Center for Reconstructive Urethral Surgery



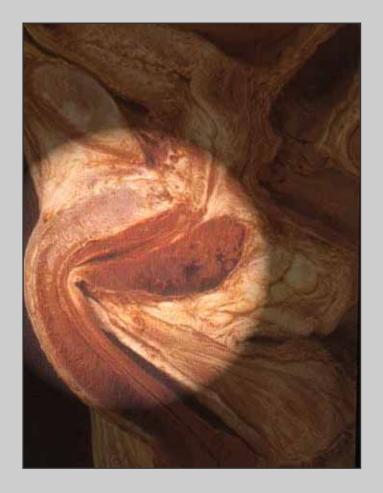
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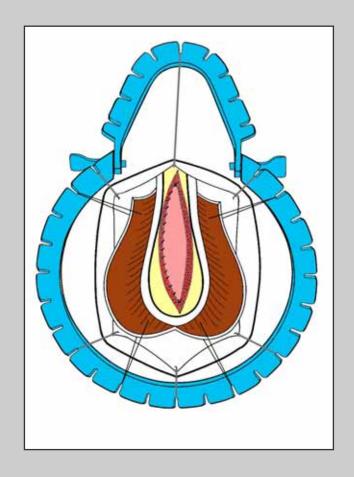
Ventral onlay graft urethroplasty

Ventral onlay graft urethroplasty



Bulbar urethra

Ventral onlay graft urethroplasty



Surgical technique: step by step

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Preparation of the patient



Simple lithotomy position

Preparation of the patient



Allen stirrups with sequential inflatable compression sleeves

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Two surgical teams work simultaneously

harvesting the oral mucosa



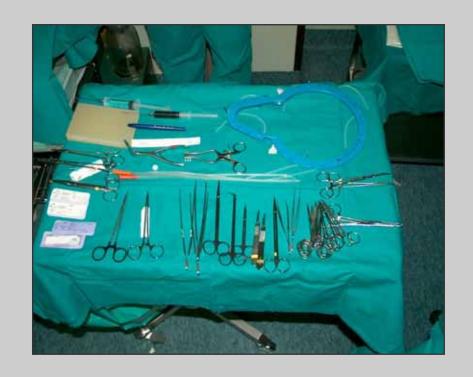
preparing the bulbar urethra

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Two sets of surgical instruments



Oral mucosa



Urethroplasty

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Advantages of the double team

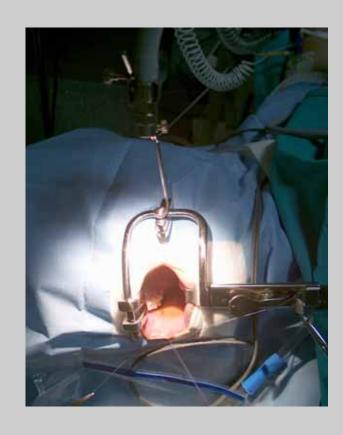
decrease of surgical time to ~ one hour

decrease of contamination in surgery

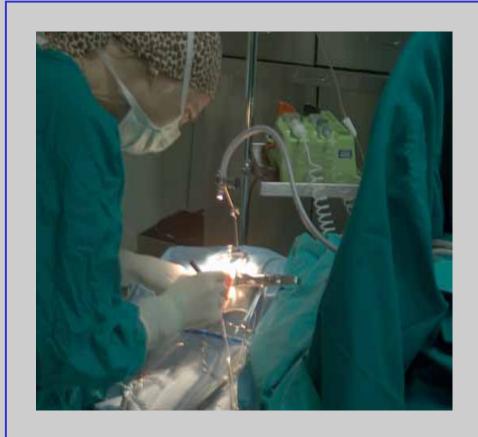
The patient is intubated through the nose, allowing the mouth to be completely free





