

Airway Obstruction

Choanal Atresia

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- Cyanotic at rest but 'pinks up' with crying
- If bilateral, may need oral airway or endotracheal intubation





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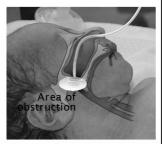


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- Lips
- Gums
- Cheeks
- TonguePalate hard, soft



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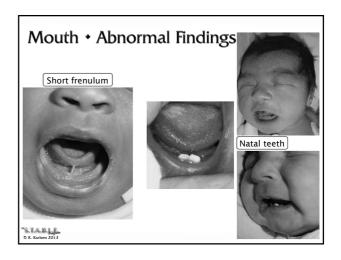
Mouth • Common Findings

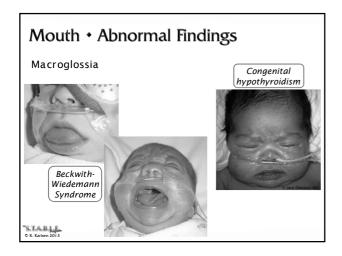
Epstein Pearls

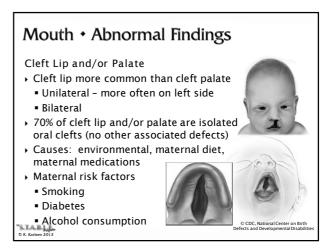
- Milia on midline of hard palate
- Usually grouped, firm, movable, opaque and white
- Very common → 85% of newborns
- May take several months to resolve

