

CENTER FOR RECONSTRUCTIVE URETHRAL SURGERY



GUIDO BARBAGLI, M.D.
Arezzo - Italy

e-mail: info@urethralcenter.it

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

INTERNATIONAL CONFERENCE

Urogenital Reconstructive Surgery



Moscow – Russia
June 15 – 16, 2017

e-mail: info@urethralcenter.it

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



Centro Chirurgico Toscano **Arezzo – Italy**

www.centrochirurgicotoscano.it

e-mail: info@urethralcenter.it

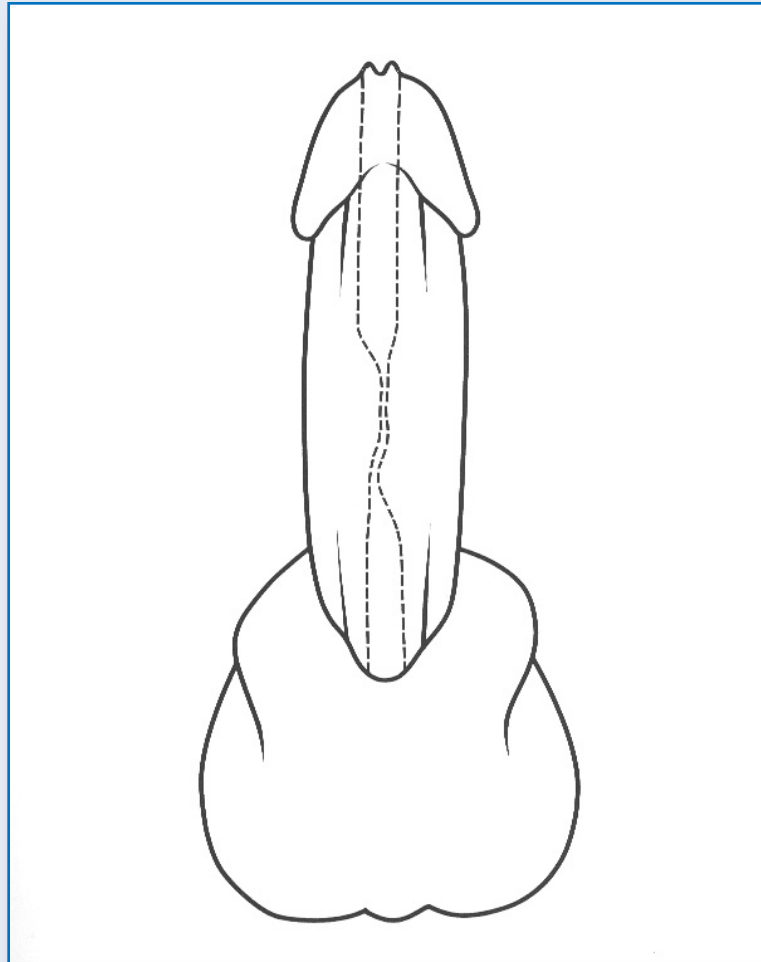
www.uretra.it

Websites: www.urethralcenter.it

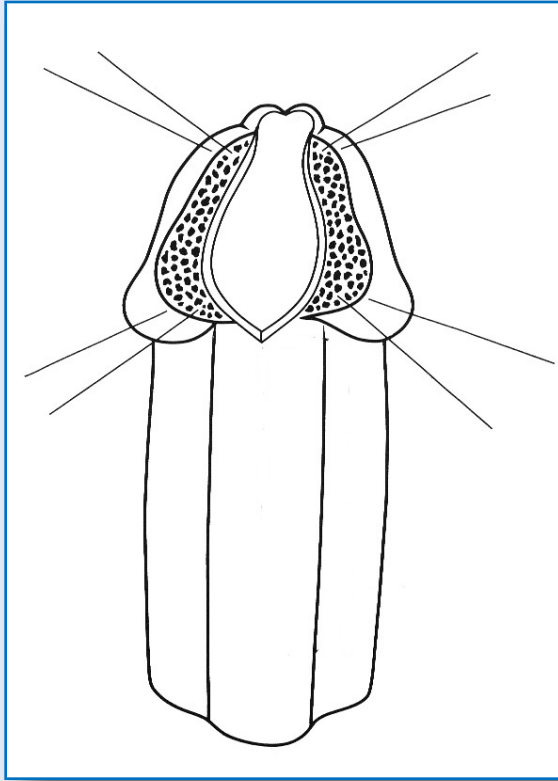
Reconstruction of the Male Urethra

Part 1

New Concepts in the Reconstruction of the Penile Urethra

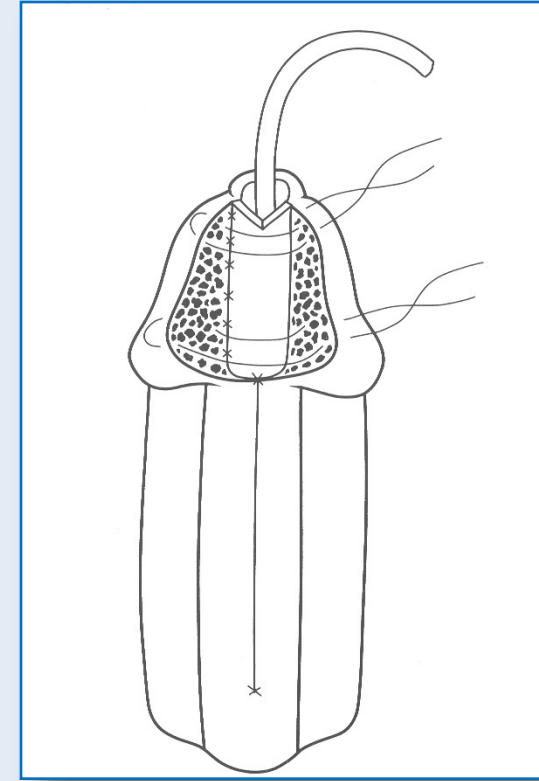


Meatal Stenosis



Meatotomy

or



Meatoplasty ?

Patients Selected for Meatotomy

- Old patient
- Patient with important co-morbidity
- Patient psychologically stable
- Patient who underwent numerous previous failed surgical attempts
- Patient with a small glans

Meatotomy

RESULTS



44/74 (59%) patients who underwent meatotomy completed a post-operative survey using a questionnaire

84% satisfied or very satisfied.
82% described their outcomes as good or excellent.

Fluttering stream (58.4%)

Irregular stream (33.3%)

Deviation of stream (8.3%)

BJU Int 2012; 109: 616-619

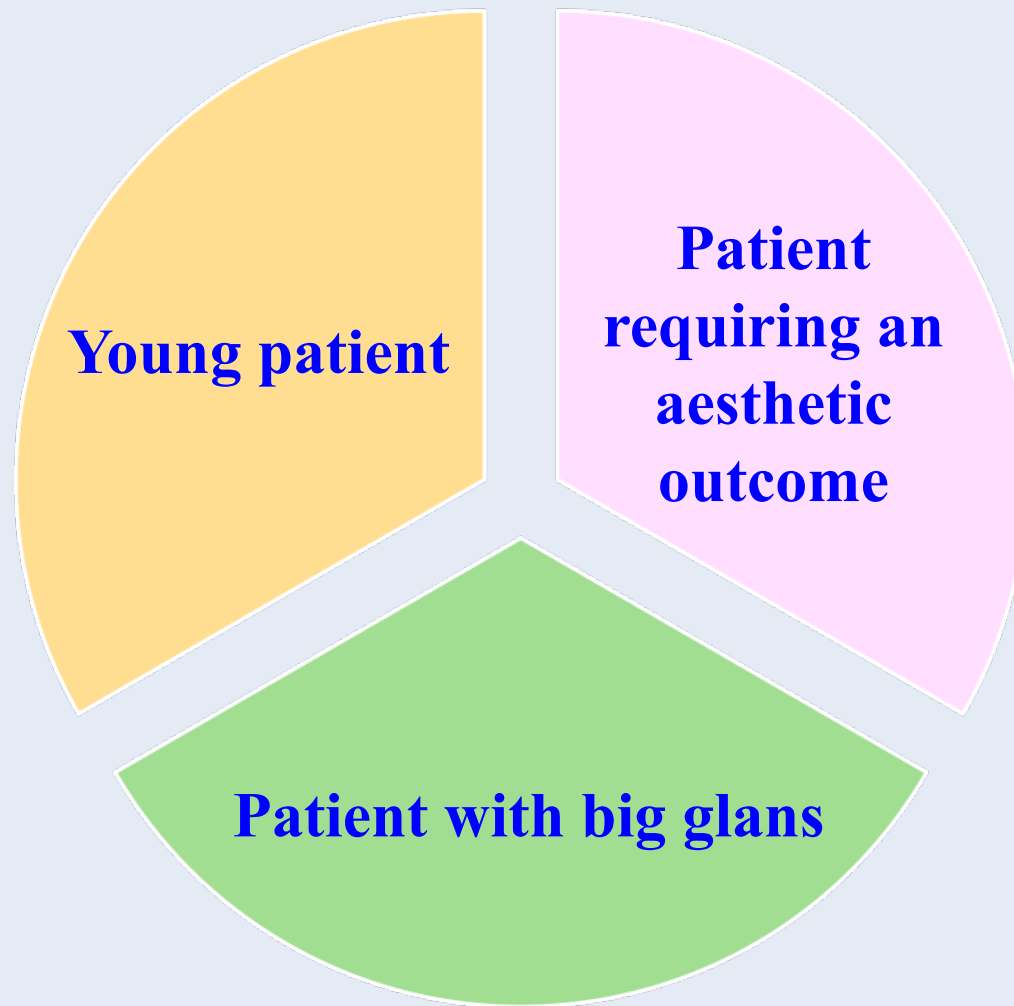
Meatotomy

“ Don’t hesitate to treat selected patients using a simple meatomy. The majority of your patients will be happy and they will thank you! “