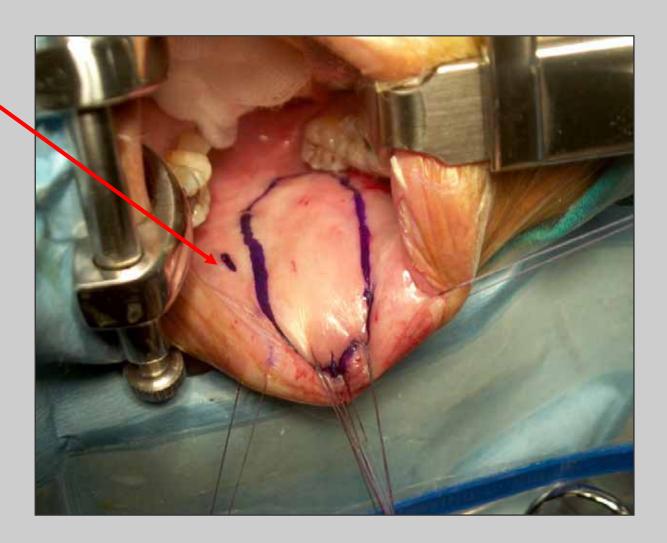


Appropriate mouth retractor



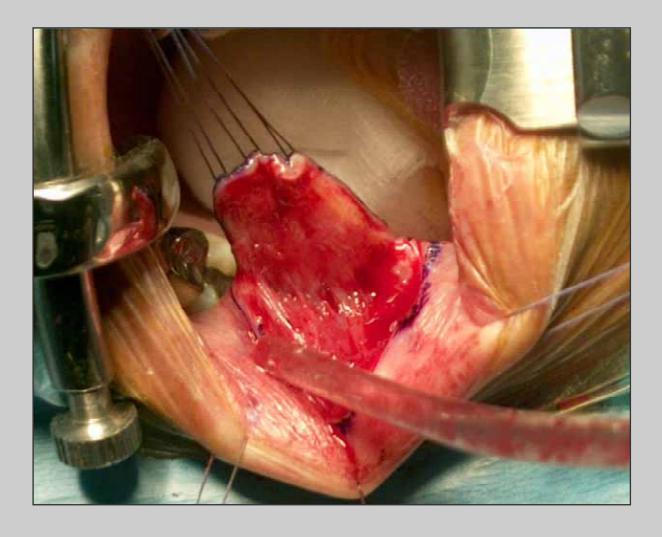
Only one assistant is needed to harvest the oral graft

Stenon's duct



the harvesting site is underlined

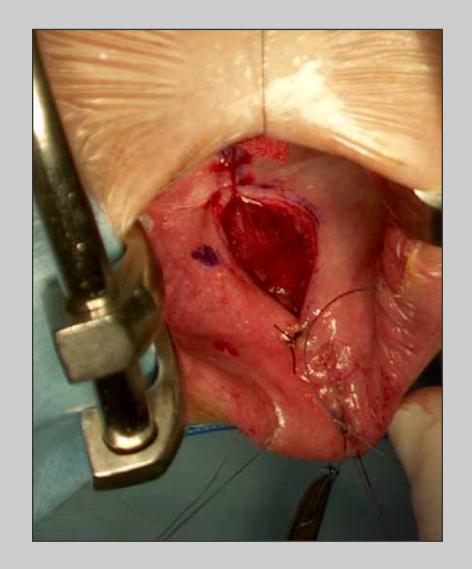
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The oral mucosa is removed



