

MANAGEMENT OF CHALLENGING HYPOSPADIAS CASES:

SHORT AND LONG TERM COMPLICATIONS

Selçuk Yücel, M.D.

Professor in Urology and Pediatric Urology

**Acibadem University School of Medicine
Istanbul, Turkey**

*Pediatric Urology Center
Urinary Incontinence and Bladder Health Center
Urethral Diseases and Male Health Center*

CHALLENGING CASE ???



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CHALLENGING CASE???

- PRIMARY ? SECONDARY ? CRIPPLED ?
 - CURVATURE
 - PENILE LENGTH
 - URETHRA
 - GLANS
 - SKIN
- EXPECTATIONS





CHALLENGING CASE???

- PROXIMAL HYPOSPADIAS
- PREPUBERTAL SECONDARY SURGERY
- PREPUBERTAL CRIPPLED SURGERY
- POSTPUBERTAL CRIPPLED SURGERY
- EXPECTATIONS



CURVATURE

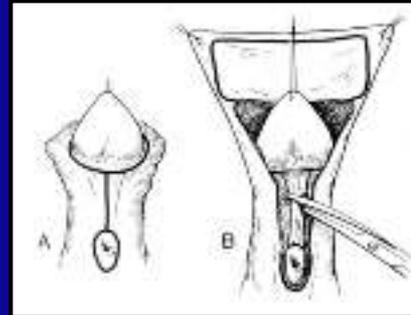
All secondary cases require artificial erection

1. Degloving

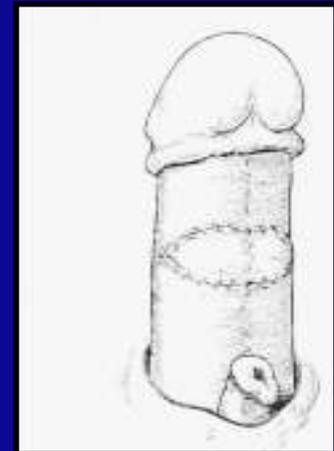
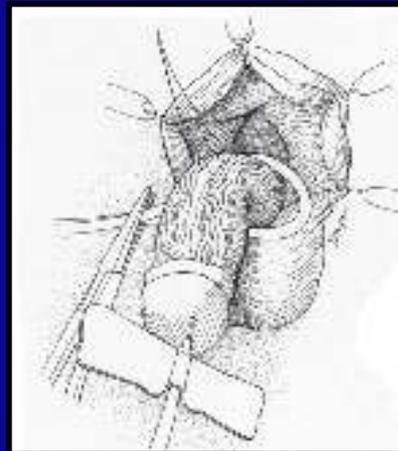


2. Plication

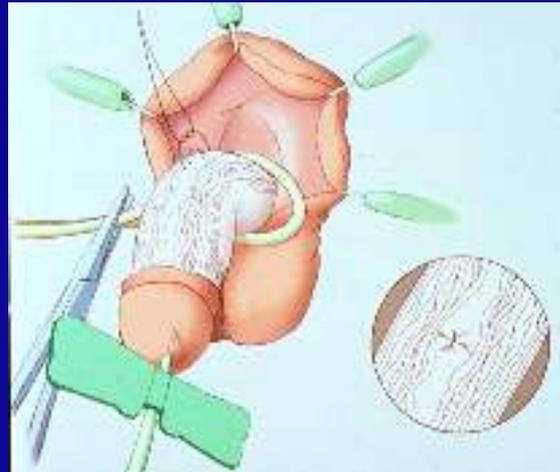
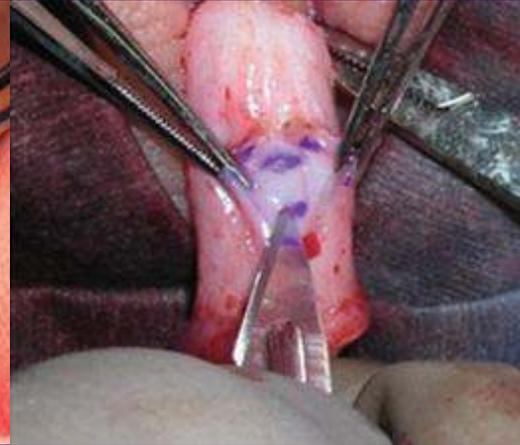
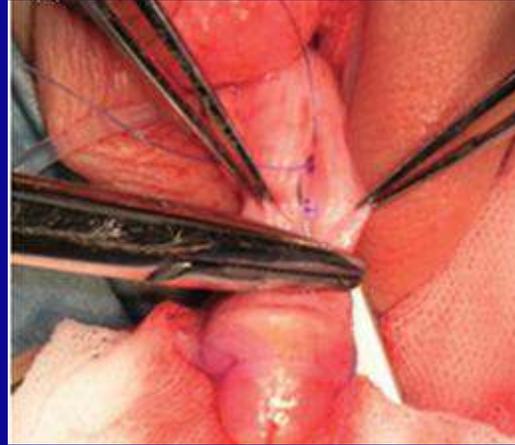
3. Grafting