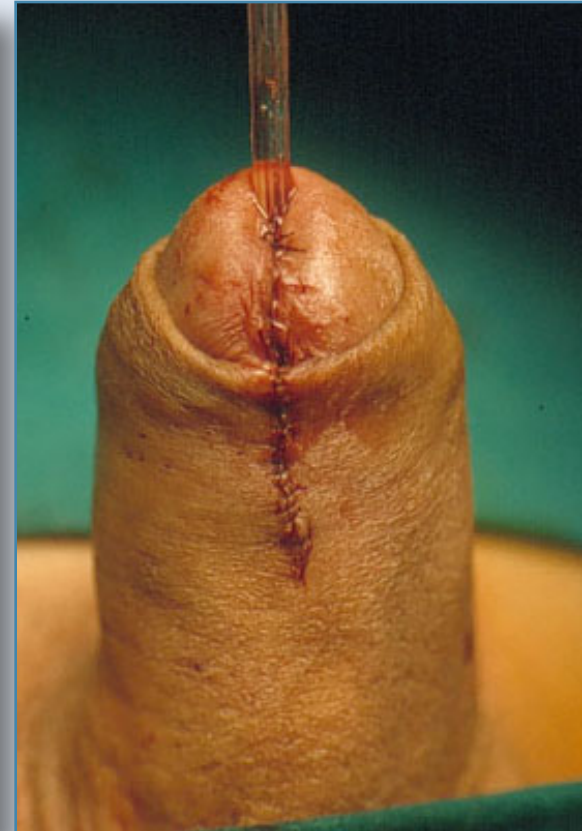
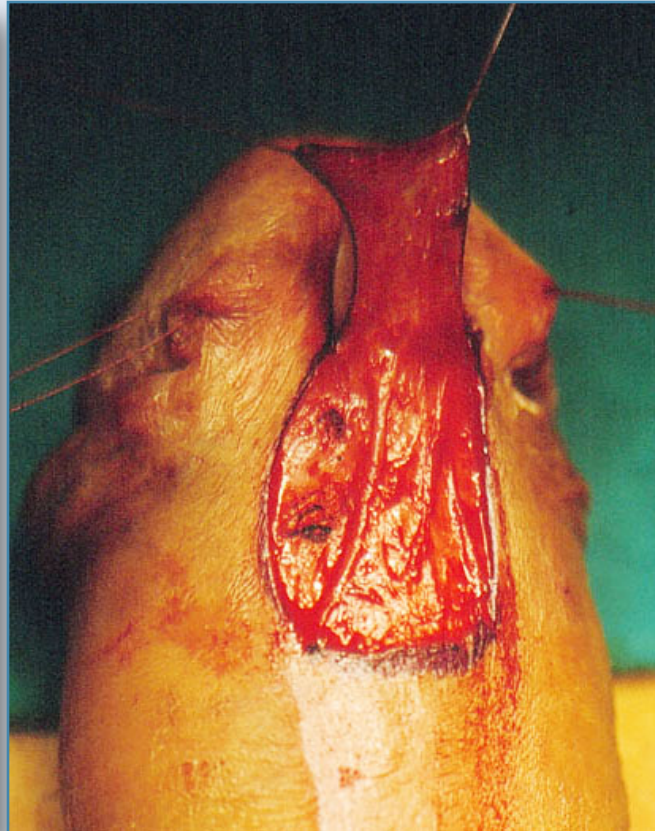
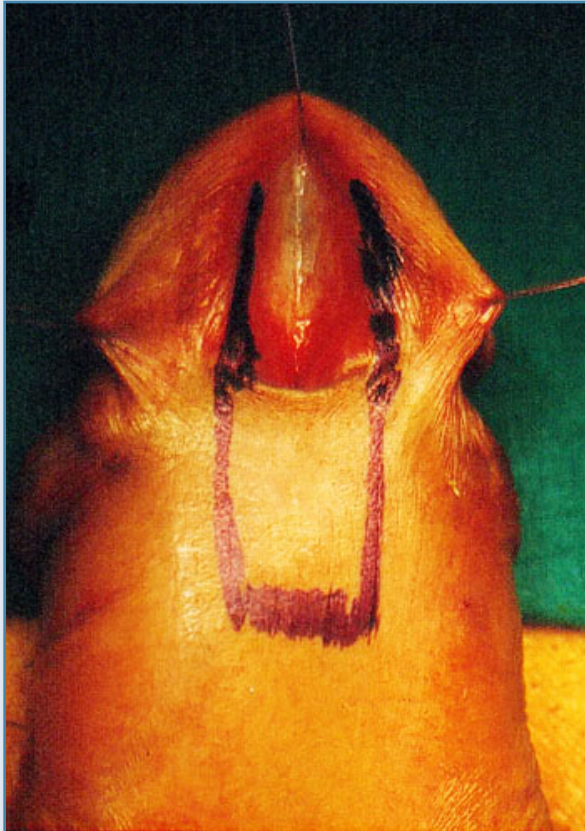


Take home message

Patients Selected for Meatoplasty

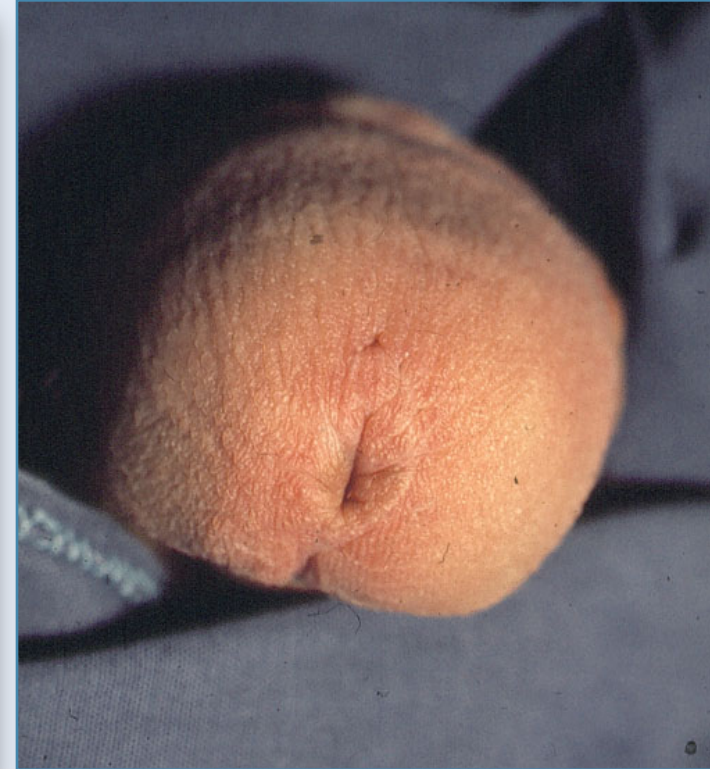
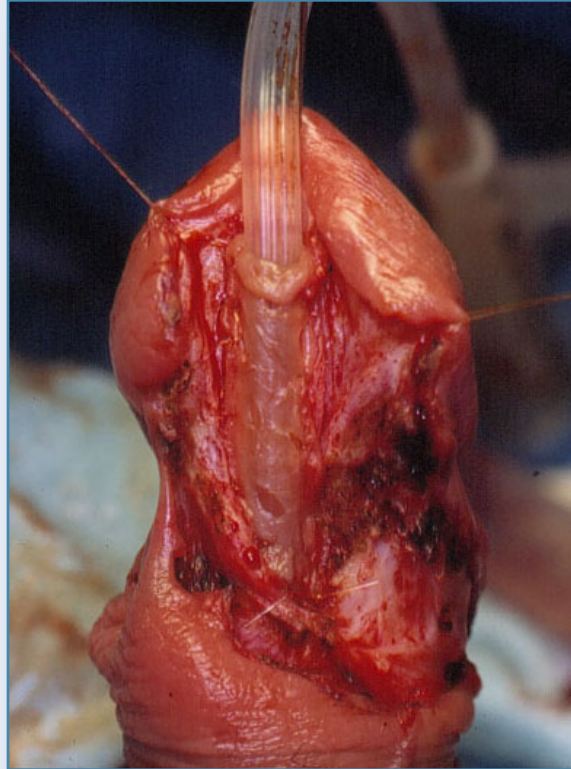
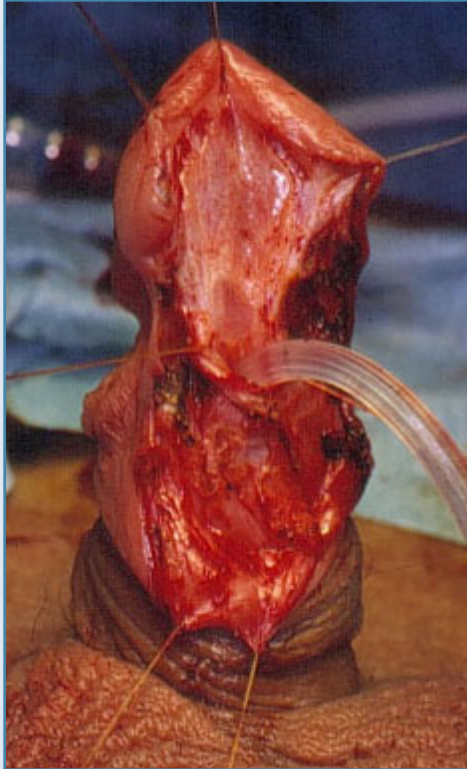


