

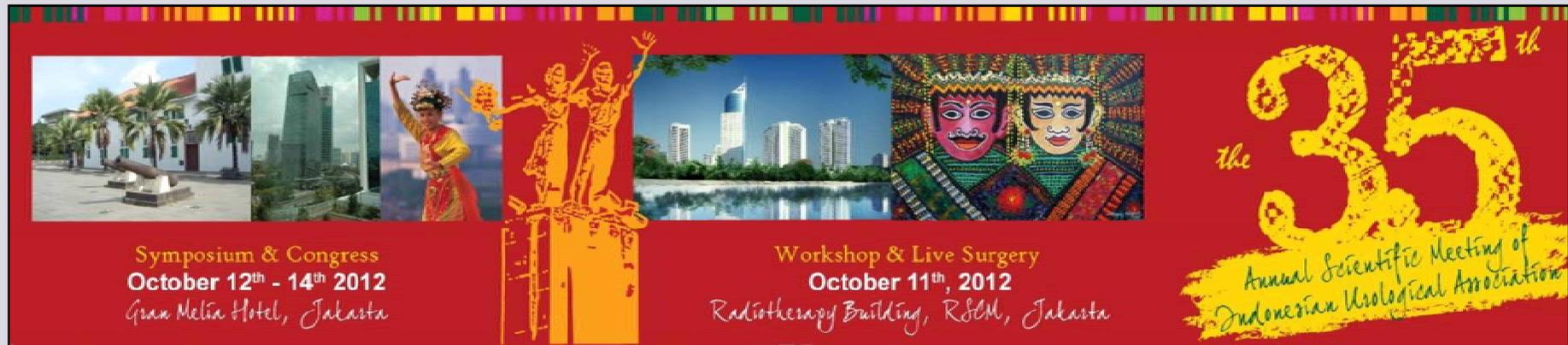
CENTER FOR RECONSTRUCTIVE URETHRAL SURGERY



GUIDO BARBAGLI, M.D.
Arezzo - Italy

e-mail: info@urethralcenter.it

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



35^o Annual Scientific Meeting Indonesian Urological Association

October 11 – 14, 2012

Jakarta - Indonesia

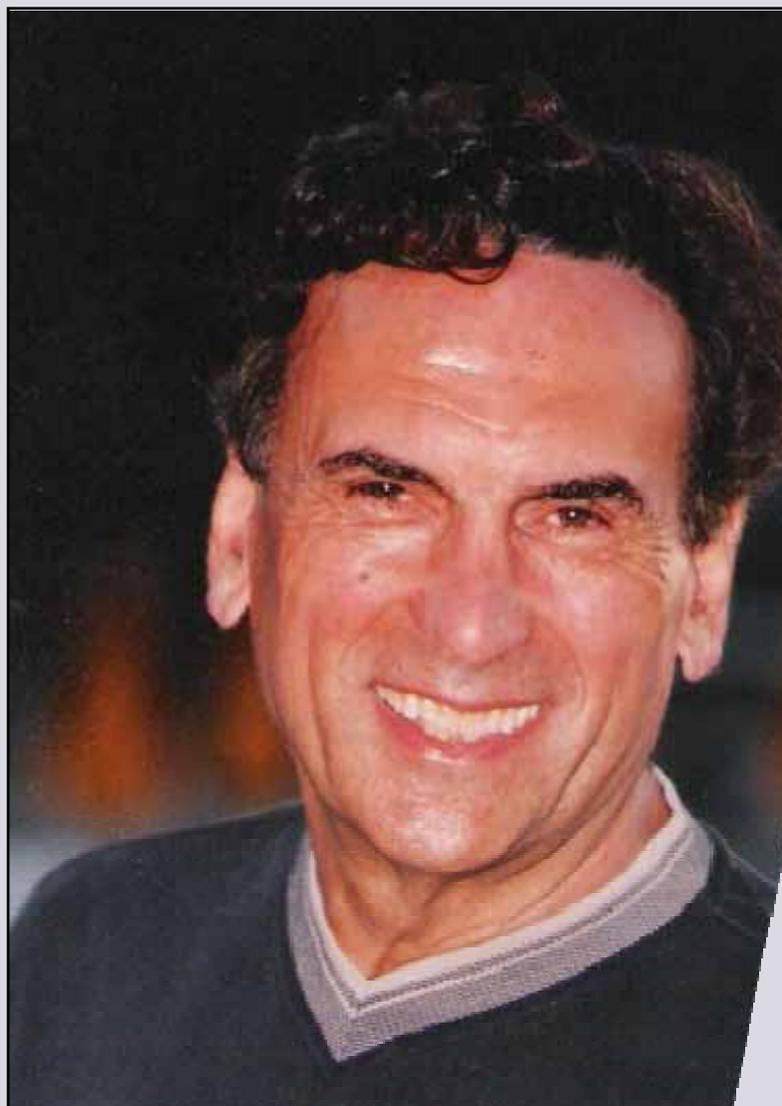
e-mail: info@urethralcenter.it

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

Management of penile urethral strictures

e-mail: info@urethralcenter.it

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



Prof. Sava Perovic – Belgrade - Serbia

e-mail: info@urethralcenter.it

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

The Team



Salvatore Sansalone



Sofia Balò



Giuseppe Romano



Art of
URETHRAL
Reconstruction

Sanjay B. Kulkarni
Guido Barbagli

e-mail: info@urethralcenter.it

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

Penile urethral strictures



Simple

Complex

Simple penile urethral stricture



1. Penis is normal
2. Practicable urethral plate
3. No Lichen Sclerosus
4. No failed hypospadias repair

Complex penile urethral stricture



1. **Genital Lichen Sclerosus**
2. **Failed hypospadias repair**
3. **Previous failed urethroplasty**
4. **No practicable urethral plate**

Surgical repair of penile urethral stricture

Simple  **One-stage repair**



Graft vs flap urethroplasty

Complex  **Staged repair**

Evolution of one-stage penile urethroplasty 1999 - 2001

The use of a dorsal buccal mucosal graft with urethral plate incision (Snodgrass) for hypospadias salvage

M.C. HAYES and P.S. MALONE

Department of Paediatric Urology, Wessex Centre for Paediatric Surgery, Southampton General Hospital, Southampton, UK

