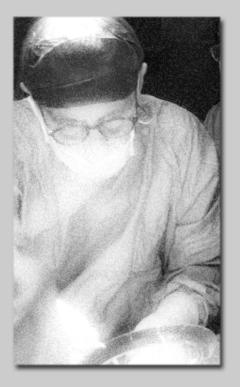
Center for Reconstructive Urethral Surgery



GUIDO BARBAGLI M.D.

Arezzo - ITALY

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Management of patient after failure of urethroplasty



Patient showing failure after urethroplasty require to be again fully investigated. **Recurrent stricture should be considered** "a new disease" inside "a new urethra".

- 1. Retrograde urethrography
- 2. Voiding cystourethrography
- 3. Urethral sonography
- 4. Urethroscopy



How to treat patient after urethroplasty failure?

Re-stricture features

Surgeon experience and background

Literature suggestions

Psychological compliance of the patient



Re-stricture features

In our experience, the stricture recurrence showed two different features:

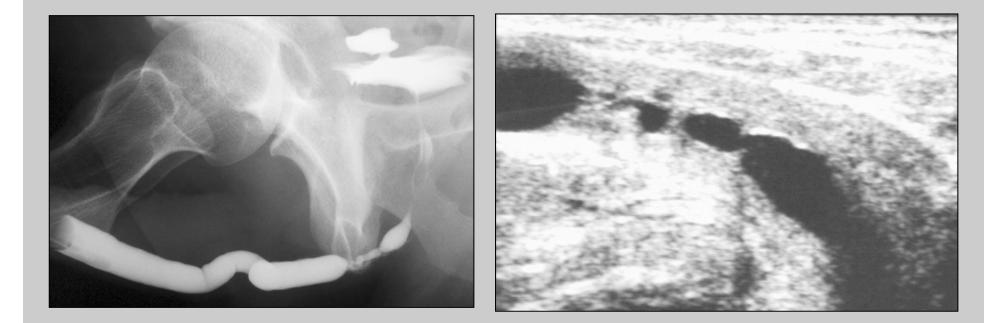
1. Fibrous tissue involving the entire reconstructed area

2. Short (< 1cm) fibrous ring at the anastomotic site

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J Urol 2006, 176: 614-619

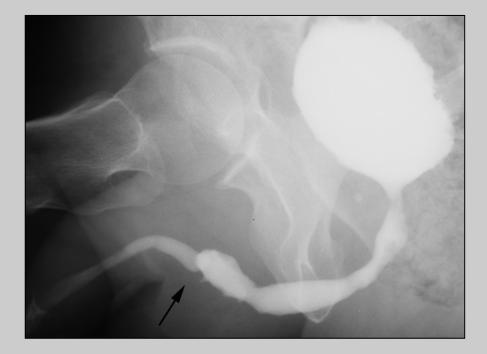
Stricture recurrence involving the entire grafted area



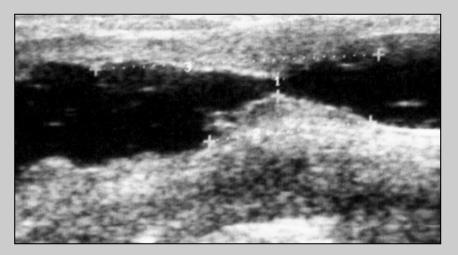
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J Urol 2006, 176: 614-619

