

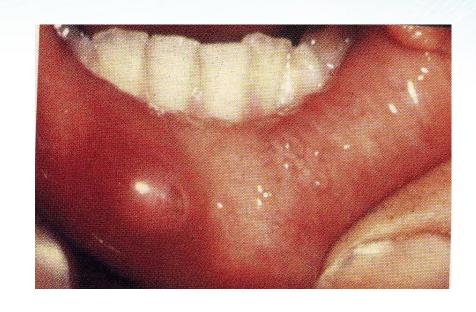
Common Paediatric Surgical Problems in the Primary Healthcare

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Mucus Retention Cyst - Lip

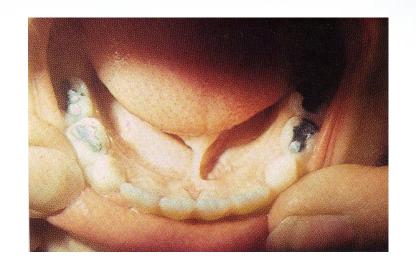
 Caused by extravasation of mucus from or retention of mucus in a minor salivary gland



□ Rx – Excision of the cyst

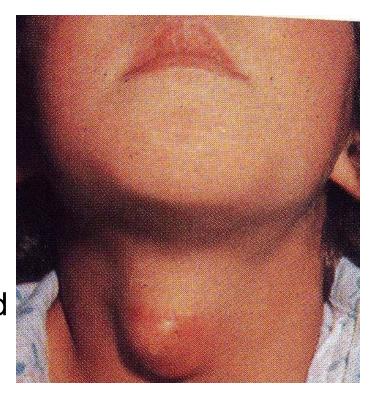
Tongue-Tie (Ankyloglossia)

- Abnormality of the development of the lingual frenulum
- Limited lateral movements
- Breast feeding issues or articulation difficulties
- □ Rx Divided with Iris scissors as an outpatient in those < 2/12
- □ Rx Divided with Iris scissors under GA in older children



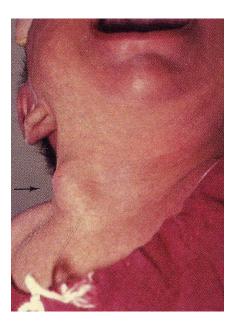
Thyroglossal Cyst

- Congenital mid-line swelling
- Moves with swallowing
- Can be confused with epidermoid cyst, submental lymph node
- □ It can get infected
- USS to ensure that thyroid gland present
- □ Rx Sistrunk Operation (includes excision of the middle portion of the hyoid bone)



Sternomastoid 'Tumour'

- Palpable swelling in the middle third of SCM
- □ Appears 2 to 3 weeks after birth
- Breech or difficult deliveries
- Presents with torticollis
- □ Plagiocephaly
- □ Rx Physiotherapy
 - □ Passive Stretching Exercises
 - □ 90% successful in the first 3/12
- □ Rarely requires surgery
 - □ 5% in those who are Dx early
 - \Box 50% in those presenting > 6/12





Pre-auricular Sinus

- Usually bilateral
- □ Often gets infected
- □ Rx Excise the sinus tract completely. If infected, then I & D initially



Hydrocoele

- Can get above swelling
- □ Transilluminates
- If testis not palpable, getUSS
- □ Leave alone till 24 30 months
- Surgical treatment –
 Ligation of patent
 processus vaginalis





Inguinal Hernia

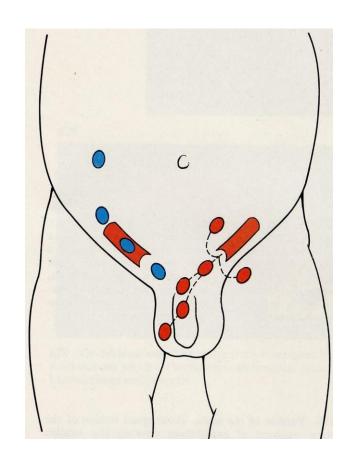
- □ Common in premature infants
- □ Indirect inguinal or inguinoscrotal
- □ 30% in the 1st year of life can incarcerate
- Once Dx made, surgery required
- □ Herniotomy as a day case if infant is >6/12





