Top 5 Questions I Get From PCPs

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Disclosures

I DO NOT

- Have any financial interests in any products I will be discussing
- Have any financial interests in the companies supporting this

I WILL NOT

Discuss pharmaceuticals, medical procedures or devices that are investigational or non-FDA approved



Learning Objectives

- · To summarize some of the most common presenting pediatric urologic complaints
 - N.B. I will NOT be discussing voiding issues—these have their own hourlong talk!!
- · To describe the criteria for follow up and specialty care for children with urologic complaints in primary care





Top 5 Questions

- · Should I circumcise this little boy?
- · Does this young man need a circumcision revision?
- My newborn patient had prenatal hydronephrosis....help?
- · What do I do about retractile testicles?
- (Insert name of genitalia) hurts....now what?

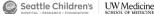


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Should I Circ this Little Boy?

- · Neonatal circumcision is a hotly contested topic
- AAP has stopped short of endorsing neonatal circumcision for all males in the United States
- UTI risk remains increased for uncircumcised compared with circumcised males in first year of life
- · Cultural considerations remain important



Important Factors When Considering Circumcision

- · Penile anatomy
 - · Hypospadias
 - Chordee Torsion
 - · Penopubic and penoscrotal junctions
- · Family preference
- · Infectious disease history and risk



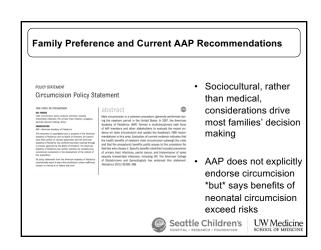
Penile Anatomy

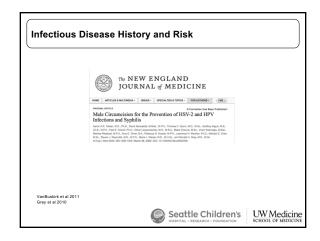
- · If hypospadias, chordee, or torsion is present, recommend deferring circumcision
 - · Possible exception for very distal glanular hypospadias or dorsal hooded foreskin without chordee/torsion/hypospadias
- · Except for very proximal hypospadias or prominent chordee, preputial tissue is rarely used for reconstruction (but save it anyway)
- Poor penoscrotal and penopubic junctions can create a true "buried" appearance after circumcision

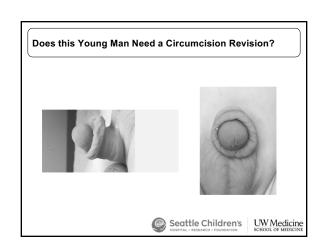


Poor Penopubic/Penoscrotal Junctions Seattle Children's UW Medicine

Hypospadias/Chordee: Consider DSD Diagnoses! Seattle Children's UW Medicine



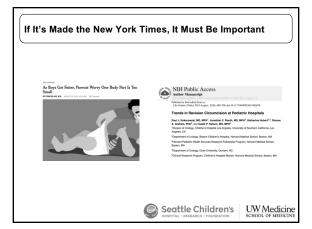




Does this Young Man Need a Circumcision Revision?

- · Many (maybe most) circumcision revision requests are on children whose penile anatomy was not appropriate for neonatal circumcision
- Need to balance anesthetic and surgical risks with cosmetic and functional risks when considering revision
- In some cases, children will "grow out" of this as suprapubic fat pad decreases in size





What About the Locker Room?

Teasing in School Locker Rooms Regarding Penile Appearance

Siobhan E. Alexander, Douglas W. Storm and Christopher S. Cooper*

- · 10% of boys were teased about penis
- · 47% witnessed others being teased about penis
- 33% of teasing was about uncircumcised or "strange" looking penis
- 3% of boys desired a different looking penis







"Real" Indications for Revision

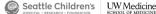
- Cicatrix
- Truly buried penis (e.g. flush with skin)
- · Epithelialized adhesions with a large amount of redundant foreskin
- · Maybe buried head of penis?



