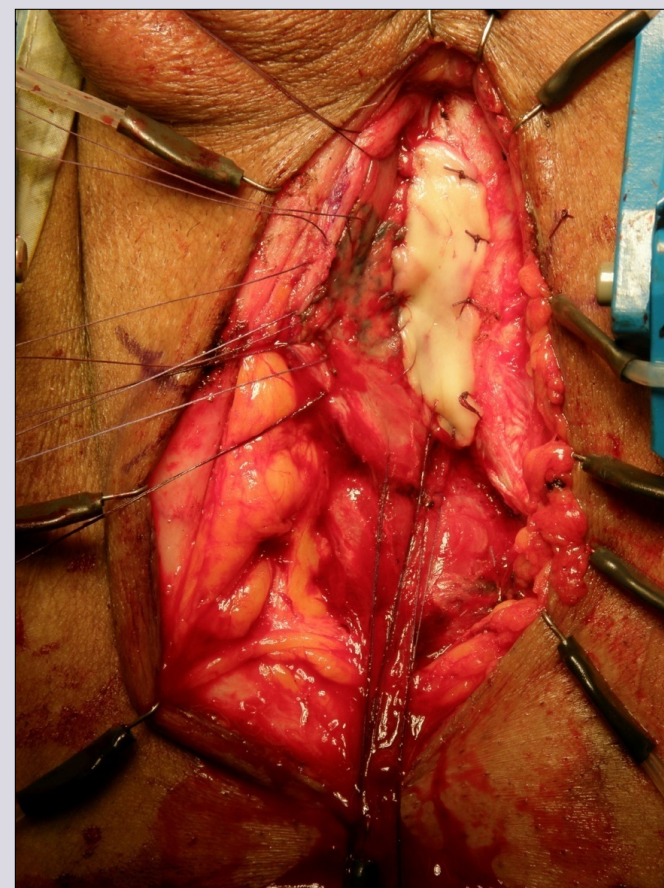
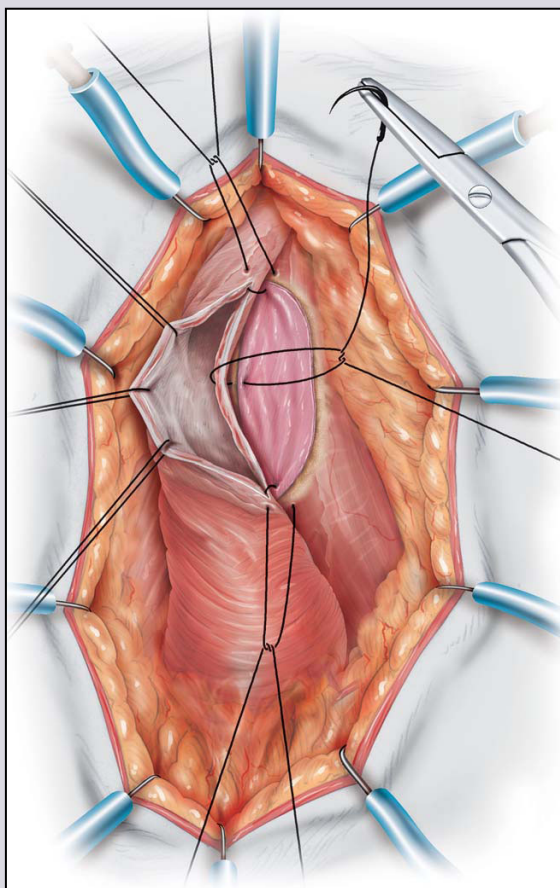
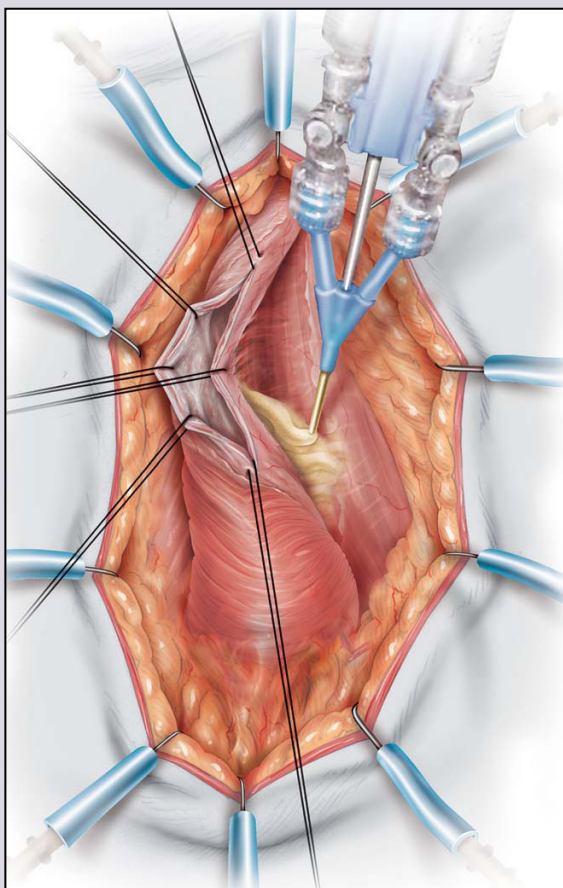


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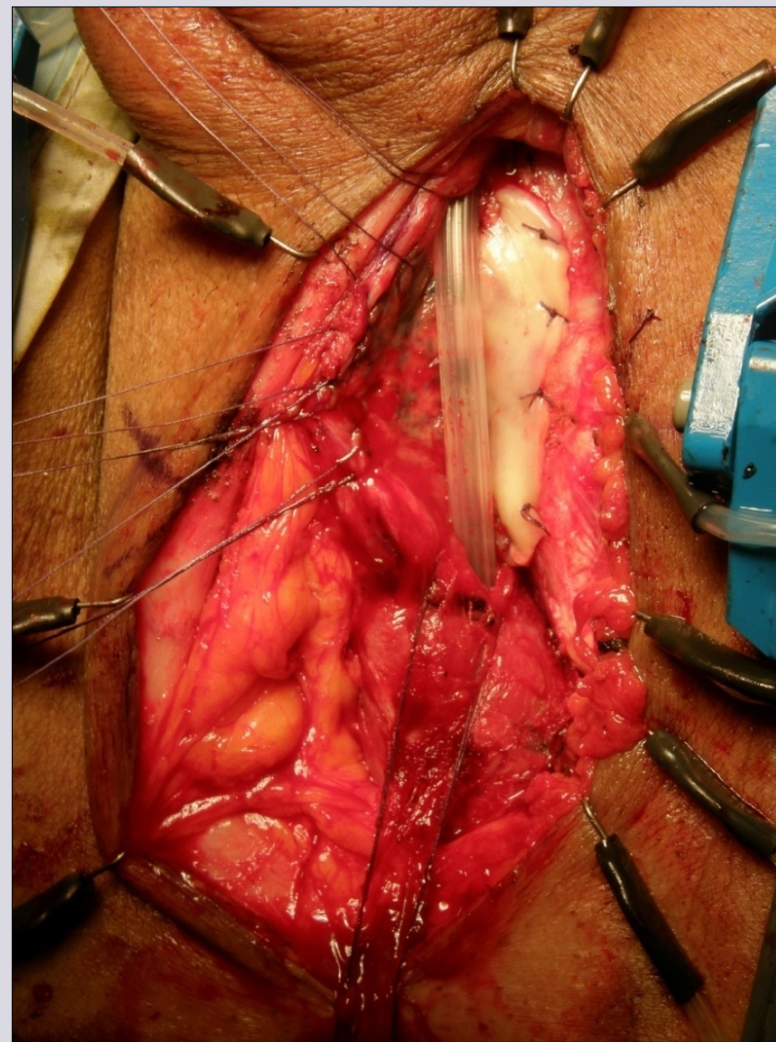
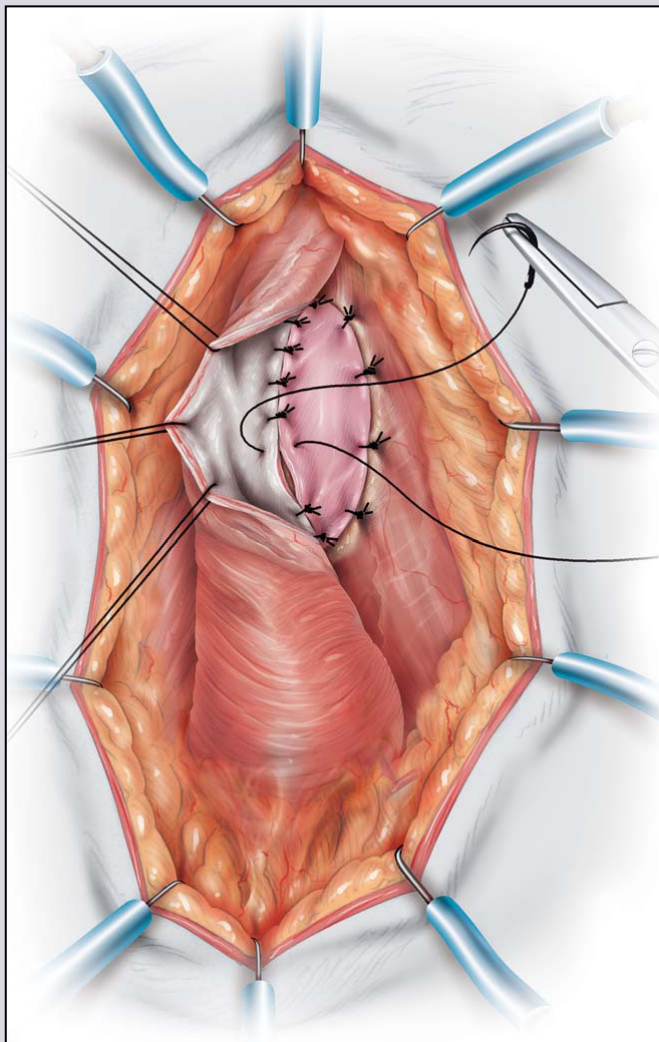