Distal anastomotic ring

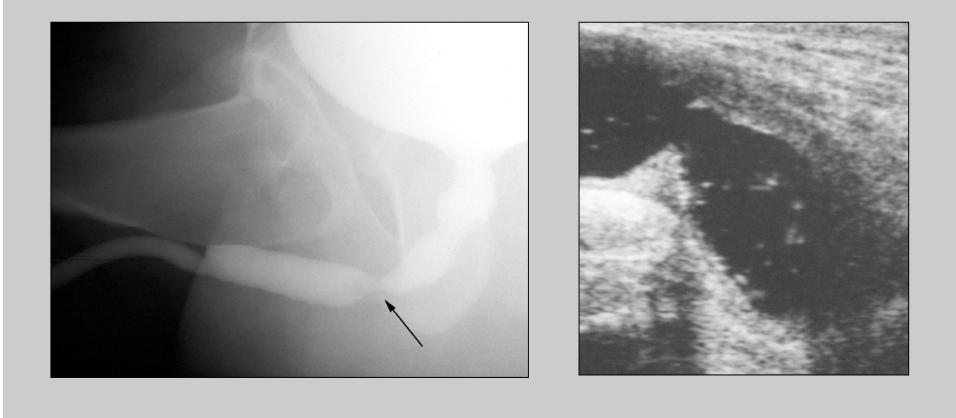


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J Urol 2006, 176: 614-619

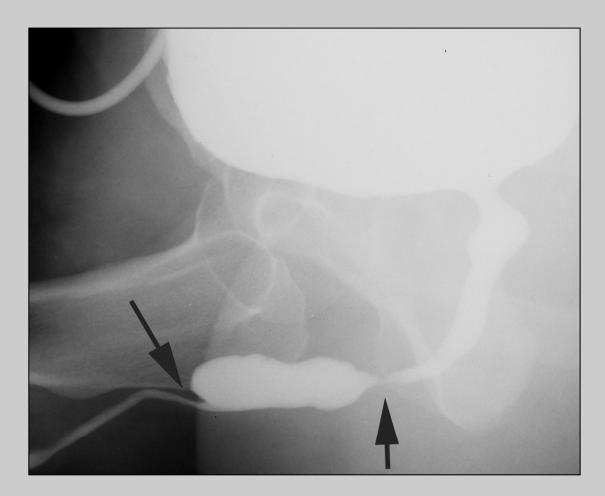
Proximal anastomotic ring



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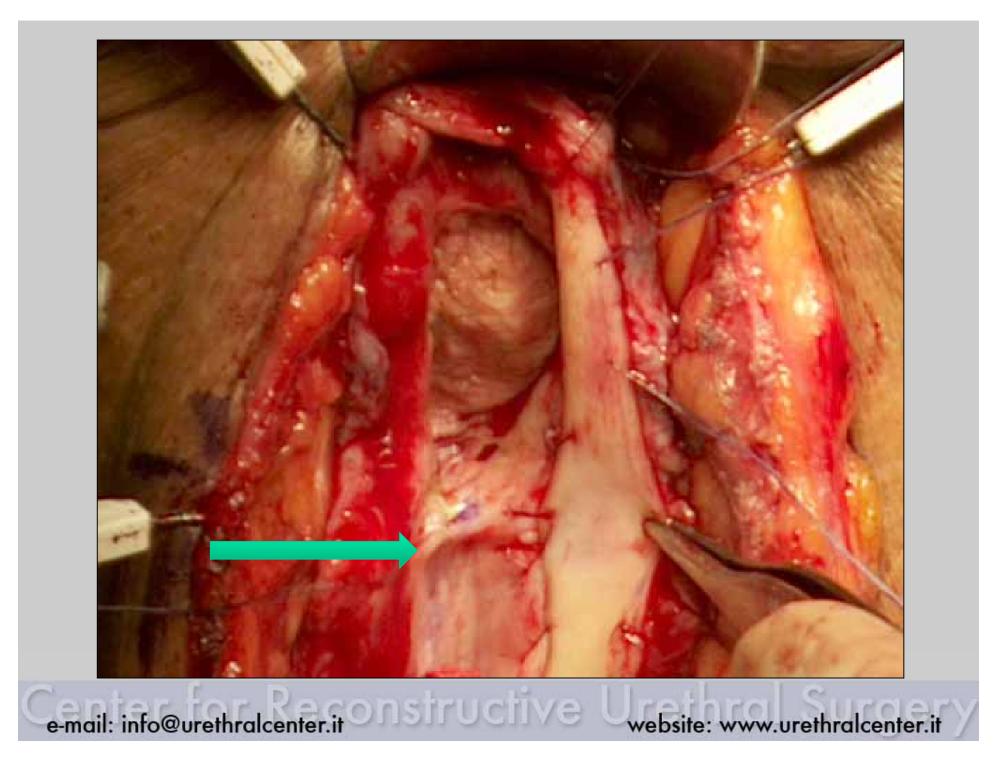
J Urol 2006, 176: 614-619

Distal and proximal anastomotic rings



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J Urol 2006, 176: 614-619



Cause of anastomotic fibrous ring after bulbar onlay graft urethroplasty

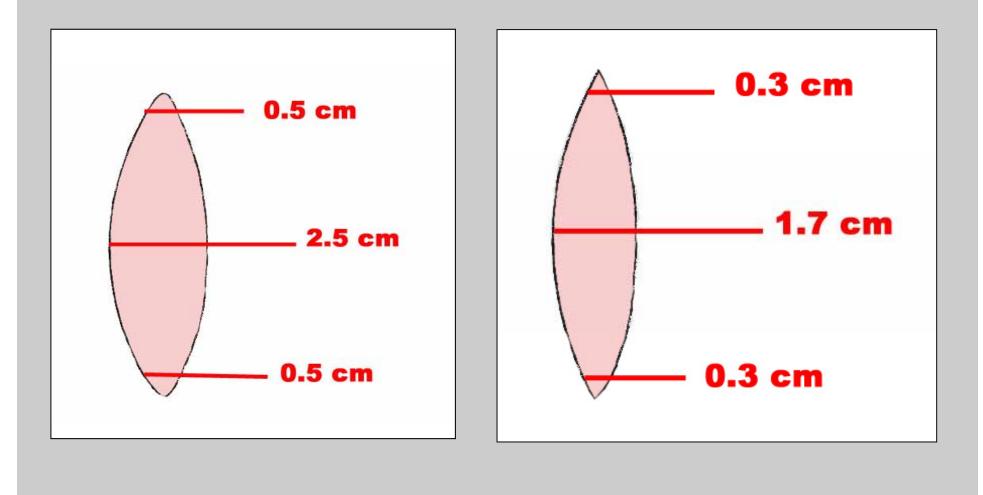
- recurrence of the disease
- graft retraction
- suture lines

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- suture material
- ischemia and poor vascularized graf bed

