

COMPARISON OF TIP (SNODGRASS) WITH PERIMEATAL-BASED FLAP (MATHIEU) URETHROPLASTY IN PRIMARY DISTAL HYPOSPADIAS

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Objective: Hypospadias is one of the most common congenital malformations in male. Numerous surgical methods have been described to correct this anomaly. The purpose of this study is to compare TIP(Snodgrass) urethroplasty with Mathieu technique regarding postoperative complications ,and cosmetic appearance in primary distal hypospadias.

Patients and method: Between February 1997 and June 2004, 157 children underwent primary hypospadias repair.Of these patients, 105 had primary distal hypospadias. 32 patients underwent Mathieu repair and 73 patients had TIP procedure. Mean age of patients in TIP group was 2.82+/-2.25 years and in Mathieu group was 3.35+/-2.41 year. Urinary diversion was done with urethral stent in 67(91.8%) of TIP group and in 27(84.4%) of Mathieu group with mean duration of 5.15dayes for TIP and 4.5 day for Mathieu group. Of patients with urethral stent, 3(4.1%) in TIP, and 8(25%) in Mathiu group had also suprapubic cystostomy. All the patients were followed for 1 year post operatively.

Results: There was no meatal stenosis, wound infection, and glandular dehiscence in both groups. There was no fistula in Mathieu group compare with 7(9.6%) fistula in TIP repair. Fistulas in TIP group occurred in the first 2 years of study. Cosmetic appearance was highly satisfactory in Snodgrass group.

Conclusion: Although there were more fistula in patients undergoing TIP urethroplasty, the operation was simpler and cosmetic result was much better. We think that both TIP and Mathieu techniques have very good results with low complications but Snodgrass urethroplasty has excellent cosmetic and functional results.

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