Empty Scrotum

- □ Undescended testes
 - Palpable intracanalicular
 - Impalpable intraabdominal
- □ Ectopic testes
 - Testis lies out-with the normal line of descent
- □ Retractile testes

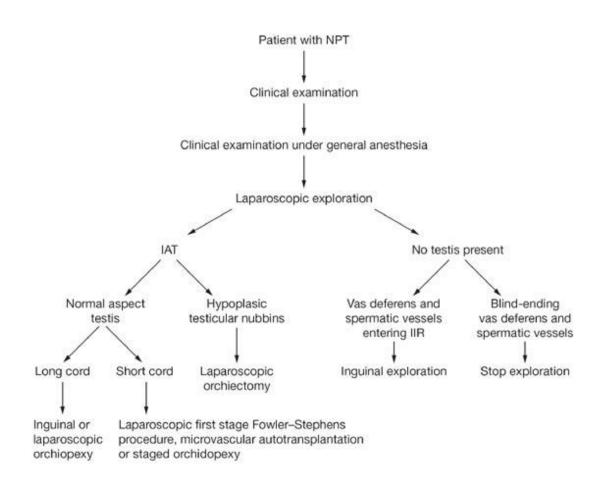


Undescended Testes

- □ By 1 year, incidence of UDT is 0.96%- 1.58%
- Spontaneous descent is rare after 6 months
- Differentiate between retractile testes
- Surgical treatment Orchidopexy by2 years of age
- Lifetime follow-up in view of malignacy risk
 - Increased risk compared to normal population
 - Higher risk in those with bilateral UDT



Impalpable Testis



Retractile Testes

- □ Diagnosed clinically
- □ Brisk Cremasteric reflex
- No surgery required
- □ Annual follow-up
- Majority remain descended by puberty

Umbilical Granuloma

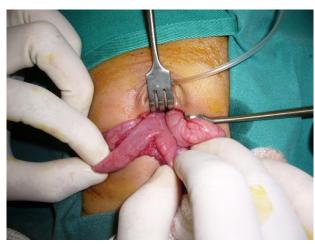
- Overgrowth of granulation tissue at the site of cord
- □ Cauterisation with silver nitrate if sessile in nature
- □ Ligation of the stalk at its base if pedunculated



Omphalo-mesenteric Duct

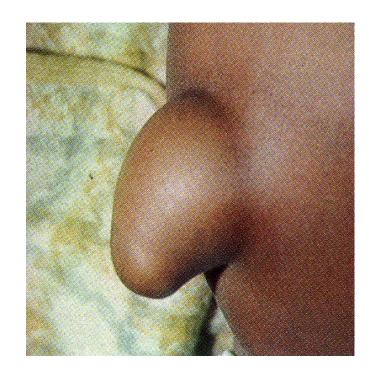
- ☐ Fistula between the ileum and the umbilicus
- □ Discharges meconium and/or flatus
- □ Prolapse of the duct occurs in 1/3 of cases
- □ Rx Total excision with or without attached ileum





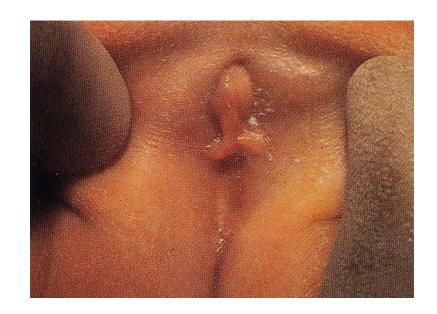
Umbilical Hernia

- Central defect in the fascial layer
- □ Can be left till 3 to 4 years of age
- □ Rare to become obstructed
- Which ones will require surgical repair?
 - □ Defect >1cm
 - Defect with a supraumbilical component



