CONTEMPORARY PEDIATRICS

TOP 10 PEDIATRIC SURGERY REFERRALS

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WHO AM I

- Sean Skinner, M.D.
 - Originally from Chicago
 - Married
 - 6 month old daughter
 - Started at UK Aug 2008
- Fellowship:



- University of Michigan- Surgical Critical Care- 1 year /Pediatric Surgery
- University of Oklahoma- Pediatric Surgery- 2 years





AAP Guidelines for Pediatric Surgical Referral

- Patients 5 years or younger who may need surgical care
 - UK Pediatric Surgery- All newborn to 18 year old children
- Infants and children with perforated appendicitis
- Seriously injured infants and children
- Infants, children, and adolescents with solid malignancies
- Minimally invasive procedures
- Infants and children with medical conditions that increase operative risk

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1. SKIN/SOFT TISSUE INFECTIONS





SKIN/SOFT TISSUE INFECTIONS

Overuse of antibiotics has led to resistance-Ubiquitous SMART BUG







COMMUNITY ACQUIRED- MRSA

Definition:

- Infection isolated in outpatient setting or within 48-72 hours of admission to healthcare facility
- No previous MRSA infection
- No permanent medical devices
- Otherwise healthy child
- PVL gene expressed
- No previous history in last year (admission, dialysis, surgery)





PVL TOXIN

PVL = Panton-Valentine-Leukocidin toxin

- Implicated in skin and soft tissue necrosis
- Attacks soft tissues
- "Solid" mass, Cellulitus, no fluctuance, necrosis
 - "spider bite"
- Other toxins
- Not liquid pus







EPIDEMIOLOGY

Clusters of outbreaks

- Sports teams
- Inmates
- Daycare attendees
- Health care workers (families)
- Tattoo / piercings
- Risk Factors
 - Age <2
 - Previous exposure
 - Crowding
 - Poor hygiene
 - Moist environments





PRESENTATION

SINGLE OR MULTIPLE







TREATMENT

- Vancomycin IV
- Linezolid IV
- Clindamycin IV/PO
- Bactrim PO





TREATMENT

Is an antibiotic needed all the time? Consider:

- Severity and rapidity of progression/cellulitus
- Signs/symptoms of systemic illness
- Associated co-morbidity
- Extremes of patient age
- Location of abscess
- Lack of response to I&D alone
 - Is I&D adequate?





INTERVENTION

"Office"

- Bedside
 - No sedation
- Single site, very small
- Young or 'o Operating Room''
- Local analgesiaSedated monitored setting
 - PICU, OR, Recovery room
 - Face, genitalia, multiple sites, younger





OPERATIVE INCISION & DRAINAGE







WHEN TO REFER

Guidelines

- Very small child
- Systemic signs (IV abx need)
- Failed office drainage
- Anytime you don't feel comfortable
- Multiple sites







PROBLEM IN KENTUCKY?

Scope of problem at KCH

- Number of ORs with CPT codes 10060-61 (SSI drainage)
- **2003-04 ~40**
- **2006-07 275**
- **2007-08** 296

Costs

- Hospital stay with IV antibiotics
- OR time/cost
- +/- PO antibiotics at home
- Open wound care
- Parents lost work time







2. ABDOMINAL HERNIAS





TYPES

- Inguinal Hernia
 - Reducible
 - Incarcerated
- Hydrocele
 - Communicating
 - Hydrocele of cord
 - Non-communicating
- Umbilical Hernia
- Epigastric Hernia







DEFINITIONS

Normal

Testis

Abdominal

Scrotum

cavity

Inguinal Hernia

- Congenital paten
- Remains in conti
- Abdominal contents p
- Reducible
 - Easily reducible
- Incarcerated
 - Unable to be reduced

vaginalis peritoneal cavity e into processus







DEFINITIONS

Hydrocele

- Communicating Hy
 - Processus open
 - **Too narrow for visc**era to
 - Peritoneal fluid able
 - Surrounds testicle v
- Hydrocele of cord
 - Distal processus ob
 - Fluid accumulates a
- Non-communicating
 - Proximal processus obliterates
 - Fluid trapped distally in tunica