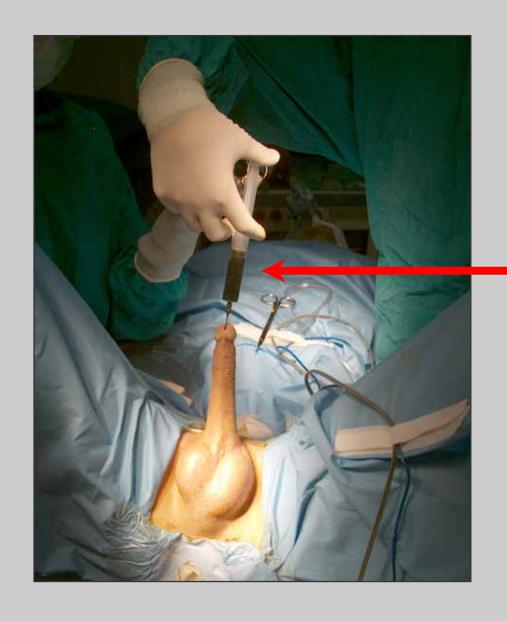
The graft is 4 cm long and 2.5 cm wide





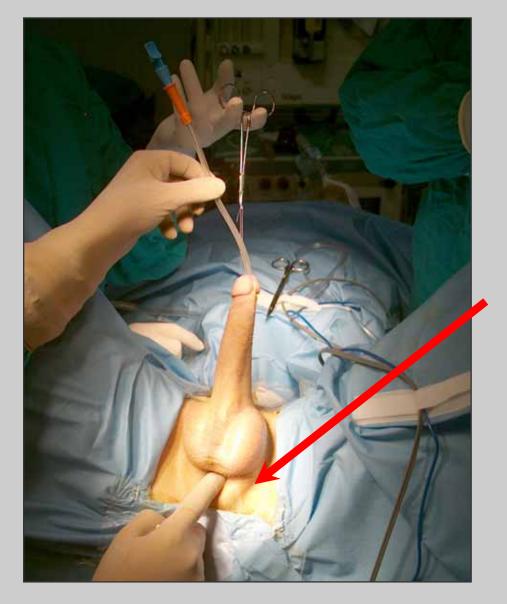
The harvesting site is closed

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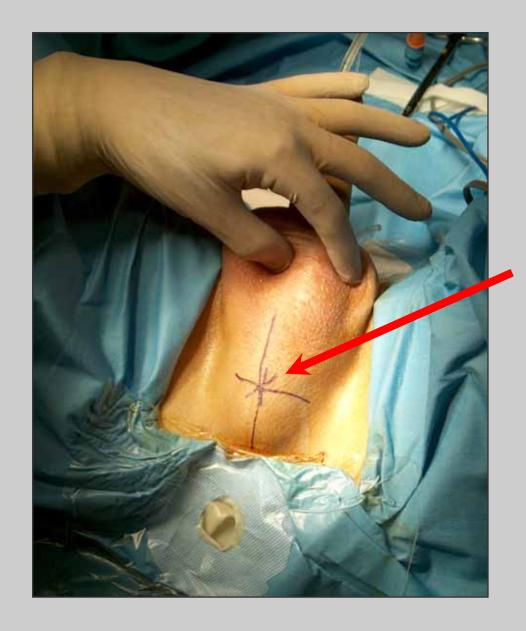


Methylene blue is
injected into the urethra

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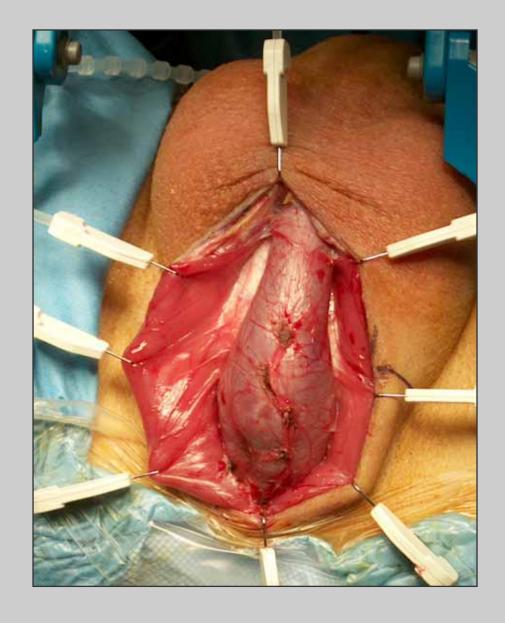


The distal extent of the stenosis is identified by inserting a 16 Ch catheter with a soft round tip

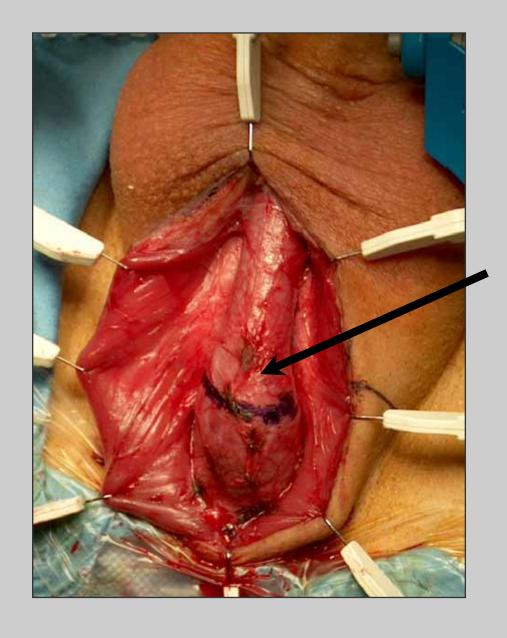


Midline perineal incision

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The urethra is freed from the bulbocavernous muscle

