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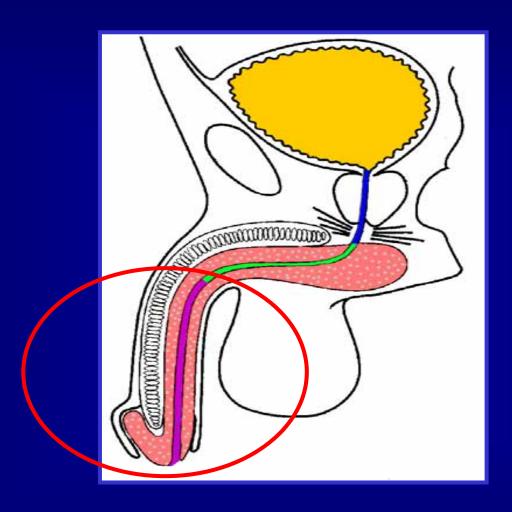
Website: www.urethralcenter.it

Penile urethroplasty





Penile urethroplasty



One-stage or two-stage repair?





In patients with penile urethral strictures due to:



trauma

instrumentation

catheter

infection



the penis is normal: one-stage repair



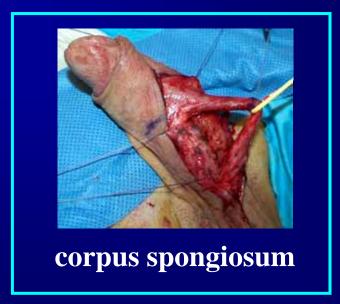


Penis is normal



glans penile skin









In patients with penile urethral strictures due to:



failed hypospadias

lichen sclerosus



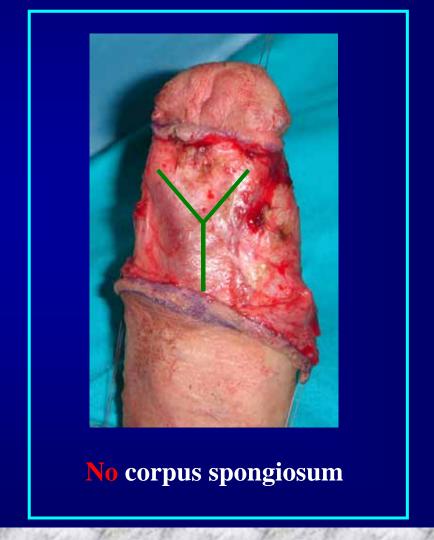
the penis is abnormal: two-stage repair





Penis in patients with failed hypospadias repair









Penis in patient with lichen sclerosus



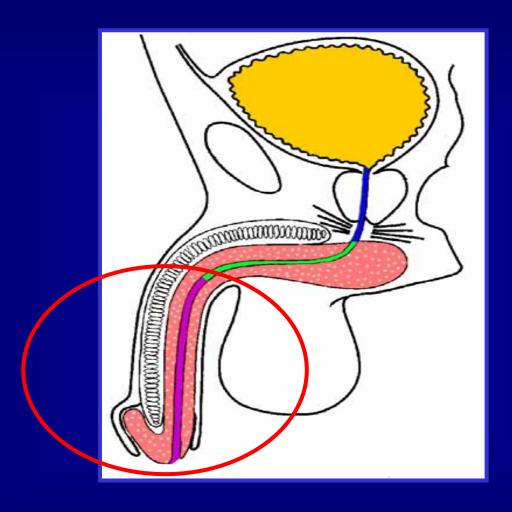
Glans and penile skin are fully involved in the disease



Corpus spongiosum and dartos fascia are fully involved in the disease



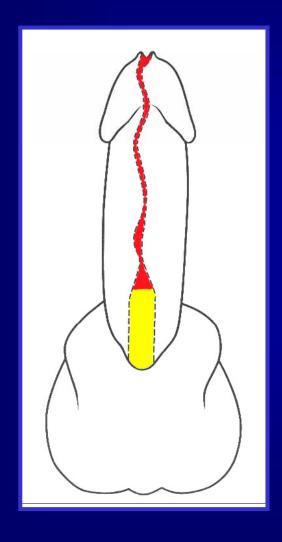
One-stage penile urethroplasty



Flap or graft?



