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Dedicated to John Quartey, respected colleague and friend. His passing is a great personal as well as professional loss.

Professor John Quartey, FRCS

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Buccal mucosal urethroplasty: how to do it
Harvesting buccal mucosal graft from the inner cheek
The patient is intubated through the nose, allowing the mouth to be completely free.
Two surgical teams work simultaneously
Two sets of surgical instruments

Buccal mucosa

Urethroplasty

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Appropriate mouth retractor

Only one assistant is needed to harvest the buccal graft
length 4 cm – width 2.5 cm
Advantages of the double team

- decrease of contamination in surgery
- decrease of surgical time to ~ one hour
- provides training opportunity for a young assistant interested in learning urethral surgery
The surgical technique for the repair of penile urethral strictures is selected according to the stricture etiology.
Etiology of penile urethral strictures in 404 patients

- Failed hypospadias repair 40%
- Lichen sclerosus 40%
- Trauma
- Instrumentation
- Catheter
- Infection
- Other causes

80%

20%

Barbagli 2006, unpublished data
In patients with penile urethral strictures due to:

- trauma,
- instrumentation,
- catheter,
- infection
and other causes

penis is normal
One-stage dorsal inlay buccal mucosal graft urethroplasty
In patients with penile urethral strictures due to:

- failed hypospadias repair
- lichen sclerosus

penis is abnormal

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Multi-stage buccal mucosal graft urethroplasty

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The surgical technique for the repair of bulbar urethral strictures is selected according to stricture length.
Dorsal onlay techniques:

- Augmented roof-strip anastomosis
- Dorsal onlay graft urethroplasty

Ventral onlay technique
Preparation of the patient

Allen stirrups with sequential inflatable compression sleeves

Simple lithotomy position
Augmented roof-strip anastomosis using buccal mucosal graft with fibrin glue
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Dorsal onlay buccal mucosal graft urethroplasty with fibrin glue
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Ventral onlay buccal mucosal graft urethroplasty
I showed you the surgical techniques currently suggested for the repair of penile and bulbar urethral strictures using buccal mucosal grafts.

What approach to take will be decided by you, your experience, your surgical background and your patients’ expectations.

There is nothing more I can tell you!

Thank you.
Madonna del Parto - Piero della Francesca
Monterchi - Arezzo

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