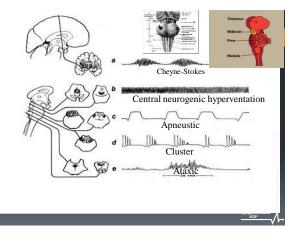
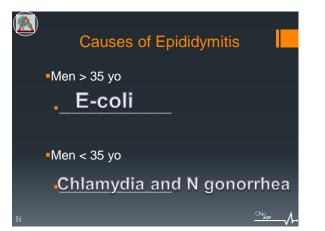
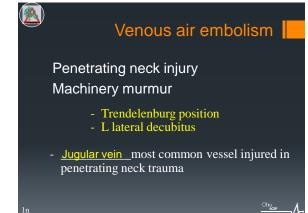
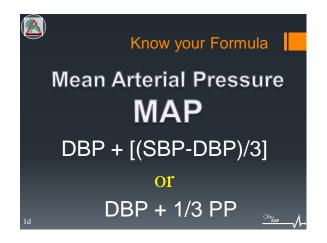


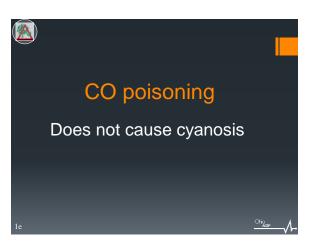
Cerebrum dysfumction Torsade breathing



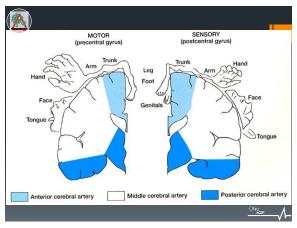


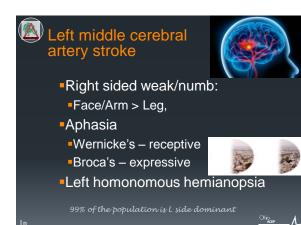


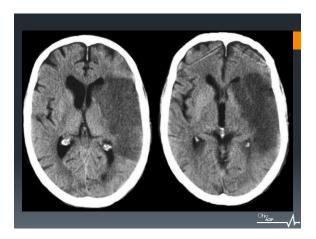


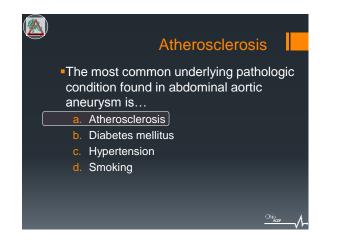


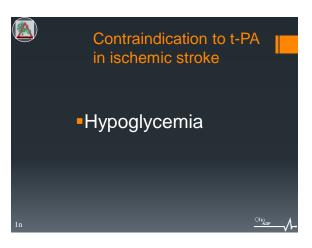












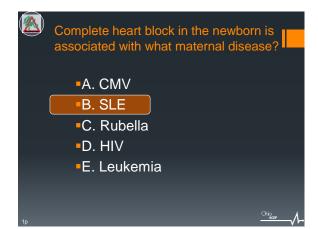


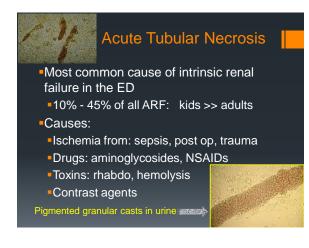
 Coma with central neurogenic hyperventilation

Where's the dysfunction?









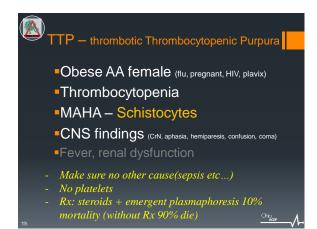
Antidotes

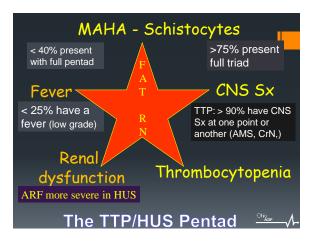
Dig FAB Fragments

Digoxin

HUS – Hemolytic Uremic Syndrome

- Ate hamburger 3 days ago
- Diarrhea for few days
- Abdominal pain and bloody diarrhea
- Most common cause of renal failure in pediatrics
- No Abx, no anti-diarrheals which increase risk of HUS
- Test any bloody diarrhea for e-coli 0157:H7