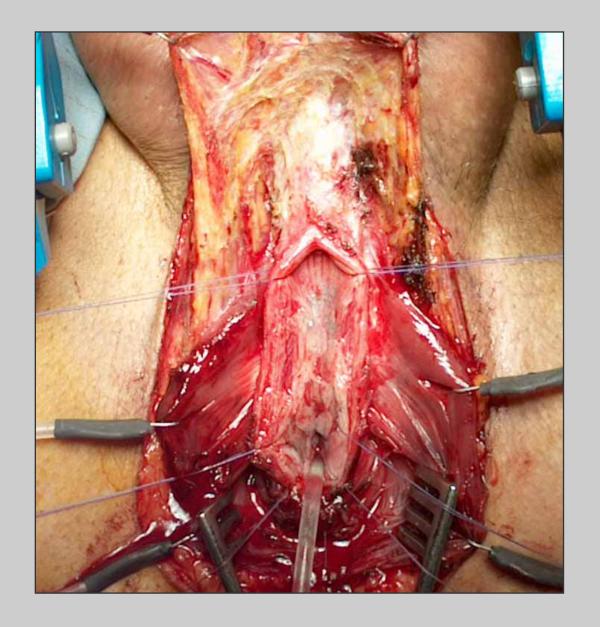


The distal extent of the stenosis is identified and underlined

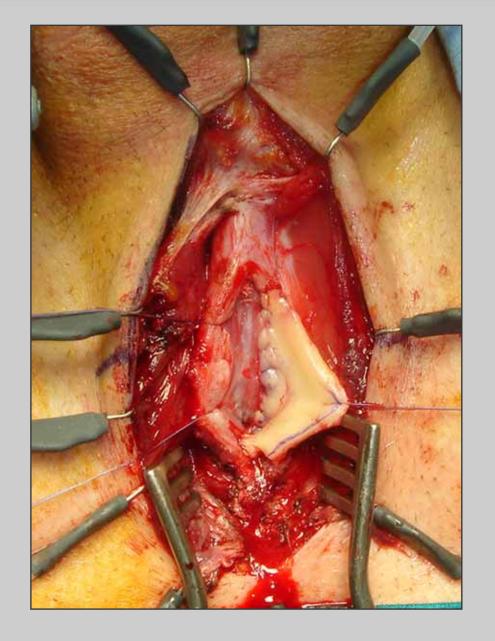
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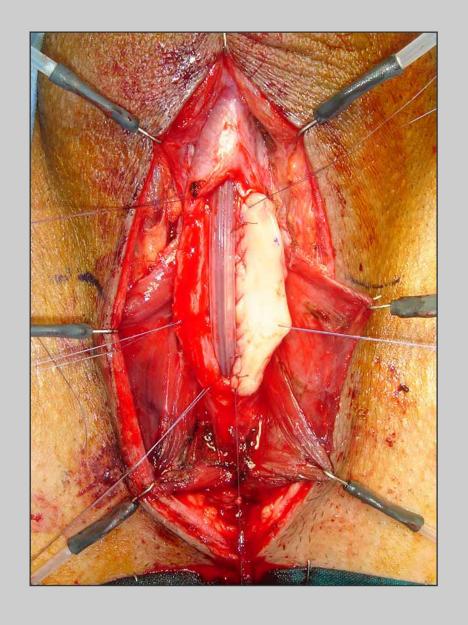
The incision on the ventral urethral surface is underlined



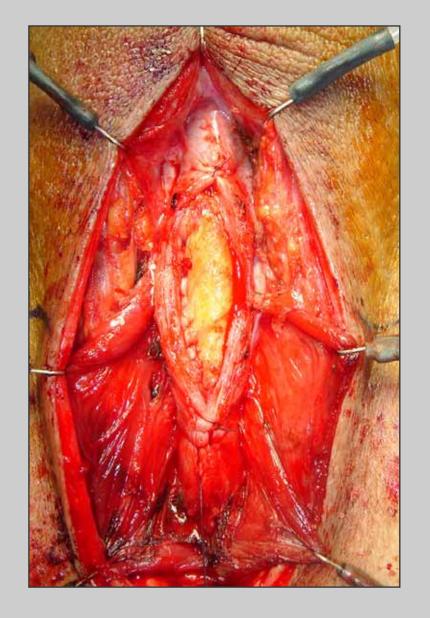
The ventral urethral surface is fully opened



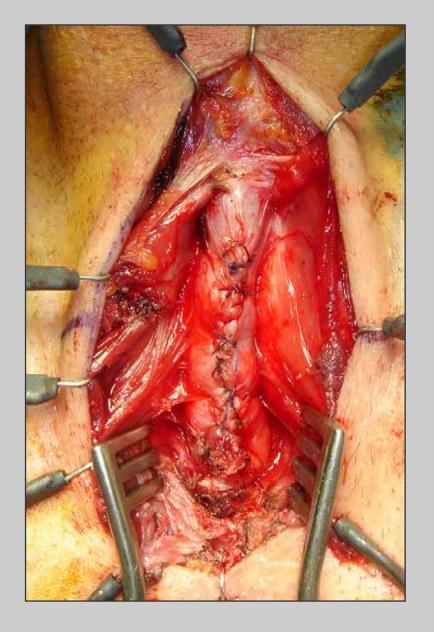
The oral mucosal graft is sutured to the left margin of the urethral mucosa



A Foley 16 Ch
grooved silicone
catheter is inserted



The oral mucosal graft is moved to cover the urethral plate and sutured to the right margin of the urethral mucosa



The corpus spongiosum is closed over the oral mucosal graft



The perineal wound is closed

Post-operative care

- > Patient is discharged from the hospital three days after surgery
- > Patient is maintained on oral antibiotics until the catheter is removed

➤ Three weeks following surgery, the catheter is removed and voiding cysto-urethrography is obtained



Post-operative complications

- > Urethrorrhagia due to nocturnal erection
- > Temporary numbness or dysesthesia to the perineum
- > Scrotal swelling
- > Urethral fistula