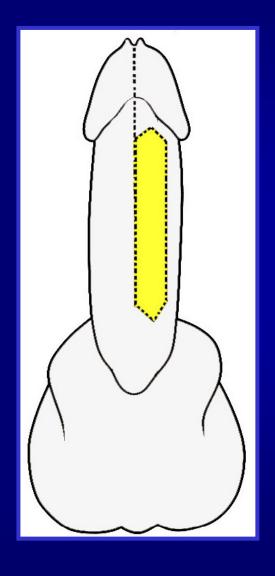








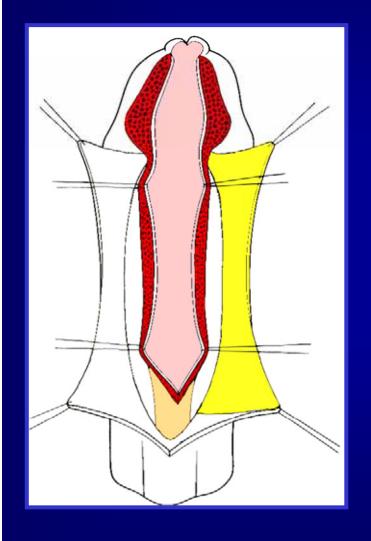


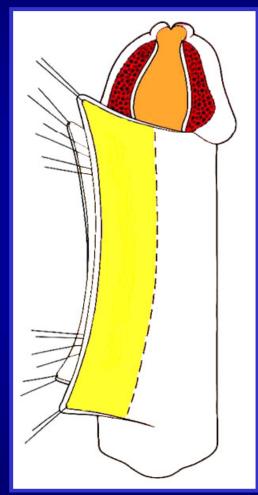






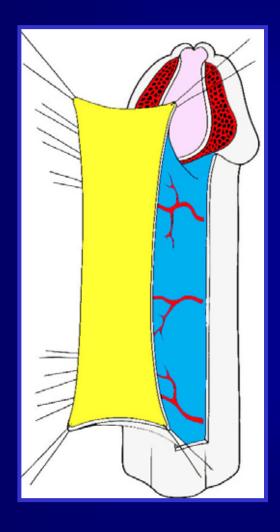


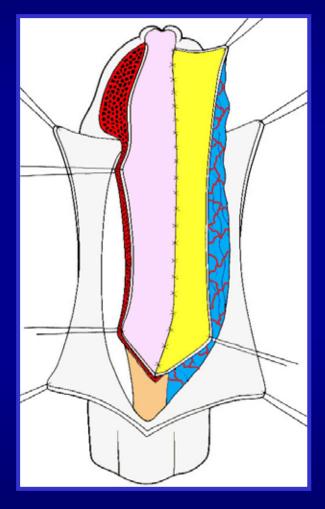










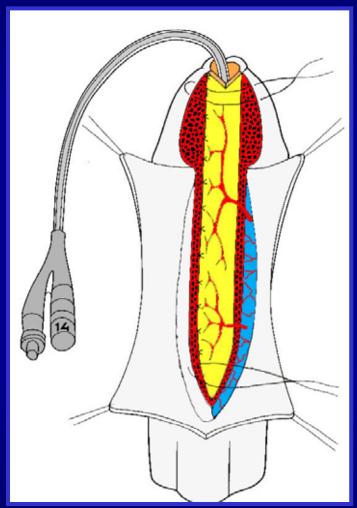








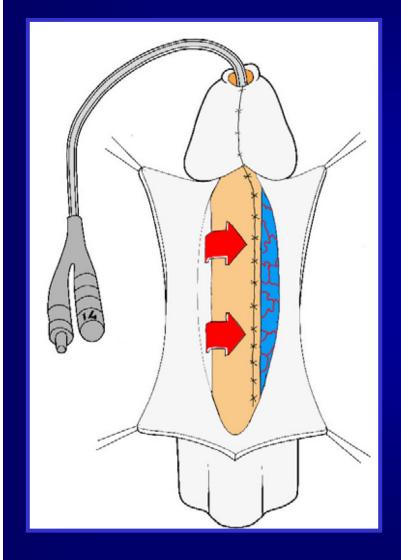










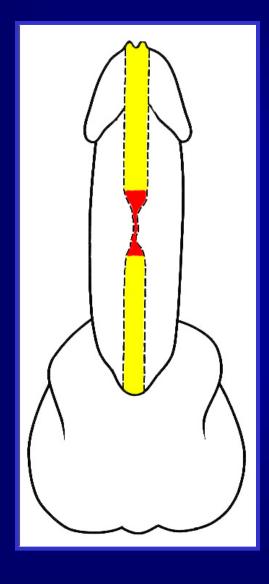








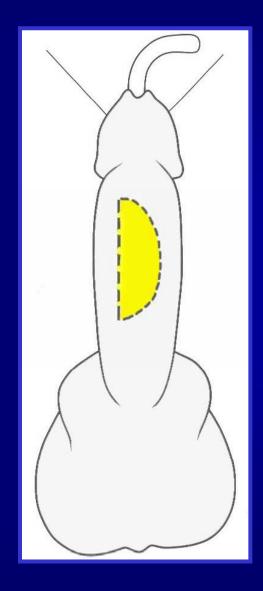








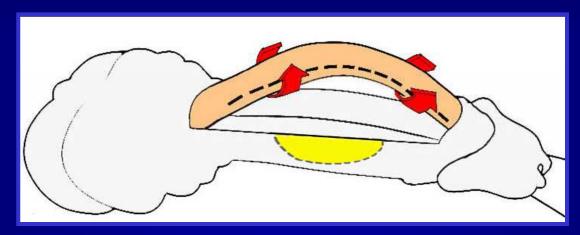








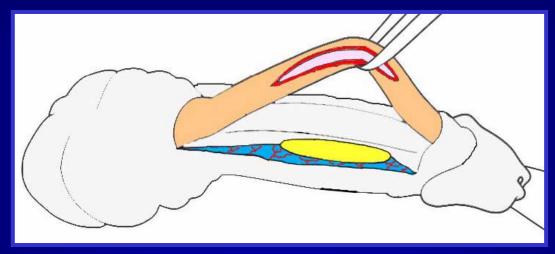








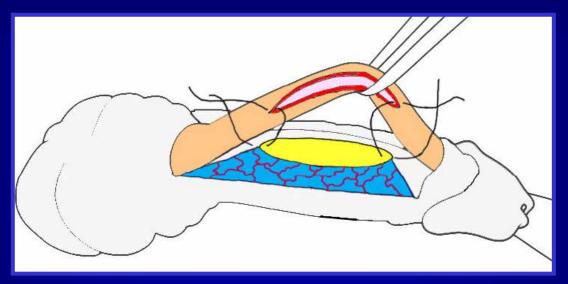


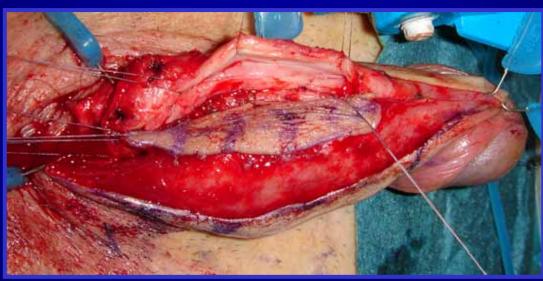






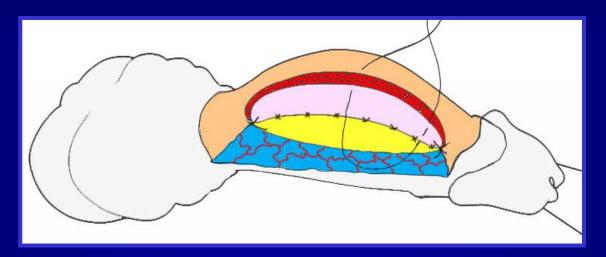








