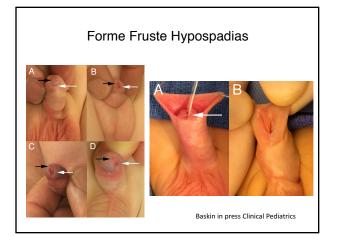
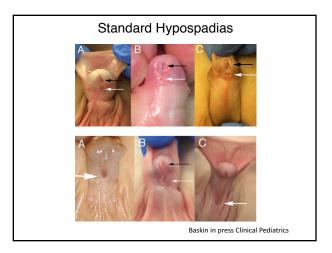


Hypospadias comes in many varieties

**Defining Hypospadias** 

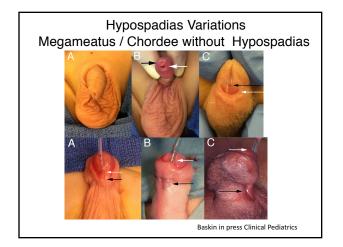
Ectopic Urethral Meatus Abnormal Spongiosum Asymmetric Foreskin Penile Curvature Penoscrotal Transposition











| Types of Hypospadias  |  |                     |   |   |
|---|--|---------------------|---|---|
| Types of<br>Hypospadias                                     | Meatus   | Penile<br>Curvature | Foreskin  | Examples  |
| Forme Fruste  | Normal or<br>Distal Glans with<br>Urethral pit     | None                | Normal to<br>mild ventral<br>deficiency                     | Distal Glandular meatus with<br>urethral pit<br>Asymmetric Foreskin<br>Glandular Separation             |
| Standard<br>Hypospadias                                     | Glans, Coronal<br>margin, Penile<br>shaft, Scrotum | Mild to moderate    | Ventral<br>deficiency                                       | Normal Glans width > 13 mm<br>(first year of life *)  |
| Severe<br>Hypospadias<br>Diagnostic<br>work-up<br>indicated | Scrotum,<br>Perineum                               | Severe              | Ventral<br>deficiency<br>foreskin<br>fusion with<br>scrotum | Small glans < 14 mm *<br>Severe curvature<br>Foreskin fusion to Scrotum<br>Disorders of sex Development |
| Hypospadias<br>Variations                                   | Normal or<br>Wide                                  | None to<br>moderate | Normal  | Megameatus<br>Chordee without hypospadias<br>Circumcision injuries                                      |

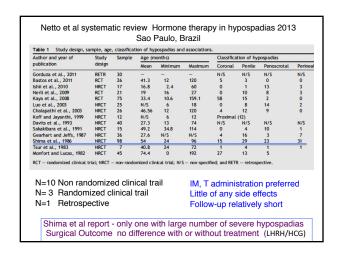
Who needs a pre-operative hypospadias work-up?

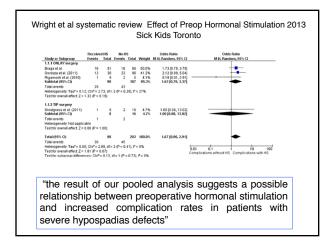
- No testes
- One testis
- Severe
- Does not look right! (Standard versus Varsity, Hypospadias) (DSD)

What is the work-up for "Varsity"/DSD Hypospadias?

- Karyotype
- Sonogram
- Testosterone, DHT, LH, FSH, MIS
- HGG/ACTH stimulation
- Exogenous Testosterone

Does preop Testosterone work? Yes, When you don't need it. Sometimes ? Not at all time! What does the data say ?





## Conclusion

Proper studies have not yet been done to determine whether Preoperative androgen stimulation is effective in improving hypospadias surgical outcomes

## Its use however appears safe !

Professional opinion is to use testosterone / HCG in the diagnostic workup of severe/varsity hypospadias