



Distal Hypospadias Repair: Comparative Study Between Snodgrass and Transverse Preputial Onlay Flap

Thesis submitted for partial fulfillment of the PhD degree in
UROLOGY

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Abstract

The study aims to compare outcomes of distal hypospadias repair by Snodgrass versus Transverse preputial onlay flap.

Material and method :

We conducted this comparative study on 66 patients with different types of distal hypospadias divided in two groups A and B for TIP and TPOF respectively. We reported outcome and complications for both TIP and TPOF repair.

Results:

Our results revealed mean operative time was significantly higher in group B (123.1 ± 6.8 min) than in group A (93.73 ± 3.9 min, P value < 0.001). Postoperative urinary fistula was reported in group A (15.2%) while no fistula in group B (p value = 0.05). The vertical slit appearance of meatus was better in group A (54.5%) than in group B (24.2%, P value = 0.023). As regard to hypospadias objective scoring evaluation (HOSE) (Summary Figure) the meatal shape score was higher in group A (1.55 ± 0.51) than in group B (1.24 ± 0.44 , p value 0.01), the urinary stream score was significantly higher in group A (1.82 ± 0.39) than in group B (1.97 ± 0.17 , p value = 0.04) and the urinary fistula score was significantly higher in group A (3.79 ± 0.60) than in group B (4 ± 0 , p value = 0.04).

Conclusion:

TPOF is a great option to consider in cases of distal hypospadias because it is an effective technique for primary distal hypospadias repair with a good outcome and a low associated complication.