

Identifying Warning Signs During Routine Patient Encounters

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Objectives

- Upon completion of this activity, the participant will be able to:
 - Discuss abnormalities on physical examination which might warrant additional evaluation
 - Discuss treatment options for patients with these abnormalities
 - Identify those abnormalities noted on physical examination which warrant emergent evaluation by specialty or emergency department

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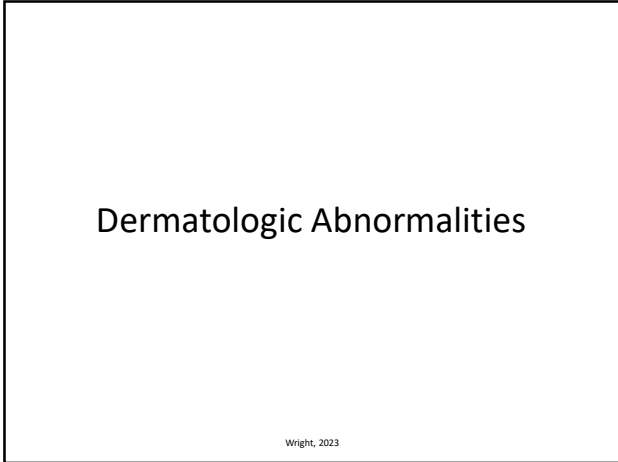
Faculty Disclosure

Wendy L. Wright, DNP, ANP-BC, FNP-BC, FAANP, FAAN, FNAP has the following relevant financial relationships with commercial interests to disclose:

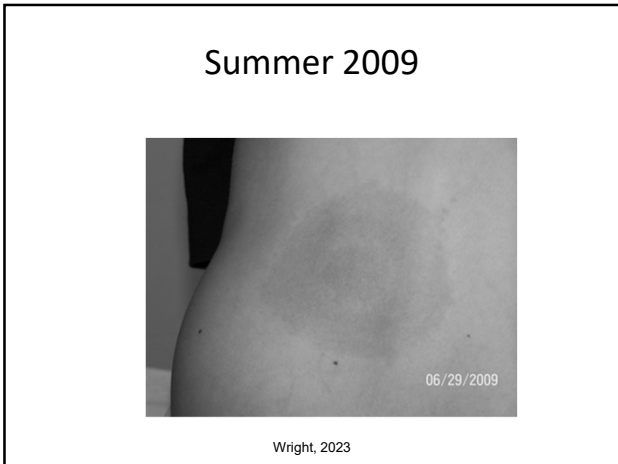
- Consultant:
 - Pfizer, Merck, Sanofi, Seqirus, and Moderna – Vaccines
 - GlaxoSmithKline – OA/Pain
 - Bayer – CKD
 - Idorsia – Sleep
 - Seqirus – Vaccines
 - Shield Therapeutics - IDA
- Speakers Bureau:
 - Pfizer, Merck, Sanofi, Seqirus, and Moderna – Vaccines
 - AbbVie and Biohaven – Migraines
 - Idorsia: Insomnia

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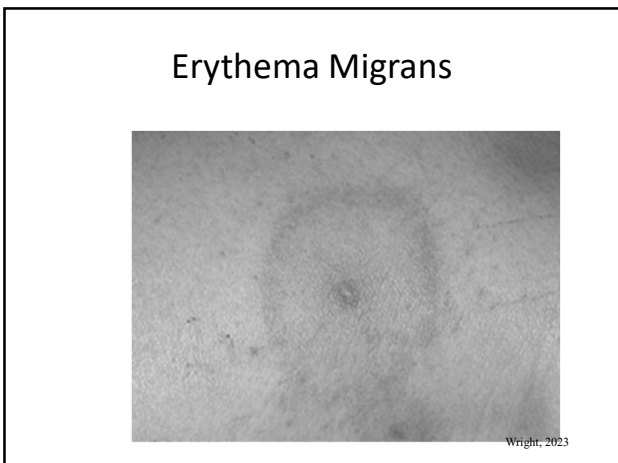
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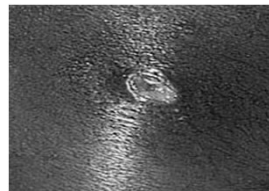
Erythema Migrans