Blandy-Tresidder Meatoplasty

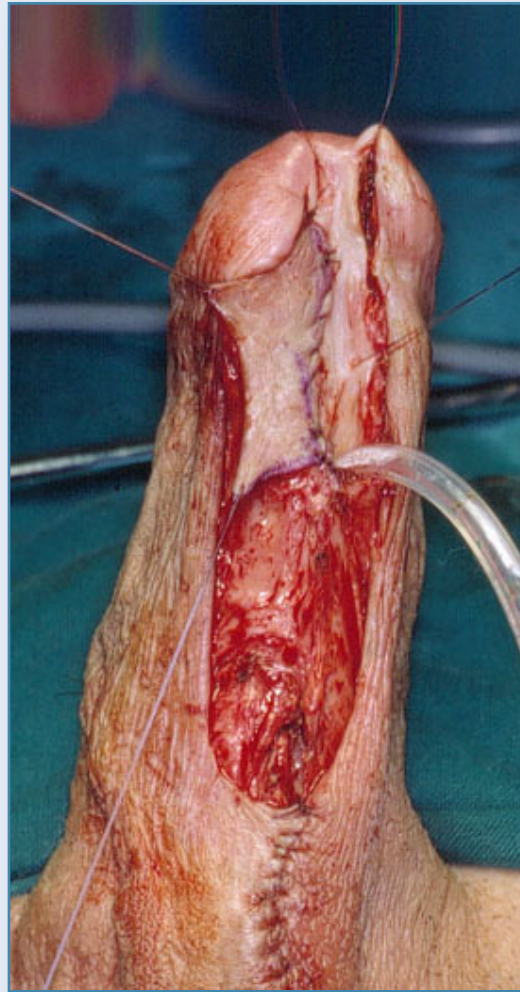
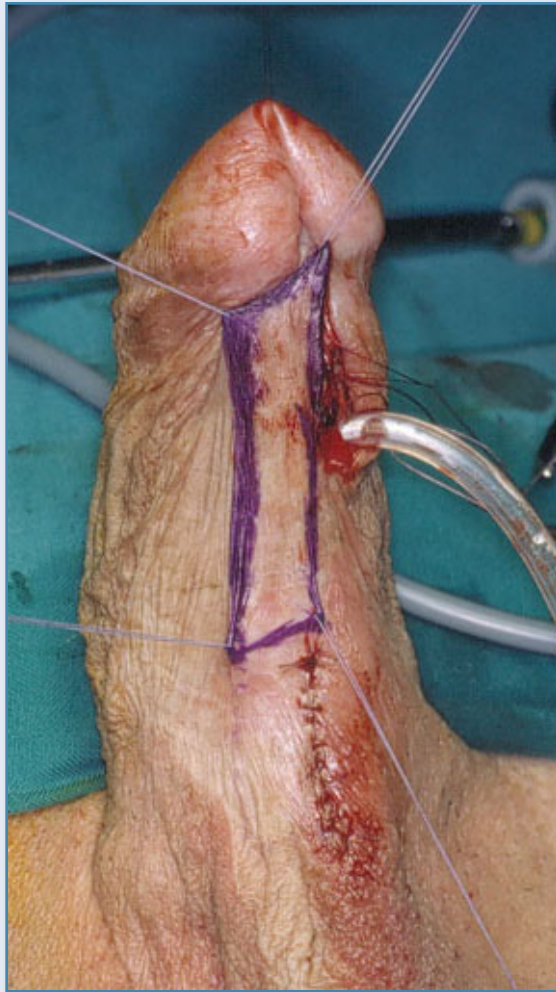


Br J Urol 1967; 39:633-234

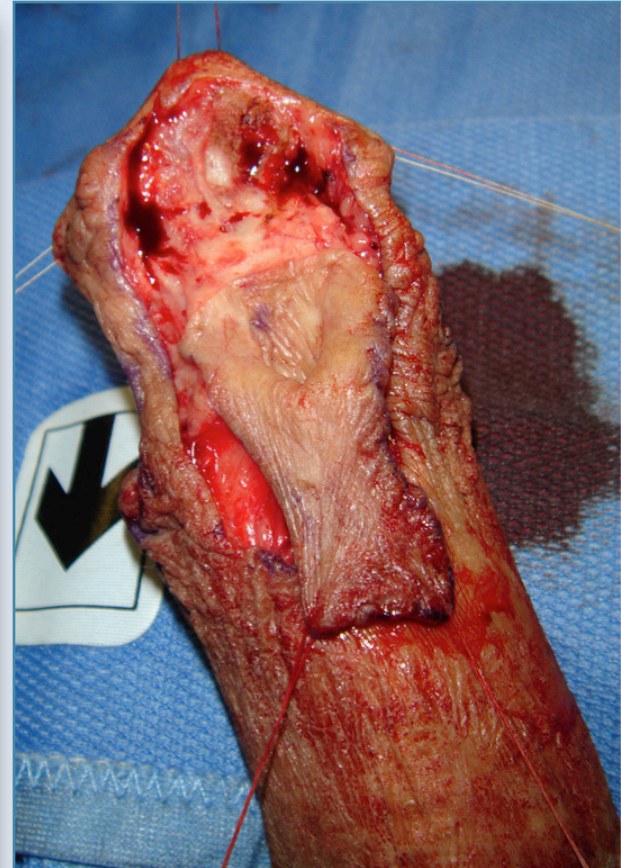
Skin Graft Meatoplasty



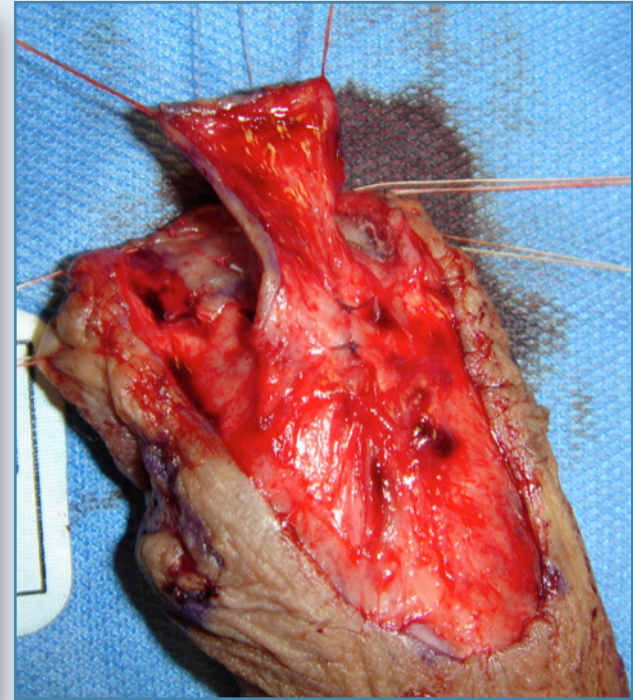
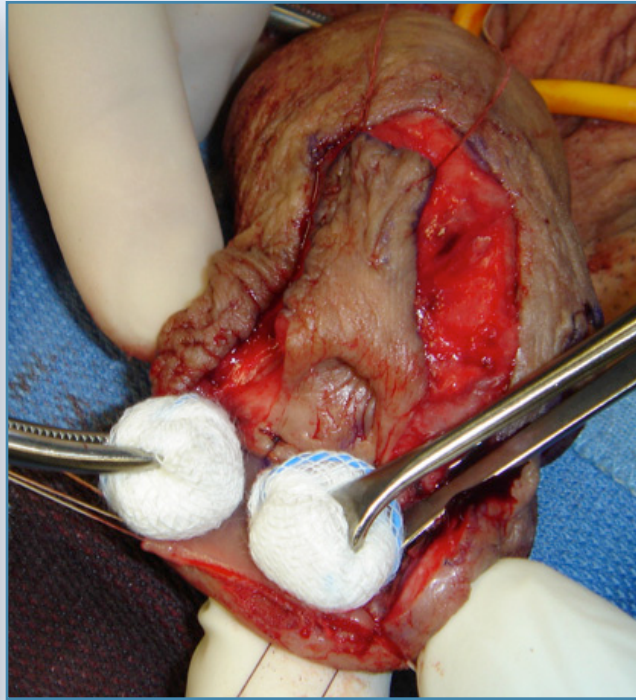
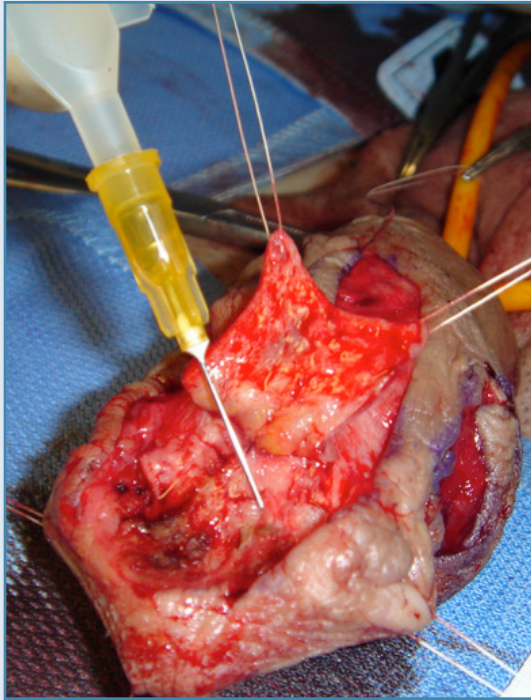
Skin Flap Meatoplasty