Cerebral venous thrombosis Rx: anticoagulation control of seizures invasive neuro consult Severe diffuse headache progressive over days Loss of venous pulsations on fundoscopic exam Recent epidural blood patch Ecosil pourologio deficito (a a bita log or pourologio deficito (a a bita log

- Focal neurologic deficits (e.g.bilat leg > arm weakness)
- ALC (e.g. confusion, lethargy)
- Next best step for Dx: <u>MRV</u>

Chio MOP



A 35 yo male scuba diving at 100 feet for suddenly looks drunk, confused, trying to take off his mask. Which of the following is most likely?

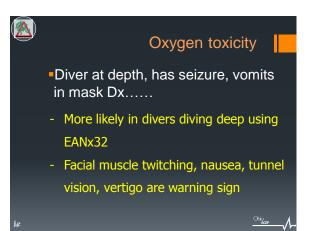
a. Arterial gas embolism

b. Nitrogen narcosis

- c. Pulmonary overpressurization syndrome
- d. Oxygen toxicity

Nitrogen narcosis Diver at depth, looks drunk, confused, disoriented Dx... due to high concentration of nitrogen in blood

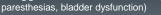
- Only lasts as long as diver is down under
- Gets better as diver goes up



Decompression sickness

Type I

- Extravascular gas bubbles
- The Bends (pericarticular joint pain MC DCS
- Type II
- Intravascular nitrogen gas emboli
- Chokes (SOB, cough, RSCP)
- Staggers (low back pain, heavy legs





Things that differ, but seem the same

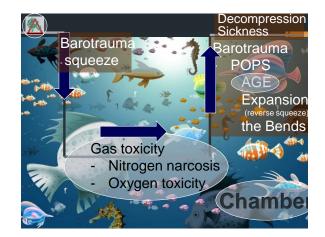
A 28yo male scuba diver on nitrox has a seizure at 80 feet for the last hour (lost track of time), the most likely cause for his seizure is

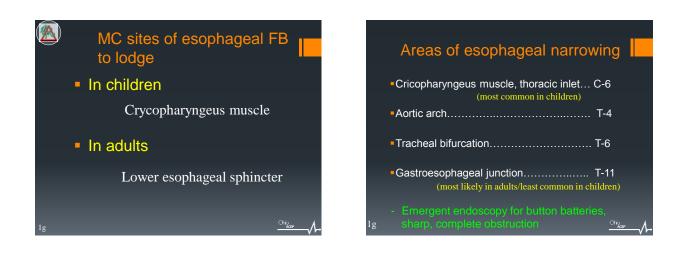
Oxygen toxicity

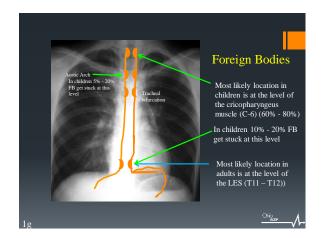
A 28 yo male scuba diver on nitrox has a seizure on surfacing from 80 foot dive. The most likely cause for his seizure is...

Arterial gas embolism

Accounts for 20% - 30% of all scuba related deather









Vibrio Vulnificus

- With bacteremia has 50% mortality

Abrasion

- Sea water
- Bright red cellulitis
- Later brawny with bullae

Rx: Doxycycline

Vibrio Parahaemolyticus

- Can be lethal in alcoholics with liver disease
 - Vomiting / diarrhea
 - Abdominal pain

- After shell fish (oysters) meal
- Patients with liver disease have higher mortality

Rx: Doxycycline

6

Chio MOP



Chordae tendineae rupture from papillary muscle disruption

•57 yo male presents with SOB, diaphoresis. Was treated for acute anterior STEMI one week ago. One exam you hear a grade III systolic murmur heard best at the apex. What is the most likely cause for his murmur?