Communicating





DEFINITIONS

Umbilical Hernia

Failure of umbilical ring to contract completely

Epigastric Hernia Defect in decussating fibers of linea alba





INGUINAL HERNIAS

Embryology

- Processus vaginalis forms outpouching of peritoneum at 3 months gestation
- Passes through internal inguinal ring
- Migrates down inguinal canal into scrotum
- Precedes the testicle and lies within spermatic cord
- Processus obliterates around time of birth
- Except the distal portion which forms the tunica





INGUINAL HERNIAS

Incidence

- 3% of children overall
 - 50% during first year of life
- Increased risk in twins, preemies and hydrocephalus
 - 30% in premature infants
- **•** Boys:Girls = 6:1
- Right:Left = 2:1
- 10% bilateral
- Increased risk of incarceration in <1 y.o.</p>
 - 26% in < 4 month old</p>





HYDROCELES

Incidence

- 10% of male infants born
- More common in prematurity
- May occur in older children, 2-5 y.o.
- Most resolve spontaneously within first year





UMBILICAL HERNIAS

Incidence

- Unknown, many resolve spontaneously
- I0x increased incidence in African American
- Increased incidence in prematurity
 - **75%** infants < 1500g
- Spontaneous Closure by age 3-4 (95%)
 Less likely in African American population
- Incarceration or strangulation= RARE





EPIGASTRIC HERNIAS

Incidence

- 5% of children
- Do not spontaneously resolve
- May have multiple defects

Usually preperitoneal fat herniates through defect







SURGICAL INDICATIONS

INGUINAL

- Reducible: May be repaired electively
- Incarcerated: Surgical emergency

HYDROCELE

If present beyond 1 y.o. then elective repair

UMBILICAL

- If present beyond 4 y.o.
- If large fascial defect (>1.5cm) then may repair at 2 y.o.

EPIGASTRIC

Repair on elective basis





SPECIAL TECHNIQUES

Reduction of incarcerated hernia











3. HEAD AND NECK MASSES





NECK MASSES IN CHILDREN

MIDLINE

- Thyroglossal duct cyst
- Dermoid/Epidermoid cysts
- Lymphadenopathy
- Ectopic thyroid
- Thyroid masses

LATERAL

- Branchial cleft cysts
- Cystic hygroma
- Lymphadenopathy
- Torticollis





THYROGLOSSAL DUCT CYST

Embryology

- Thyroid gland descends from base of tongue
- Thyroglossal duct descends from foramen cecum
- If thyroglossal duct, along line of descent, does not obliterate, cysts can develop







THYROGLOSSAL DUCT CYST

Presentation

- Most common lesion in midline of neck
- Appears between 2-10 years of age
- Rare in newborns
- Noted to be firm, round mass in midline
- Mass may rise with swallowing or sticking out tongue
- Cysts may become infected





THYROGLOSSAL DUCT CYST

Treatment

- Requires surgical excision
- Need to treat when not infected
- Sistrunk procedure
 - Dissection of cyst/sinus
 - Excise central portion of hyoid bone
 - Suture base of tract at floor of mouth







DERMOID/EPIDERMOID CYSTS

Embryology

- Ectodermal elements trapped beneath skin
- Ectodermal elements that failed to separate from neural tube
- Contain sebaceous material within cyst cavity
- Located more superficial





DERMOID/EPIDERMOID CYSTS

Presentation

- Most common along supraorbital palpebral ridge
- Present as swelling in corner of eyebrow
- May appear at any age
- May present along midline







DERMOID/EPIDERMOID CYSTS

Treatment

- Requires surgical excision
- Need to treat when not infected
- Must excise entire capsule
- Hide incision within eyebrow







BRANCHIAL CLEFT CYSTS

Embryology

- At 4-8 weeks
 - 4 Ectodermal branchial clefts develop
 - Pharynx develops from 5 *Endodermal* pharyngeal pouches
 - Between each cleft and pouch is a *Mesodermal* branchial






Embryology

- 1st branchial cleft: forms tympanic cavity and eustachian tube
- ^a 2nd branchial cleft: forms hyoid bone and cleft of tonsillar fossa
- 3rd branchial cleft: forms upper anterior portion of neck
- 4th branchial cleft: forms lower portion of neck