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My Newborn Patient had Prenatal Hydronephrosis...Help!

- · Kidneys are the organ most commonly affected by congenital anomalies
- · Hydronephrosis is the most common prenatal renal anomaly (0.6-5.4% of pregnancies) seen sonographically
 - May be a normal part of development
 - More relevant/concerning when in all renal units, associated with ureteral dilatation, associated with other congenital anomalies, associated with oligo-/anhydramnios, or dilatation above cutoffs for gestational age
 - · Ideally should have seen a urologist prenatally for the above



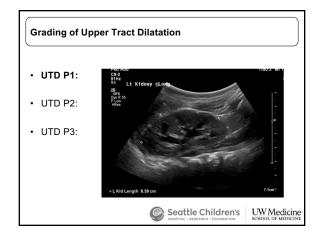


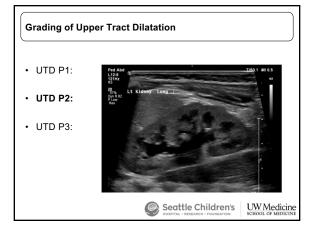
So, What Do I Do?

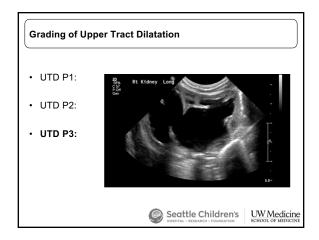
- · Typically a renal-bladder ultrasound is ordered, with instructions to perform after 24 hours of life
 - · Before child is discharged
 - · Should not interfere with parent-child bonding
 - · Early ultrasounds may underestimate true degree of hydronephrosis
- Based on early imaging study, additional (more invasive) testing may be considered
 - VCUG
 - · MAG-3 renal scan
 - Another RBUS

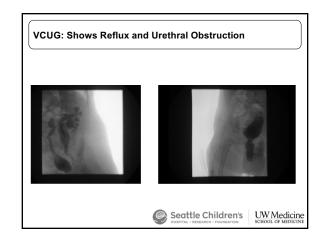


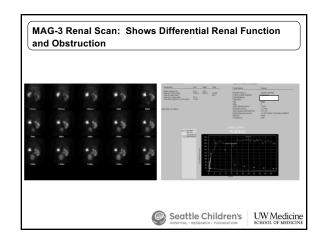
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What Do I Do About Retractile Testicles? Very frequently referred for subspecialist evaluation 53% of PCPs had no exposure to pediatric urology during training 67% of PCPs refer all retractile testes for urologic evaluation Can be retractile owing to poor gubernacular attachments, or increased cremasteric muscle tone About 30% of retractile testes will ascend over time so annual examination by PCP is warranted Shorthavorian et al 2015 WM Medicine Seattle Childrens UW Medicine

Normal Descent of the Testis

- · Testes start up by kidneys
- · Descend through abdomen to level of the scrotum
- · "Descent" mediated by somatic growth, hormones, gubernaculum





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Retractile Testes

- · True cryptorchidism is an entity distinct from retractile testes, wherein the testicle may reach the scrotum but does not remain there
 - · Initially thought to represent inaccurate physical examination techniques
 - · Phenomenon of "testicular ascent" now well documented
 - · Postulated to reflect a testicle with adequate gubernacular laxity to reach the scrotum, but inadequate fixation in the scrotum
- · Longitudinal somatic growth may result in delayed ectopia



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Retractile Testes

- · Longitudinal growth with abnormal gubernacular insertion likely accounts for observed "ascent"
- 30% of retractile testes will ascend over time
- Annual evaluation is recommended until puberty is complete





A Word About the Long Looping Vas

- · Patients with a long looping vas may have a similar examination to those with ascending testes
- · Fixation of vasal loop in scrotum distal to the testicle
- · Vasal loop can feel like small testicular nubbin





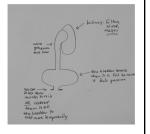
My (Insert Name of Genitals) Hurts....Now What?