# Muscle and nerve-sparing **dorsal** onlay graft bulbar urethroplasty





# Muscle and nerve-sparing **dorsal** onlay graft bulbar urethroplasty

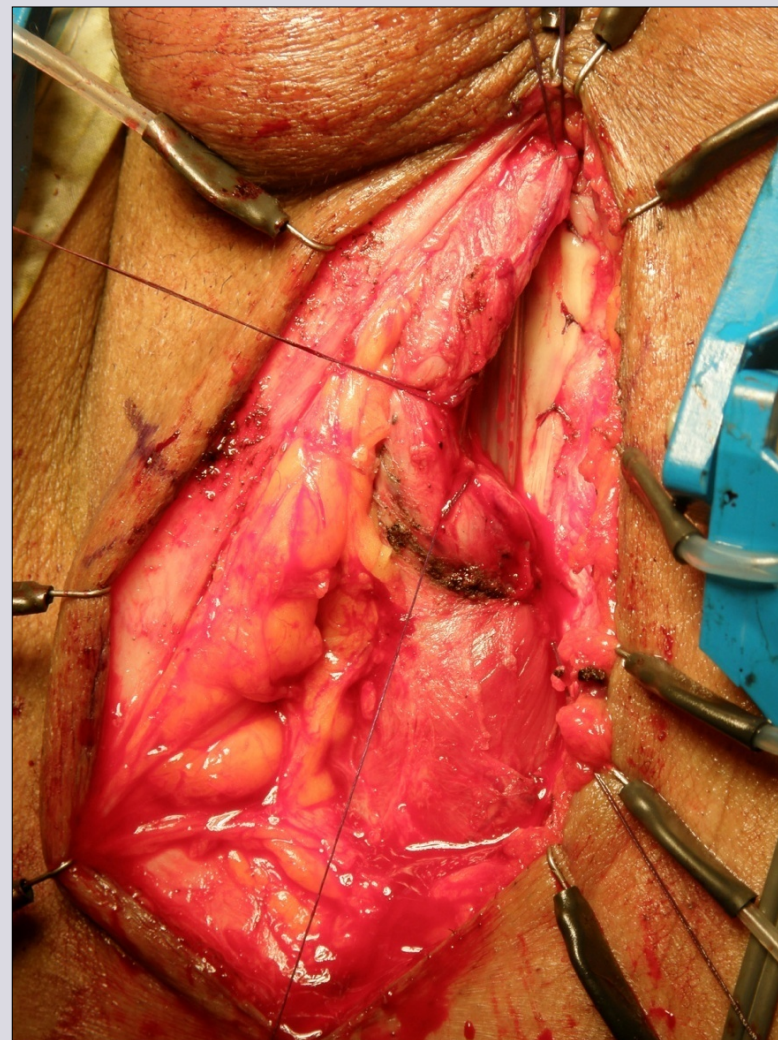
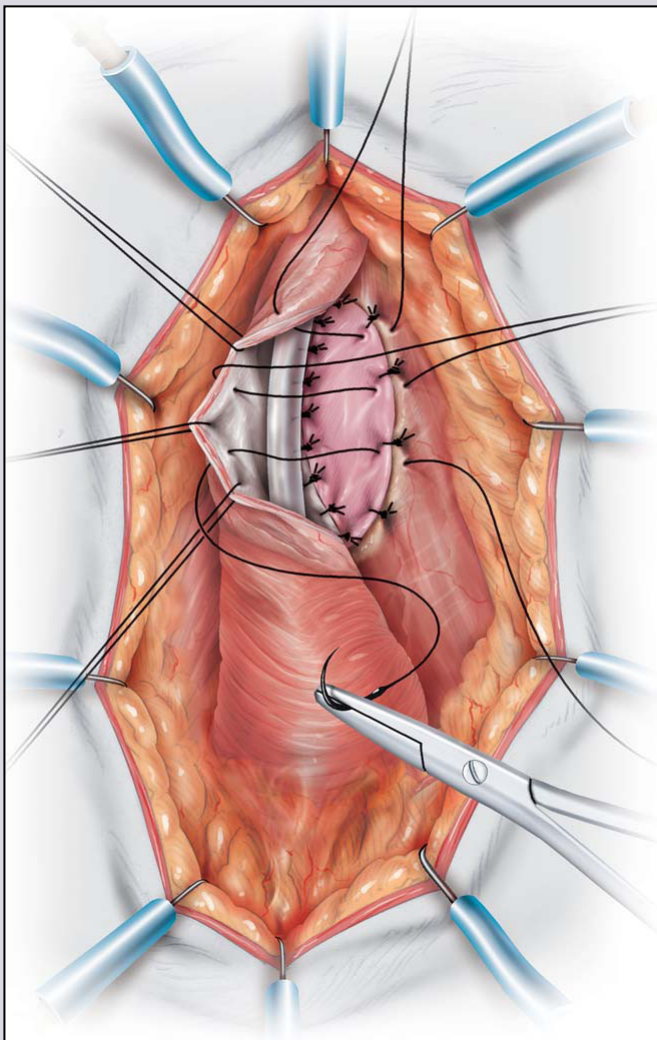


