

## PP-13 Method Of Fixation Of The Glans Penis During Surgical Operations For Hypospadias In Children

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**Objective:** To assess the impact of the method of fixation of the glans penis on postoperative complications. **Materials and Methods:** A retrospective analysis of the medical histories of 155 patients, aged 6 and older, who underwent surgery at the Republican Specialized Applied Research Center of Pediatrics from 2015 to 2023, was conducted. During the operations, absorbable surgical sutures PDS 5-0, 6-0 were used; and urethral catheter was installed for 5-8 days. The following were performed: glanular – in 45 patients; distal penile – in 59 patients; midshaft – in 22 patients; proximal penile – in 20 patients. In 80% of cases, the TIP operation was performed. In 10% of cases two-stage (Bracka) operation was performed, with the rest 10% being the Mathieu operation. The standard fixation of the glans penis involves suturing the glans penis at its apex. Our technique of glans penis fixation takes into account the axis of the urethra, eversion meatoplasty of the artificial meatus with a fixing first nodal suture on the neourethra. It was used in 88 cases, and the standard one - in 67 cases. **Results:** Patients, who underwent surgery using the standard technique with suturing of the glans penis in the postoperative period had a slight curvature of the penis in 9 (13.4%) cases, skin-urethral fistulas - in 13 (19.4%) cases and meatal stenosis - in 8 (11.9%) cases. With the everting fixing suture on the glans penis the following were observed: slight curvature of the penis in 2 (2.2%) children; skin-urethral fistula in 9 (10.2%) children; meatal stenosis in 4 (4.5%) children. **Conclusion:** The cosmetic indicators improve after using this method of fixation of the glans penis compared to children operated with the standard technique. This is associated with the straightening of the urethral plate due to the fixing meatal everting sutures. Correction of the neomeatus with everting sutures on the glans penis eliminates the decrease in urine flow, reduces the degree of deviation of the stream direction from the axis of the penis, thereby allowing to reduce hydrodynamic disturbances in the area of the anastomosis of the hypospadiac urethra.

**Keywords:** Glans penis fixation Hypospadias Postoperative complications