BJU Int 1999; 83: 508 - 509

DORSAL FREE GRAFT URETHROPLASTY FOR URETHRAL
STRICTURE BY VENTRAL SAGITTAL
URETHROTOMY APPROACH

HARI S. ASOPA, MUKUL GARG, GOVIND G. SINGHAL, LAKHAN SINGH, JYOTI ASOPA, AND
ARCHANA NISCHAL

Urology 2001; 58: 657 - 659

One-stage penile oral graft urethroplasty



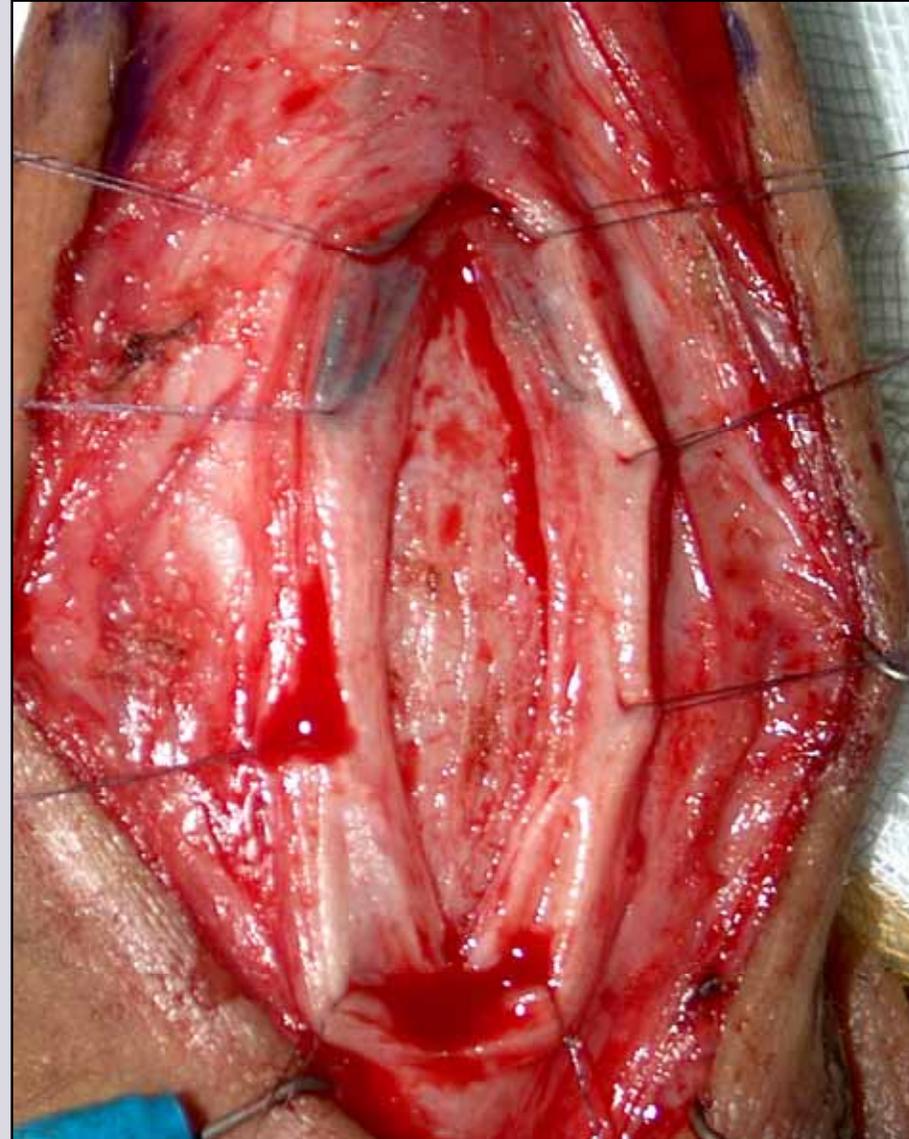
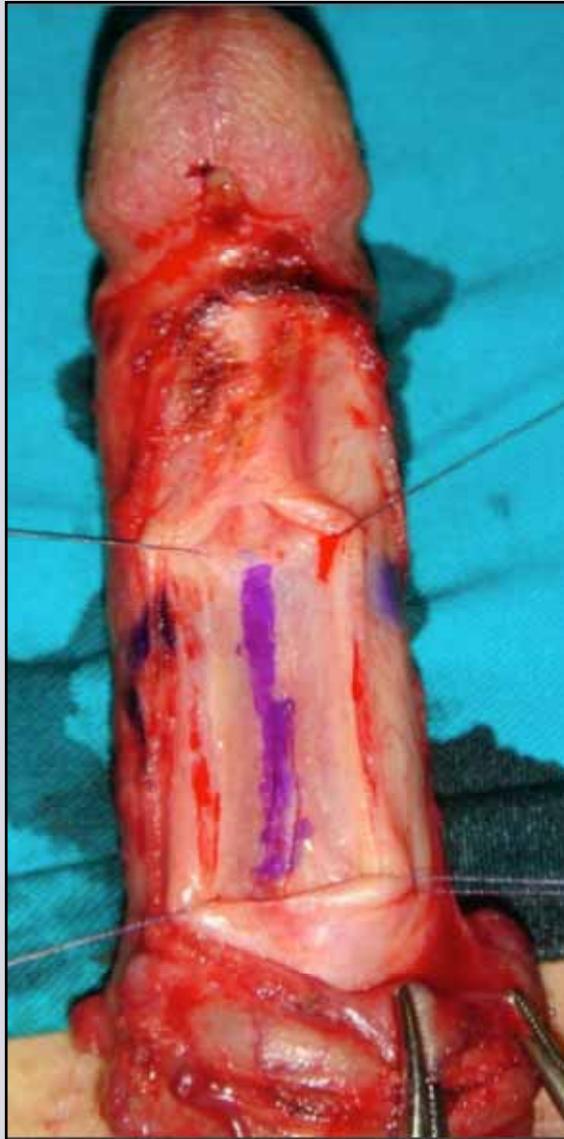
e-mail: info@urethralcenter.it