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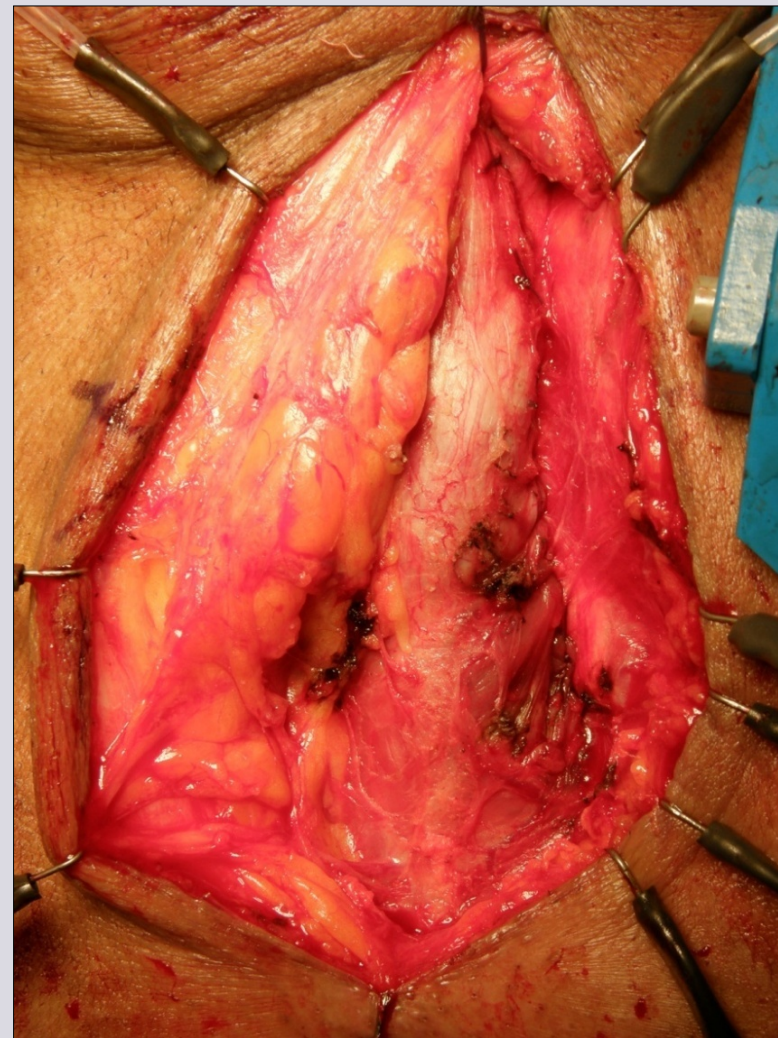
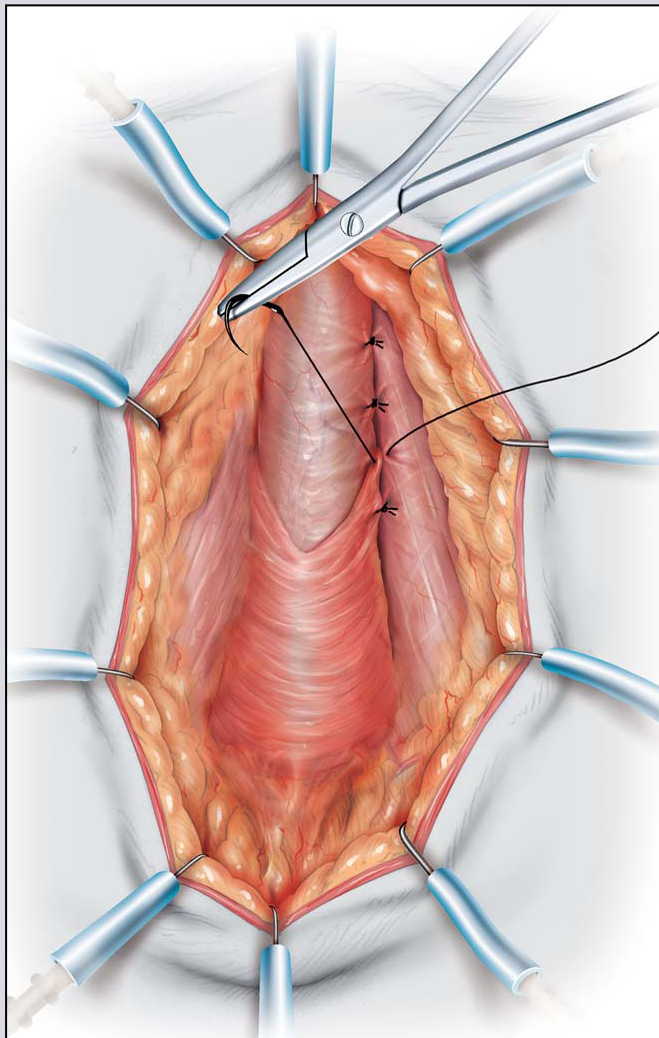


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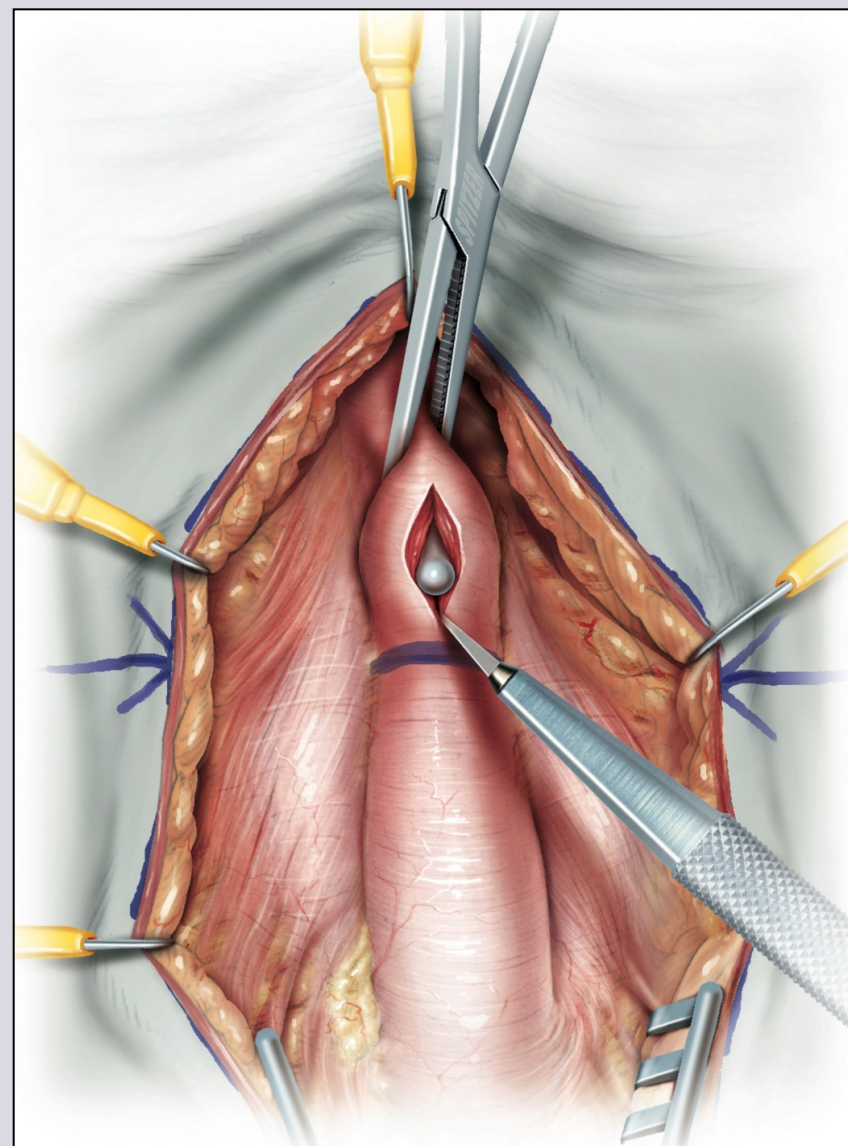
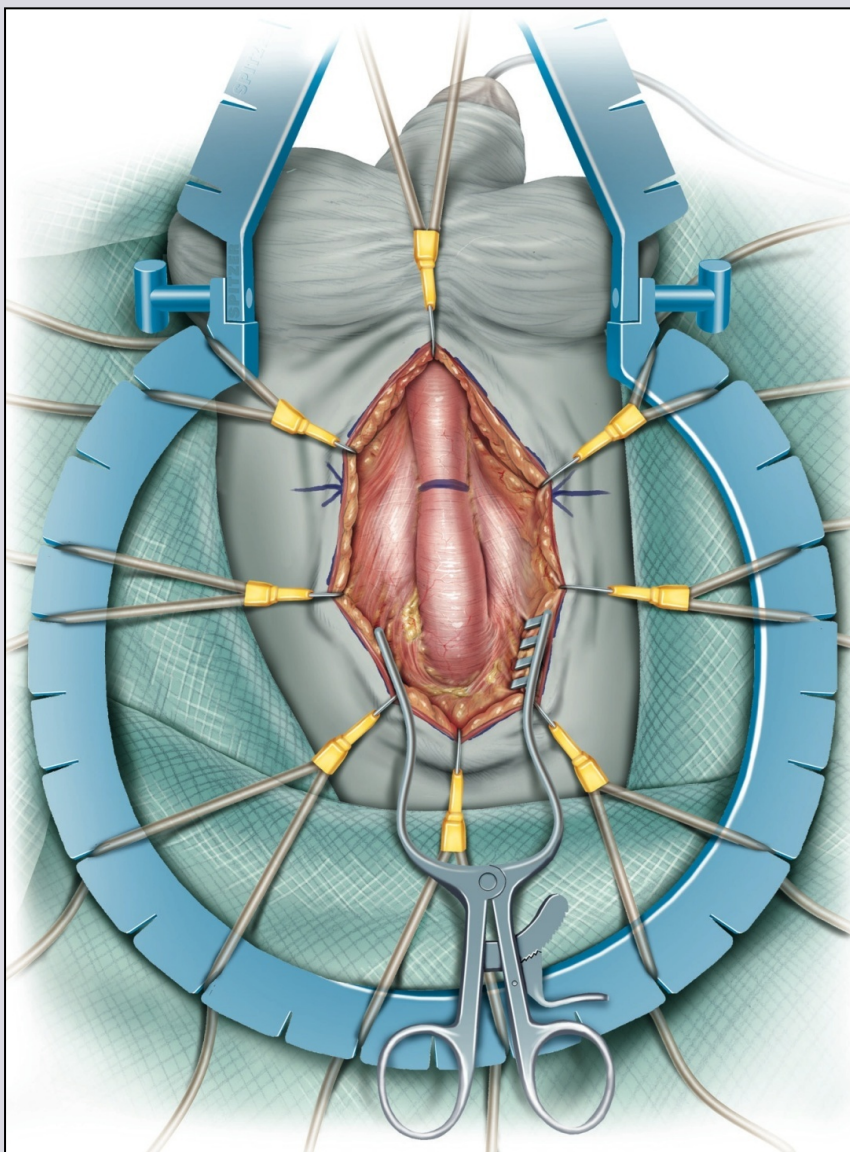


