



Incarcerated Inguinal Hernia

- ☐ Infants: irritable, crying, poor feeding
- ☐ ?Previously reducible mass
- ☐ Vomiting, abdominal distension and/or constipation /obstipation if intestinal obstruction has occurred
- ☐ Firm, discrete, tender inguinal mass extending to scrotum
- ☐ Scrotal erythema & edema
- ☐ Labs and imaging of limited use
- ☐ Ultrasound occasionally helpful to confirm etiology
- Emergent reduction
- Most manually reducible, to OR if impossible in ER
- Once reduced, timing of definitive surgical repair depending upon age and degree of illness

Testicular Torsion

CANNOT MISS!

- ☐ Peak incidence: peri pubertal
- ☐ Pain: Sudden onset, moderate to severe, unilateral
- ☐ Occasional Hx of trauma or previous episodes of pain
- ☐ N/V common
- ☐ TWIST score
- ☐ High-riding testicle, horizontal lie
- ☐ Cremasteric reflex absent
- ☐ Scrotal erythema, edema, testicular tenderness
- ☐ May have reactive hydrocele
- ☐ Colour doppler ultrasound if low risk (low TWIST score) & Dx in question
 - Contraindicated if high likelihood and results in delay
- ☐ U/A generally not indicated and not needed for diagnosis
- High likelihood (high TWIST score) → immediate surgical exploration
 - Surgical detorsion and orchiopexy if viable
 - 97% salvage if <6h from sx onset
- Orchiopexy of contralateral testis

Torsion of Appendix Testis

- ☐ Sudden onset mild-severe pain
- ☐ Uncommon to have N/V or previous episodes of pain
- ☐ "Blue dot sign": palpable tender nodule at superior or inferior pole
- ☐ Cremasteric reflex present
- ☐ Scrotal erythema, edema, nontender testicle
- ☐ Colour doppler ultrasound: normal or increased blood flow to testis, torsed appendage shown as lesion of low echogenicity
- Supportive: analgesics, rest, scrotal support
- Should resolve in 5-10 days
- Surgical removal of appendix testis rarely required

Epididymitis

- ☐ Bimodal incidence:
 - Childhood & sexually active
- ☐ Gradual onset pain
- ☐ Unlikely: Dysuria, frequency, discharge
- ☐ N/V more common with torsion
- ☐ No definitive discrimination with torsion
- ☐ Cremasteric reflex present
- ☐ Scrotal erythema, edema, epididymis tenderness
- ☐ Urinalysis: may be normal
- ☐ STI testing:
 - Urine NAAT for chlamydia and gonorrhea
 - Most common in pre-pubertal: coliforms and P. aeruginosa
- ☐ Colour doppler ultrasound: normal or ↑ blood flow
- No pyuria → no abx, supportive care
- Suspected STI cause: ceftriaxone IM x1 dose + doxycycline PO x10-14 days
- Suspected enteric cause: levofloxacin PO x10 days

Orchitis

- ☐ Occasionally bilateral testicular pain
- ☐ May show systemic manifestations of underlying infection
- ☐ Scrotal erythema, edema, tenderness, shininess of overlying skin
- ☐ Viral: mumps, rubella, coxsackie, and parovirus common
- ☐ Bacterial: brucellosis
- Supportive: rest, NSAIDs, ice packs