Systolic MM AS MR Radiates SOUTH

The Most Common Cause of Acute Mitral Regurgitation is ruptured chordae tendinae from papillary muscle disruption

Acute Thoracic Aortic Dissection

•75 yo male with known HTN, comes with severe chest pain, SOB and diaphoresis. He has a grade III diastolic murmur heard best at the parasternal second intercostal space. What is the cause of the murmur?

AR Diastolic MM MS

Radiates North

The Most Common Causes of acute aortic regurgitation is thoracic aortic dissection, Acute infective endocarditis $\alpha_{\rm NR}$

Most Common Causes of Valvular Diseases

- MCC of Aortic Stenosis
 - < 65yo Congenital bicuspid valve</p>
 - •> 65yo idiopathic calcific degeneration
 - Scenario will be old person who has syncopal episode – think Aortic Stenotic Disease
 - A for angina has 5 yr survival
 - S for syncope has 3 yr survival
 - D for dyspnea (CHF) has 1 yr survival _{αιο}

Most Common Causes of Valvular Diseases

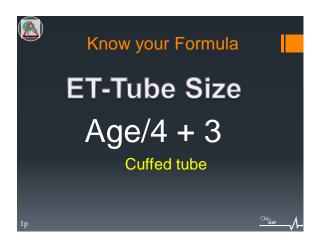
MCC of all other valvular diseasesRheumatic heart disease (RhHDz)

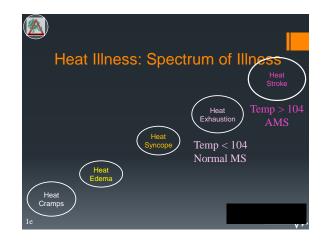
3 other patients with valvular heart disease at ABEM General

- IVDA patients at ABEM General have one more valve then the rest of us they have a tricuspid valve that regurgitates due to IVDA
- Mitral valve prolapse in young female patients with a mid systolic click – but not much of a problem for the most part
- Young athlete with exertional syncopal episode – here you must think about what makes murmur louder and what makes the murmur softer









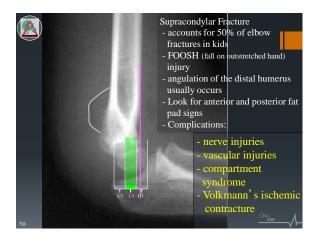


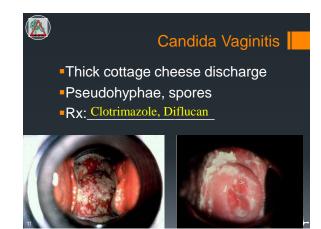


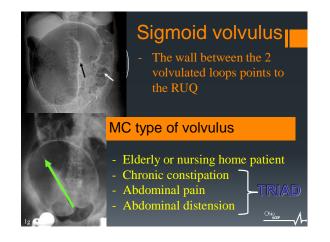
The drugs most commonly associated with torsades de pointe are...

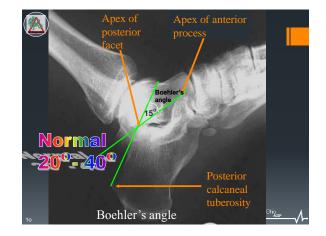
- Class 1A anti-arrythmics
 - Quinidine
- Procainamide
- Class 1C agents
 - Flecainide
 - Propafenone

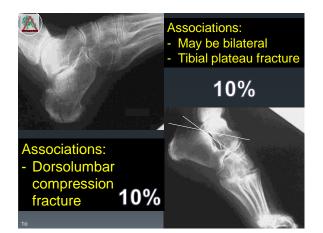


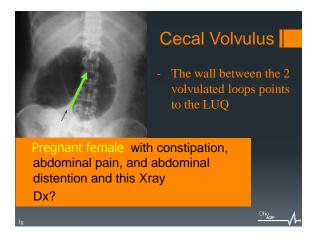












Pediatric Trauma KEYCEPTS

Blanket roll under shoulders to intubate

Normal blood volume <u>8 - 10</u>% of body wt

Crystalloid bolus: <u>20 cc/Kg</u> x 2

then blood: <u>10 cc/Kg</u>

(人)

- Urine output at least <u>lcc/Kg/hr</u>
- •Needle cricothyroidotomy ≤ 8 y.o.