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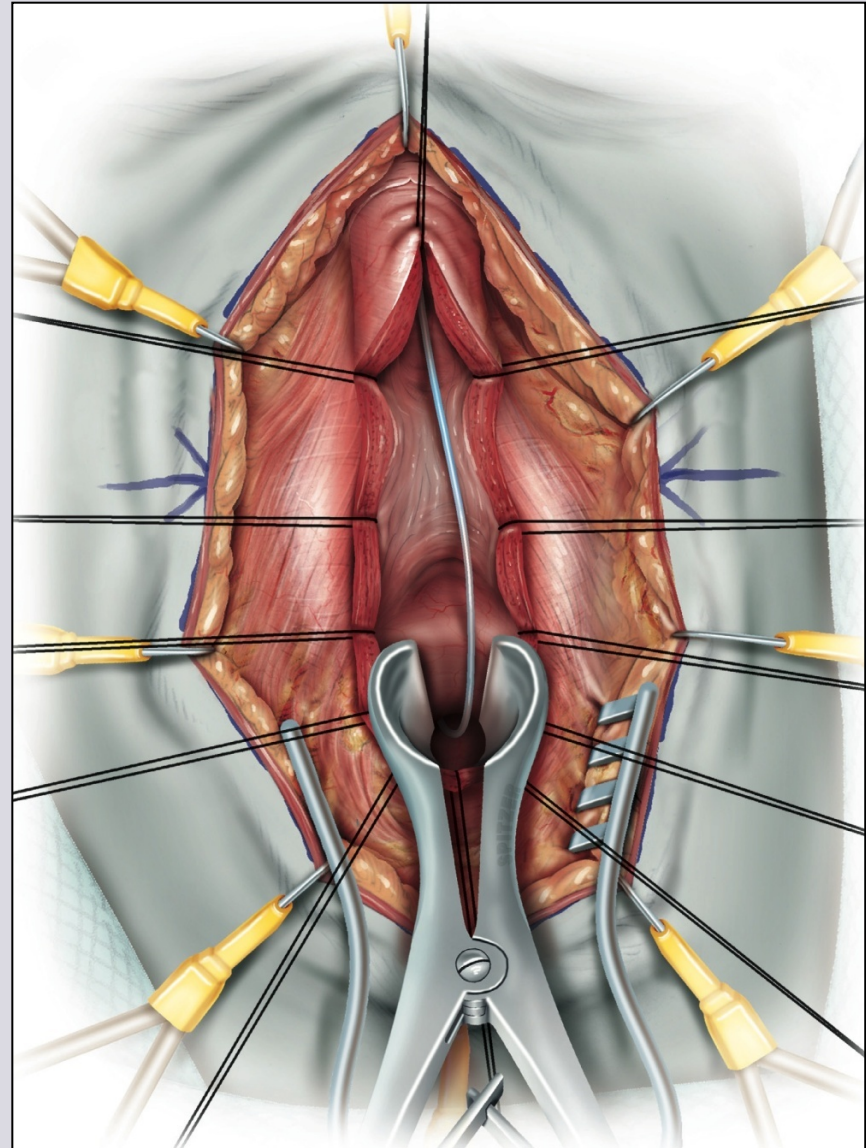
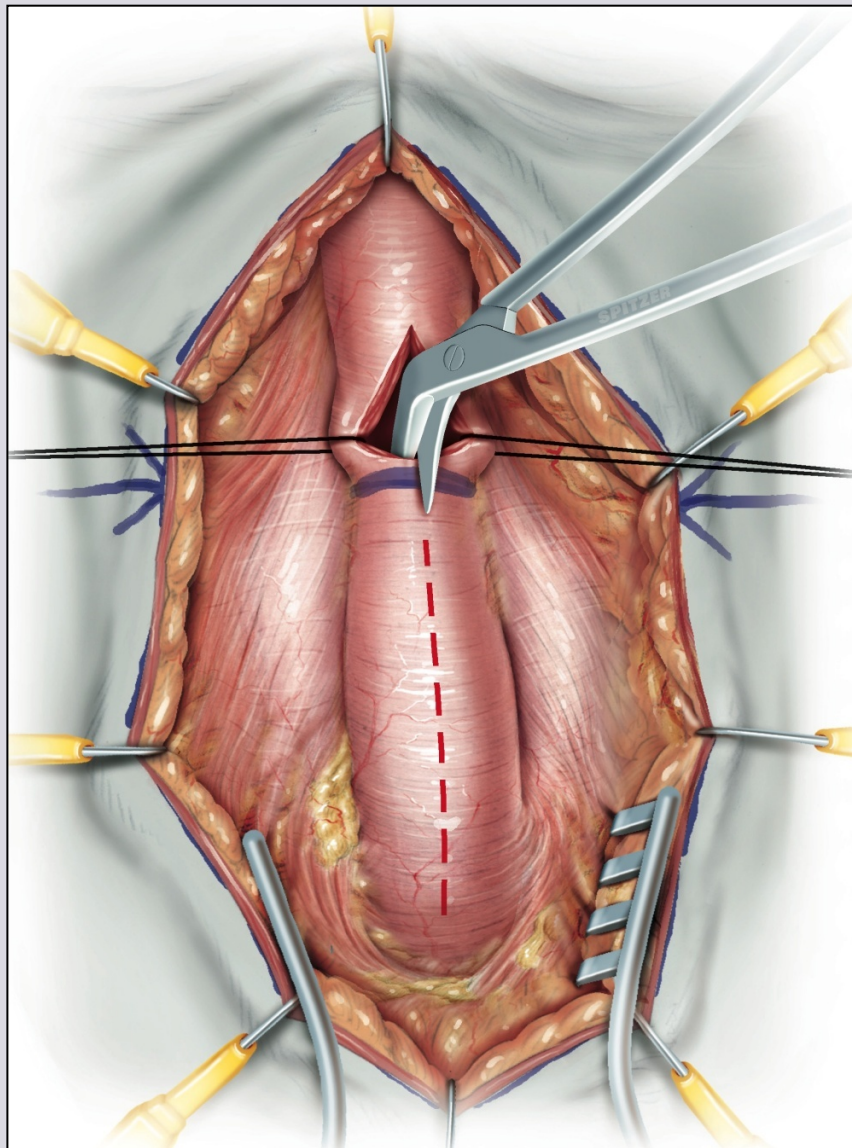
**Reconstruction of the  
bulbar urethra after  
previous failed (dorsal or ventral)  
onlay urethroplasty**