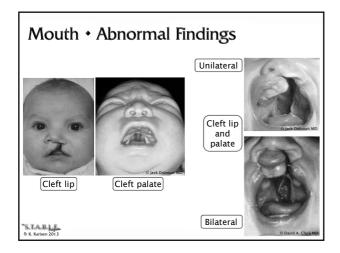


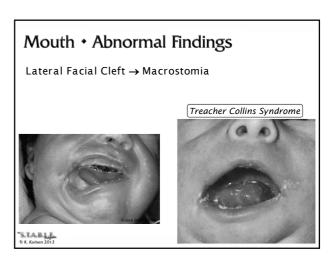


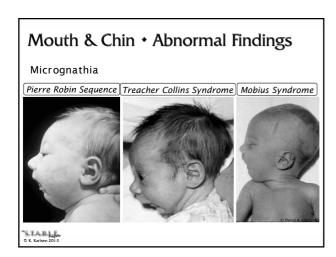


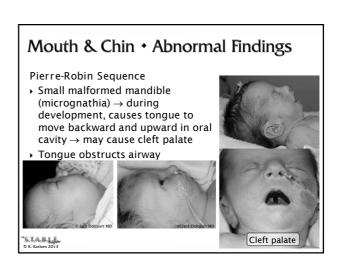


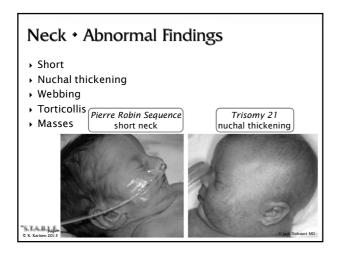


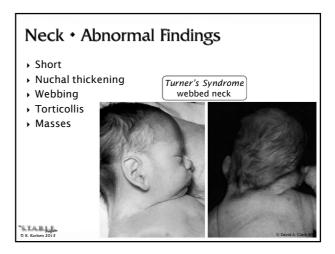


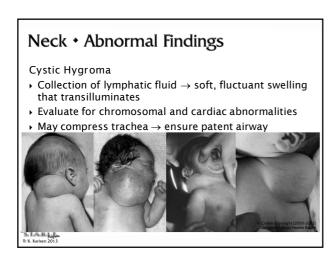


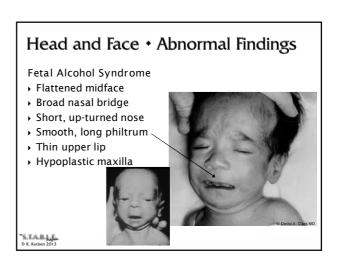


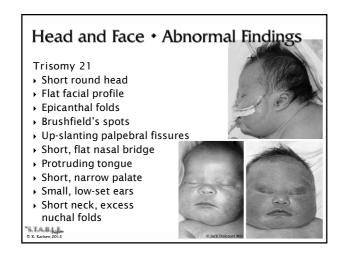


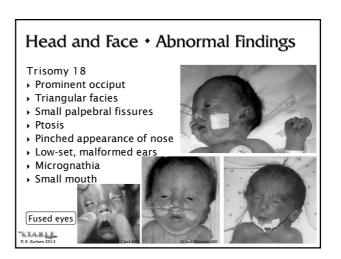


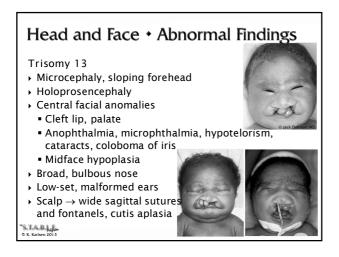


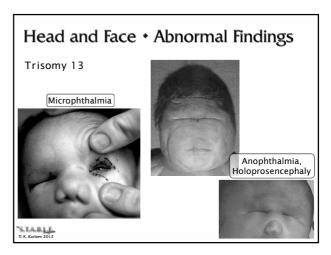


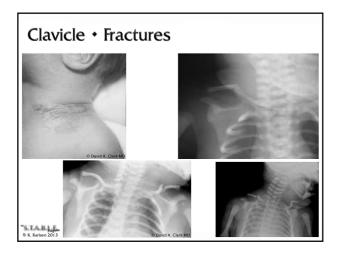


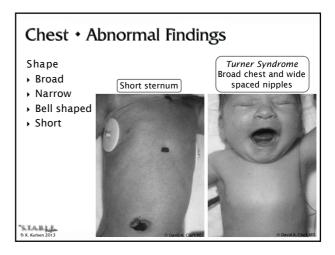


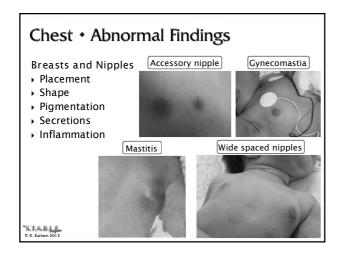


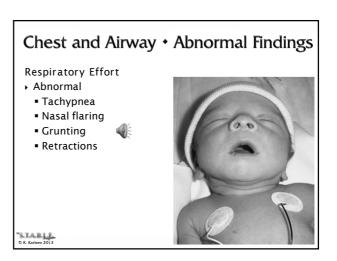


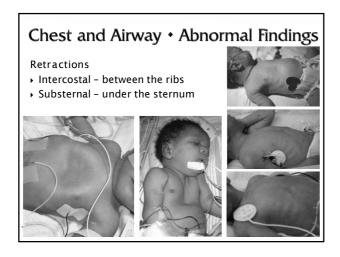


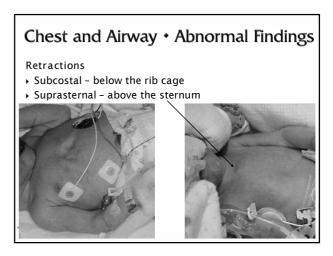


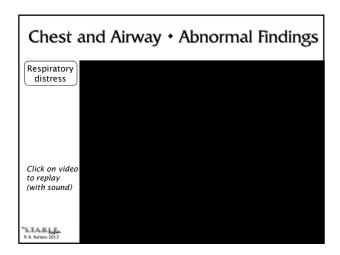


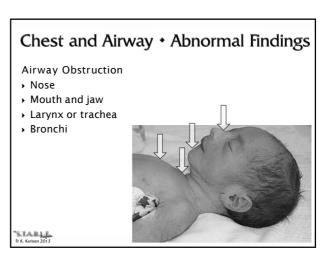


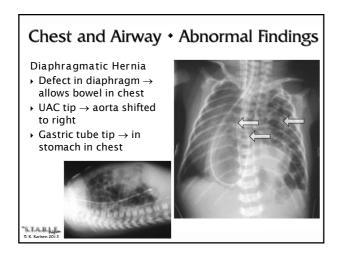


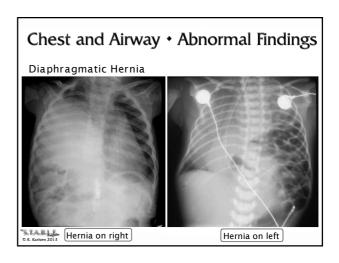




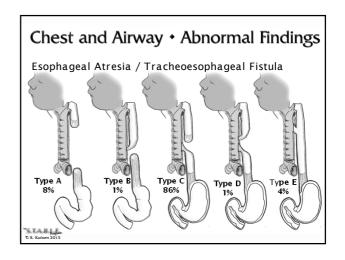


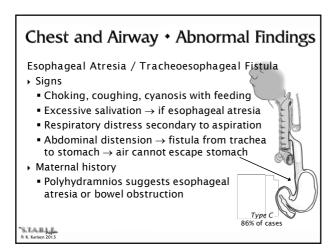


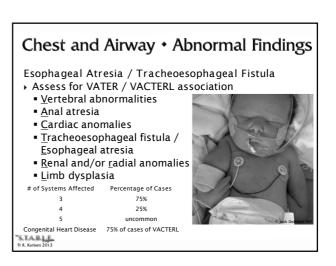


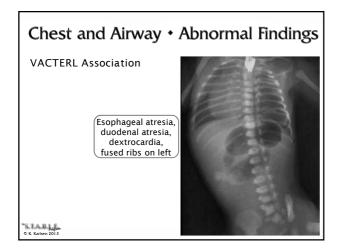


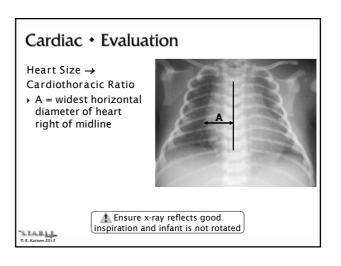
Chest and Airway • Abnormal Findings Diaphragmatic Hernia Presentation 85% occur on left side Usually severe respiratory distress Scaphoid (sunken) abdomen, barrel chest → especially as bowel fills with air Bowel sounds may be heard in chest If left hernia → heart sounds heard in right chest Stabilization Insert gastric tube to prevent air from entering stomach and intestine Intubate and provide gentle ventilatory support