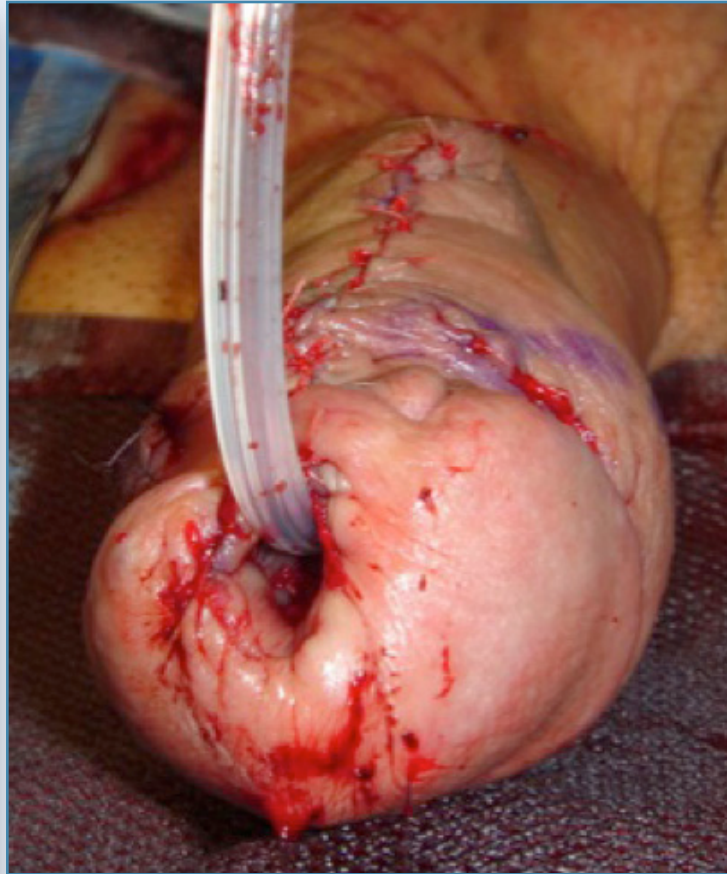
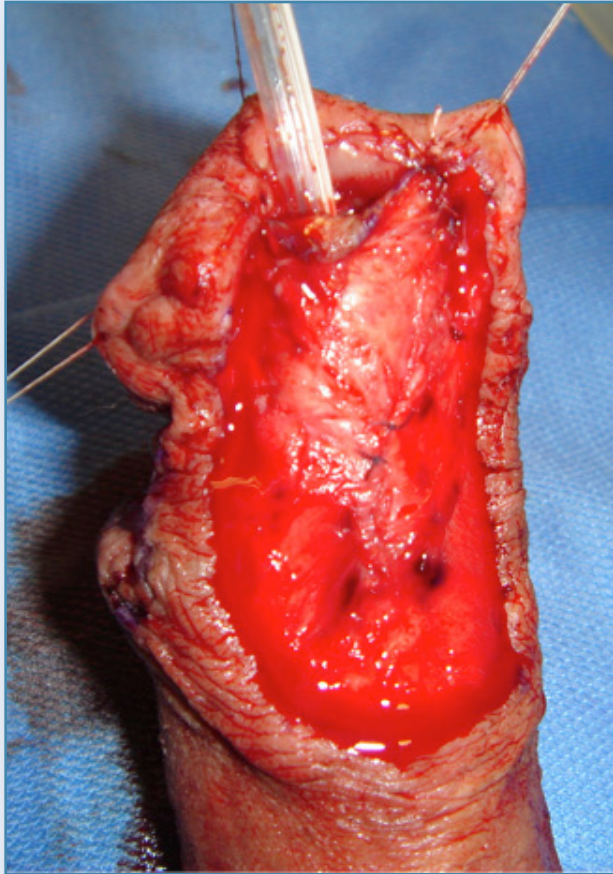
Combined Flap and Graft Urethroplasty with New Glue (Glubran 2)



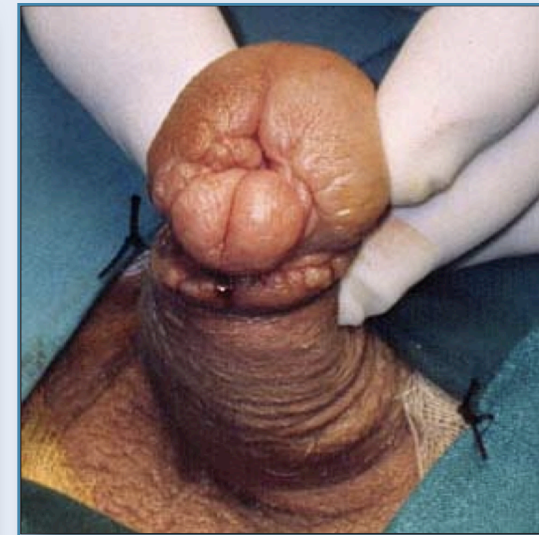
Combined Flap and Graft Urethroplasty with New Glue (Glubran 2)



Combined Flap and Graft Urethroplasty with New Glue (Glubran 2)



Complications of Meatoplasty



Meatoplasty

“ Don’t hesitate to treat selected patients using a meatoplasty. But, inform patients that the surgery may present a lot of post-operative complications or unsatisfactory aesthetic outcome! “



