

PP-24 Evaluation Of Midline Incisional Heineke-Mikulicz Type Penile Plication In  
Hypospadias Patients

Poster Bildiri

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**INTRODUCTION:** Repair of penile curvature during hypospadias surgery is a core principle. Midline dorsal incisional Heineke-Mikulicz type penile plication for penile curvature in hypospadias patients is evaluated. **MATERIALS AND METHODS:** Among 156 hypospadias patients, 35 had penile curvature (22,4%) which needed to be corrected during surgical procedure. The mean age of the patients was 4,88. After degloving the penis, tourniquet was applied and Gittes test was performed. The degree of curvature was measured by a smart phone application (Angle Meter). Midline dorsal incisional Heineke-Mikulicz type penile plication was performed at the point of maximal curvature. After plication, Gittes test was performed again to confirm if curvature was corrected. **RESULTS:** The curvatures were detected in 8 distal, 16 mid-penile and 11 proximal hypospadias patients. Degree of the curvature was between 30-45°. In 4 of the patients double plication was performed in whom the curvature was 40-45°. The length of the tunica albuginea incision was kept about 8 mm for single incisions and about 6 mm in multiple incisions in order to avoid composing humpback. The penis was straight in 34 patients and about 10° residual curvature was persisted in one case. TIPU was the chosen urethroplasty technique for distal and mid-penile cases. In 5 of the proximal cases, one stage repair again by TIPU was performed due to well-developed urethral plate. In 6 of the proximal cases, staged repair by Byar's flaps was performed. Mean follow-up of the patients is 18 months and no complications due to penile plication were detected. **CONCLUSION:** Midline dorsal incisional Heineke-Mikulicz type penile plication is safe to perform in hypospadias patients. It can be administered on more than once according to the severity of curvature without significant complications. Longer incisions should be eluded not to form humpback.

**Keywords:** hypospadias, penile plication, midline incisional