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



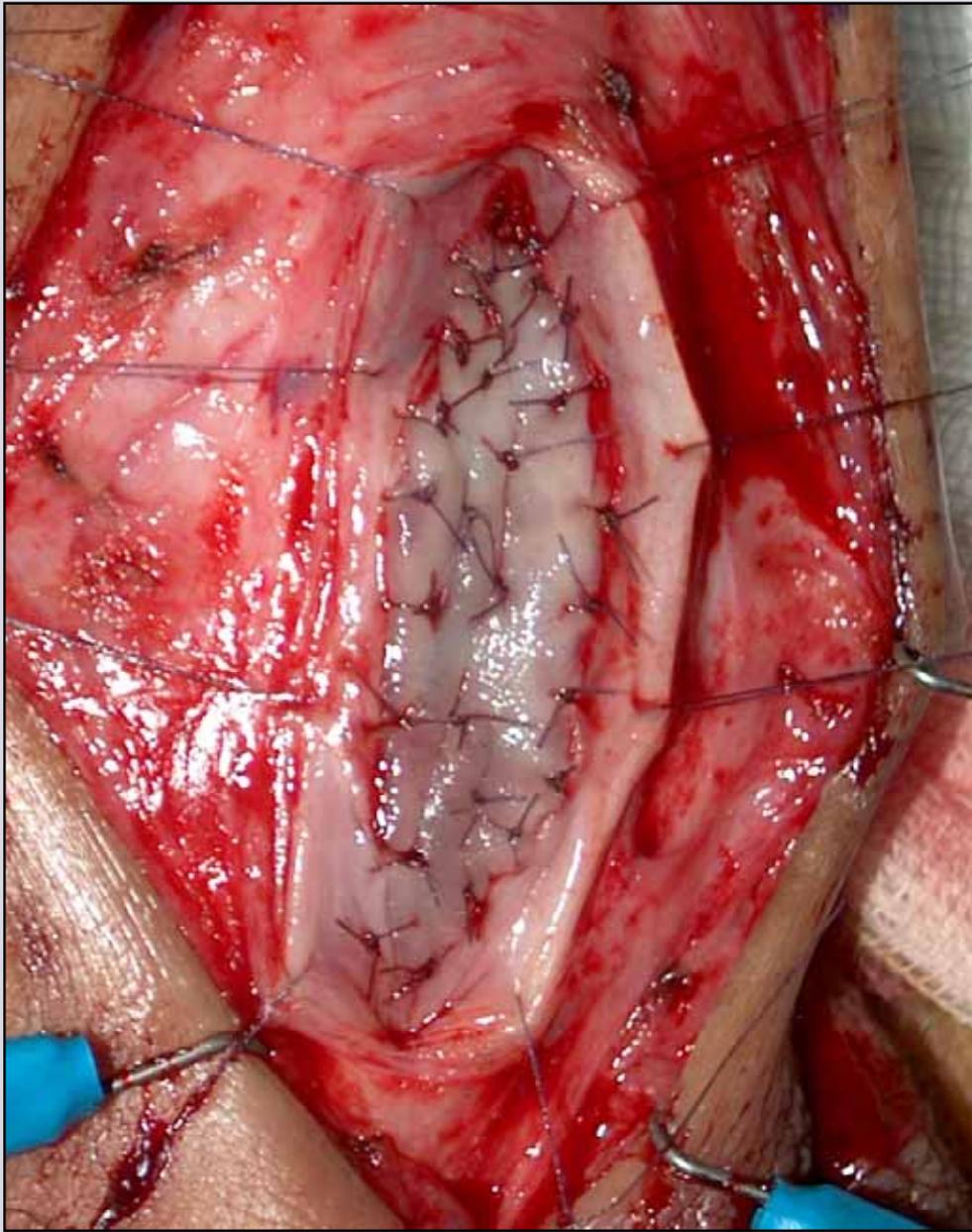
e-mail: info@urethralcenter.it

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



e-mail: info@urethralcenter.it

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



e-mail: info@urethralcenter.it

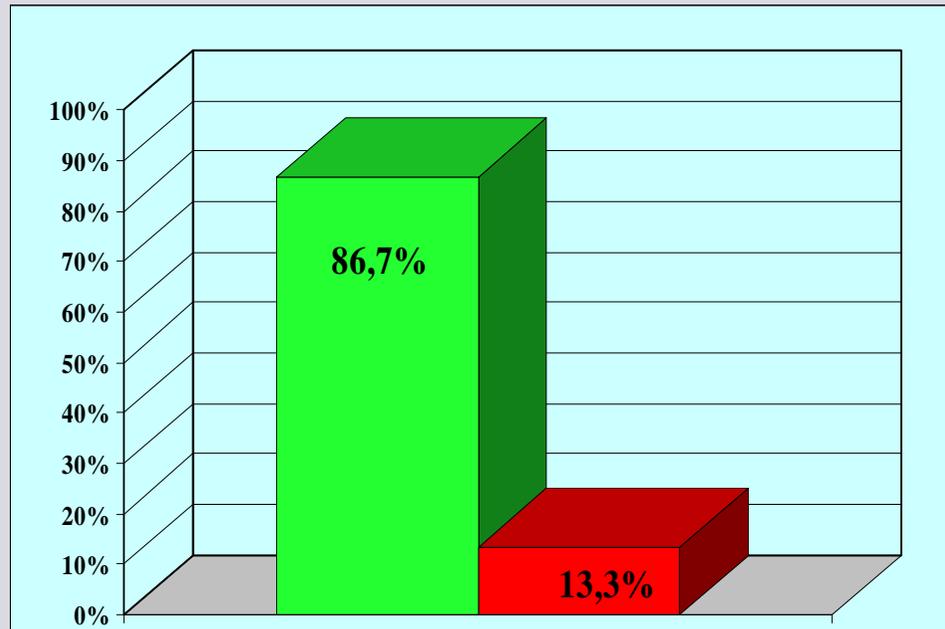
Websites: www.uretra.it
www.urethralcenter.it



