#### Application of the modified Cecil-Culp repair in the treatment of penile amputation during neonatal circumcision



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#### **Initial Presentation**

 7-day-old FT male transferred after glans and penile shaft transection after ritual circumcision

 Excessive bleeding noted but hemodynamically stable





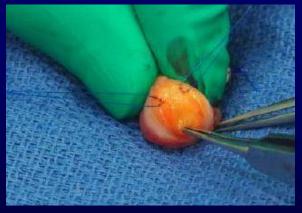




### **Emergent Operative Repair**

- Urethra was reanastomosed
- Tunica albuginea of each corporal body reapproximated
- Unsuccessful attempt at microscopic dorsal vascular and nerve anastomosis













## Application of Cecil-Culp Repair

 Concern for distal penile shaft and skin ischemia

 Cecil-Culp repair performed by circumferentially surrounding the corporal bodies and urethra with well-vascularized scrotal tissue



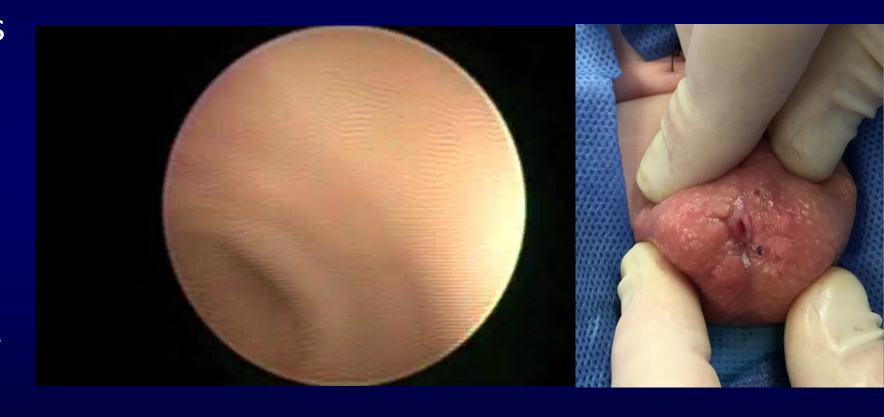




## 1 Month Follow-up

 Patient undergoes cystoscopy which confirms a well healed urethral anastomosis

Undergoes trial of void successfully





## 15 Month Follow-up

- Two-stage Cecil release
  - 1<sup>st</sup> stage: Parallel skin incisions to mature vascularity to skin graft
  - 2<sup>nd</sup> stage: skin fitted around the corporal bodies and urethra



Prior to 2nd Stage







# 35 Month Follow-up

Continues to do well

Spontaneous erections

Straight urinary stream

 Will discuss management of hairbearing transplanted skin as he approaches puberty





#### **Modified Cecil-Culp repair**

- Cecil-Culp technique first described in 1940s to provide a temporary vascular bed for complex hypospadias repair
- Modified Cecil-Culp repair involves take down of the repair in a delayed fashion (9-12 months) to increase vascularity of transferred tissue <sup>1</sup>
  - Can be used in a variety of complex cases where vascularity is questionable and penile shaft skin is lacking
- First reported use of Cecil-Culp repair for this indication with good result

<sup>&</sup>lt;sup>1</sup> Weiss, D. A., C. J. Long, J. R. Frazier, A. R. Shukla, A. K. Srinivasan, T. F. Kolon, H. DiCarlo, J. P. Gearhart, and D. A. Canning.. 'Back to the future: The Cecil-Culp technique for salvage penile reconstructive procedures', *J Pediatr Urol*, 2018



## Thank You



