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Use of Bipedicled Dorsal Penile Flap with Z Release Incision: a New Option in Redo Hypospadias Surgery.

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Abstract

OBJECTIVES: To solve the challenge in redo hypospadias surgery; we tried the use of bipedicled dorsal penile flap with Z release incision in failed hypospadias cases and reported the outcome.

MATERIAL AND METHODS: Thirty male children with 3 or 4 previous unsuccessful hypospadias surgeries were included in our study. Our technique was done after at least 6 month from the last surgery. A flap of the dorsal penile skin is preserved and the skin lateral is dissected on each side. A small opening is done in the dartos proximal to flap. The glans is withdrawn through this opening with transposition of the flap ventrally. Z-plasty is used to compensate for the deficient dorsal skin; it has 3 limbs, all are made of equal length.

RESULTS: Mean age of patients was 5.4 ± 1.8 years and the mean follow-up was 2.1 ± 0.7 years. The technique was successful in 80%. Reoperation was required in 3 cases; all of them were managed using two-stage buccal mucosal graft. Small fistula at the coronal level developed in 2 cases but closed spontaneously within 1 month. All patients were voiding well and had a vertically oriented meatus at the tip of the glans and satisfactory cosmetic results.

CONCLUSIONS: Repair of failed hypospadias using bipedicled dorsal penile skin flap with Z release incision is a safe and simple procedure offering high success rates.

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KEYWORDS: bipedicled flaps; pediatric; penile skin; redo hypospadias

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