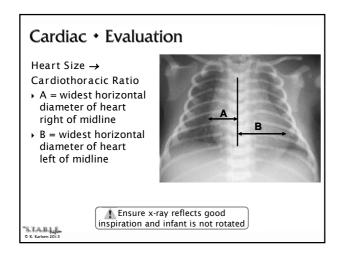


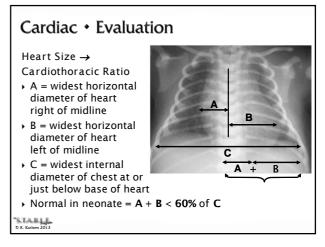


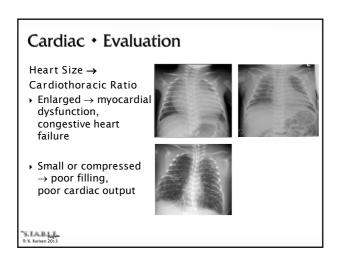


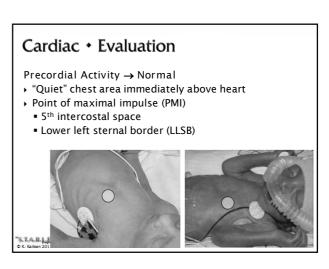


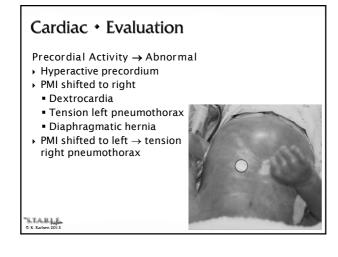


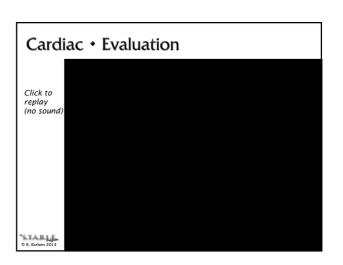


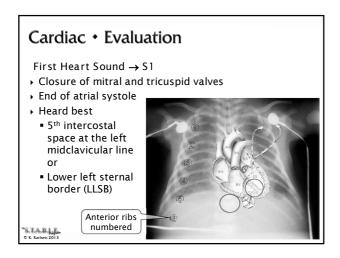


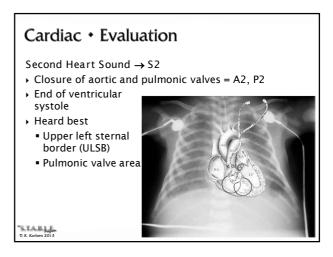


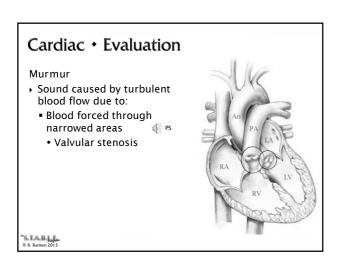


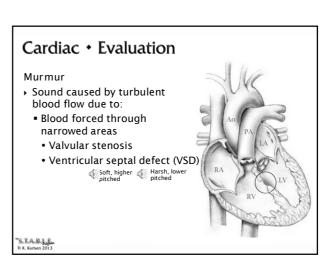


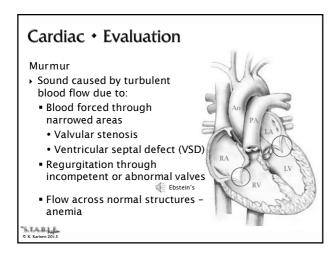


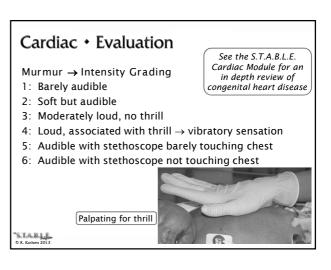


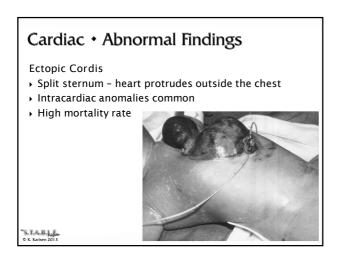


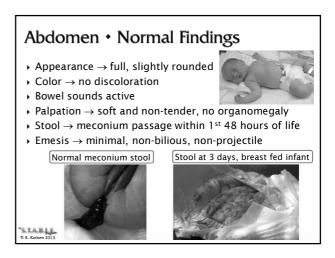


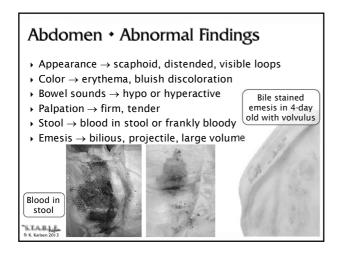


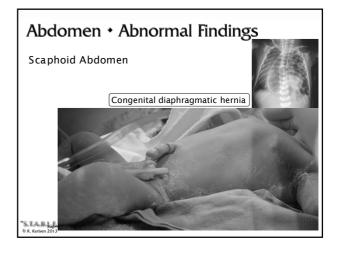


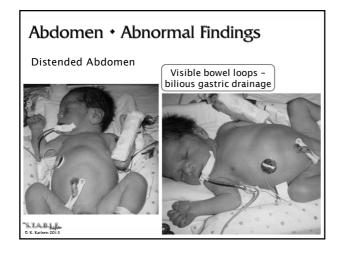