e-mail: info@urethralcenter.it

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

Oral graft

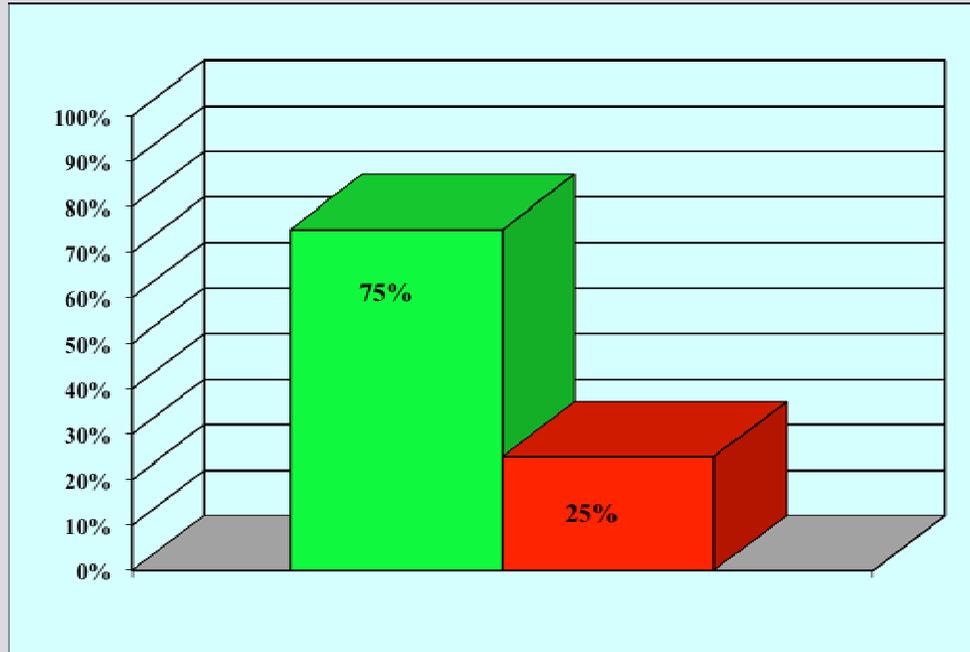


**30
patients**

■ success	26 (86.7%)		
■ failure	4 (13.3%)		
	minimum	maximum	mean
Follow-up (months)	6	129	73
Age (years)	27	78	51