Presentation

- Congenital defects, usually present at birth
- Cysts develop later
- Present as anterior or lateral neck mass
- May have mucoid drainage
- May present infected







Treatment

Hypoglossal Artery May use ultrasound to differentiate Nerve ymph node

Posterior Belly of **Digastric**

Requires complete surgical excision

External Carotid

Need to treat when not infected

Careful on 1st cleft: facial nerve and auditory canal

Sternocleidomastoid

Careful on 2nd cleft: carotid bifurcation





CYSTIC HYGROMA

Embryology

- Congenital malformation of lymphatic system
- Results from obstruction between lymphatic and venous pathways
- Leads to lymph accumulation in sacs
- May be localized or diffuse
- Involves skin and soft tissues
- May be macro or microcystic
- Primarily located in cervical region, may involve axilla and chest





CYSTIC HYGROMA

Presentation

- Soft compressible mass in neck or axilla
- May have bluish hue
- May cause skin dimpling











CYSTIC HYGROMA

Treatment

- Surgical excision only means to "cure"
 - Recurrent infectious complications
 - Cosmetic
 - Gross deformity
- If macrocystic may be amenable to sclerotherapy
- Attempt to remove all cysts
- May be difficult due to involvement of major arteries, veins and nerves











- A diagnostic challenge for all clinicians
- Need to differentiate surgical from benign pain
- Children have uniform response to infection
 - Fever, vomiting and abdominal pain
- Limited ability to express symptoms
 - The younger, the less likely to be textbook
- Not cooperative to examination
- Parental stress





Pathophysiology

- 3 categories
 - Visceral
 - Noxious stimuli affecting a viscus
 - Tension, stretching and ischemia stimulate fibers
 - Congestion and inflammation sensitize nerve fibers
 - Dull, poorly localized pain felt in midline

American Family Physician, Volume 167, Number 11, Pages 2321-2326, June 1, 2003





Pathophysiology

- 3 categories
 - Parietal
 - Noxious stimuli of parietal peritoneum
 - Ischemia, inflammation or stretching
 - Sharp, intense, localized pain
 - Movement can aggravate pain

American Family Physician, Volume 167, Number 11, Pages 2321-2326, June 1, 2003





Pathophysiology

- 3 categories
 - Referred
 - Noxious stimuli of various regions
 - Shared central pathways from different sites
 - Felt in same dermatome as diseased organ
 - Diaphragm to shoulder
 - Lungs to abdomen

American Family Physician, Volume 167, Number 11, Pages 2321-2326, June 1, 2003





Causes:

- Gastroenteritis
- Mesenteric lymphadenitis
 Pneumonia
- Constipation
- Appendicitis
- Trauma
- Food poisoning
- Lactose intolerance
- Dysmenorrhea

- Bowel obstruction
- UTI
- Inflammatory bowel disease
- Pharyngitis
- Meckel's
- Intussusception





APPENDICITIS

- Most common surgical emergency in children
- 1/3 of hospitalizations for abdominal pain
- Lifetime risk
 - 8.7% boys
 - 6.7% girls
- Peak incidence between ages 12-18
- Most commonly ruptured in age < 5</p>





APPENDICITIS







Presentation

- Abdominal pain
- Anorexia
- Nausea/vomiting
- Diarrhea
- Distended abdomen
- Lethargic





Examination

- Pale, sleepy, fussy, curled up on bed
- Walking hunched over or won't walk
- Diffusely tender to mildly tender
- Flat abdomen or distended abdomen
- Periumbilical pain
- Right lower quadrant pain
- Guarding, rebound, peritonitis





Laboratory

- CBC- normal to elevated WBC with shift
- Lytes- evidence of dehydration
- U/A- elvated ketones, bacteremia
- Amylase/lipase- normal
- CRP- normal to elevated (non-specific)





Imaging

- Only if diagnosis questionable
 - Not required for an operation
- Plain abdominal film
 - Constipation
 - Paucity of air in RLQ
- US
 - May show free fluid
 - Inflammatory mass in RLQ
 - Best in thin children