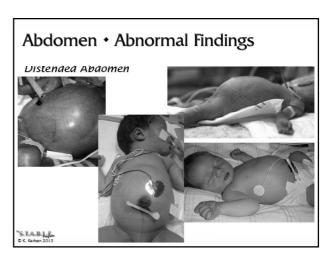


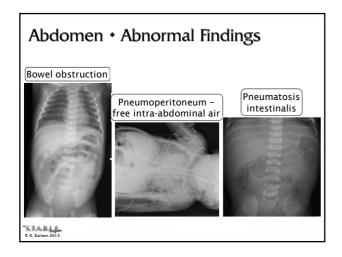


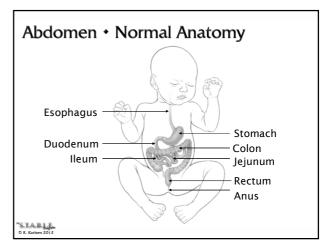


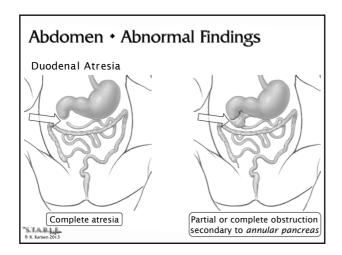


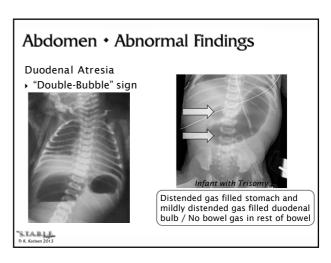


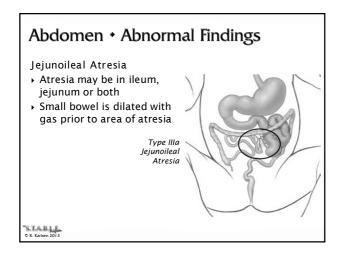


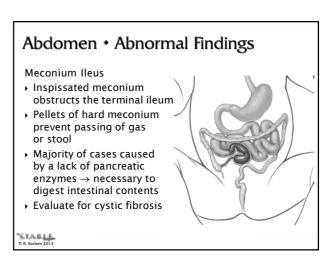


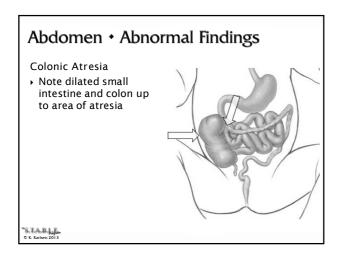


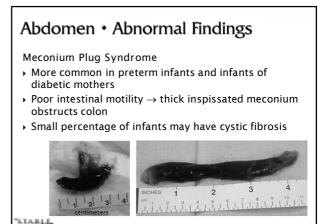


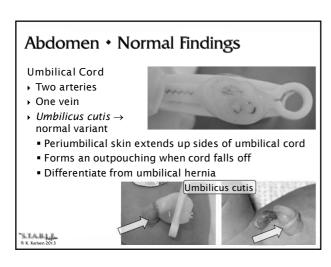


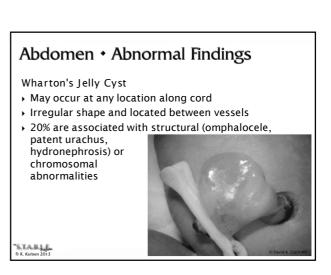


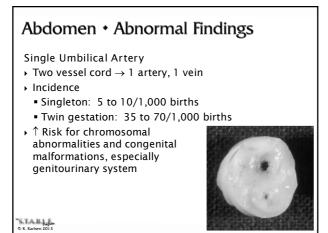


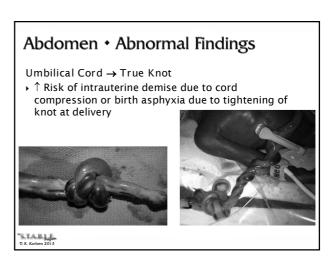


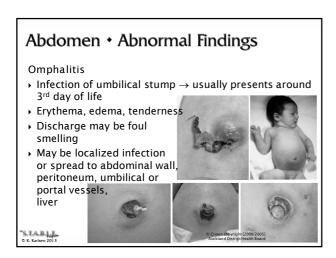


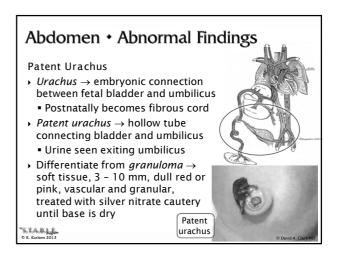


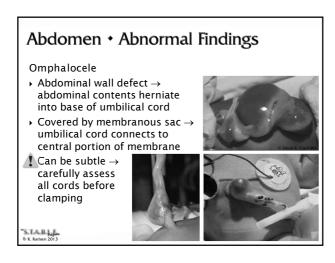


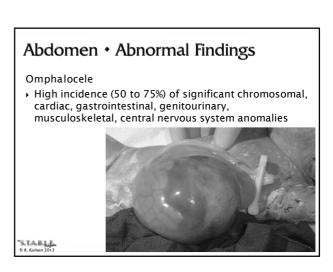


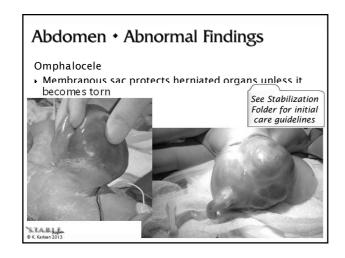