J Urol 2006, 176: 614-619

Graft retraction



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J Urol 2006, 176: 614-619

Surgeon experience and background



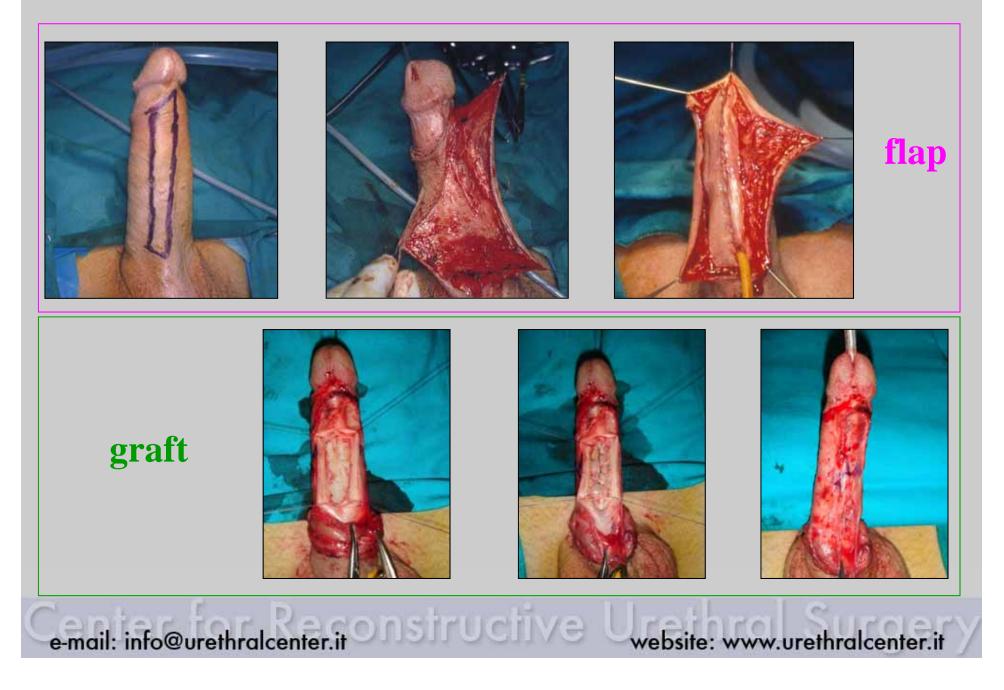
endoscopy



surgery



Surgeon experience and background



Literature suggestions

The literature don't provide sure guidelines for the management of patient after urethroplasty failure.

No homogenous series of patients

No homogenous follow-up criteria



Psychological compliance of the patient



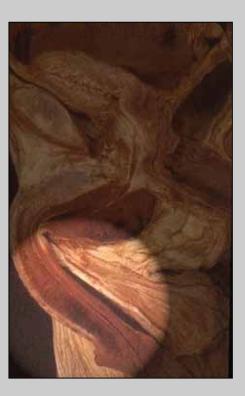
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Management of patient after failure of urethroplasty

Our experience in 491 patients who underwent anterior urethroplasty using one-stage techiques



One-stage penile urethroplasty in 70 patients



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14 penile skin flap

32 penile skin graft

24 oral mucosa graft

54 (77.1%) success 16 (22.9%) failure

One-stage penile urethroplasty in 70 patients

54 (77.1%) success

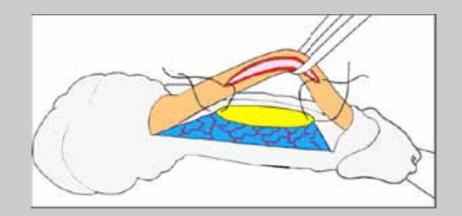
16 (22.9%) failures 9 one-stage repair

5 two-stage repair

2 meatotomy



One-stage penile skin flap urethroplasty



14 patients

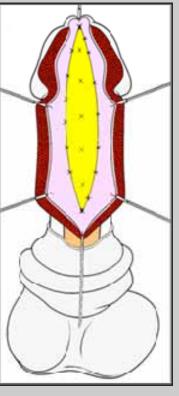
5 failure

9 success

Surgical technique	Result	Redo-technique	Result
Penile skin flap	5 failures	3 oral graft repair	success
		2 two-stage repair	success



One-stage penile skin graft urethroplasty

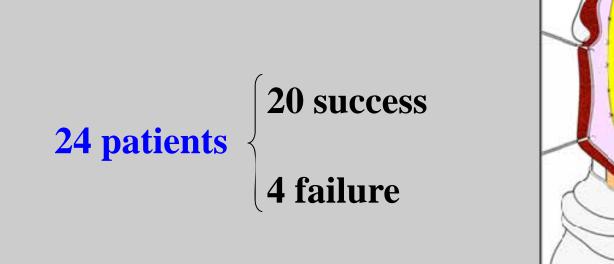


Surgical technique	Result	Redo-technique	Result
Penile skin graft	7 failures	4 penile flap repair	success
		2 two-stage repair	success
		1 end-to-end	success

