



High grade persistent ventral curvature after multiple hypospadias surgery: how to correct?

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ABSTRACT

Introduction: A challenging situation in proximal hypospadias is the presentation of patients with successful urethroplasty but with persistent or recurrent ventral curvature (VC) after multiple hypospadias repair.

Materials and Methods: We present a 13 year-old boy with 7 previous surgeries (long TIP, Duplay, meatoplasty) to treat hypospadias presenting with 60 degrees of VC, in spite of a well-accepted coronally neomeatus. We degloved the penis and artificial erection clearly appointed corporal disproportion causing curvature. We disconnected urethra from corpora. After excision of remnant fibrotic tissue, there was a residual curvature so a lenghtening corporoplasty with dermal graft from groin was performed. We have adjusted the urethral meatus position into a proximal penile shaft. We used a buccal mucosa graft placed in an inverted U-shape position planning a second stage urethroplasty (1). An indwelling silicone Foley tube was left for one week. The patient was discharged the day after surgery.

Results: The aspect after corporoplasty proved satisfactory curvature correction. Patient had an excellent outcome and is scheduled for a second-stage after 6 months.

Discussion: Snodgrass and Bush (2) reported that on 73 patients with an average of 2.7 operations for proximal shaft to perineal hypospadias; of which, 83% had VC at re-operation averaging 50°. We do believe that some good results with minimal dorsal plicature may recur in adolescence and therefore when these procedures may be considered, they should be performed by classic Nesbit technique (3). Otherwise, the choice for primary ventral lengthening should be taken. *Conclusion:* Severe curvature associated with hypospadias should undergo a major procedure at early stage to avoid decompensation after dorsal plicature in adolescence. We had a very satisfactory result, the patient awaits the second stage procedure (Figure-1).

Figure 1 - End aspect after complete healing of buccal mucosa. Notice that penis is straight and second stage will be performed after 6 months of interval.





REFERENCES CONFLICT OF INTEREST

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Submitted for publication: April 27, 2021

None declared.

Accepted after revision: May 12, 2021

Published as Ahead of Print: June 20, 2021

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Available at: http://www.intbrazjurol.com.br/video-section/20210353_Cruz_et_al

Int Braz J Urol. 2022; 48 (Video #5): 365-6