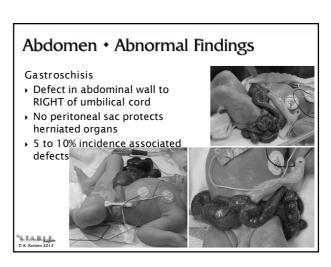


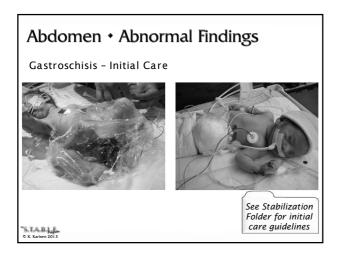




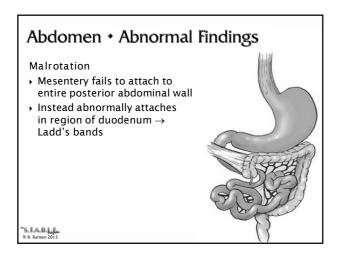


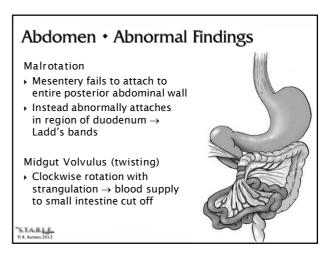


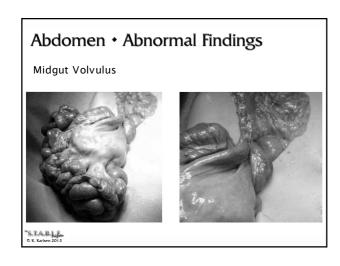


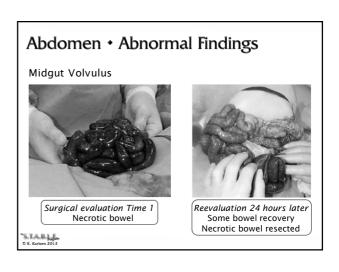




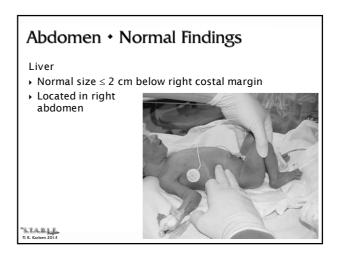


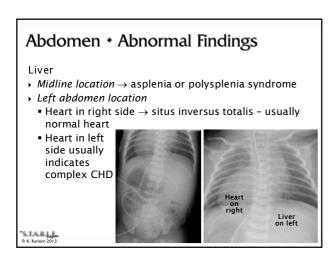


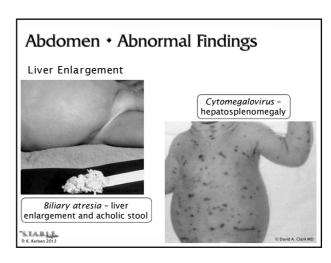


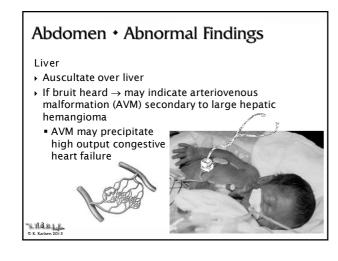


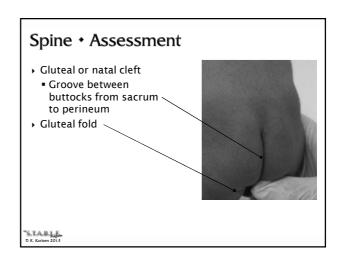
Abdomen • Abnormal Findings Midgut Volvulus - Presentation • Bilious emesis • Abdominal exam • Soft or tender • May or may not be distended • With progressive vascular compromise of intestine, ischemia causes: • Significant pain • Bloody stools • Shock and metabolic acidosis