Ve

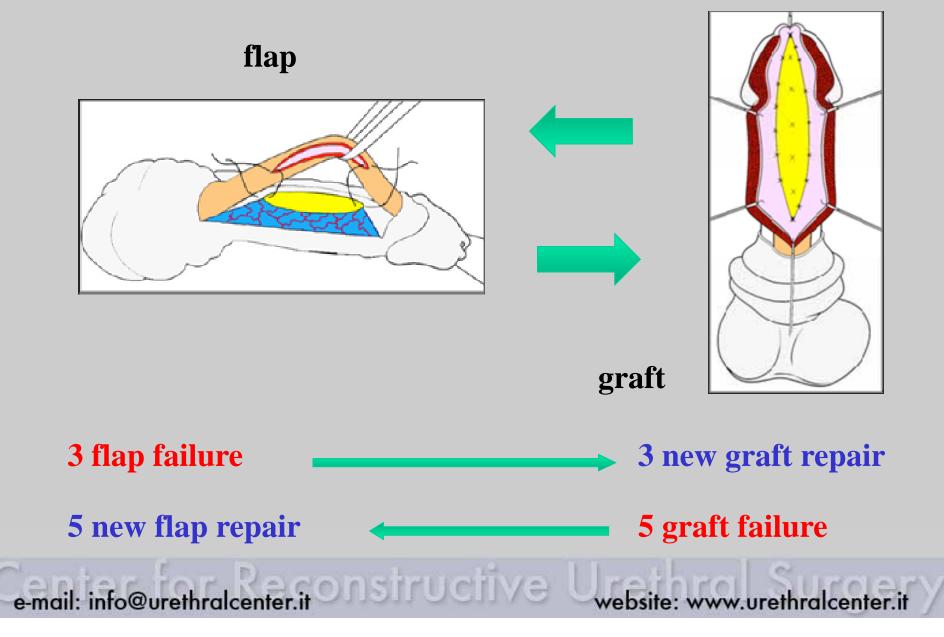
e-mail: info@urethralcenter.it

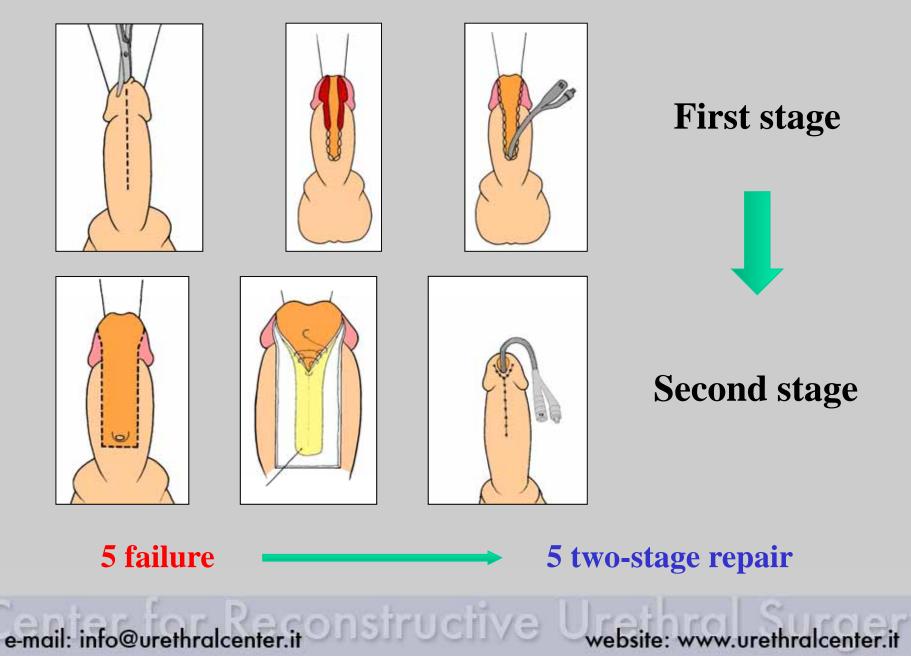
One-stage penile oral mucosa graft urethroplasty

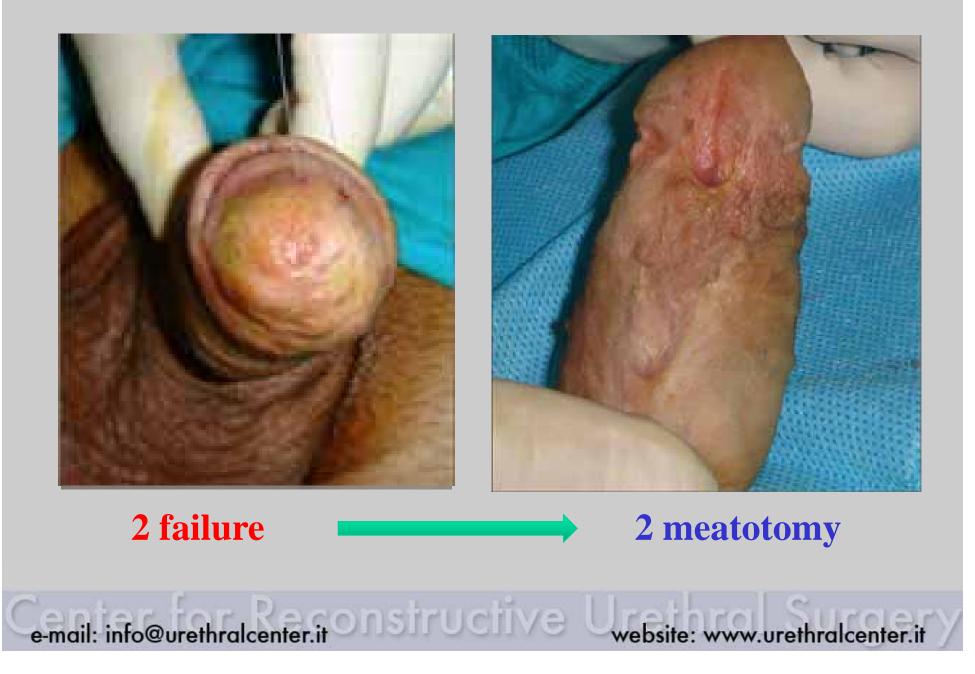


Surgical technique	Result	Redo-technique	Result
Penile oral graft	4 failures	2 meatotomy	success
		1 penile skin flap repair	success
		1 two-stage reapir	success