Imaging

- CT
 - Must have oral and IV contrast to be effective
 - May show thickened appendix
 - RLQ inflammatory mass
 - Stranding, free fluid in RLQ
 - Free fluid in pelvis
 - Bowel obstruction
 - Abscess in abdomen or pelvis







UK Pediatric Surgery

- Imaging not required before transfer
 - Prefer no imaging- delays diagnosis and transfer
- Any child with >12 hour history of abdominal pain
- Exam or history suspicious for abdominal process
- Will determine need for imaging after examining





Surgery

- Laparoscopic Appendectomy
 - Enter through umbilicus
 - 2 small incisions for instruments
 - New technique- Single incision
 - All done through umbilicus
- Open appendectomyRLQ incision
 - Occasional midline incision













Pathophysiology

- Progressive hypertrophy of the muscularis
- Hypertrophy without hyperplasia
- Etiology unknown
 - Congenital redundancy of pyloric mucosa
 - Abnormalities of local enteric innervation
 - Diminished levels of nitric oxide synthase
- Exposure to erythromycin prenatally
- Eventually hypertrophy will resolve on own (months)





Incidence

- Currently 1:150 live births
- Rare in African-American and Asian children
- Males 4x more than females
- Mild hereditary predisposition
 - I in 20 male offspring with affected male parent
 - I in 50 female offspring with affected male parent





Presentation

- 2 weeks to 2 months of age
- Progressive non-bilious forceful emesis, "projectile"
- Emesis may be blood tinged
- Multiple formula changes have been made
- May have weight loss, failure to thrive
- May notice drop in number of wet diapers
- Unresponsive to reflux meds





Diagnosis

- Abdomen scaphoid
- May or may not feel an "olive" in RUQ
- Hypochloremic, hypokalemic metabolic alkalosis
 - Chloride < 100</p>
 - Bicarbonate > 30





Diagnosis

- ULTRASONOGRAPHY- first line
 - Muscle thickness >3mm
 - Muscle length >15mm

Medial SAG

May note narrowed channel and if fluid moving through

Medial SAG

- Sensitivity 97%, Specificity 100%
- Upper GI series if US non-diagnostic

+ Dist 0.509 cm





3.5

1.96 cm

Dist

Treatment

- HYDRATION
 - Bolus NS- 20 ml/kg (10 ml/kg not adequate)
 - May need to repeat 2-3 times
 - IVF D₅1/2 NS at 1.5 maintenance (not D₅1/4NS)
 - UOP 2 ml/kg/hr
 - Add K⁺ after child making urine
 - If electrolytes abnormal, repeat in 6-12 hours





Treatment

SURGERY- When ALKALOSIS resolved

Laparoscopic Pyloromyotomy



- Open Pyloromyotomy
 - RUQ incision
 - Supraumbilical incision













Embryology

- Testis differentiates from gonadal ridge at 6-7 weeks
- By week 9, Leydig cells produce testosterone
- Testosterone stimulates wolffian structures
- In 3rd trimester, testis descends through inguinal canal
- Intraabdominal pressure and patent processus vaginalis required





Pathophysiology

- Cryptorchidism= testis that has not descended into scrotum by 7-9 months of gestation
 - Term infants= 3%
 - Pre-term infants= up to 30%







Presentation

- Young male with empty scrotum, testicle may or may not be palpable outside scrotum
- If manipulated to base of scrotum without tension = retractile testicle
- May be mass palpable at inguinal crease
- If not palpable, may be located within abdomen
 - Need to examine suprapubic, perineal and upper inner thigh areas





Treatment

- Descent after 1 year of age- unlikely
- Risk of developing cancer is 5-60x greater
 - Orchiopexy does NOT alter cancer risk
- If bilateral- trial of hcG stimulation
- Requires orchiopexy
 - If intra-abdominal- start with laparoscopy
 - May require 2-stage procedure- vessel clipping
 - If abnormal testicle or underdeveloped then orchiectomy







7. CIRCUMCISION




AMERICAN ACADEMY OF PEDIATRICS Task Force on Circumcision

Circumcision Policy Statement

" Existing scientific evidence demonstrates potential medical benefits of newborn male circumcision; however, these data are not sufficient to recommend routine neonatal circumcision..."