**Updated
December 31, 2011**

Skin graft

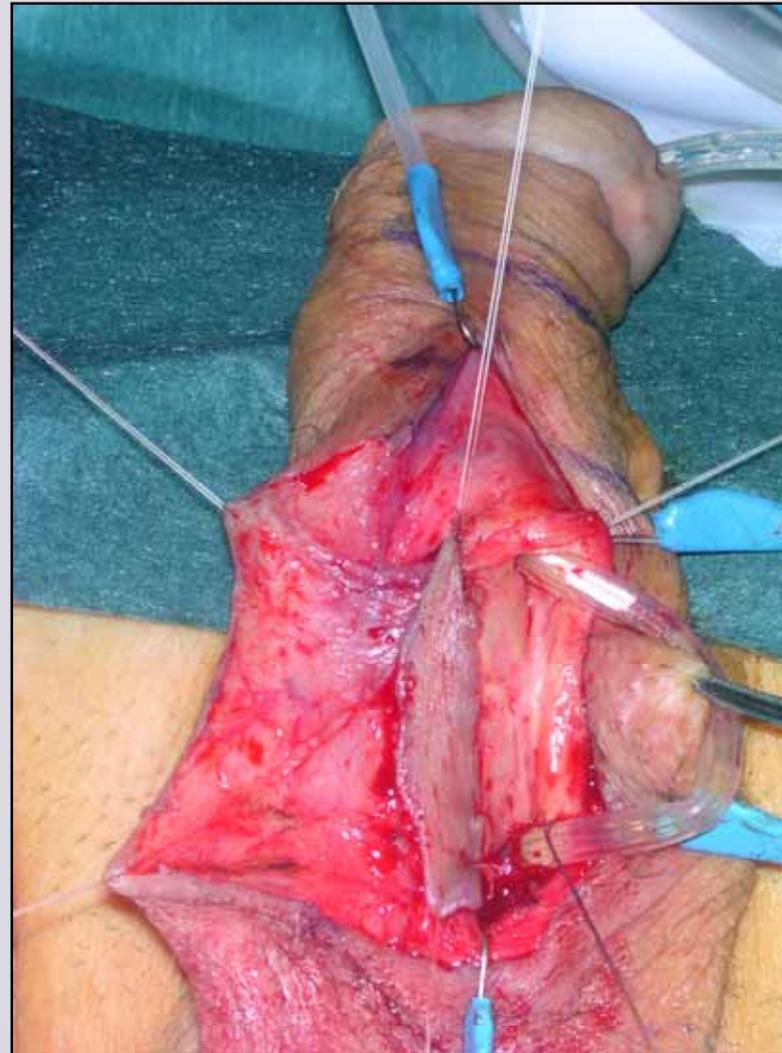