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One-stage penile urethroplasty in 70 patients

One operation: 54 (77.1%)

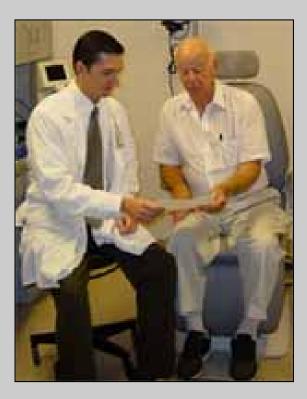
Two operations: 9 (12.9%)

Three operations: 5 (7.1%)

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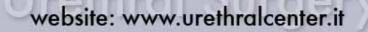
Waiting list: 2 (2.9%)

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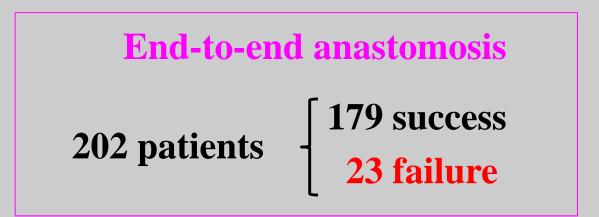


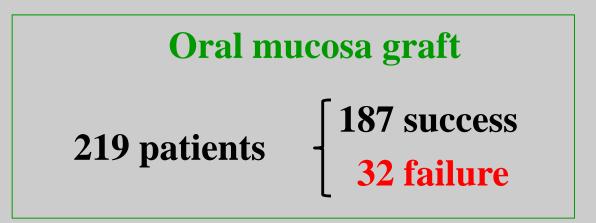
In our Center the patient is fully informed that the stricture recurrence after one-stage repair may require more than one operation to be permanently cured.

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One-stage bulbar urethroplasty

