

Evaluation Of Nonstented Distally Folded Onlay Flap In Distal Penile Hypospadias Repair

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Distally folded onlay flap for repair of distal penile hypospadias is a new technique which offers a solution for cases that is not suitable for tubularized incised plate (TIP). Also, this technique has a lower rate of incidence of meatal stenosis and fistula. Stenting of the neourethra after hypospadias repair is still controversial. Many studies have reported that nonstenting the neourethera avoid stent related problems as bladder spasm and detrusor contraction. However,the incidence of meatal stenosis and fistula increase with nonstented procedures.

The aim of the current study is to report our experience with nonstented distally folded onlay flap as a trial to gain the advantage of nonstenting without its potential risk of increasing incidence of meatal stenosis and fistula.

Patient and methods:

This study included thirty four patients who were not suitable for TIP. We performed distally folded onlay flap repair for these patients with a technique similar to that described previously by Elsayed et al 2010 but without using of a postoperative urethral stent. Follow up by clinical examination was done on the 3rd,10th postoperative days and every 3 month after surgery for one year.

Results:

The mean age of our patients was 4 years (1-8 years). Follow-up ranged from 6 to 16 months (average: 9 months). All our patients were not suitable candidate for TIP as twelve of our patients had a narrow urethral plate (35.2%) while 18 patients (52.9%) had a shallow urethral plate. Four patients (21.8%) underwent

previous failed repair but with sufficient amount of prepuce to be used as a flap. All children voided with little discomfort at the time of voiding only. No cases of early postoperative complications including dysuria, postoperative bleeding, hematoma, wound infection or retention of urine were noted. Excellent cosmetic results were obtained in all children except two (94.1%). Thirty parents (88.2%) were very satisfied or satisfied, because of the cosmetic appearance of the neomeatus and absence of any postoperative indwelling catheters with little postoperative discomfort.

There were no cases of meatal stenosis. Two patients (5.8%) had a urethrocutaneous fistula.

Conclusion:

Nonstented distally folded onlay flap in repair of distal penile hypospadias is safe, has excellent success rate and provides high rate of parental satisfaction.The low rate of complications and high parental satisfaction seems to be promising but due to the small number of patients in this study, we still need to extend this study to verify our results.

Biography

Dr. Mohamed Gaber completed his postgraduate training in Urology at Urology Department – Tanta University Hospitals in 2002. He completed an Endourology & Laparoscopy fellowship at Barnes Hospital of Washington University of St. Louis MO. USA in 2007. He published more than 40 international papers and book chapter on field of general Urology, endourology and presented more than 15 papers in conferences/seminars around the world (US, London, Glassgo, Paris and Istanbul) and 10 papers in national conferences He is also peer reviewer of several international journals as urologia internationalis and he is an editor in the nephrology research journal.Dr. Gaber is an active member of many international urological associations and societies including the European Association of Urology and the Egyptian journal of urology.