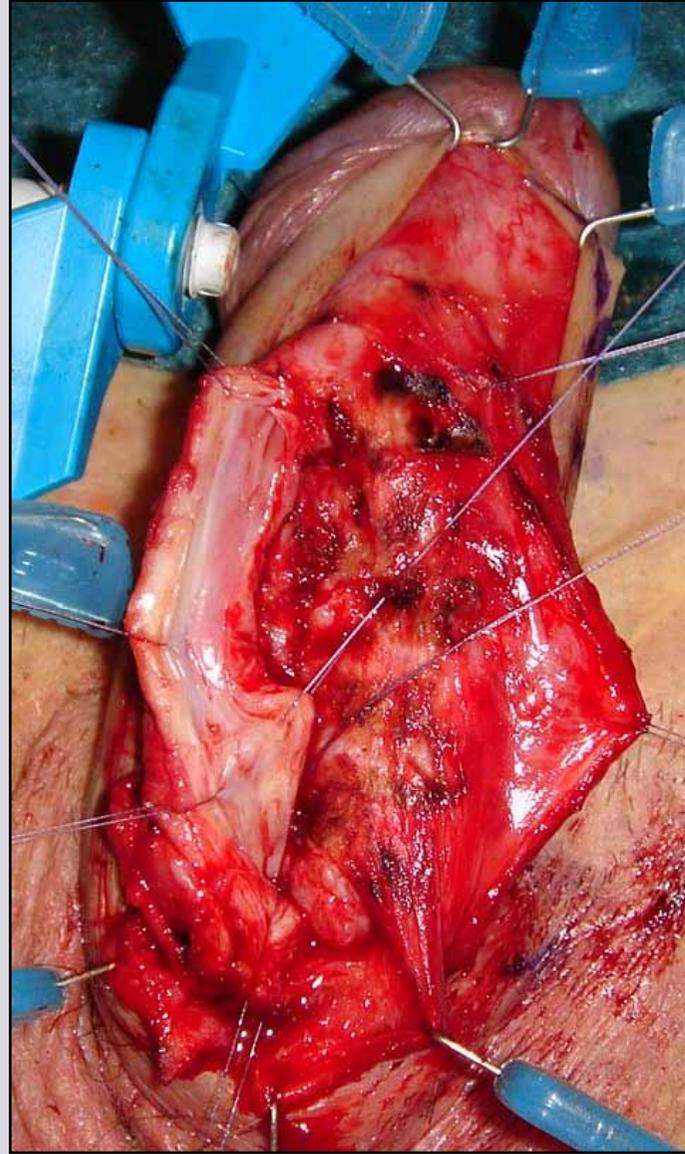
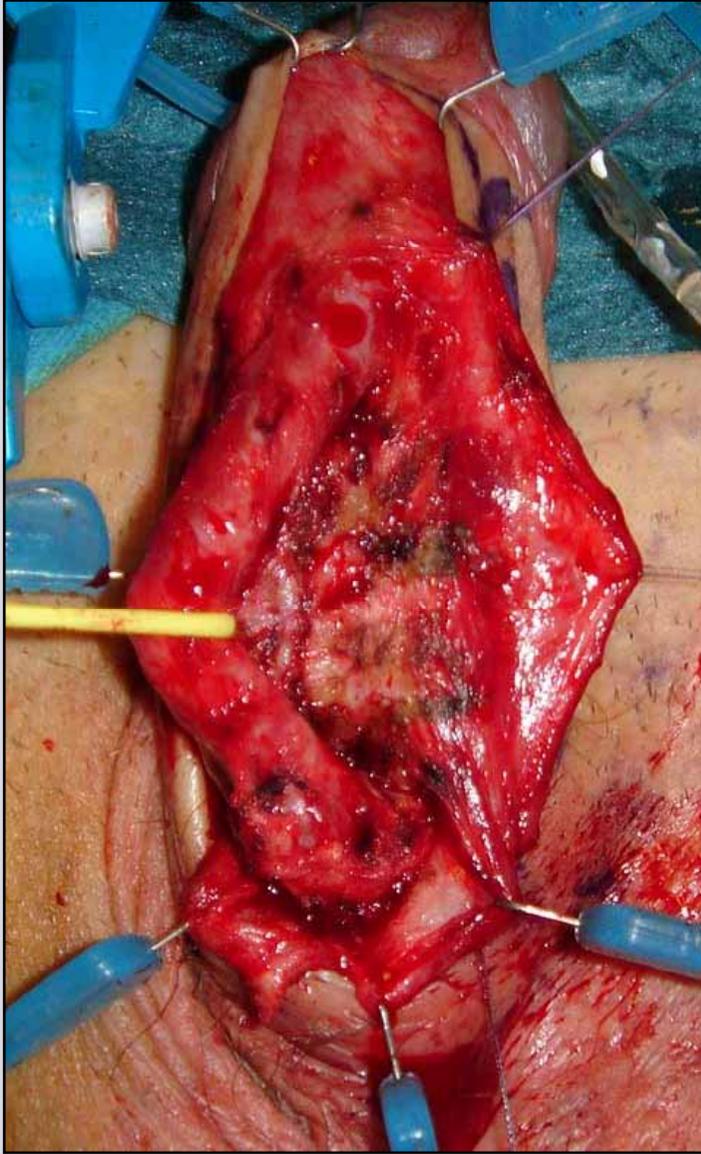
**32
patients**