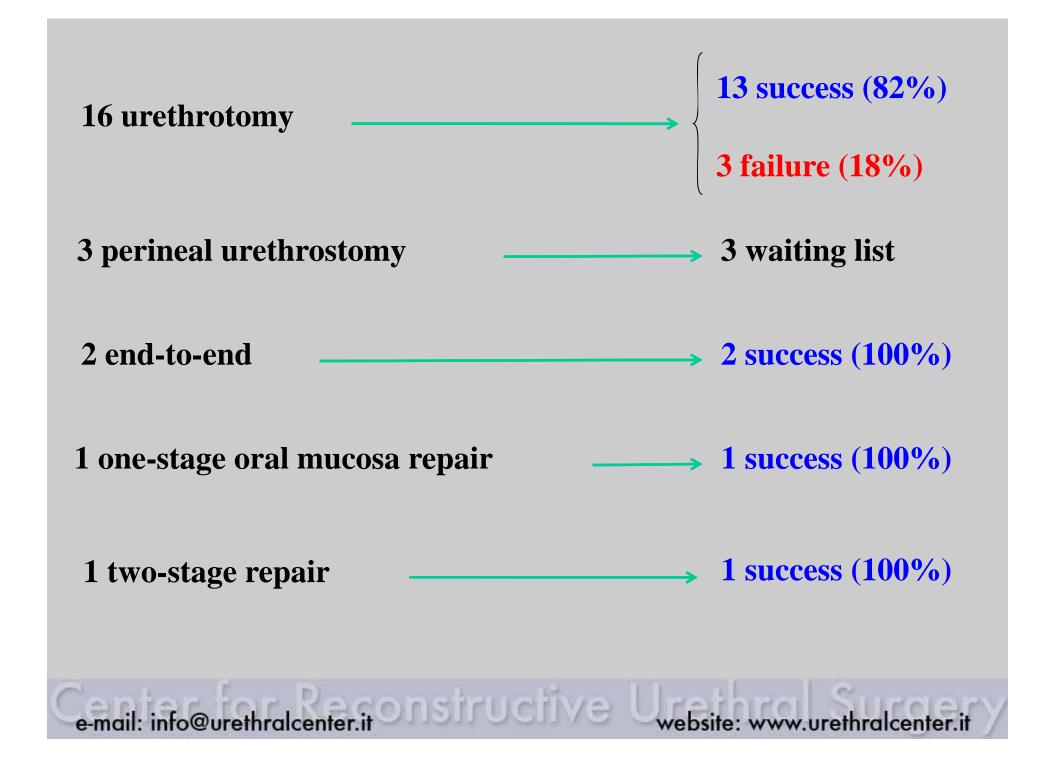


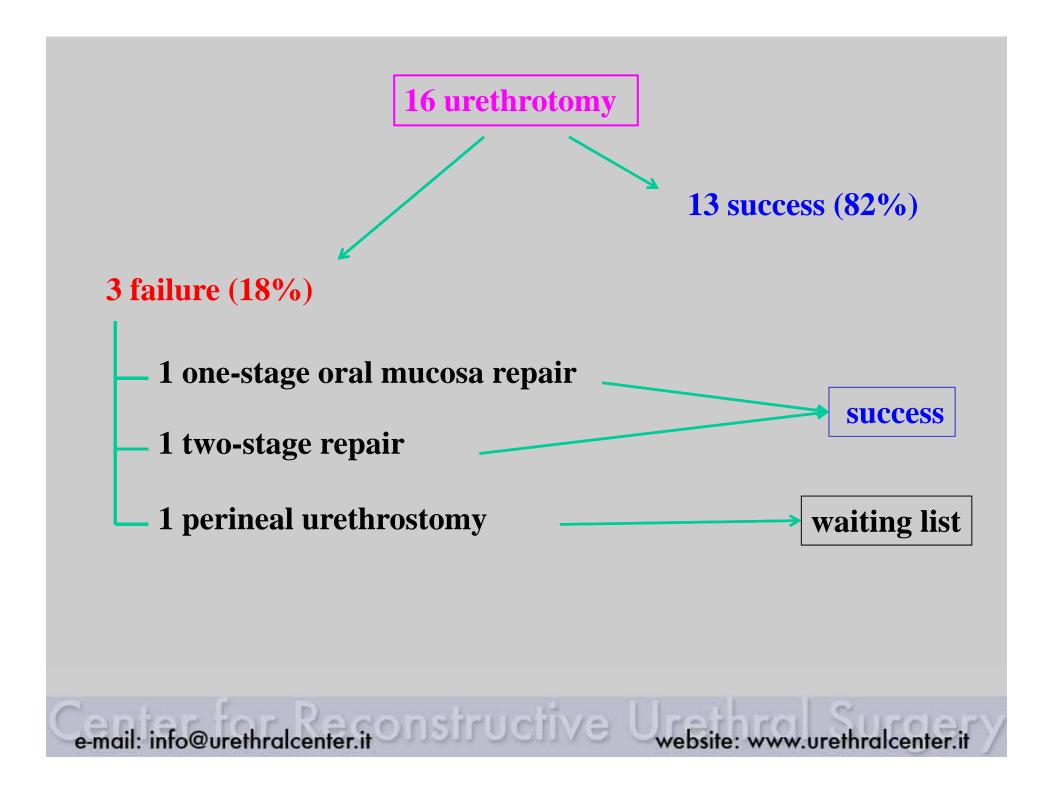


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Management of 23 patients after failure of bulbar end-to-end anastomosis







Bulbar end-to-end anastomosis in 202 patients

One operation: 179 (88.6%)

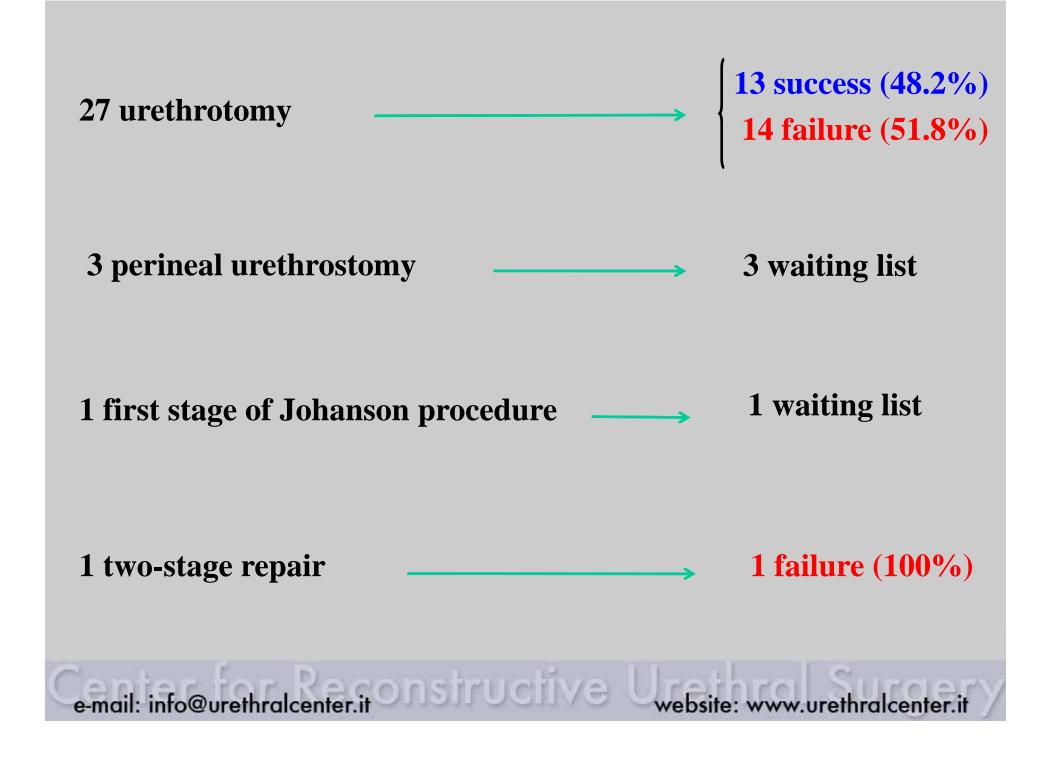
Two operations: 17 (8.4%)