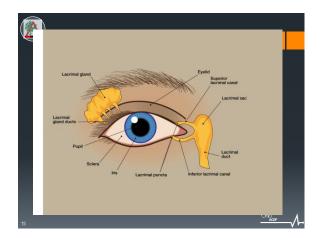
Obligate nose breathers <u>6 months old</u>

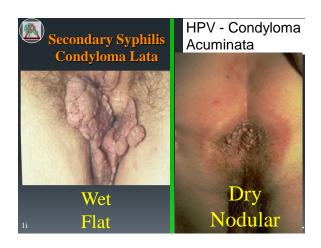
Miss child abuse <u>50</u>% are DEAD 2 yrs later



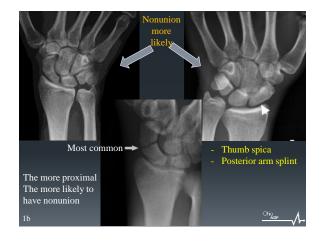








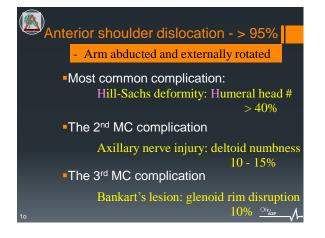






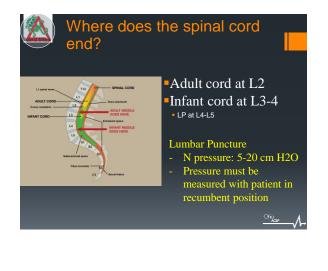
The MC site of basilar skull fracture is the petrous portion of the temporal bone

11









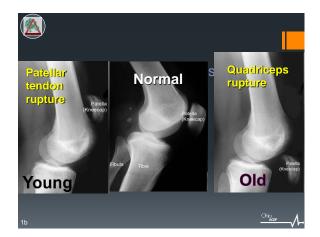




Patellar tendon rupture

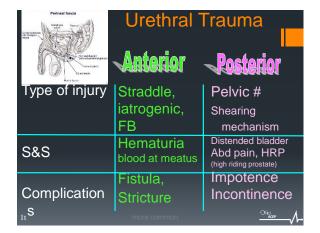
30 yo soccer player Injured during the game Complains of pain in the knee Diagnosis?

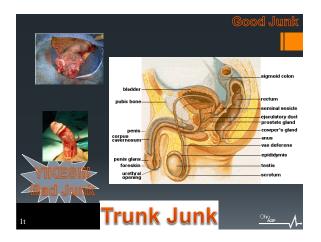
> Chio Ma

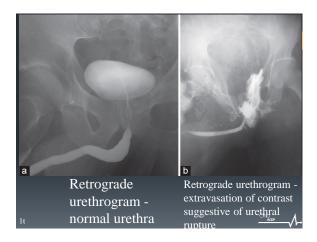


A 29 yo male fell from ladder, landed straddling a fence a few feet down. He complains of pain in the perineum. All of the following are most consistent with this type of urethral injury EXCEPT:

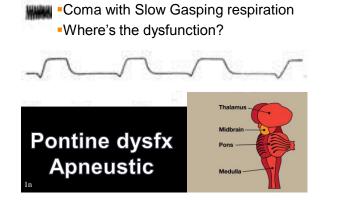
- a. Likely to present with blood at the urethral meatus
- b. Fistula may be a complication to this type of injury
- c. Impotence is a likely complication in this type of injury
- d. Incontinence is unlikely with this type of injury
- e. Stricture may be a complication to this type of injury $\underline{r_{ko}}$

