CENTER FOR RECONSTRUCTIVE URETHRAL SURGERY

GUIDO BARBAGLI, M.D. Arezzo - Italy

e-mail: info@urethralcenter.it

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



Joint Session of the European Association of Urology (EAU) and the Iranian Urological Association (IUA)

Urethral Surgery

What I should do in urethroplasty



Oral mucosa

www.uretra.it e-mail: info@urethralcenter.it Websites: www.urethralcenter.it

Oral mucosa: harvesting sites



Harvesting site from the lip: visible to the naked eye



Negative aesthetic consequences

Unsatisfactory post-operative patient acceptance

www.uretra.it e-mail: info@urethralcenter.it Websites: www.urethralcenter.it

Oral mucosa: surgical technique



Two surgical teams work simultaneously

e-mail: info@urethralcenter.it Wel

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

Oral mucosa: surgical technique



Appropriate mouth retractor



Only one assistant is needed to harvest the oral graft

www.uretra.it e-mail: info@urethralcenter.it Websites: www.urethralcent<u>er.it</u>



e-mail: info@urethralcenter.it Websites:

www.uretra.it

Oral mucosa: surgical technique







One-stage techniques: ovoidal graft shape

www.uretra.it e-mail: info@urethralcenter.it Websites: www.urethralcenter.it

Oral mucosa: surgical technique







Staged techniques: rectangular graft shape



The oral mucosa is the best material for

urethral

reconstruction.

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

e-mail: info@urethralcenter.it

Oral mucosal grafts

right cheek	5 x 2.5 cm
left cheek	5 x 2.5 cm
tongue	4 x 2.5 cm
	4 x 2.5 cm



18 cm x 2.5 cm

e-mail: info@urethralcenter.it Websites: www.uretra.it www.urethralcenter.it

Harvesting site





Oral mucosa concealed

Harvesting site







Skin >>> visible to the naked eye

Oral mucosa: biological characteristics

Easy to adapt for any type of urethroplasty



What I should do in urethroplasty



Penile urethroplasty

www.uretra.it e-mail: info@urethralcenter.it Websites: www.urethralcenter.it







Minimally invasive techniques using oral graft







One-stage technique

e-mail: info@urethralcenter.it

Websites: www.ure

www.uretra.it www.urethralcenter.it







One-stage technique

e-mail: info@urethralcenter.it Websites: W

www.uretra.it www.urethralcenter.it





One-stage technique











Staged urethroplasty (first stage - Johanson)





Staged urethroplasty (second stage)





Staged urethroplasty (second stage)





Staged urethroplasty (second stage)

What I should do in urethroplasty





NO

e-mail: info@urethralcenter.it

Websites:

www.uretra.it www.urethralcenter.it

What I should do in urethroplasty



Bulbar urethoplasty

e-mail: info@urethralcenter.it <

Websites: www.u

www.uretra.it www.urethralcenter.it



Simple lithotomy position









Allen stirrups with sequential inflatable compression sleeves

What I should do in urethroplasty





NO

e-mail: info@urethralcenter.it

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



Pre-operative urethroscopy



Insert Sensor guide wire

e-mail: info@urethralcenter.it Websites: www.ure

www.uretra.it s: www.urethralcenter.it



Insert Sensor guide wire

e-mail: info@urethralcenter.it

Websites: www

www.uretra.it www.urethralcenter.it



Inject methylene blue inside the urethra

(G. Webster)

e-mail: info@urethralcenter.it

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





Calibrate the distal urethra and identify the distal stop



Transect or not transect the urethra?

Ventral or dorsal graft?

e-mail: info@urethralcenter.it

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

End-to-end anastomosis Augmented anastomotic repair

Instrumentation Catheter Infection Other

Oral mucosa onlay

e-mail: info@urethralcenter.it Websites:

1 - 2 cm traumatic bulbar urethral stricture



End-to-end anastomosis







distal end







www.uretra.it e-mail: info@urethralcenter.it Websites: www.urethralcenter.it

proximal end









2 - 4 cm traumatic bulbar urethral stricture





Augmented anastomotic repair

















Trauma

End-to-end anastomosis Augmented anastomotic repair

Instrumentation Catheter Infection Other

Oral mucosa onlay



www.uretra.it e-mail: info@urethralcenter.it Websites: www.urethralcenter.it



Muscle and nerve-sparing ventral onlay graft bulbar urethroplasty



e-mail: info@urethralcenter.it

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





e-mail: info@urethralcenter.it

Websites: www.

www.uretra.it





e-mail: info@urethralcenter.it

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







e-mail: info@urethralcenter.it

Websites: www.ure

www.uretra.it www.urethralcenter.it











e-mail: info@urethralcenter.it



By courtesy of S. SPITZER and BJU Int

e-mail: info@urethralcenter.it

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





e-mail: info@urethralcenter.it



e-mail: info@urethralcenter.it



e-mail: info@urethralcenter.it





e-mail: info@urethralcenter.it

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







e-mail: info@urethralcenter.it Webs

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

ER)

Patients: 219 (Mean age 39 years)

Mean follow-up 51 months (12 - 139)



success	187 (85.4%)
failure	32 (14.6%)

e-mail: info@urethralcenter.it Websit



Muscle and nerve-sparing dorsal onlay graft bulbar urethroplasty
























e-mail: info@urethralcenter.it Websites: www.urethralcenter.it ER





e-mail: info@urethralcenter.it Websites: www.urethralcenter.it



e-mail: info@urethralcenter.it

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