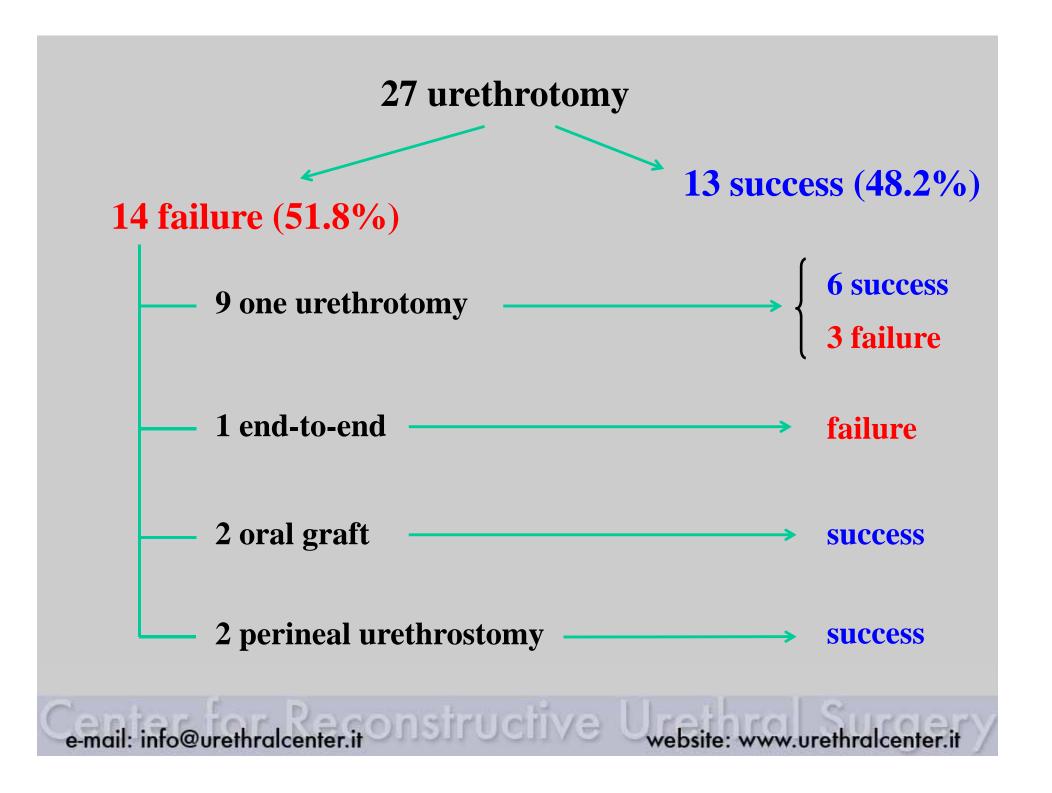
Three operations: 3 (1.5%)

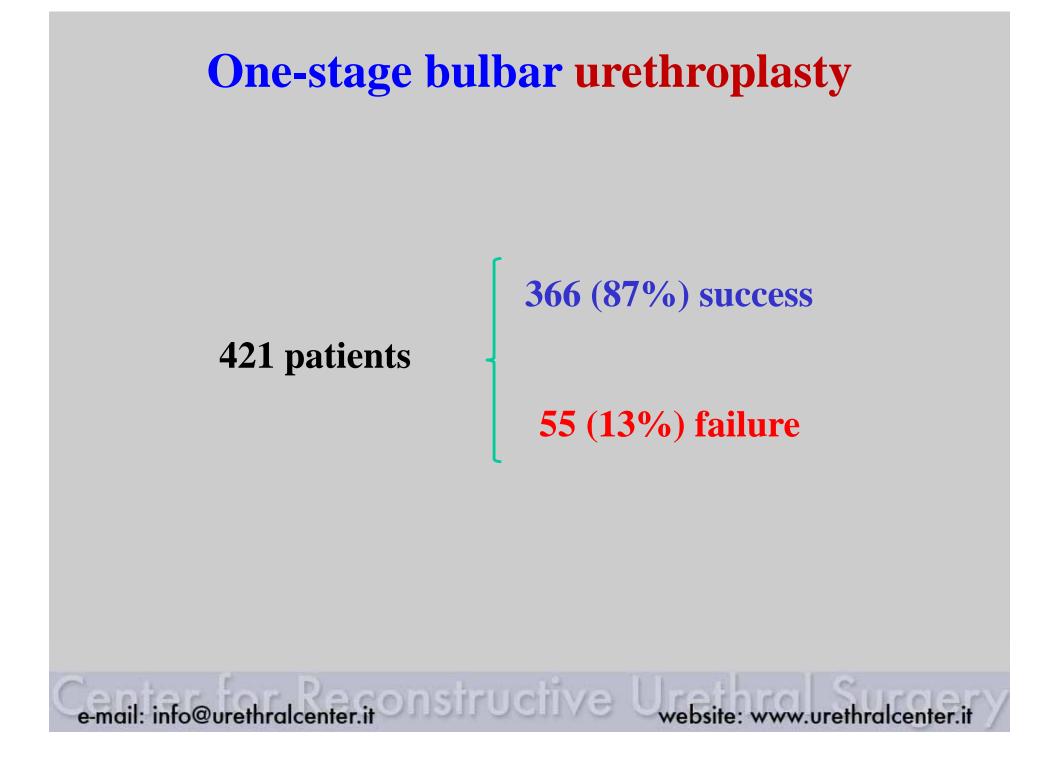
Waiting list: 3 (1.5%)