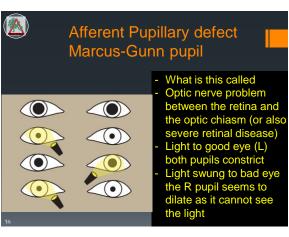


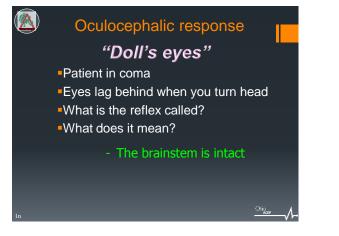


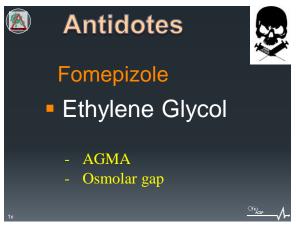




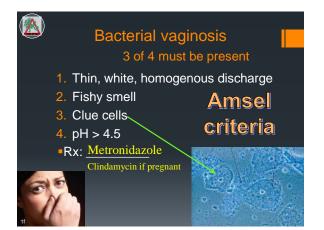


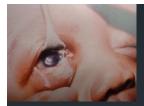












Rule of Fives

Conjunctivitis in neonates

- day 1: Look for infection chemical is rare
- day 1 to day 5: GC
- day 5 to 10 (60): Chlamydia

HS Encephalitis

- HSV-2 encephalitis in the neonate _ HSV-1 encephalitis in adults
- Patient with headache
- Healing sores on lips
- Fever

- Neurologic finding (ALC, focal, seizure)
 - 30% cases in < 20yo

 - 50% cases in > 50 yo Anyone who you think has encephalitis add Acyclovir to your usual antibiotics

Chip

- Dx: PCR
- SF: RBC but no WBC

Meningitis	Encephalitis
Infection of membranes of brain and spinal cord	Infection of brain parenchyma
? Septic, fever, H/A, stiff neck	clear change LOC (focal neuro changes, seizures, hallucinations, aphasia)
Strep pneumo adults N. Meningitidis children/adolescents Consider Listeria elderly and neonates Enterovirus souther most common virus	Herpes simplex virus is MC (Also arbovirus, West Nile virus)
Bacterial: high WBC neutrophilic Viral meningitis: WBC < 500/mm3 monos	WBC < 500/mm3 in CSF mostly mononuclear
S Gluc/CSF Gluc < 0.5 CSF protein > 150 mg/dL	CSF glucose > 60 CSF protein low < 100
Unenhanced CT brain negative Contrast CT - enhancement of meninges	CT Hypodense areas temporal lobes MRI Hyperdensity on temporal lobes
Outcome: Generally better outcome, but is variable	Outcome: <i>Poorer</i> outcome: seizures, developmental deficits, personality deficits
li	VP





? Steroids (after ophtho consult)

A

Paroxysmal Atrial Tachycardia (PAT)

The most common dysrhythmia associated with WPW is...

Malrotation with Midgut volvulus

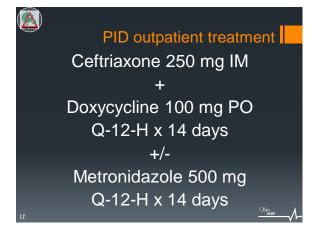
The most common cause of small bowel obstruction in neonates

Cardi

<u>()</u>

Cardiology KEYCEPT

 Patients with inferior AMI and coexistent RV infarction have a high rate of in-hospital morbidity and transient high grade AV block

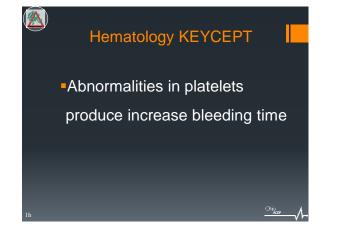


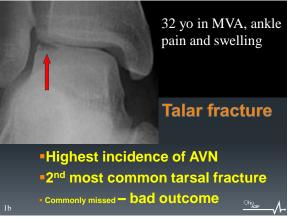
TAD

In a patient with chest pain and neurologic symptoms assume...

or

In a patient with chest pain and findings above and below the diaphragm, think...





Use one 100 cc bag of 3% saline at a time

 In correcting severe hyponatremia, 3% saline should only be used in the following conditions:

- Seizures
- Serious arrhytmias
- <u>Severely altered mental stat</u>us

Rheumatic Fever		
Major Criteria	Minor Criteria	
J Arthritis	Athralgia	
🖲 Carditis	Fever	
N Subcutaneous nodules	Elevated ESR/CRP	
E Erythema marginatum	Prolonged PR interval	
S Sydenham's chorea		
The most common presenting sign that leads to the diagnosis of rheumatic fever is a new cardiac murmur		