Take home message

Conclusions



It is more difficult to repair 1 cm meatal stenosis than 5 cm bulbar stricture



Penile Urethral Stricture

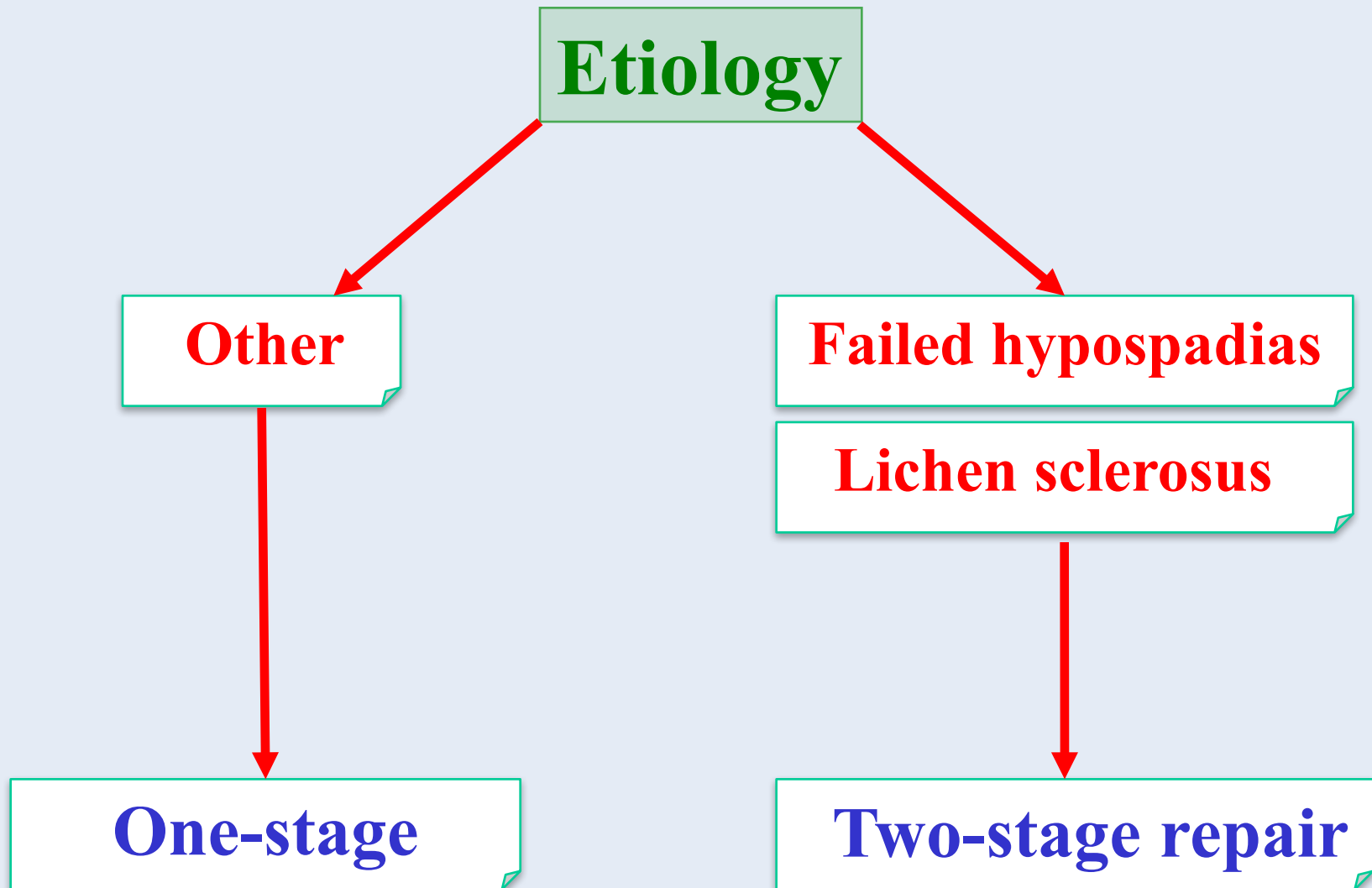
One-stage



Two-stage repair ?