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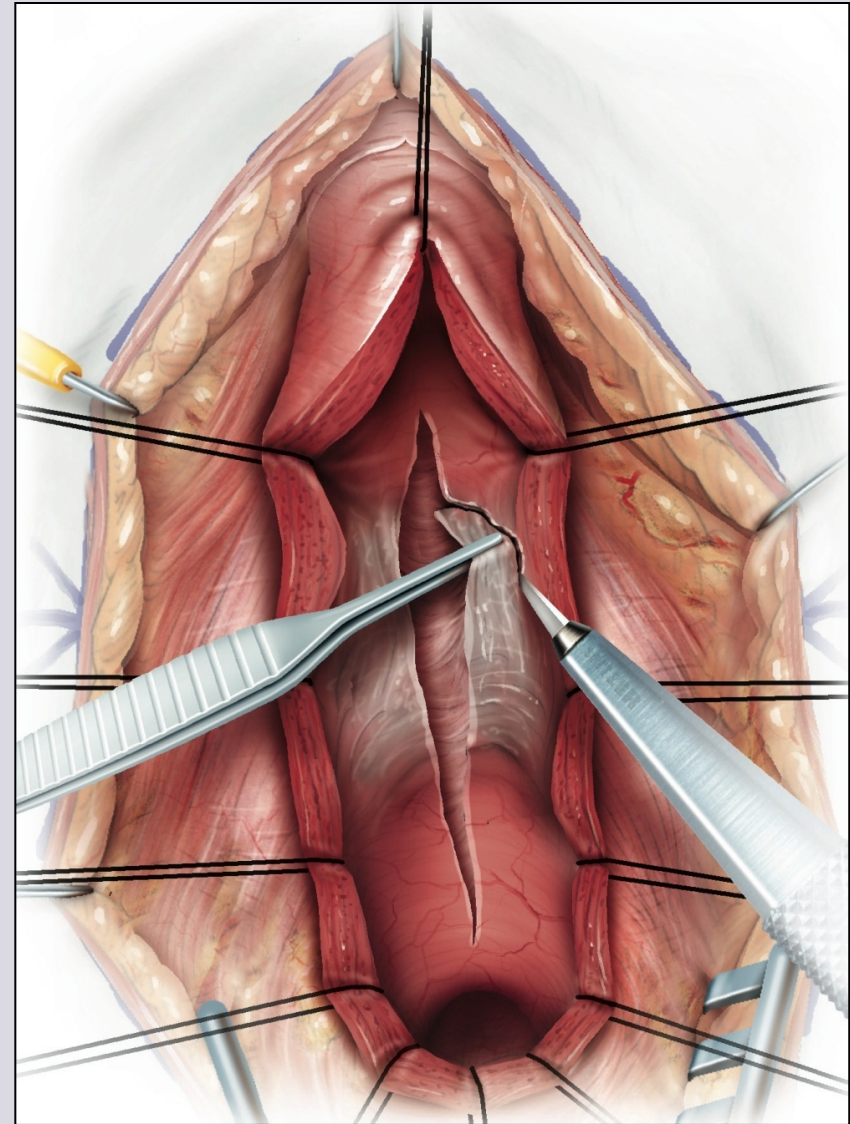
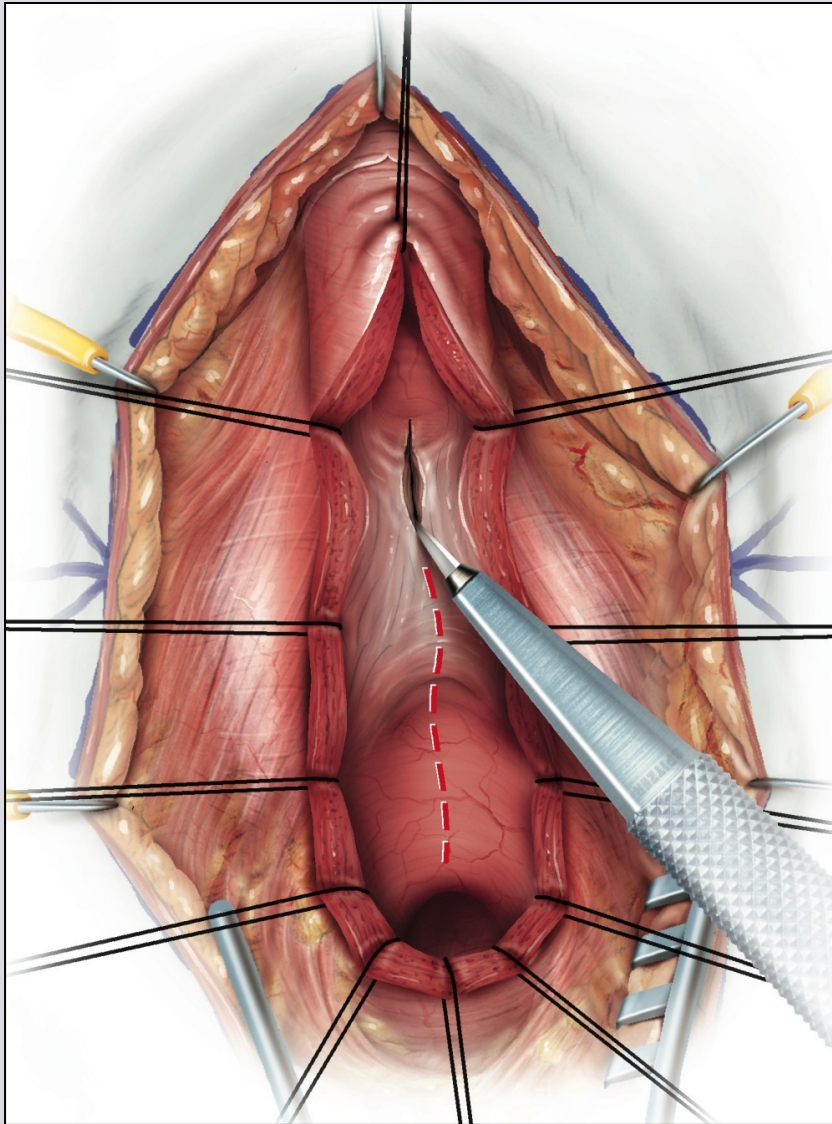