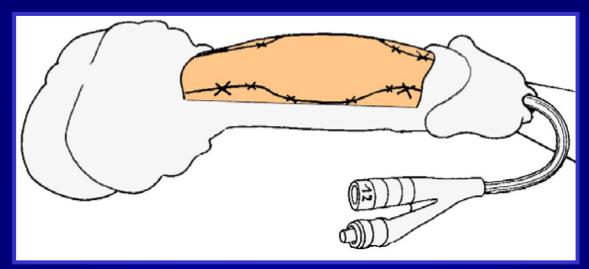
















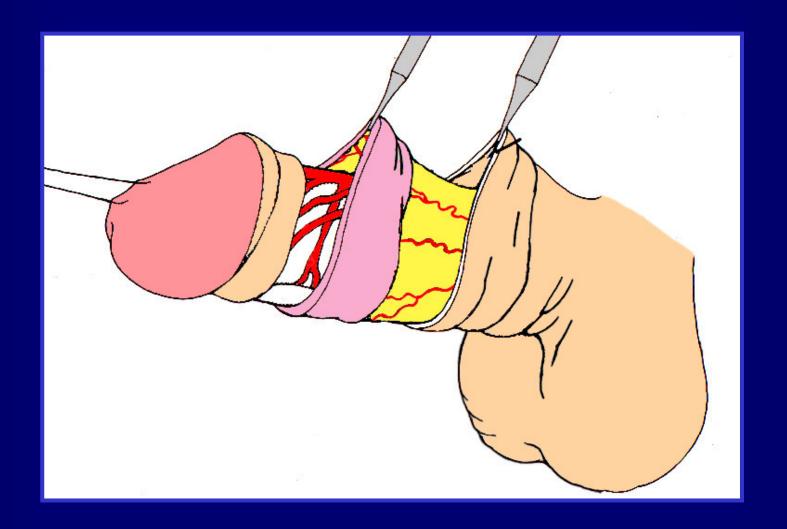






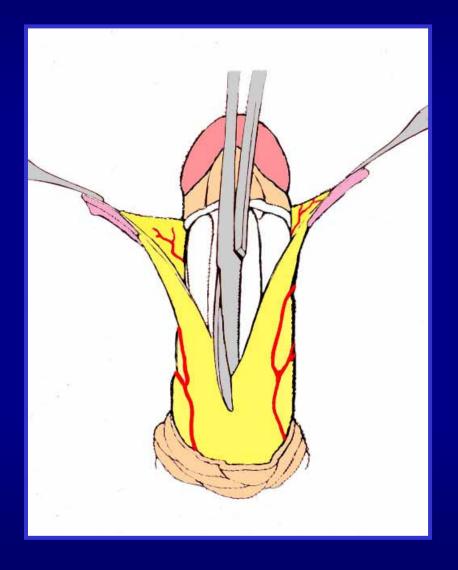






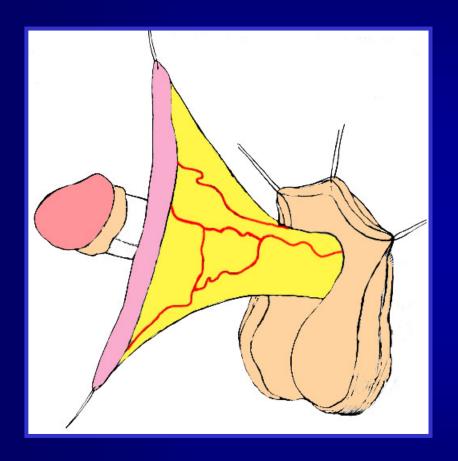


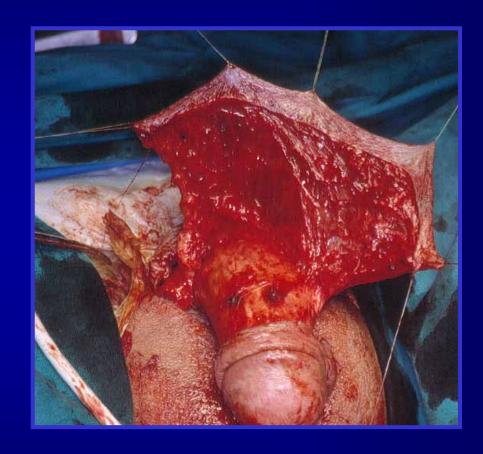






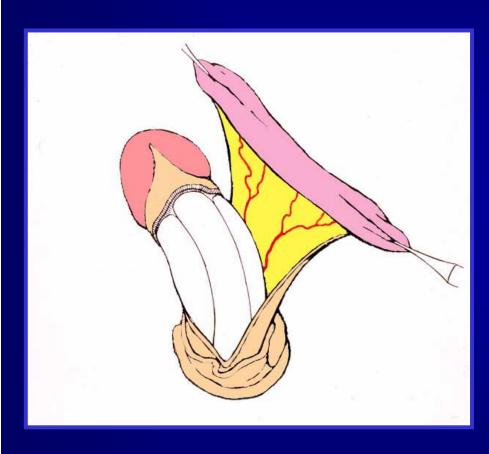


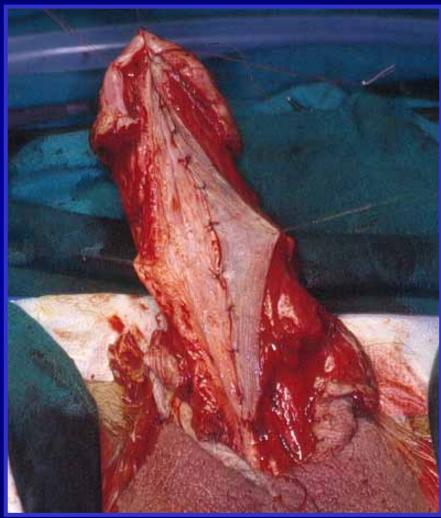






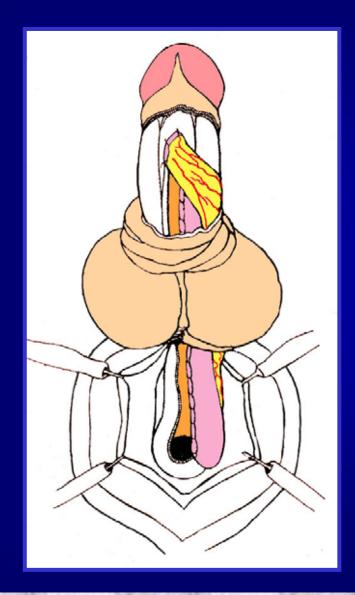


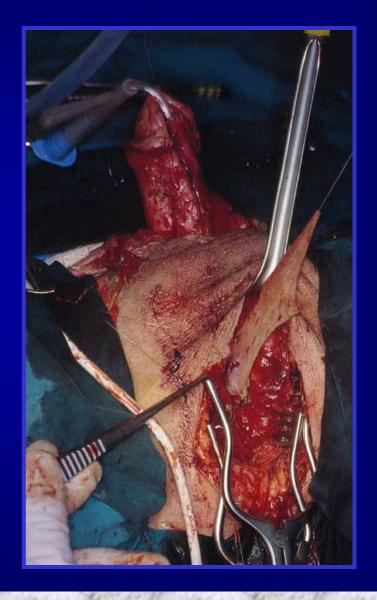






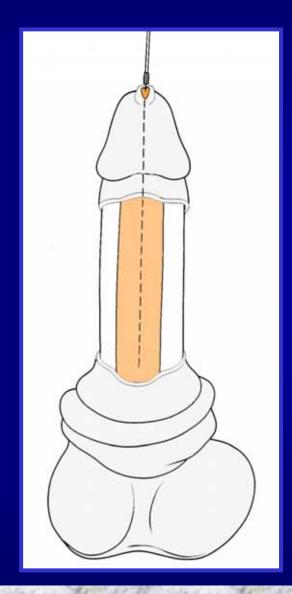






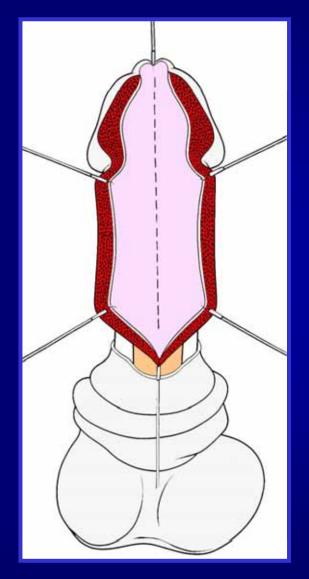








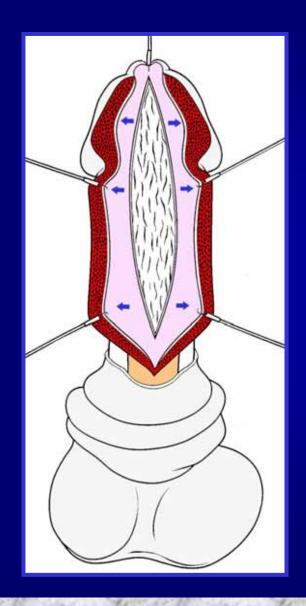








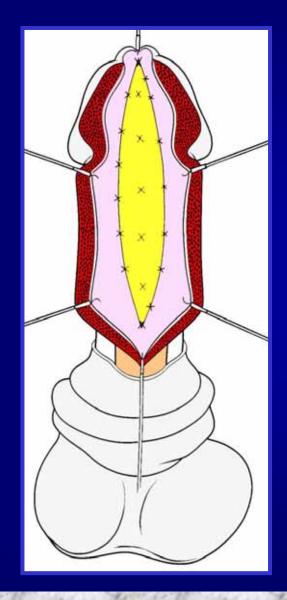








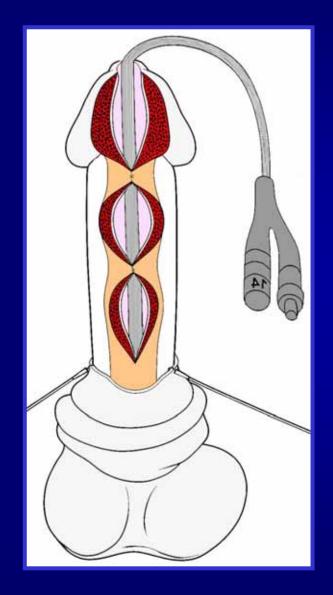


















