

MANAGEMENT OF CHRONIC MULTIPLE COMPLICATIONS OF HYPOSPADIAS REPAIR/HYPOSPADIAS CRIPPLE IN SINGLE STAGE

Dr. Amilal Bhat

Introduction: Chronic complications of hypospadias repair like fistula, torsion, diverticula, retrusive meatus, residual chordee, meatal stenosis require different techniques for their management. Management becomes difficult when more than one complication is found in a case & are usually managed by two stage procedures. Aim of the study was to manage these complications in one stage.

Patients & Methods: Fifteen cases of fistula, stricture, retrusive meatus, meatal stenosis, torsion, open distal urethra & urethral diverticula with combination of two or more, were managed by from 1999 to July 2005. Incision was given proximal to the fistula/ stricture in midline & extended towards corona to have a rectangular flap. Penile skin was de-gloved preserving the skin tube with vascular pedicle. The pedicle was dissected free proximally to correct the torsion. Residual chordee was corrected by mobilization of urethra in 4 cases and dorsal plication in one case. Fistula closure, reduction urethroplasty for diverticula, stricturoplasty for stricture & onlay flap urethroplasty, TIP and local skin flaps were used accordingly. Prepuccial vascular flap, local dartos flap, tunica vaginalis flap were used in 3, 5 & 2 cases respectively. Multiple fistulas were laid open and skin urethroplasty and spongioplasty was done in two cases.

Results: Two patients had fistula, one each had stricture & meatal stenosis, requiring fistula repair, stricturoplasty and meatal dilatation in follow up period of 6 months to 3 years. One patient had recurrence of fistula after second surgery with over all results 73.33% after first surgery and 93.33% after second surgery.

Conclusions: Penile de-gloving & mobilization of vascular pedicle and urethra, local skin flaps, onlay flap, spongioplasty and stricturoplasty with healthy tissue coverage as second layer in combination deals with multiple complication of hypospadias repair in single stage with good results.

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Contact information of Abstract Presenter:

Title: Dr.

Name: Amilal

Surname: Bhat

Institution: S.P.Medical College Bikaner.

Address: Dept of Urology
S.P.Medical College Bikaner
Rajasthan

INDIA

Tel.: 91-151-2226327

Fax.: 91-151-2523728

E-mail: amilalbhat@rediffmail.com