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Urethral advancement and glanuloplasty with V flap of the glans in the repair of anterior hypospadias

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Abstract

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BACKGROUND: Hypospadias is a common urethral anomaly in boys. More than 65% of hypospadias cases are anterior (glanular, coronal and distal penile shaft). More than 200 original techniques have been applied to correct hypospadias. Each of these techniques has some complications, the most common of which are fistula and meatal stenosis. **METHODS:** A total of 74 boys with anterior hypospadias underwent the procedure of urethral advancement and glanuloplasty (UAGP) with V flap of the glans in our medical centres between March 1994 and March 2000. The procedure included degloving, correction of chordee, urethral mobilization and glans plasty. **RESULTS:** Cosmetic results were excellent in most patients. There was no fistula, and meatal stenosis was also not observed after applying V flap of the glans. In a 1-6-year follow-up (mean \pm SD, 3.15 ± 1.79 years), the results, functionally and cosmetically, were satisfactory in all cases, with no long-term complication or chordee. **CONCLUSION:** Our findings suggest that UAGP is an excellent technique for repairing anterior hypospadias with satisfactory results and low complication rate. © 2006 Elsevier. All rights reserved.

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