Complications following flap urethroplasty















Complications following graft urethroplasty



infection



meatal stenosis



fistula





One-stage penile flap or graft urethroplasty

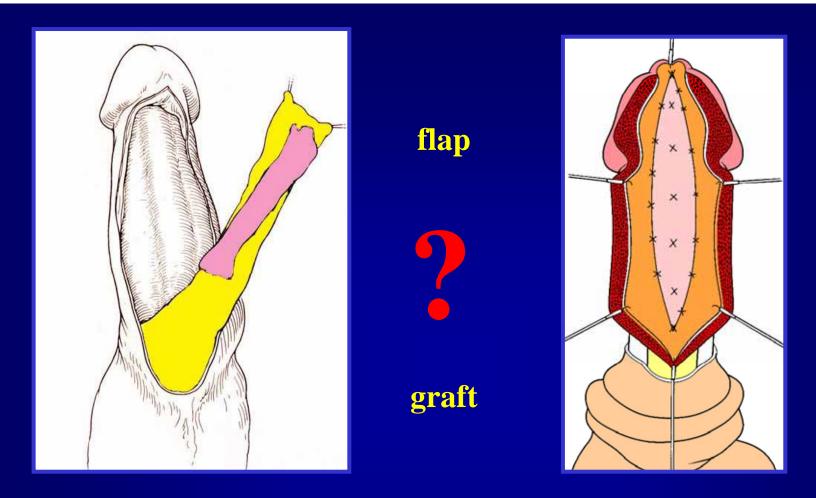
Results

patients	type of repair	success
18	flap	66.7%
22	oral graft	81.8%
23	skin graft	78.3%

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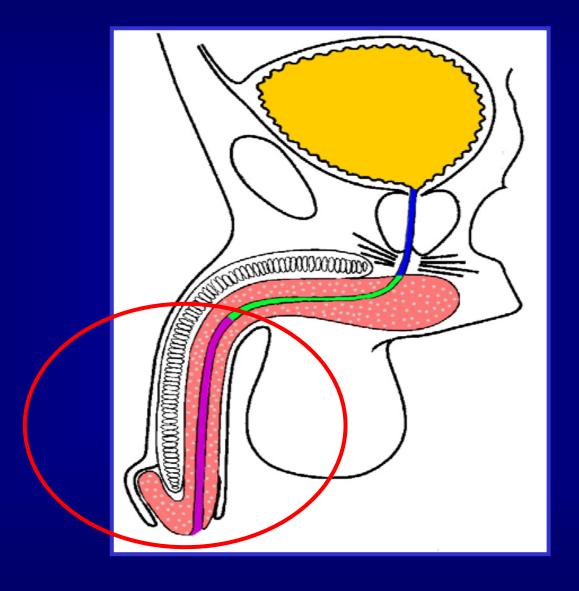


Basically, the choice between flap or graft one-stage urethroplasty should be made according to the status of the urethral plate and according to the surgeon background, training and preference





Two-stage penile urethroplasty