- · Very frequent cause of referrals to pediatric urology (maybe #1)
- · Very distressing for parents and caregivers
- · Need a good history on frequency, duration, exacerbating/ ameliorating factors, intensity, character



Almost Always Involves a Component of Elimination Dysfunction

- · Nerves to genitals run directly adjacent to bladder and rectum
- · Typically "burning" pain at tip of penis or in alternating or both testicles



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Differential Diagnosis of Testicular Pain

- Hernia
- · Intermittent or acute testicular torsion
- · Torsion of appendices testis or epididymis
- · Voiding concerns
- Varicocele
- · Urolithiasis



Testicular Torsion

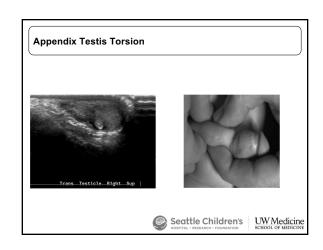
- · Acute onset of unilateral scrotal/abdominal pain
 - · May be accompanied by nausea/vomiting
 - · May follow physical activity or trauma
 - · Pain may improve over time
 - · Nonspecific findings like fever, urinary symptoms
- Unilateral horizontal, high-riding testis
 - · Palpable twist in cord
 - · Reactive hydrocele/scrotal edema may limit
 - · Prehn's sign: relief of pain with "lifting" of testis
 - Absent cremasteric reflex Seattle Child

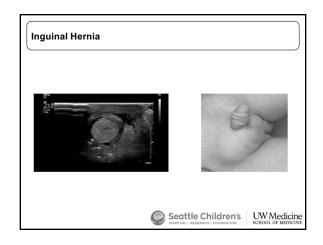




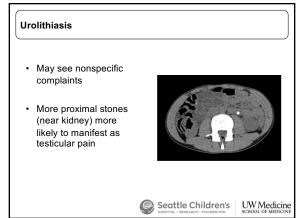


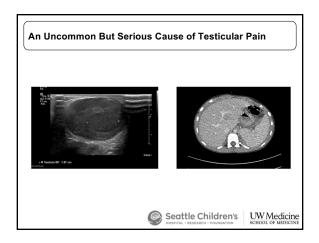
Testicular Torsion Seattle Children's UW Medicine



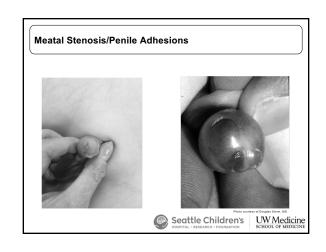


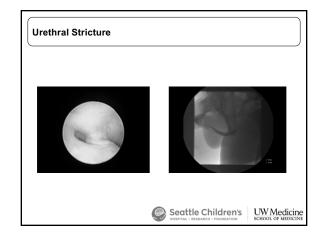


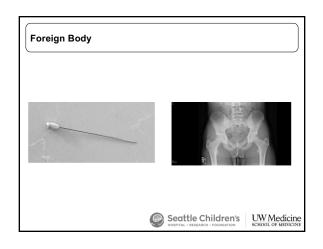




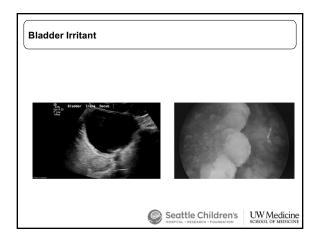
Differential Diagnosis of Penile Pain Stenosis (meatal or preputial) Urethral stricture Frenulum breve? Foreign body Bladder irritant Seattle Children's LW Medicine SCHOOL OF MEDICINE











Differential Diagnosis of Vaginal Pain Labial adhesions Lacerations/abrasions Foreign bodies Vulvovaginitis Seattle Children's SCHOOL OF MEDICINE SCHOOL OF MED