or

Penile Urethral Stricture



Penile Urethral Stricture

Radiological features



One-stage



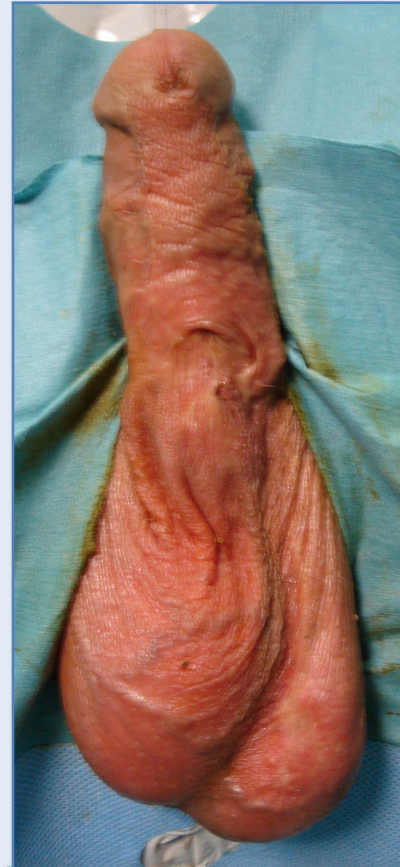
Two-stage

Penile Urethral Stricture

Clinical Features

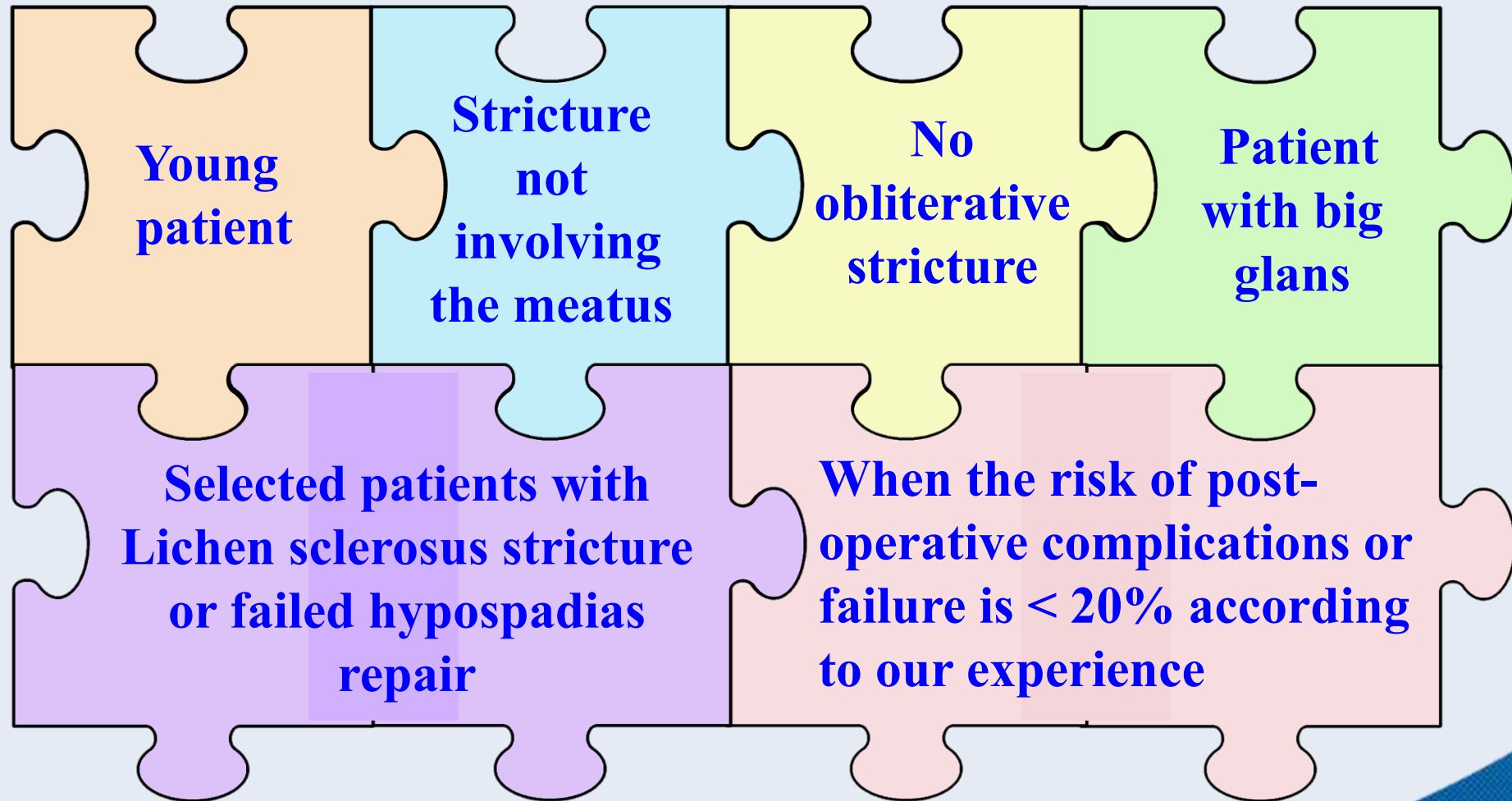


One-stage

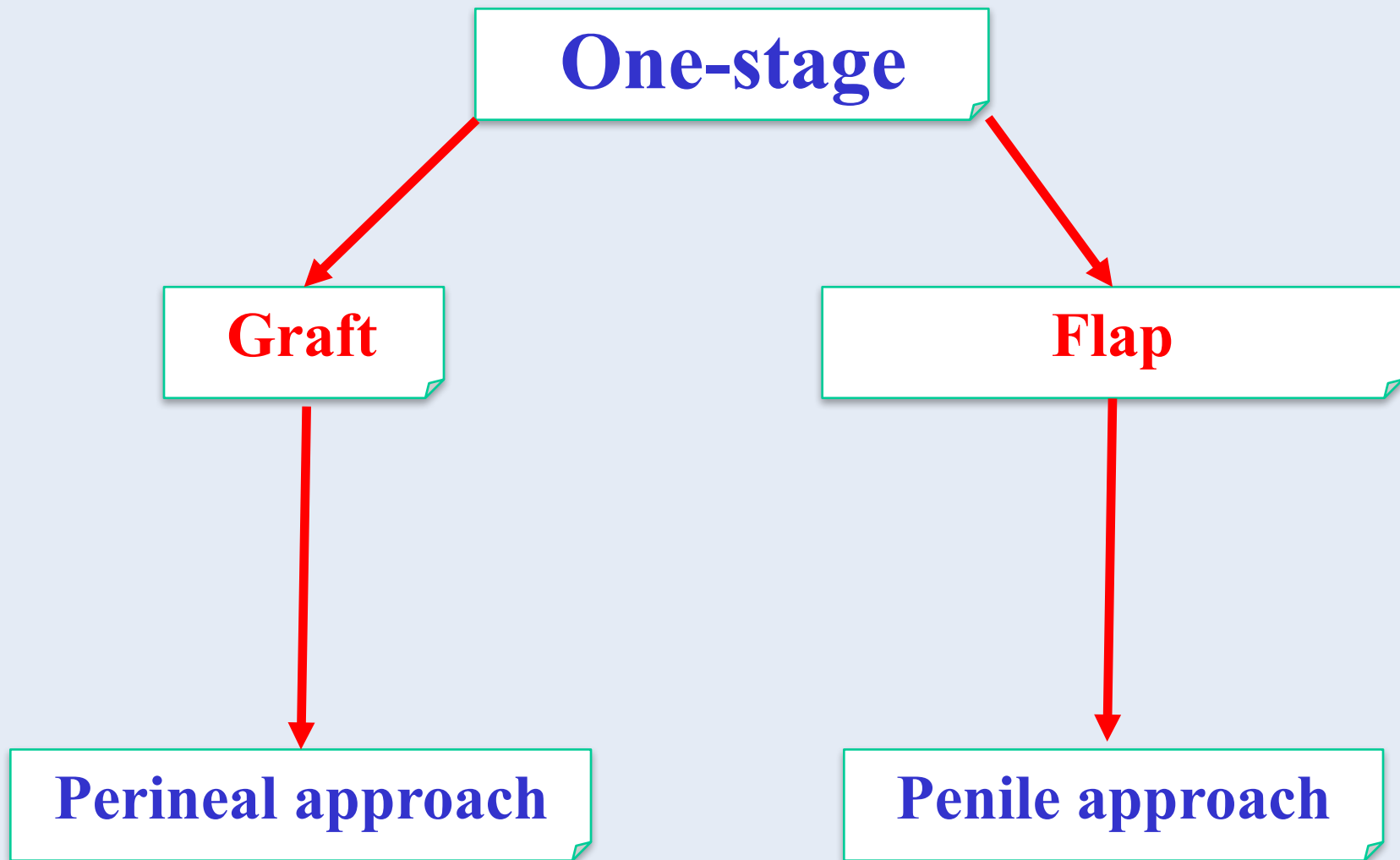


Two-stage

Ideal Patients for One-Stage Repair



Penile Urethral Stricture



New Penile One-stage Urethroplasty

Oral Mucosal Graft

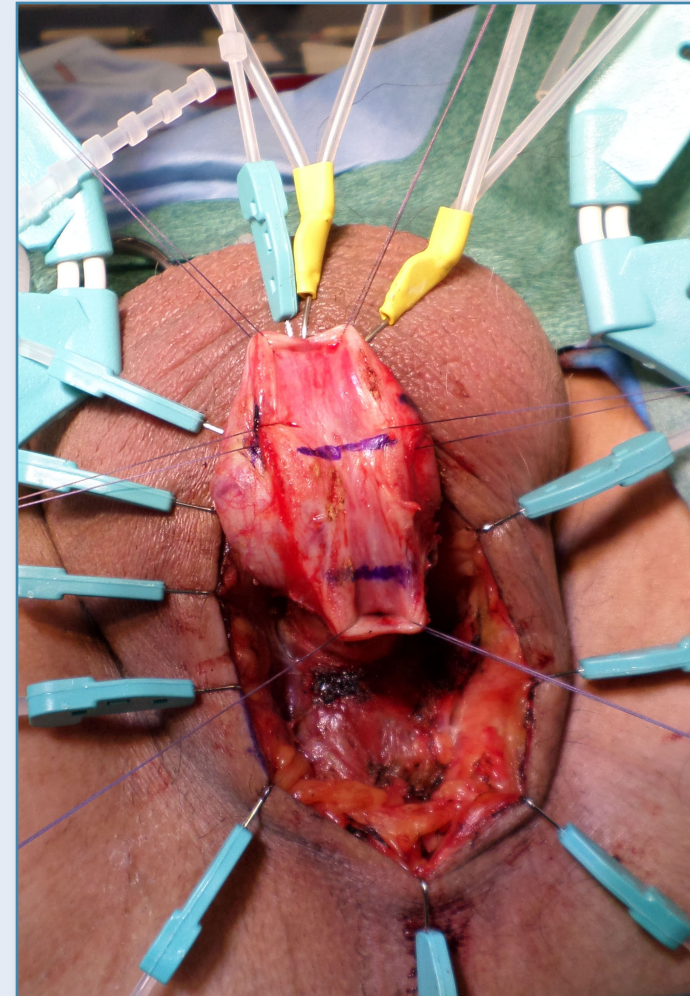
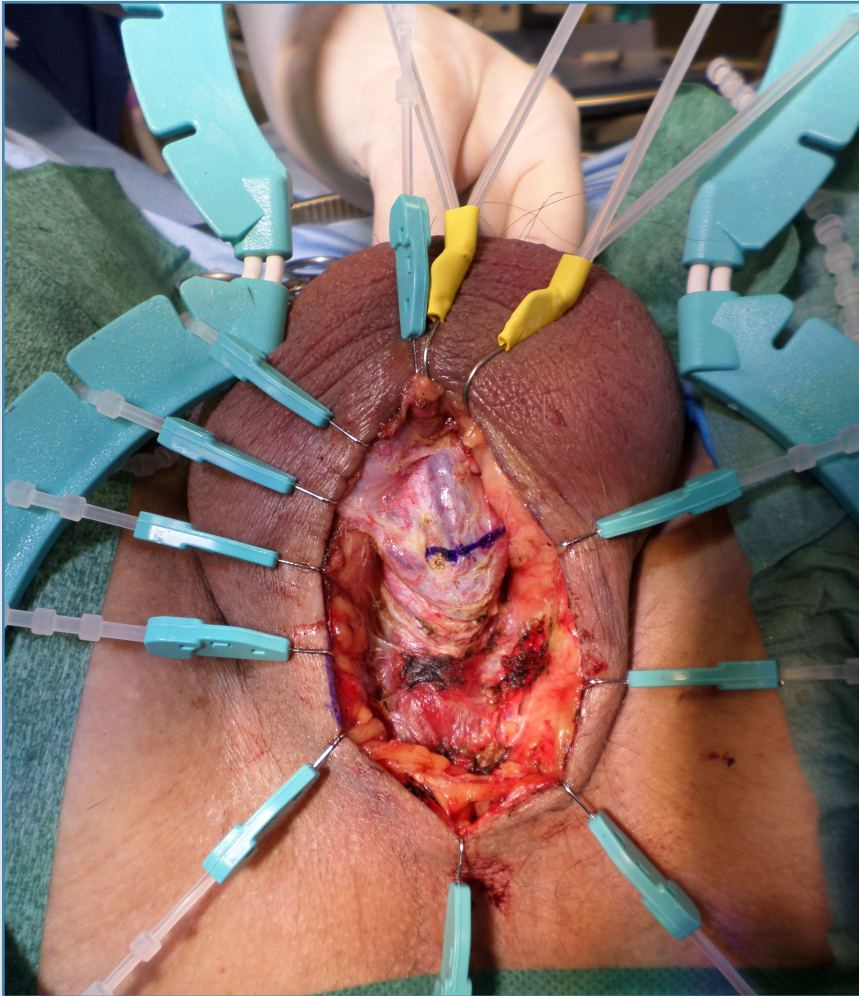


