Center for Reconstructive Urethral Surgery

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Two-stage urethroplasty
Two-stage urethroplasty

Bulbar urethra
Two-stage urethroplasty

Surgical technique: step by step

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First stage
Preparation of the patient

Simple lithotomy position
Preparation of the patient

Allen stirrups with sequential inflatable compression sleeves
Methylene blue is injected into the urethra.
“U” inverted perineal incision
Opening of the bulbospongiosum muscle
Opening of the ventral urethral surface and suture of the spongism tissue
Nasal speculum is inserted in the proximal urethral stomia
The needle in modified according the Webster’s technique
Three stitches are passed through the apex of the scrotal flap.
The scrotal flap is sutured to the proximal urethral opening.
Two scrotal flaps are sutured to the urethral plate.
Final view of the perineal urethrostomy
View of the perineal urethrostomy one year later
Second stage
Evaluation of the distal and proximal urethra
Incision around the perineal stomia
The scrotal skin is removed
Buccal mucosal graft is sutured to the urethral plate
Buccal mucosal graft is rotated to cover the urethral plate
The spongiosum tissue is closed over the graft.
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

- Temporary numbness or dysesthesia to the perineum
- Scrotal swelling
- Urethral fistula