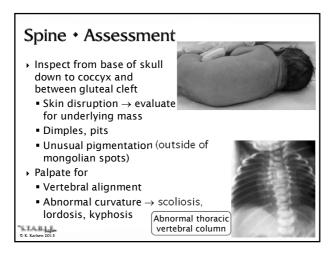


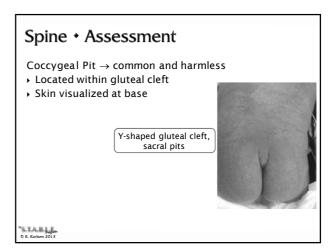












Spine • Assessment

Pit versus Sinus

- > Stretch the skin lateral to dimple
- If skin can be seen covering entire dimple this is a coccygeal pit → benign finding
- ullet If base of dimple cannot be visualized o dermal sinus

Dermal Sinus \rightarrow may communicate with spinal canal

- Associated with occult spinal dysraphism and $\ensuremath{\uparrow}$ risk for meningitis
- Locations → lumbosacral, occipital
- Never probe area → risk of introducing infection

STABLE

Spine • Abnormal Findings

Spinal Dysraphism

- Term used to describe congenital malformation of spine or spinal cord
- Open lesions: neural tube exposed
 → myelomeningocele, meningocele, anencephaly
- Closed lesions: defect covered by skin
 → dermal sinus tract, tethered spinal
 cord, myelocystocele, spinal cord
 lipoma, lipomeningocele (and more)
 Occult Spinal Dysraphism (OSD)
- Synonym used for closed lesions → skin covered neural tube defect

S.T.A.B.L.E.



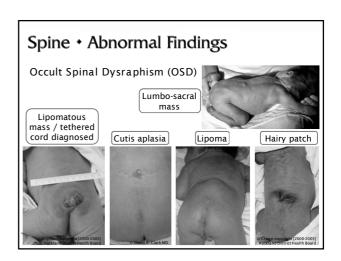
Spine • Abnormal Finding

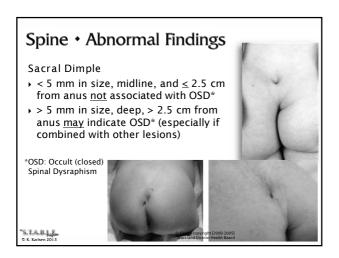
Occult Spinal Dysraphism (OSD)

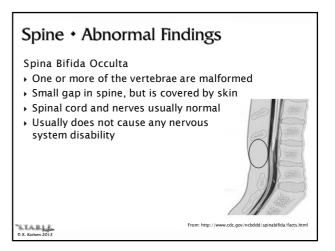
- Most have an associated cutaneous abnormality:
 - Tuft of hair
 - Atypical dimple
 - Skin tag or tail-like appendage
 - Lipoma
 - He mangio ma
 - Cutis aplasia or dermal sinus tract
 - Port-wine stain (concerning especially if other lesions present)
- ightarrow 2 congenital midline skin lesions
- ightarrow strongest marker of OSD

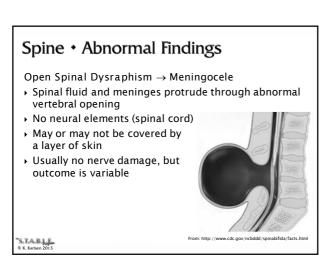
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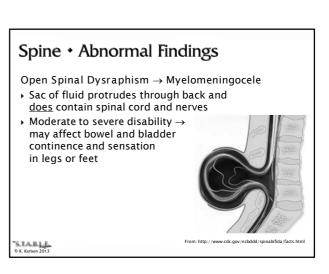