AMERICAN ACADEMY OF PEDIATRICS Task Force on Circumcision

Circumcision Policy Statement

"...In circumstances in which there are potential benefits and risks, yet the procedure is not essential to the child's current well-being, parents should determine what is in the best interest of the child"





AMERICAN ACADEMY OF PEDIATRICS Task Force on Circumcision

Circumcision Policy Statement

"...To make an informed choice, parents of all male infants should be given accurate and unbiased information and be provided the opportunity to discuss this decision. If a decision for circumcision is made, procedural analgesia should be provided."





Embryology

- The glans penis derives from the genital tubercle at 4 to 6 weeks gestation
- The primitive urethral folds form the penile urethra
- The genital swellings become the scrotum
- The skin of the body of the penis begins growing forward at 8 weeks





Embryology

- The prepuce completely covers the glans
- A small opening remains at the urethral meatus
- The undersurface of the foreskin is fused with the glans at birth with congenital adhesions
- Not until later that foreskin is fully retractable
- Attempts at retraction should not be made until 2-3 years of age





Advantages

- Prevents Phimosis
- Prevents Paraphimosis
- Lowers UTI's in infancy
- Prevents balanoposthitis
- Lessens risk of developing cancer of the penis





Disadvantages

- Medically unnecessary in most boys
- Risk of painful complications

Contraindications

- Anomalies of external genitalia
- Serious illness





Procedure

- 3 Types
 - "Freehand" circumcision
 - Gomco clamp
 - Plastibell device
- Steps
 - Estimation of the amount of external skin to be removed
 - Dilation of the preputial orifice
 - Freeing the inner preputial epithelium from the glans
 - Placing the device
 - Leaving the device long enough for hemostasis
 - Amputation of the foreskin.











Pathophysiology

- Telescoping of one portion of intestine into another
- Hypertrophy of lymphoid tissue of ileal wall at leading edge
- Proximal bowel drawn into distal bowel by peristalsis
- Mesentery drawn in, is compressed, leads to venous obstruction and bowel wall edema, if not reduced, leads to arterial insufficency and bowel wall necrosis





Pathophysiology

- More than 80% are ileocolic
- Rare types
 - ileoileal, cecocolic, colocolic and jejunojenunal
- Anatomic lead point in 2-12%
 - Increasing incidence with increase in age of child
 - Meckel's diverticulum most common
 - Appendix, polyps, carcinoid, submucosal hemorrhage, lymphoma, foreign body, ectopic pancreatic or gastric mucosa and intestinal duplication





Incidence

- Greatest between 5-18 months of age
- 50% in first year of life
- 10-25% after 2 years of age
- 2/3 of cases in boys
- High suspicion
 - During peaks of respiratory infection
 - Epidemics of gastroenteritis





Presentation

- Acute onset of cramping abdominal pain
- Uncomfortable child with legs pulled up to abdomen
- May be vomiting
- Dehydrated
- Attacks will be intermittent
- Child may appear well between attacks
- May have loose or small stools
- Late sign is "currant jelly" stools

















Treatment

- Surgery
 - Attempt to reduce manually

MEDLINE

Bowel resection













Esophagus

- Narrowest portion of the GI tract
 - Most foreign bodies will get trapped here
- Upper end protected by Cricopharyngeus muscle
- Narrowed at aortic arch, left mainstem bronchus and diaphragm
- Most objects that pass the cricopharyngeus, will pass into the stomach
- May be secondary to congenital malformation or previous surgical intervention











Presentation

Incidence

Cricopharyngeus
Aortic Crossover
Io-17 %
Lower esophageal sphincter
5-20 %

Coins and smooth blunt objects most common (89%)
18-48 month old most common
Often unrecognized ingestion
Coughing, gagging, excessive drooling





HOW MANY OBJECTS???







