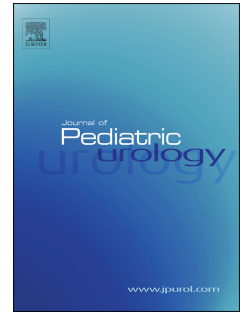


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The role of preoperative intramuscular testosterone in improving functional and cosmetic outcomes following hypospadias repair: A prospective randomized study

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Summary

Background

There are very few well-designed studies on the role of preoperative testosterone in hypospadias repair. The aims of the current study are to ascertain the efficacy of intramuscular testosterone in increasing the glans width, reducing the complications and improving the functional and cosmetic outcomes.

Materials and methods

Between January 2013 and December 2016, a total of 200 patients with distal hypospadias were recruited to this prospective randomized study. Only patients with distal hypospadias eligible for a tubularized incised plate (TIP) repair were included. Group 1 did not receive any intervention, and group 2 received three doses of intramuscular testosterone enanthate 2 mg/kg at the age of 9, 10, and 11 months. Glans width was measured in millimeters in all patients using calipers at the time of recruitment and at the time of surgery. Within group 2, those who failed to have more than a 2 mm increase in size were considered non-responders (group 2a), and the remaining were taken to be responders (group 2b). TIP repair was performed by the same surgeon, and patients were followed

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