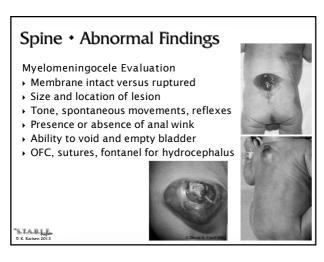


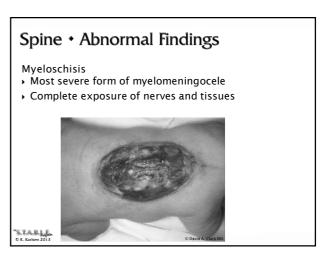


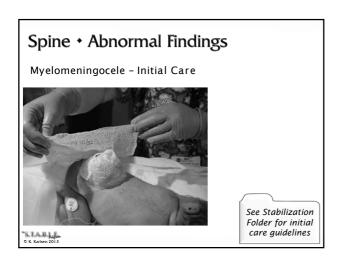


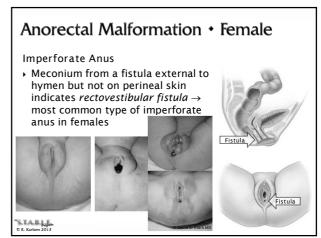


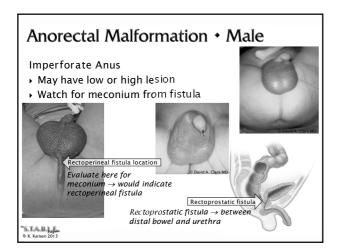


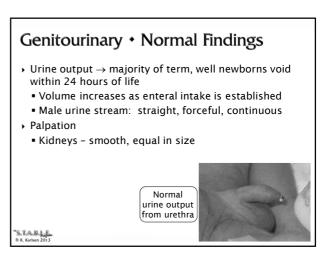


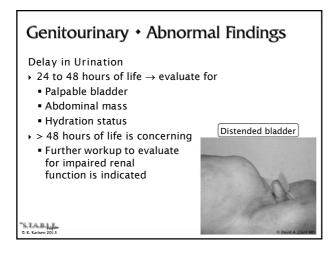


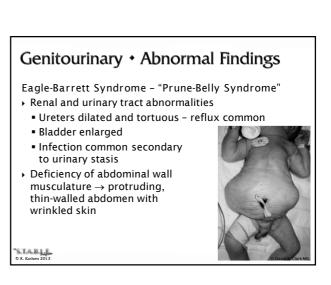


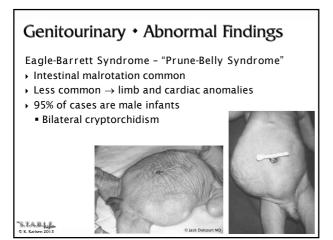


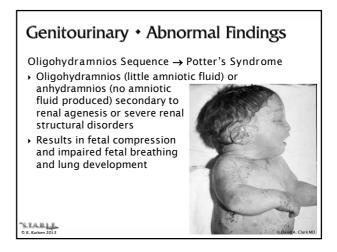


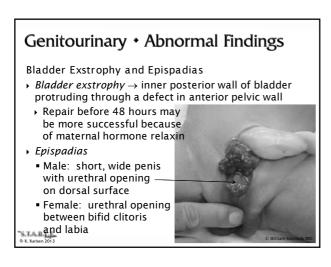


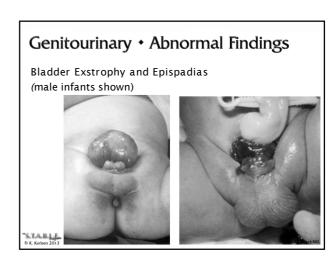


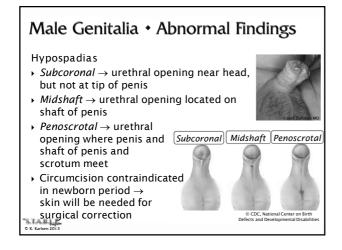


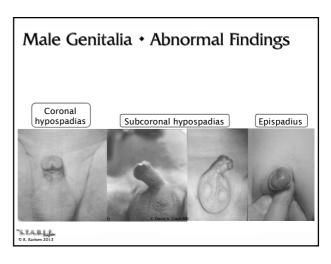


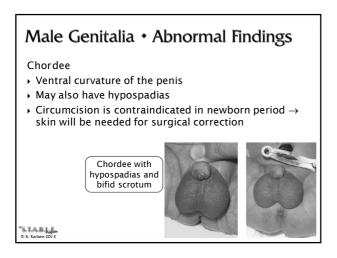


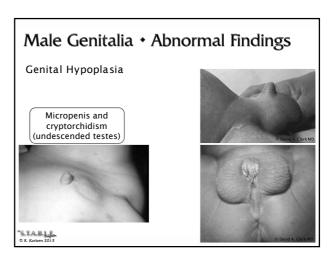


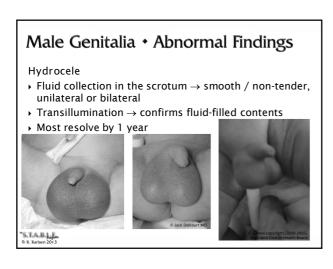


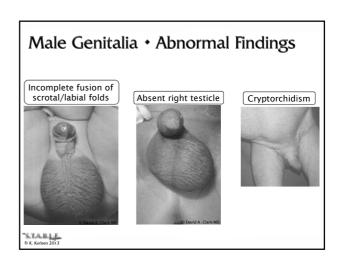


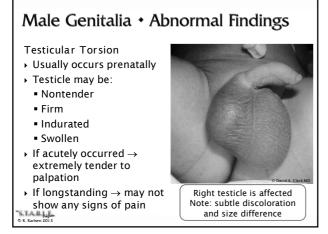


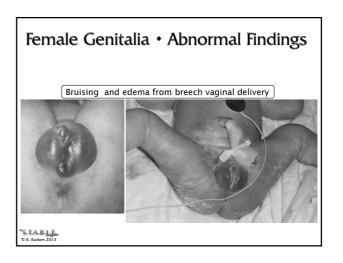


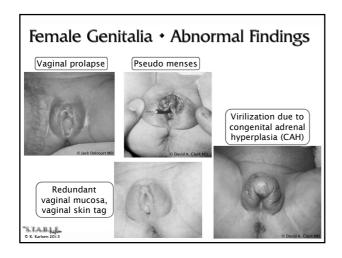


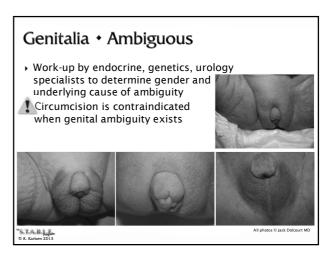


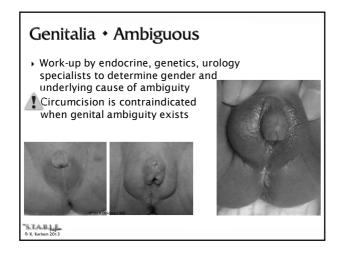


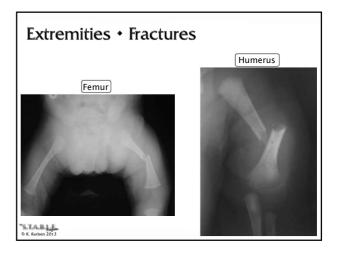


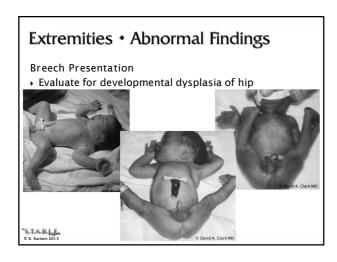


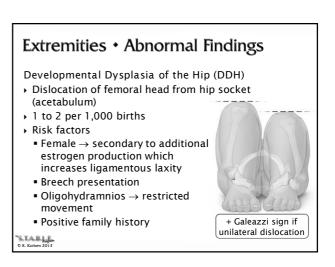






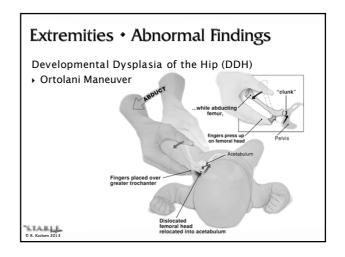


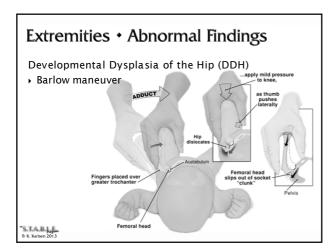




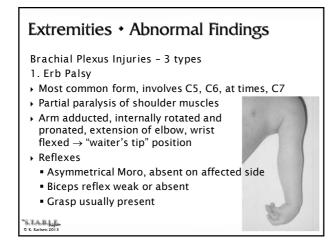
Extremities • Abnormal Findings Developmental Dysplasia of the Hip (DDH) • Signs • May have no noticeable difference • If unilateral, uneven skin folds of thigh or buttocks and shorter leg on side of hip dislocation • Occurs on • Left side 60% • Right side 20% • Both sides 20% + Galeazzi sign if

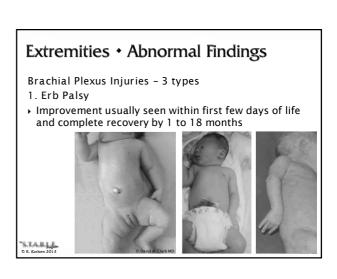
unilateral dislocation





Extremities • Abnormal Findings Brachial Plexus Injuries • Stretching or tearing of the plexus → nerves originating from C5 to T1 • May have history of macrosomia, difficult delivery with traction and lateral neck flexion secondary to: • Shoulder dystocia • Prolonged vaginal extraction • Breech presentation with traction of shoulder • Difficult vertex presentation with turning away of head • Usually unilateral → right side affected more often • Also evaluate for fracture of clavicle or humerus