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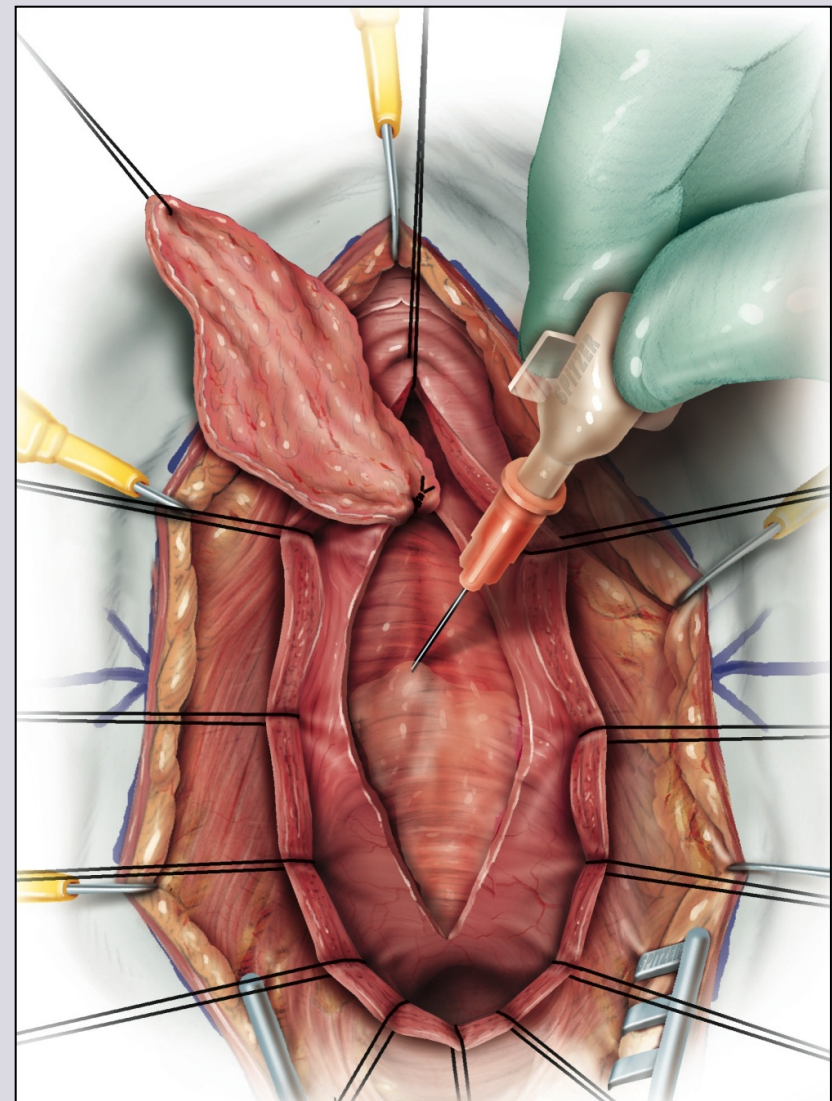
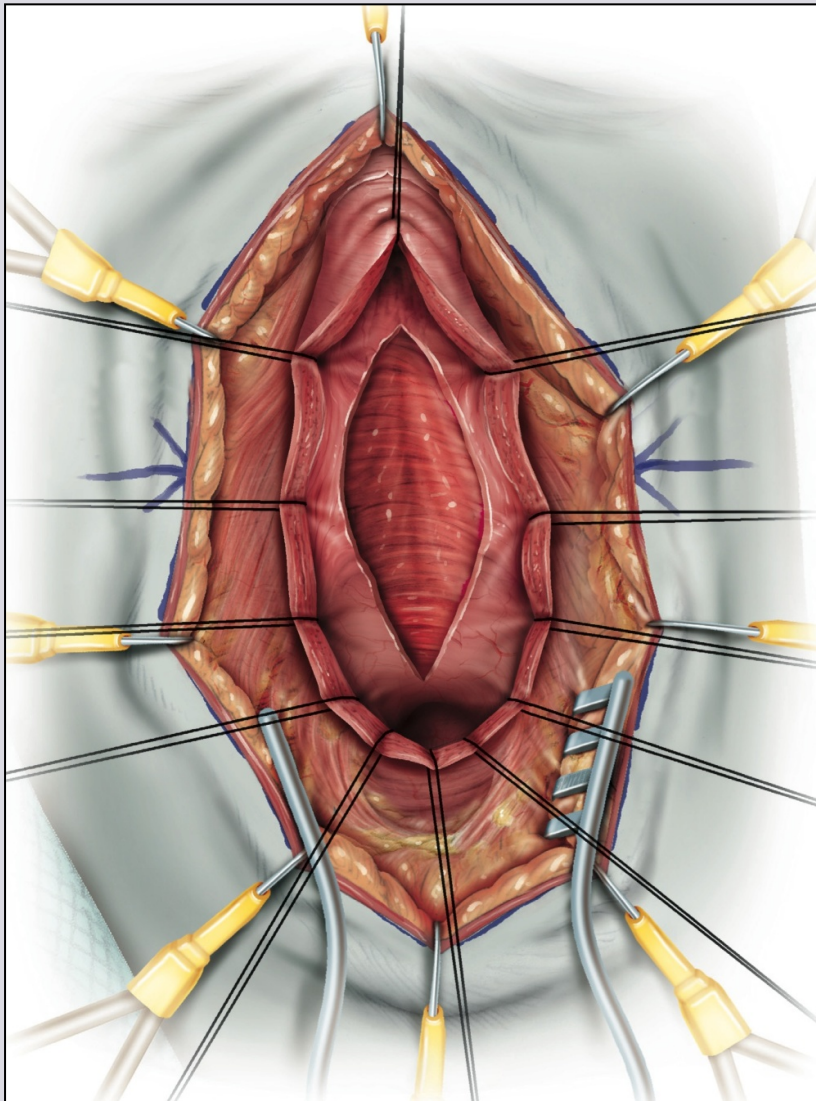
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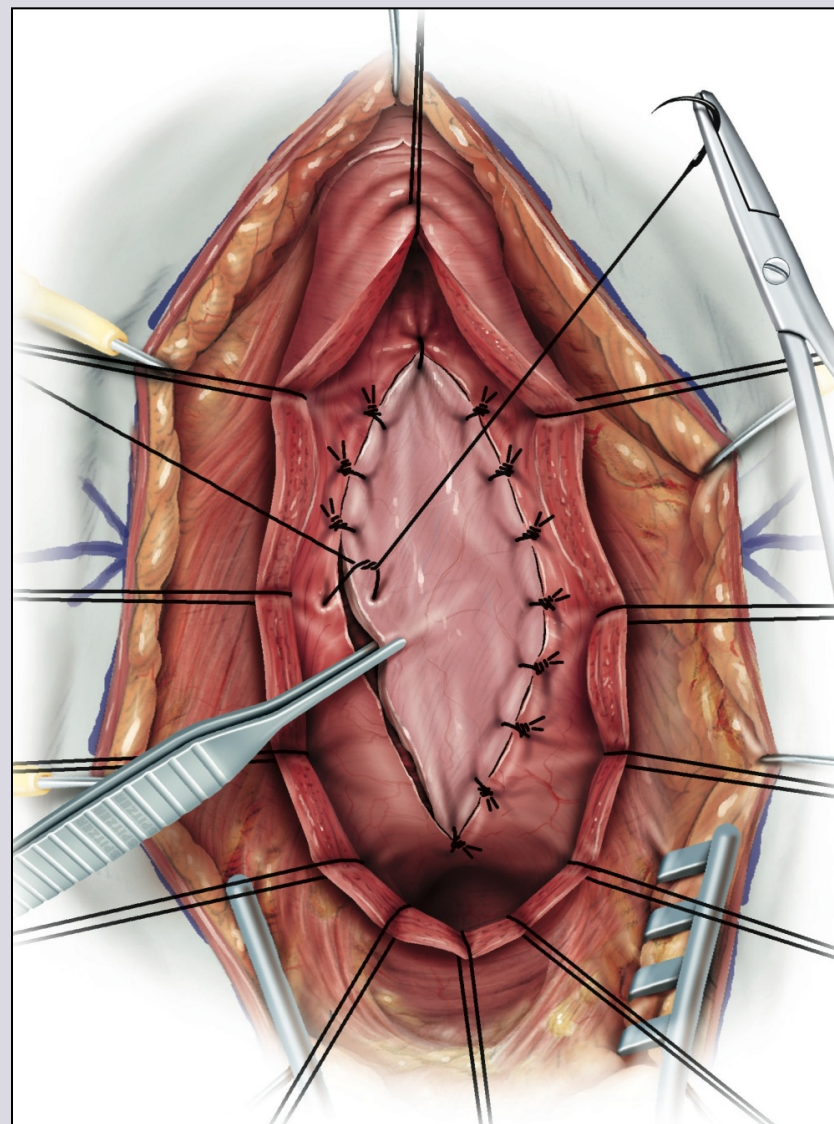
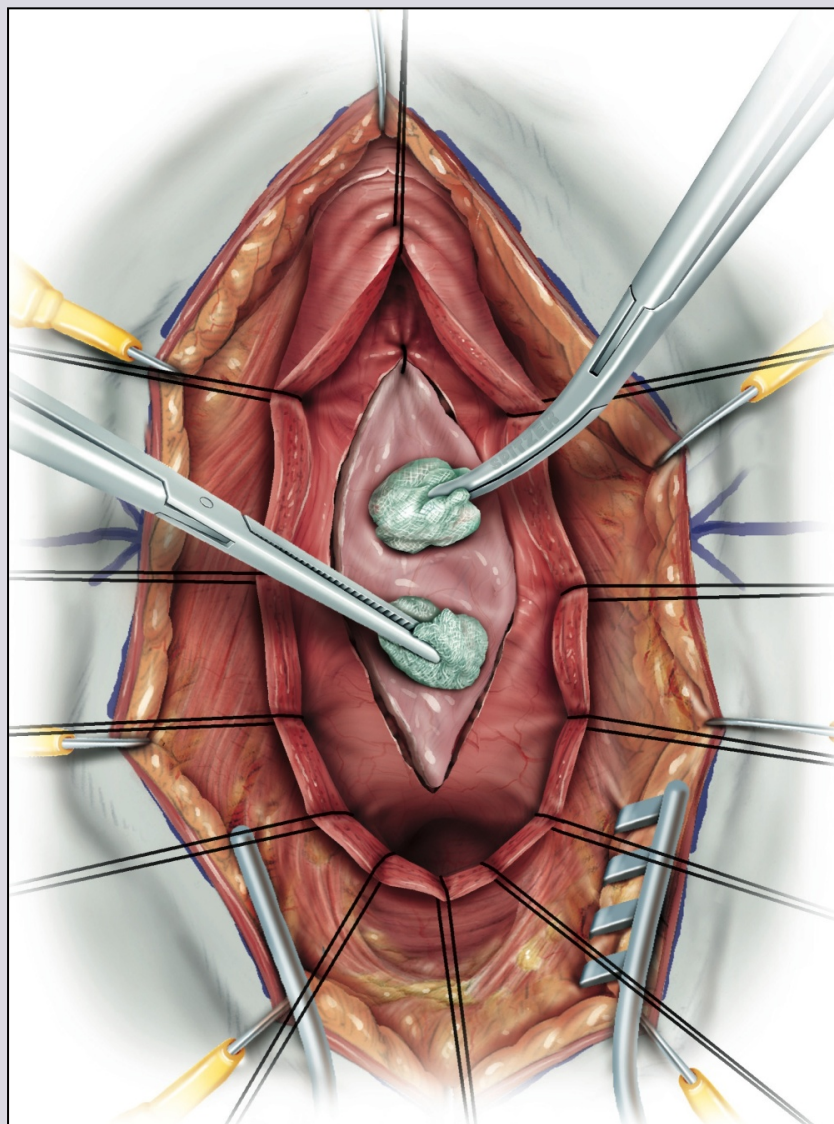
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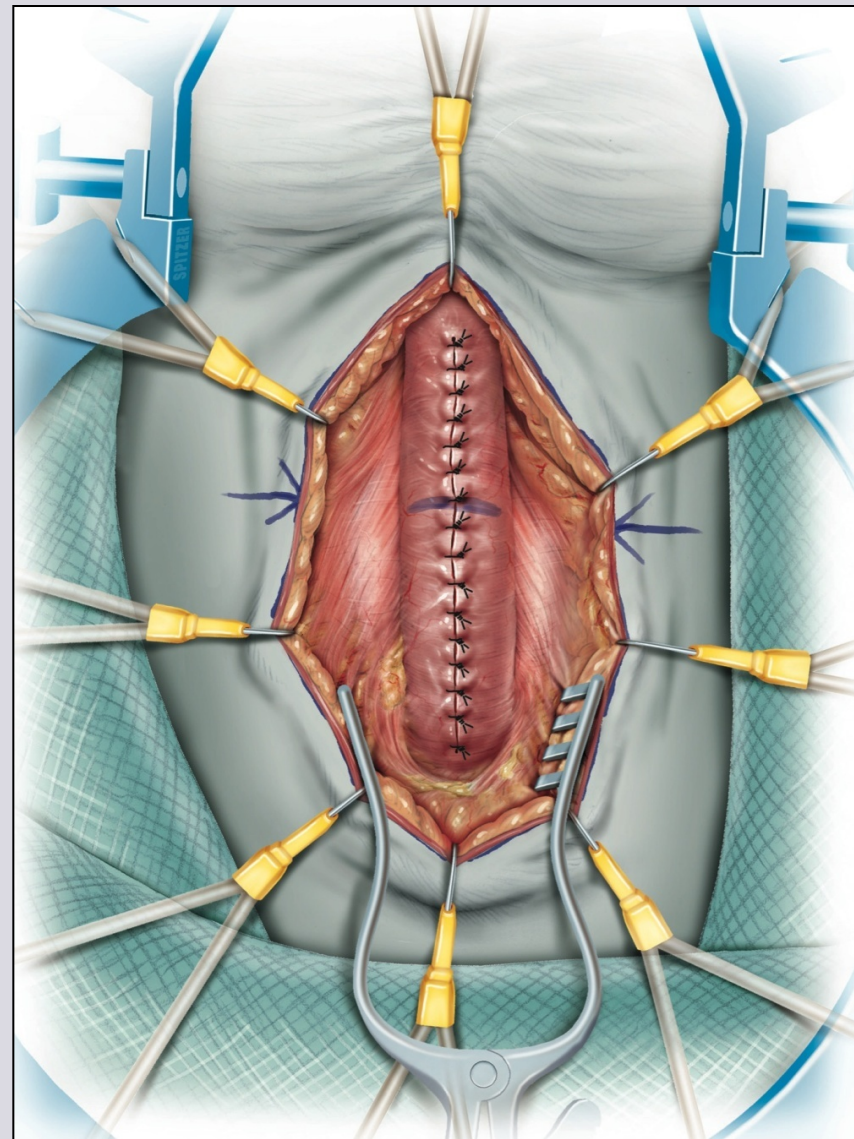
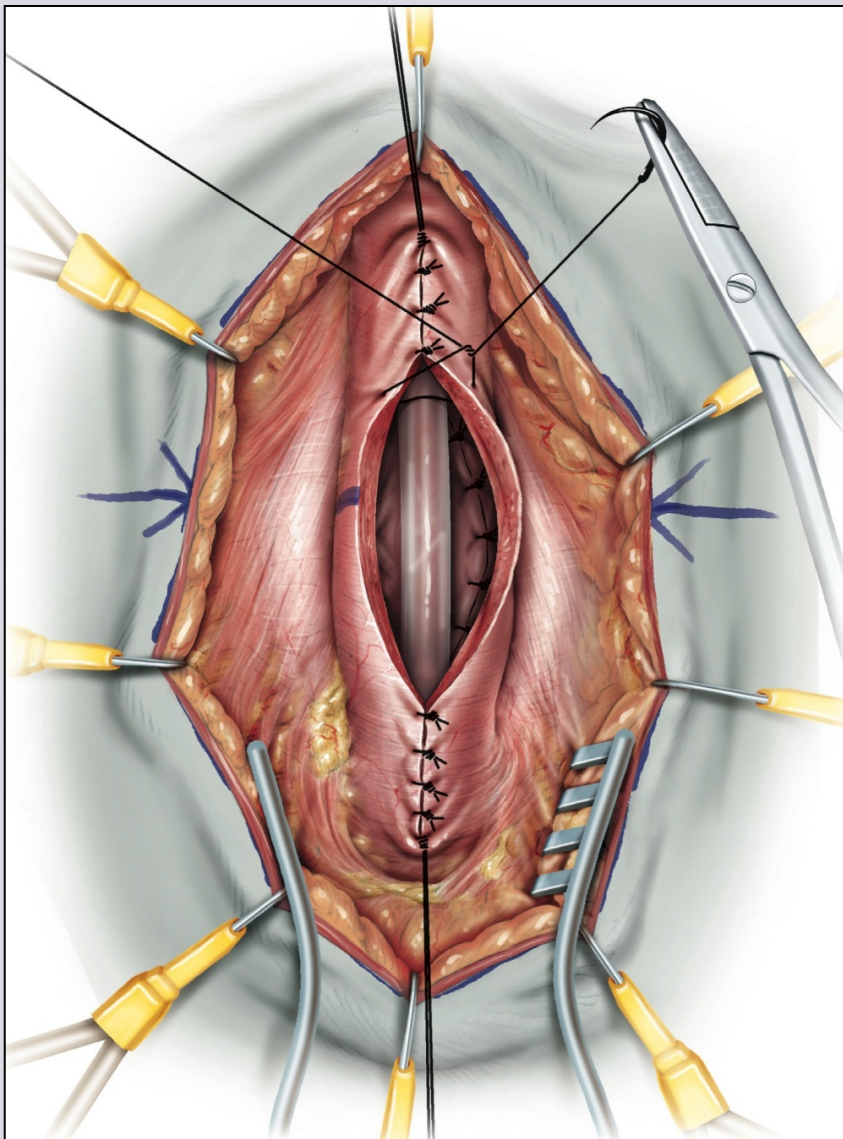