■ success	24 (75%)		
■ failure	8 (25%)		
	minimum	maximum	mean
Follow-up (months)	8	185	76
Age (years)	15	75	44

**Updated
December 31, 2011**

Modified Orandi's flap penile urethroplasty





e-mail: info@urethralcenter.it

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



e-mail: info@urethralcenter.it

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



e-mail: info@urethralcenter.it

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



e-mail: info@urethralcenter.it

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

One-stage penile urethroplasty: graft or flap

N. patients	Type of urethroplasty	Mean follow-up	Success rate
22	ORAL GRAFT	57 months	82%
23	SKIN GRAFT	37 months	78%
18	PENILE SKIN FLAP	57 months	67%

BJU Int 2008; 102: 853-860

One-stage penile urethroplasty: graft or flap

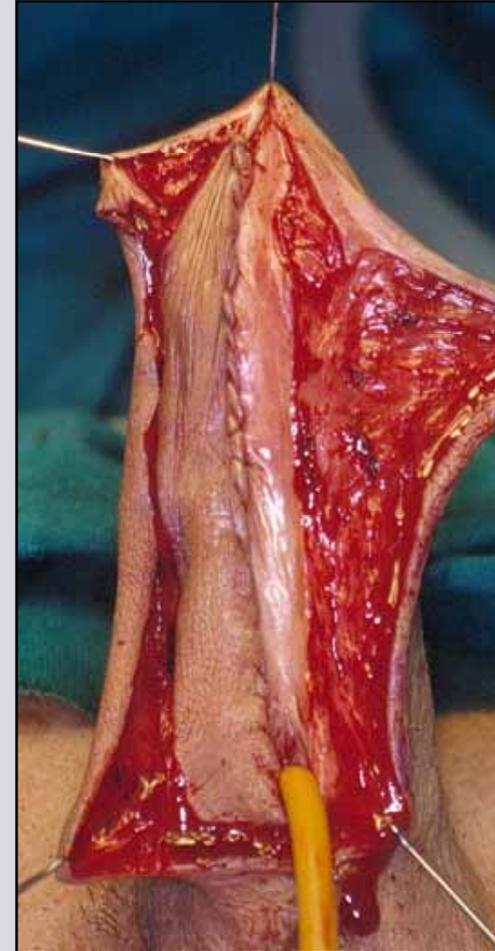
- ❖ **NO** sure data available from literature
- ❖ **NO** comparative studies including evaluation of post-operative sexual and aesthetic dysfunctions and patient satisfaction
- ❖ **Surgeon background and preference**



One-stage penile urethroplasty: graft or flap ?