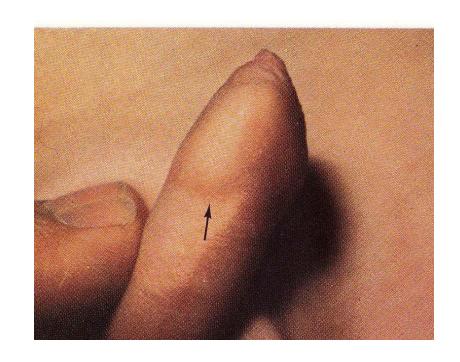
Labial Adhesions

- Aquired condition secondary to inflammation
- Treated by separation with a haemostat or paper-clip
- Edges covered with a petroleum-based antibiotic ointment
- □ Oestrogen cream Premarin



Smegma 'Pearls'

- □ Whitish swelling under the prepuce
- Desquamated skin and body oils
- Leave alone. It will self-discharge once the foreskin starts to retract



Balanoposthisis

- ☐ Inflammation affecting the prepuce, glans and shaft
- Baths, analgesia and antibiotics
- □ Phimosis
 - □ Trial of topical steroids
- □ Circumcision
 - Recurrent balanitis
 - Phimosis





Balanitis Xerotica Obliterans

- □ Fibrosing condition which affects the prepuce, glans and urethra
- Absolute indication for circumcision
- Post-operatively may need topical steroid ointments
- Post-operatively may develop meatal stenosis



Paraphimosis

- Prepuce retracted beyond the glans
- □ Oedema increases the longer the prepuce remains retracted
- □ Ice compress/Retraction
- □ Hyaluronidase injection
- □ Surgery Dorsal slit



Torsion of Testes

- □ Extra-vaginal perinatal
- □ Intra-vaginal "Bell-Clapper"
- □ 65% cases occur from 12 to 18y
- □ Surgery Untwisting and 3 point fixation (Non-absorbable) on affected and contra-lateral side
- □ Survival Outcomes:
 - □ Detorsion within 4 to 6 hrs 100%
 - □ Detorsion after 12 hrs 20%
 - □ Detorsion after 24hrs 0%

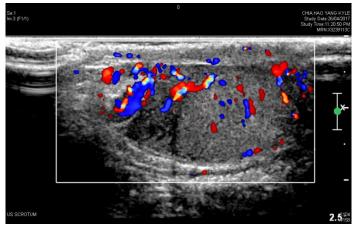




Torsion of Testicular Appendages

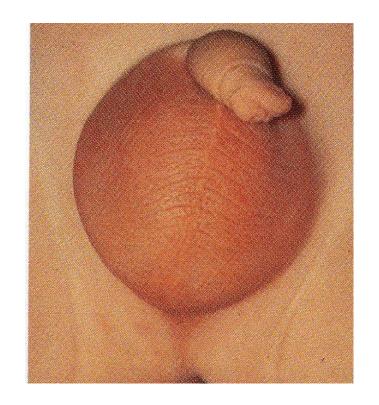
- Torted Hydatid of Morgagni(Appendix testis)
- Remnant of the Mullerian duct
- □ 90% of males
- □ Peak age 11 years
- □ "Blue-dot" sign
- □ Doppler USS
- □ Rx Conservative
 - □ Analgesia
- □ Explore if:
 - □ Very swollen
 - □ USS poor doppler flow





Idiopathic Scrotal Oedema

- Confused with Epidydimo-orchitis & torsion
- Oedema affecting both sides of hemiscrotum
- □ Testes usually nontender
- □ Rx Anti-histamines,
 Penicillin



Appendicitis

- Most common surgical condition of the abdomen
- Periumbilical colicky abdominal pain
- Localised RIF pain with guarding and rebound tenderness
- Beware those with
 - □ Atypical history
 - □ < 6 years of age
- USS
- □ CT
- □ Rx Laparoscopic Appendicectomy





Pyloric Stenosis

- □ 2/52 to 10/52
- Projectile non-bilious vomiting
- □ Family history
- Visible peristalsis
- □ Test feed
- Hypochloraemic, hypokalaemic alkalosis
- Confirmation with USS
 - Muscle thickness:3-4mm
 - □ Muscle length:15-19mm
 - □ Pylorus diameter:>10-14mm





Pyloric Stenosis

- □ 0.45% Saline + KCL
- □ Ramstedt's Pyloromyotomy
 - □ Open –umbilical approach
 - □ Laparoscopic





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Thank You