Perineal approach

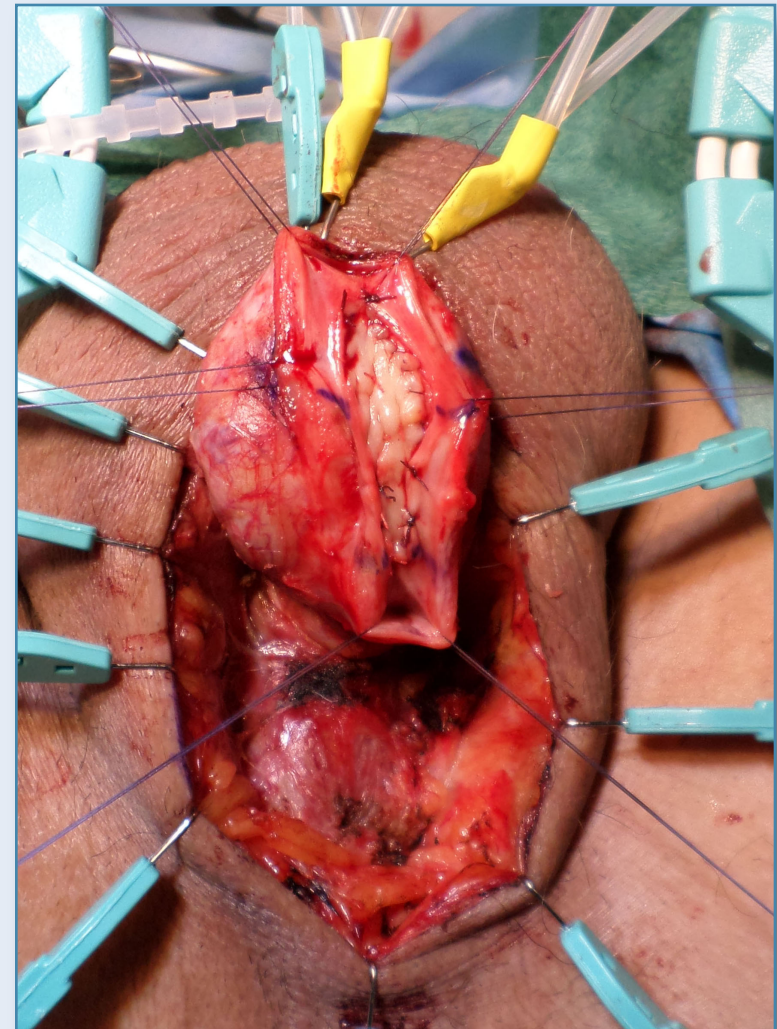
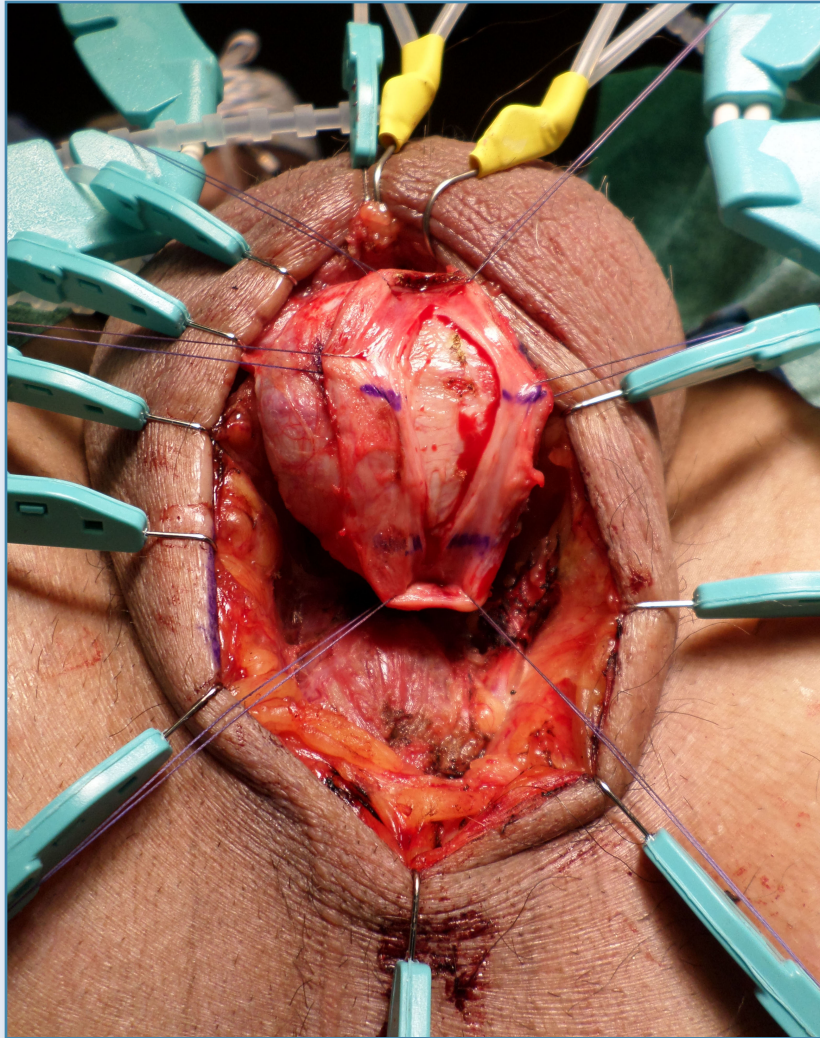
New Penile One-stage Urethroplasty



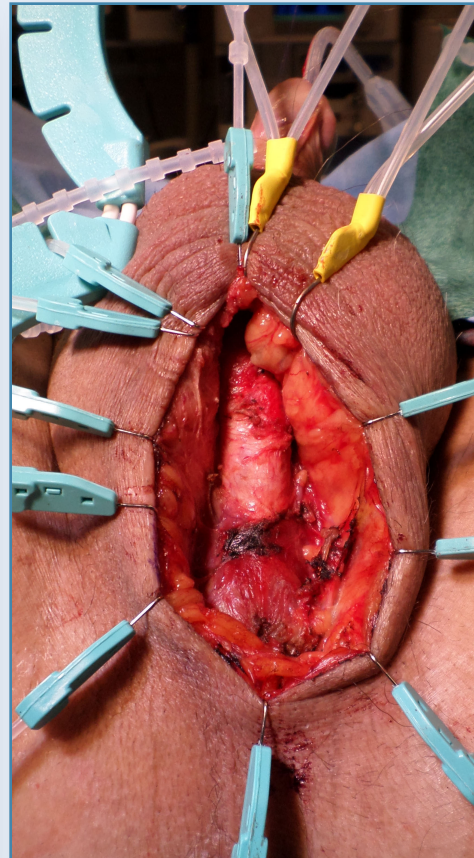
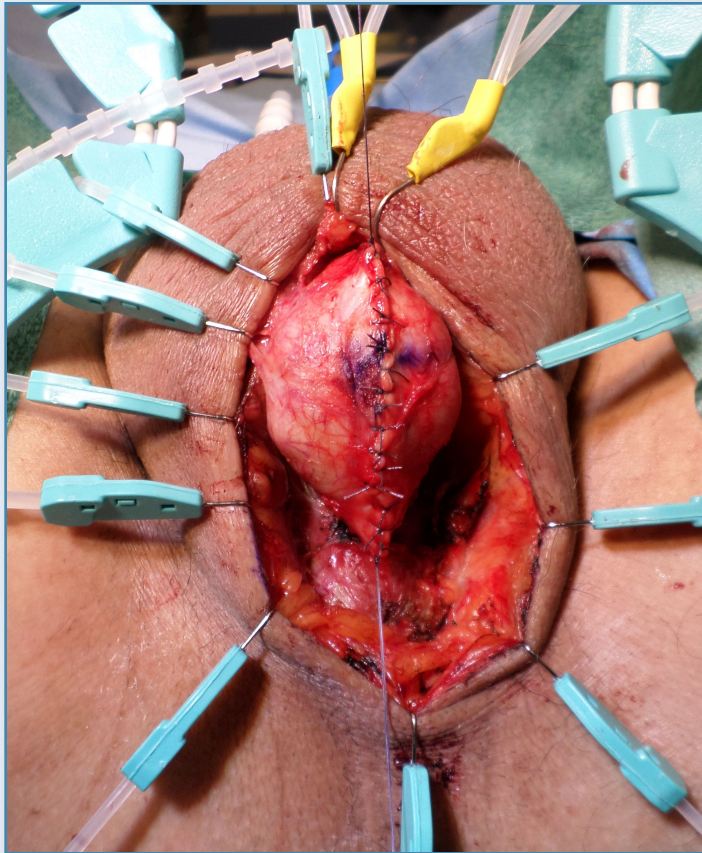
New Penile One-stage Urethroplasty



New Penile One-stage Urethroplasty



New Penile One-stage Urethroplasty



Two-Stage Penile Urethroplasty

When use the oral mucosa at the first stage ?

No



Failed hypospadias
Other etiology



Yes



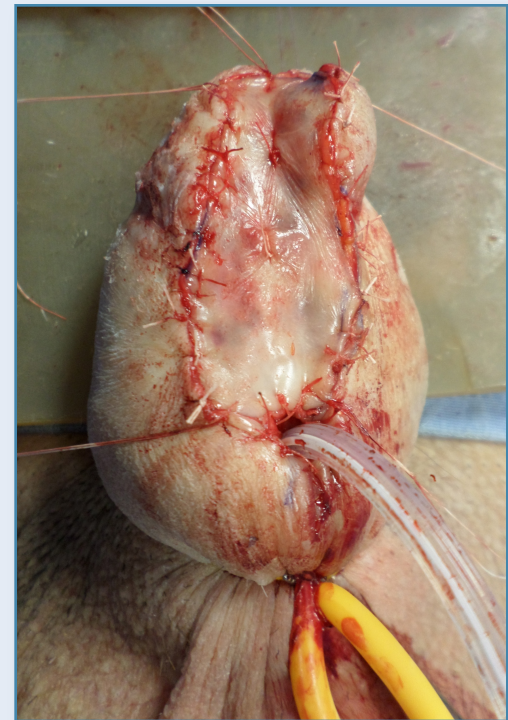
Lichen sclerosus

Two-Stage Penile Urethroplasty

When use the oral mucosa at the first stage ?

Lichen sclerosis

Yes



Two-Stage Penile Urethroplasty

When use the oral mucosa at the first stage ?