Wide urethral plate: GRAFT



Narrow urethral plate: FLAP

Staged penile urethroplasty





e-mail: info@urethralcenter.it

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



e-mail: info@urethralcenter.it

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



e-mail: info@urethralcenter.it

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

Second stage



Second stage



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

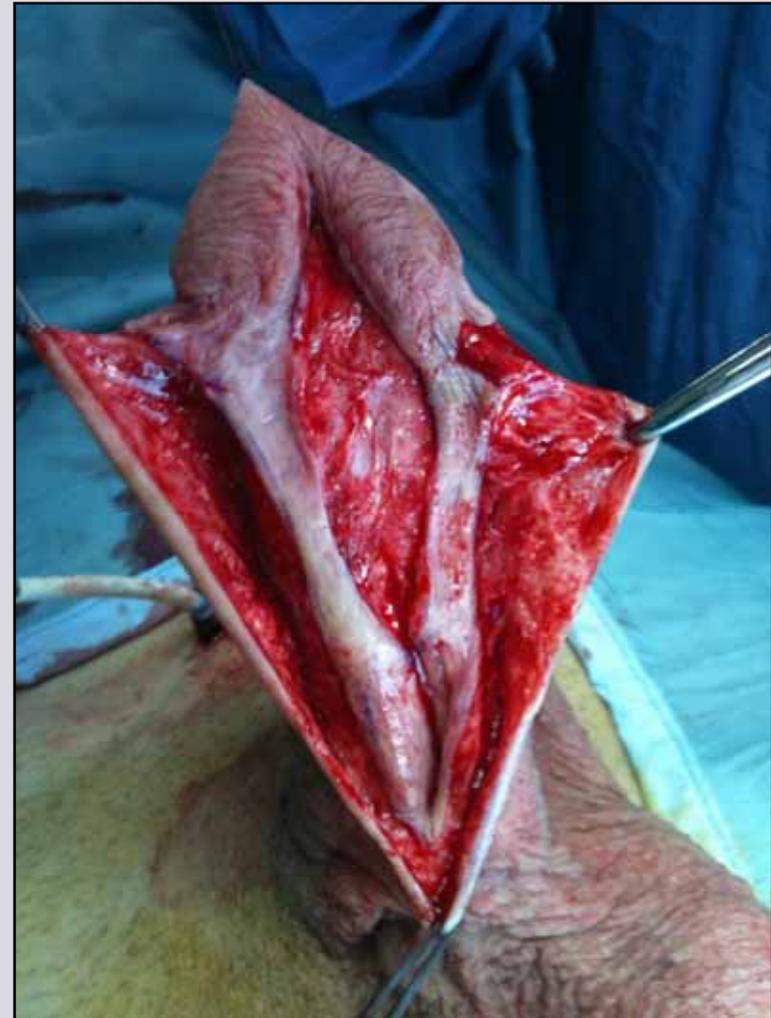


Eur Urol 2006; 49: 887-895

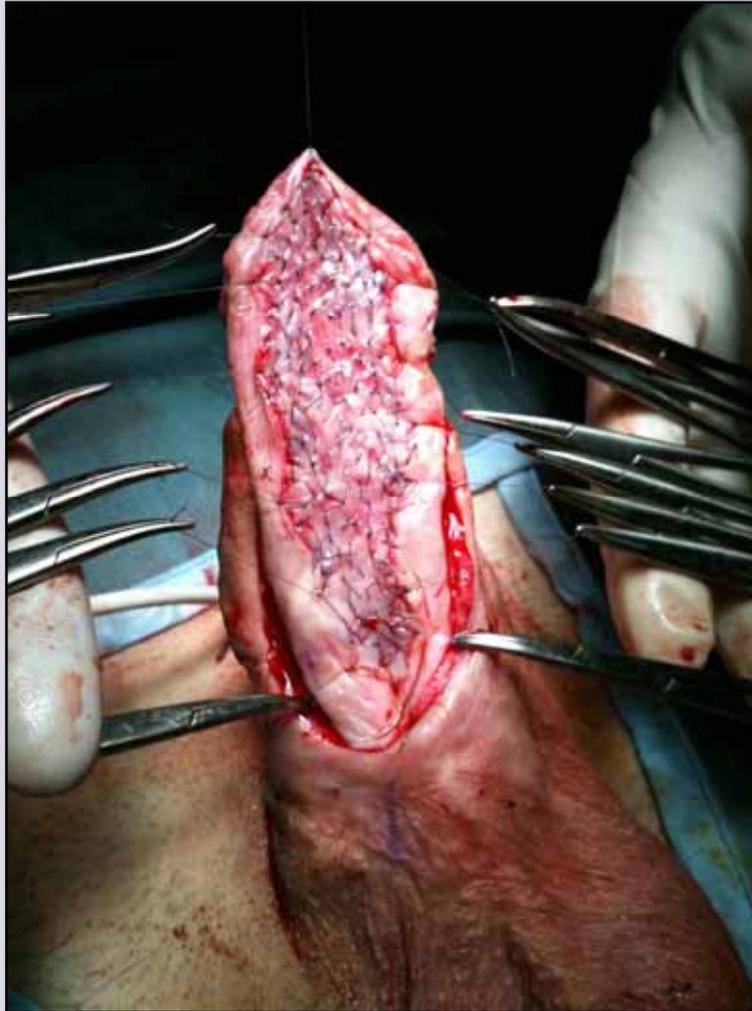
First stage – Johanson's urethroplasty



Second stage – Oral graft urethroplasty



Second stage – Oral graft urethroplasty



e-mail: info@urethralcenter.it

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

Second stage – Oral graft urethroplasty





e-mail: info@urethralcenter.it

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



e-mail: info@urethralcenter.it

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



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.**
- ❖ **Increase the use of appropriate questionnaires to better evaluate the outcome of urethroplasty.**



WEB-ON

**Training on
Reconstructive
Urethral Surgery**

Register now !

www.webon.uretra.it

e-mail: info@urethralcenter.it

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

www.urethralcenter.it
www.uretra.it



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

Thank you !

e-mail: info@urethralcenter.it

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