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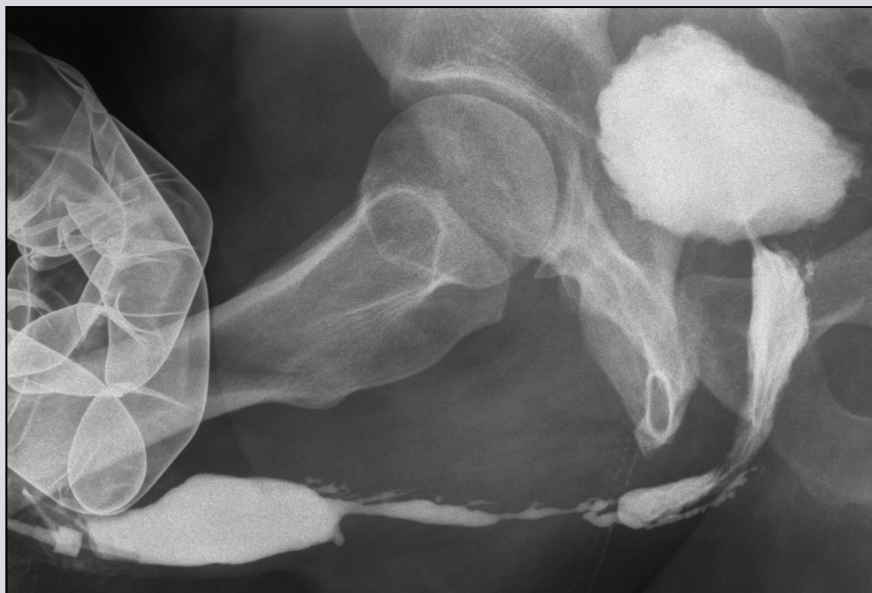