Extremities • Abnormal Findings

Brachial Plexus Injuries - 3 types

- 2. Klumpke
- ▶ C8 and T1 injury
- Forearm and hand involved → wrist and finger extension weak, hand flaccid, grasp reflex absent, deep tendon reflex present
- 3. Complete Palsy
- Injury of all plexus nerves, all reflexes absent

S.T.A.B.L.E.

Extremities • Abnormal Findings

Arthrogryposis Multiplex Congenita

- Multiple joint contractures present at birth
 - Evaluate for any condition limiting fetal movement → neuromuscular disease, brain malformations, chromosomal defects, genetic syndromes, lesions of central nervous system

 ~ 150 different syndromes associated with multiple congenital contractures

 Involved muscles are replaced partially or completely by fat and fibrous tissue

S. E.A.B. Land



Extremities • Abnormal Findings

Arthrogryposis Multiplex Congenita

- Upper and lower extremities involved in 40% of cases
- Shoulders → adducted, internally rotated
- Elbows and wrists → flexion/extension contractures, radial deviation
- Hands → thumb deformities, rigid interphalangeal joints
- Hips → abduction, external rotation, contractures, dislocation of hip(s)
- Knees → extension/flexion contracture
- Bilateral club foot

S. F.A. B. L. S. Rarlson 2013

Extremities • Abnormal Findings

Achondroplastic Dwarfism

- Macrocephaly, prominent forehead, flat nasal bridge
- Average size torso
- Short arms and legs (especially upper arms and thigh area)
- Fingers short, with abnormal appearance at times - extra space between the middle and ring fingers - "trident" hand

Bowed lower legs

S.T.A.B.L.E.

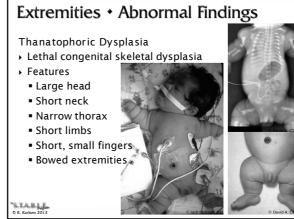


Extremities • Abnormal Findings

Achondroplastic Dwarfism

- May be inherited or spontaneous mutation (both parents without dwarfism)
- Genetic bone disorder
- Most common type of dwarfism short-limbed dwarfism
- Normal intelligence





S.T.A.B.L.E.