Diagnosis

- PA and lateral chest
- PA and lateral abdomen films
- If not radiopaque- Need UGI
- Endoscopy





Treatment

- Upper esophagus- Rigid or flexible esophagoscopy
- Middle esophagus- Rigid or flexible esophagoscopy
- GE Junction- Pass NGT and push into stomach
- Stomach- Leave alone, will pass on own
- Obstructive symptoms- require removal
- Batteries Small watch batteries may burn mucosa







Push pin for Boutonnière

- Not found on Endoscopy
- Patient passed spontaneously







10. TRAUMA





- Most Common cause of death/disability in children
- More than
- More than injuries in
- Most serior



injuries in US n serious

in US

Advanced Trauma Life Support for Doctors, ATLS Student Course Manual, 8th edition. American College of Surgeons Committee on Trauma





- Unsuccessful resuscitation in severe pediatric trauma greatest risk to survival
 - Failure to secure airway
 - Failure to support breathing
 - Failure to recognize intraabdominal hemorrhage
 - Failure to recognize intracranial hemorrhage
- Knowing and instituting ATLS principles to care of injured children can impact survival

Advanced Trauma Life Support for Doctors, ATLS Student Course Manual, 8th edition. American College of Surgeons Committee on Trauma





ATLS

- Primary Survey
 - A- Airway maintenar
 - B- Breathing and ven
 - C- Circulation with h
 - D- Disability: Neurol
 - E- Exposure/Environ undress patient but pr
- Secondary Survey

Head to toe examination for other injuries

Advanced Trauma Life Support for Doctors, ATLS Student Course Manual, 8th edition. American College of Surgeons Committee on Trauma





ATLS

- Goal is to stabilize patient first
- Do not move on to next sequence until first one completed
- Airway most important in children
 - Inability to establish or maintain a patent airway with lack of oxygen and ventilation is most common cause of cardiac arrest in children

Advanced Trauma Life Support for Doctors, ATLS Student Course Manual, 8th edition. American College of Surgeons Committee on Trauma





AIRWAY

- Narrow, short and anterior in children
- Use bag valve mask or intubate

BREATHING

- RR differ by age
 - Newborn 60
 - Infant 40
 - Preschool 30
 - Adolescent 20 (adult)



Chest wall compliant "bounce"





CIRCULATION

- Adequate IV access- 2 large bore
- May use hand, arm, legs, scalp, IO, central line
- Adequate bolus
 - 1. 20 ml/kg LR
 - 2. 20 ml/kg LR
 - 3. 10 ml/kg PRBC
- Control bleeding with direct pressure





DISABILITY

GCS (Motor-6, Verbal-5, Eyes-4)

EXPOSURE/ENVIRONMENTAL CONTROL

- Visualize all wounds while keeping patient warm
- Infants/toddlers have poor temp regulation
 - Increase room temp prior to arrival
 - Warm all fluids or use fluid warmer
 - Warm blankets (Bair hugger from OR)
 - Remove all wet clothing/blankets/boards





Management

- Complete secondary survey
- Obtain plain films- C-spine, CXR, Pelvis
- Decide if other more specific imaging needed
- If you do not have capability or unable to take care of injured child, DO NOT IMAGE and immediate call for transfer to trauma center





Imaging

- C-spine- PA, lateral and odontoid views
- CXR- look for pneumo, mediastinum, fractures, contusion
- Pelvis- fractures, widening
- CT scan- ONLY if able to treat (NO oral contrast)
 - Solid organs
 - Free fluid
 - Hernias
 - Fractures





Types of Injuries- Age Relationship Blunt Injuries

- Infant- Shaken baby, improper car seat, drops
- Toddler- Falls, ingestion, burns, passengers
- Preschool- Pedestrian, "KY air bag", bikes start, passengers
- Elementary- Self propelled vehicles, falls, pedestrian, passengers and operators
- Middle school- Bigger toys but similar pattern
- High school- See adult patterns of injury and physiology (self stupidity)





Blunt trauma most common in children

MVA

Pedestrians

Bicycles

Falls

- Sports
- Abuse

Solid organ injury most common

- Spleen and liver roughly equal
- Associated injuries
 - Head injury
 - Thoracic (pulmonary contusion)
 - Extremity injury






PEDIATRIC TRAUMA AT UK

LEVEL 1 ACS Accredited Trauma Center 2009-2012 Pediatric Trauma Nurse Coordinator **Bari-Lee Mattingly** Beeper 330-4095 Pediatric Emergency Medicine Director Craig Carter, D.O Pediatric Trauma Director Joe Iocono, M.D.





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