**Failed hypospadias
Other etiology**

No

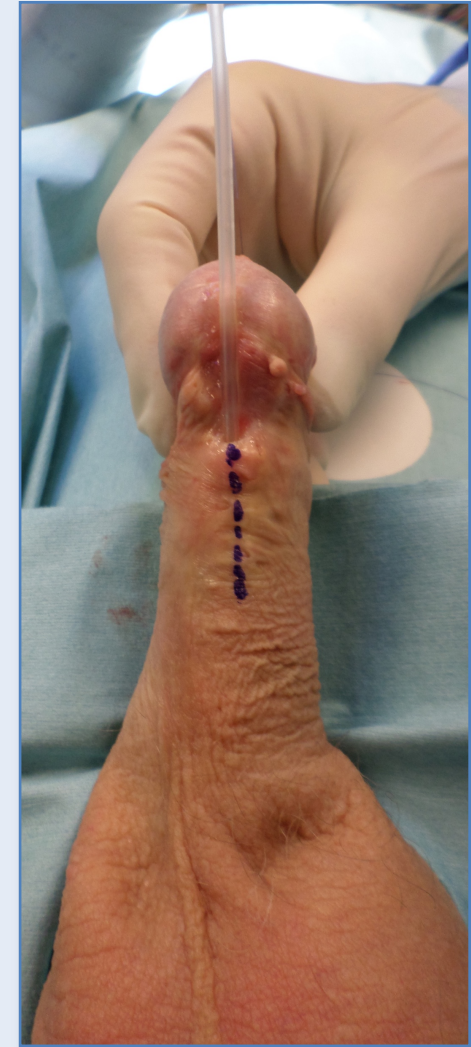


**39% of
patients**

Eur Urol 2006; 49: 887-895

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



First Stage – Johanson's Urethroplasty



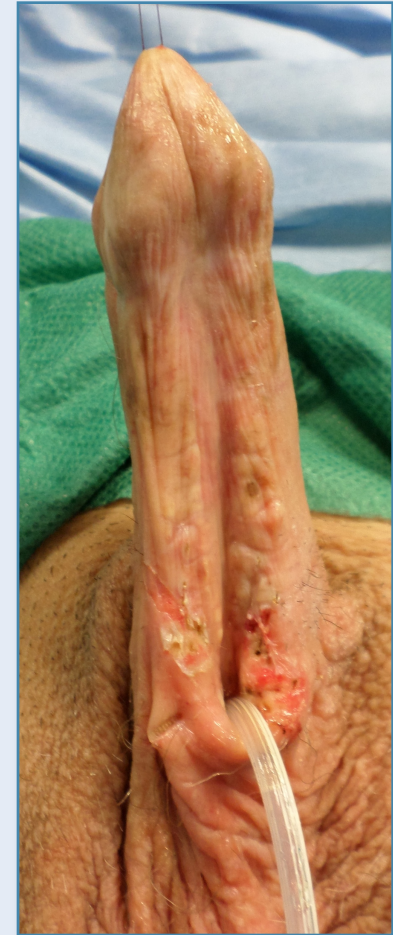
First Stage – Johanson's Urethroplasty



First Stage – Johanson's Urethroplasty



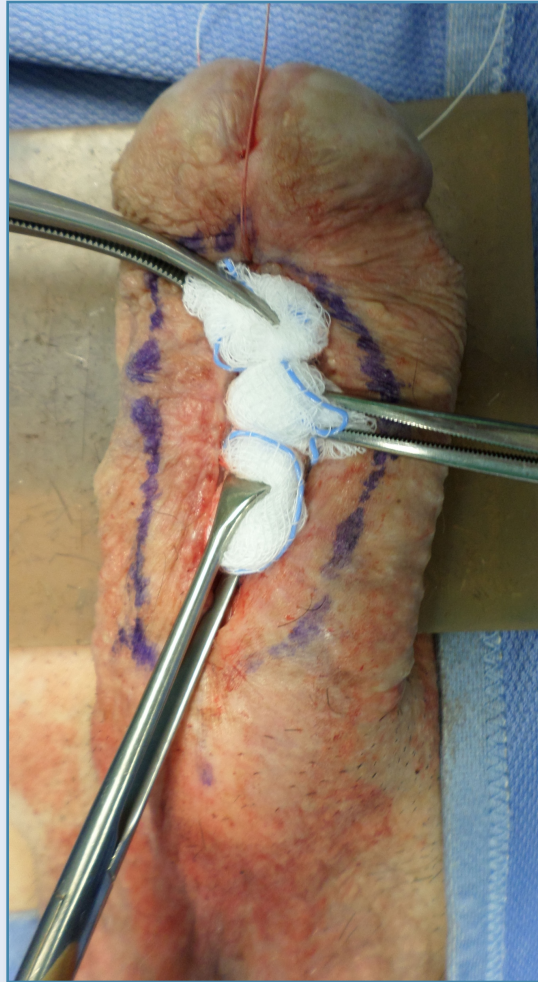
First Stage – Johanson's Urethroplasty



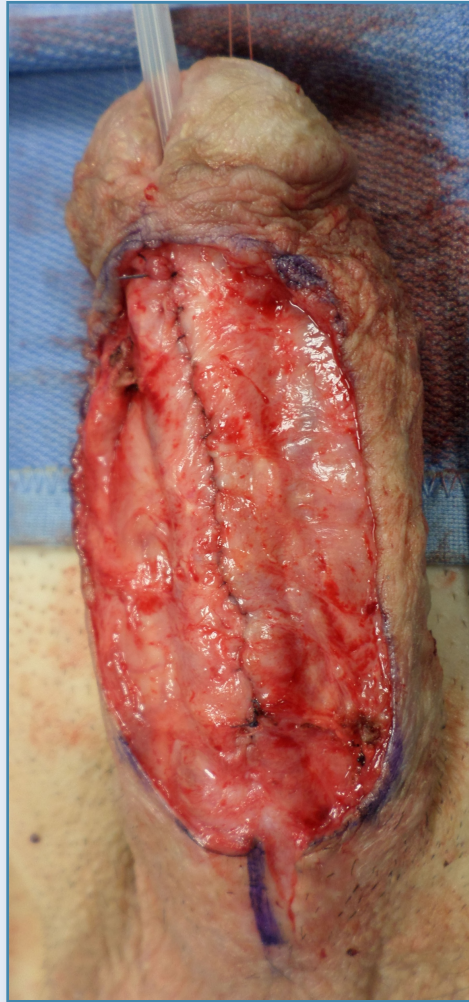
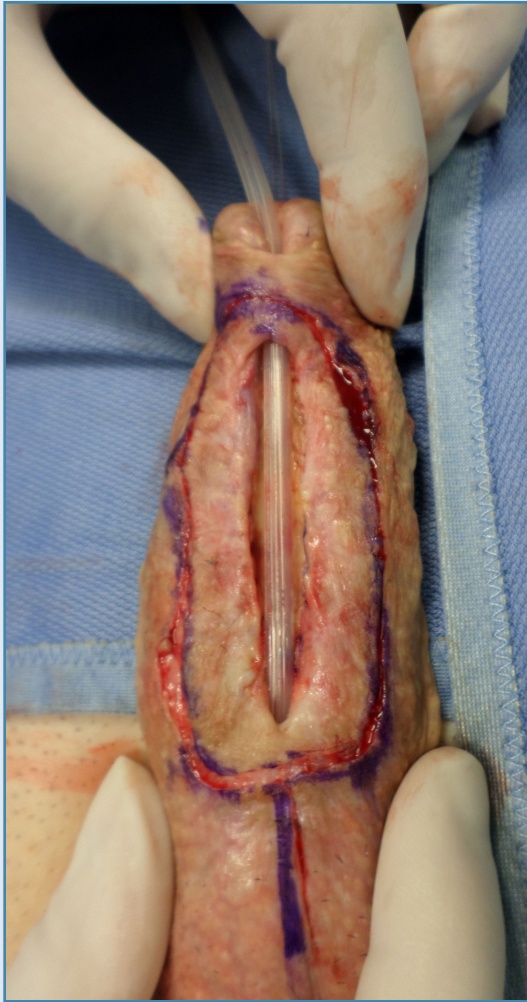
Second Stage – Oral Graft Inlay Urethroplasty



Second Stage – Oral Graft Inlay Urethroplasty



Second Stage – Oral Graft Inlay Urethroplasty



One-Stage Penile Urethroplasty

“ The use of graft vs flap and perineal vs penile approach may help you to avoid unsatisfactory post-operative complications. “



Take home message

Two-Stage Penile Urethroplasty

“ The use of oral mucosal graft only at the second stage-urethroplasty may help you to avoid retraction of the graft, requiring more revisions of the first-stage urethroplasty.”



Take home message

Conclusions



It is difficult to standardize the surgical therapeutic strategy in patients with penile urethral stricture and many factors should be take into consideration before to plan the surgery.

Conclusions

Stricture etiology

Radiological features

Features of the penis and genitalia

Surgeon background and experience/preference

Patient age and expectations

Patient co-morbidity

Patient psychological status