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# Definitive **perineal urethrostomy**

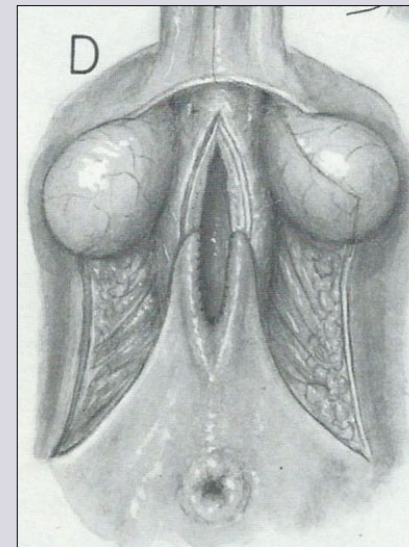
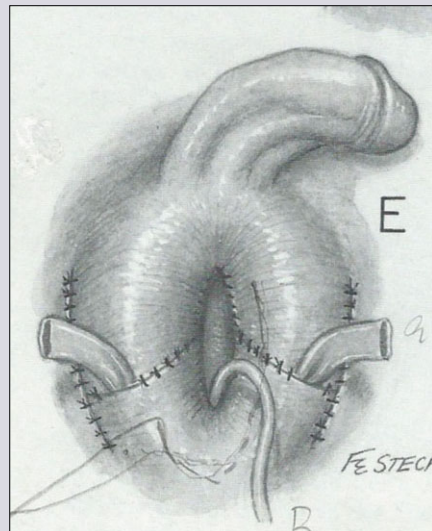
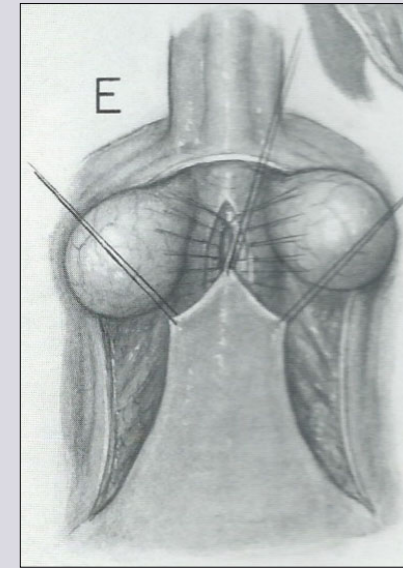
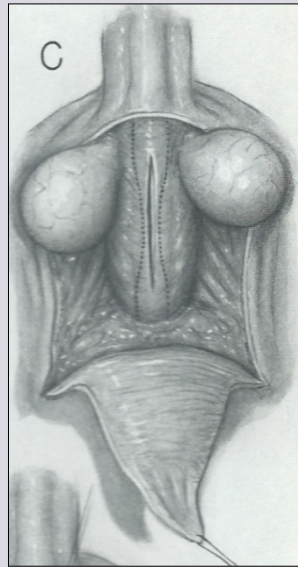
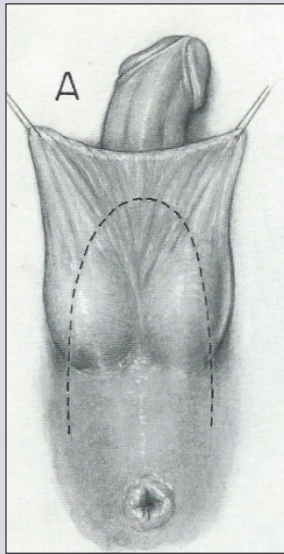


**Complex recurrent stricture**

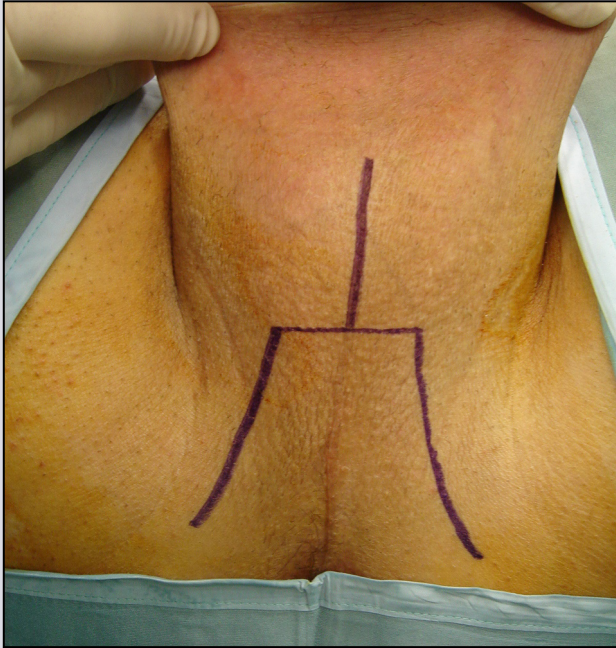


**Blandy's technique**





**Br J Urol, 1968: 40; 261**



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## Conclusions

**In the era of robotic surgery, it is also time to change urethral surgery!**

- ❖ **Increase the use of minimally invasive techniques in urethroplasty, reducing the incidence of complications and improving patient quality of life.**



**Register now !**

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