Two-stage urethroplasty using oral mucosal graft























Complications following the first stage of urethroplasty





10-39% of patients showed contracture or scarring of the initial graft, requiring new grafting procedures

Barbagli et al., Eur Urol, 2006





Second stage



















Complications following the second stage of urethroplasty



fistula



glans dehiscence



meatal stenosis

30% of patients showed complications following the second stage of urethroplasty, requiring surgical revision

Barbagli et al., Eur Urol 2006





Results of two-stage penile urethroplasty in patients with failed hypospadias repair

Surgical techniques	N°	Success		Failure	
Two-stage techniques with penile skin	14	7	50%	7	50%
Two-stage techniques with oral mucosa	17	14	82.3%	3	17.6%
TOTAL	31	21	67.7%	10	32.3%

Barbagli et al., Eur Urol 2006





Conclusions

Two-stage penile urethroplasty using oral graft is not a simple procedure and require a great expertise to avoid a lot of traps

Moreover, this two-stage procedure, also in the hands of skilled surgeon, showed an high complications rate either following the first stage or the second stage





www.urethralcenter.it



What can you find in www.urethralcenter.it?

- Up-to-date Information on urethral pathology and surgery
- Everything you need to know about urethral stricture diseases
- · How to make a diagnosis
- · All the surgical techniques performed at our Center
- · An up-to-date database of surgical outcome
- · Information and opportunities for "hands-on" training
- · Up-to-date literature
- . The articles published by Guido Barbagli
- The books published by Guido Barbagli
- The lectures presented by Guido Barbagli at Meetings and Congress
- . The history of urethral surgery
- · An Atlas of Surgical Techniques
- Video
- · Comments and suggestion for the urologists of XXI century
- · ... and more!

The website is up-to-date monthly

Next month, this lecture will be fully available in our website

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