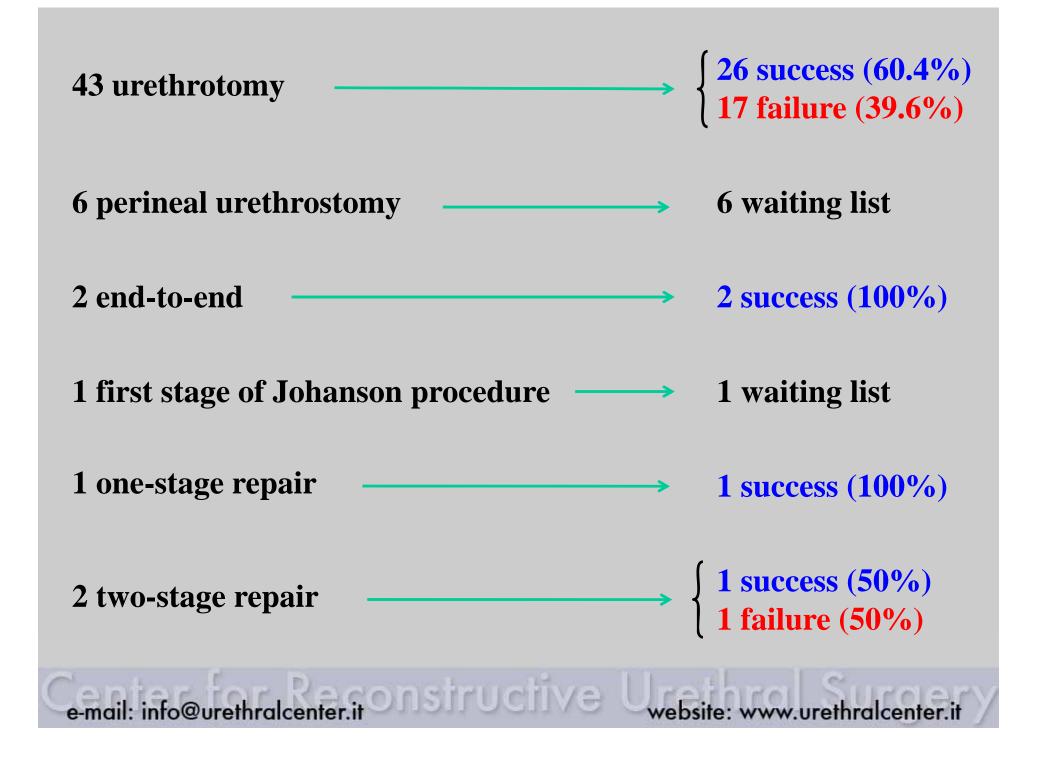
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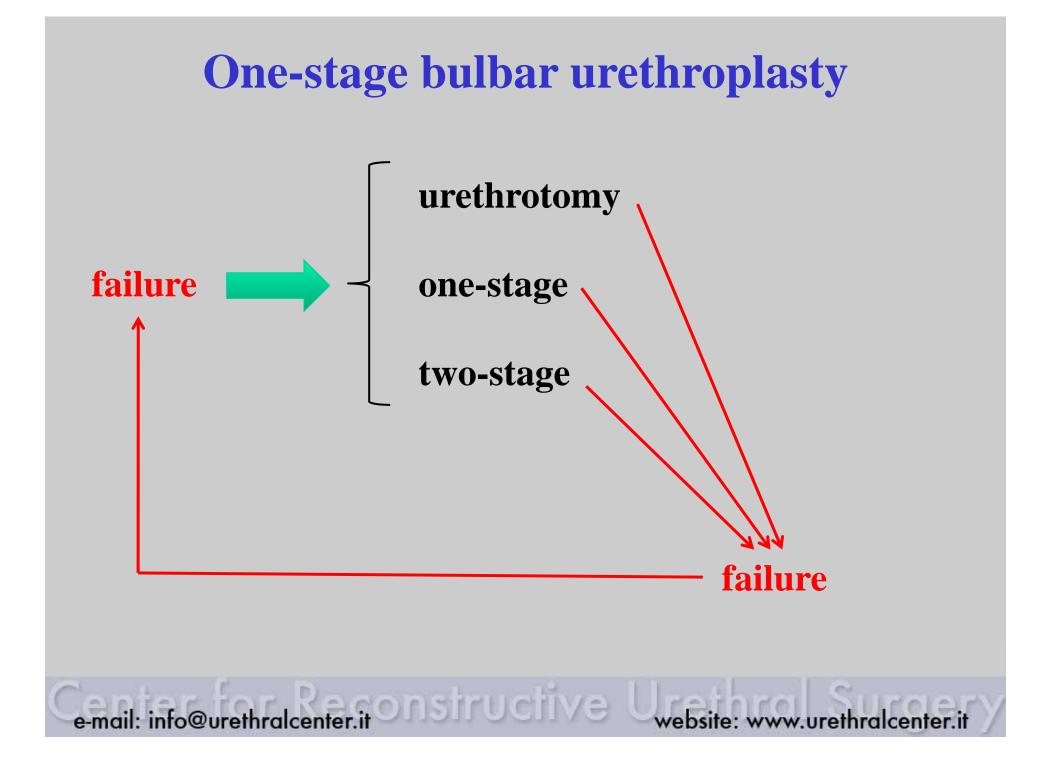
Management of 32 patients after failure of bulbar one-stage oral mucosa urethroplasty nfo@urethralcenter it Ve.











One-stage bulbar urethroplasty



In our Center the patient is fully informed that one-stage bulbar urethroplasty provide 87% success rate and 13% of patients will require a new surgery.

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

Thank you !

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