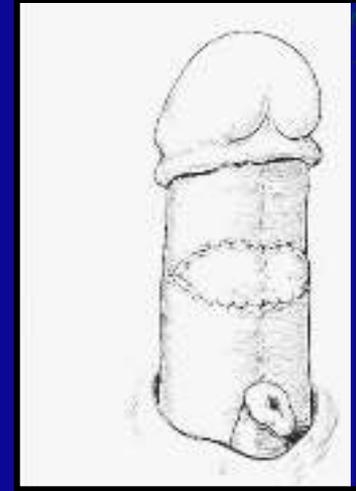
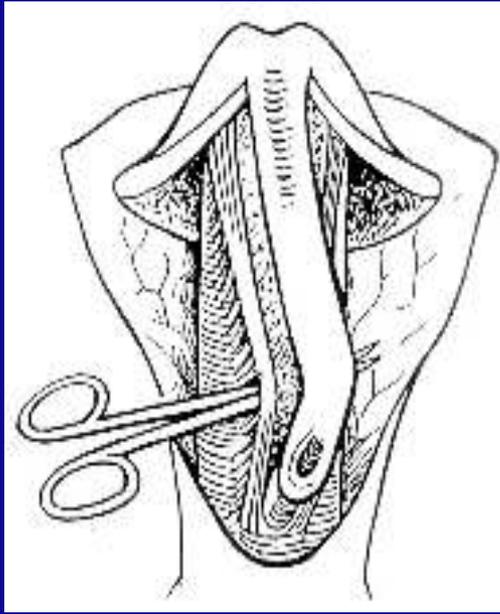


4. Total penile disassembly with/without corporal rotation



Preservation of Urethral Plate





Graft (Dermis or SIS)

Fairy cuts
3 cuts btw 4-8 o'clock



Vaginalis flap

Exaggerated plate mobilization
Bulbar mobilization

Huge defect



PENILE LENGTH



- Penis is short in prox cases
- Length is an issue in postpubertals
- Postsurgical shortening can be managed

URETHRA

- Availability of urethral plate
- Single/ Two session
- Three sessions
- TIP /redo TIP
- Onlay
- Fasciocutaneous flap
- Skin graft
- Buccal graft

Proximal Hypospadias TIP Steps



Minimal plate mobilization
Width 8 mm



Two layer closure



Spongiosal dissection



Spongioplasty



Barrier layer



Extensive glanular dissection
No Strech glanular closure

URETHRA



Proximal Hypospadias 2 Session Byars Flap Steps



Severe Curvature



Flap



Make sure a staright and long penis



Ventral Flap Fixation



Pre 2nd Session



Tubularization



Reconfiguration

Proximal Hypospadias 2 Session Grafting Steps



Buccal grafting



2nd session



Tubularization and barrier



Byars flap 1st session



Buccal mucosa



2nd Session Inlay



Tubularization

URETHRA



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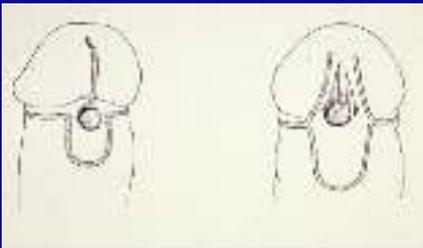


URETHRA



GLANS

- The most common reported complication....
- Cosmetic defining factor.....



SKIN

- The most challenging stage in postpubertals
- Penopubic ve penoscrotal angle
 - Scrotal flap
 - V-Y advancement
 - Z plasty

 - Nearby plastic surgeon....