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CA-MRSA



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Scabies



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Scabies

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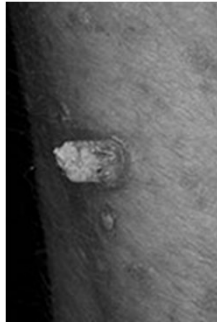


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Actinic Keratosis

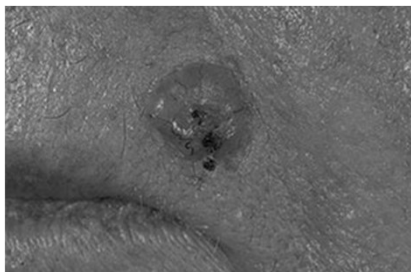
- Keratin may accumulate and transform lesion into a cutaneous horn
- Frequently seen on the pinna of the ear



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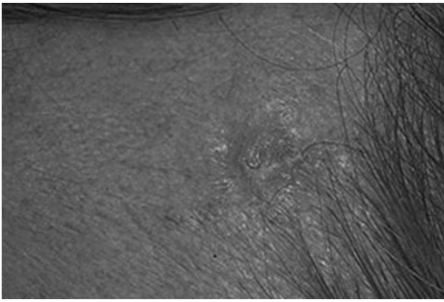
Basal Cell Carcinoma



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Basal Cell Carcinoma



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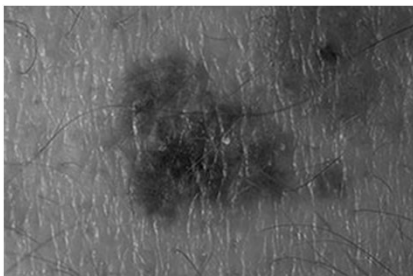
Squamous Cell Carcinoma



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Malignant Melanoma



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Malignant Melanoma



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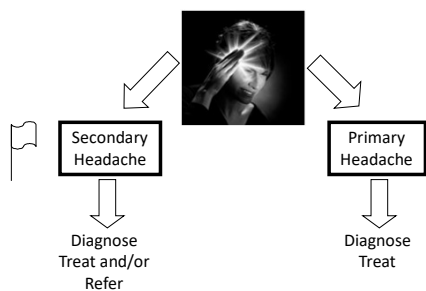
HEENT Abnormalities

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Headache Diagnosis: *Primary Versus Secondary Headache*

Evaluate for Signs or Symptoms of Secondary Headache



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Secondary Headaches: Prevalence

- 1% of office HA presentations
- 3.8% of ED HA presentations

Bigal M, et al. *Headache* 2000;40:241-247. • Ramirez-Garcia M, et al. *Arch Neurol* 1997;54:1506-1509.

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Features Suggestive of Secondary Headache: *SNOOP*

Systemic symptoms or signs of systemic disease

- Fever, myalgias, weight loss
- Malignancy, acquired immunodeficiency syndrome

Neurological symptoms or signs

Onset sudden (thunderclap headache)

Onset before age 5 years or after age 50 years

Pattern change

- Progressive headache with loss of headache-free periods
- Change in type of headache

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Dodick DW. *Adv Stud Med.* 2003;3:87-92.

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Red Flags for Secondary Headache

- Indications for HA workup
 - First/worst HA
 - Abrupt-onset HA
 - Progression or fundamental change in pattern
 - New HA in those <5 yo or >50 yo
 - New HA with cancer, immunosuppression
 - HA with syncope or seizure
 - HA triggered by exertion/Valsalva/sex
 - Neurologic symptoms >1 hour in duration
 - Abnormal general or neurologic examination

Dodick DW. *Adv Stud Med.* 2003;3:87-92. Wright, 2023

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Case Study 6: JD

- 1 week history of blurred vision and worsening headache in a 46 year old male.
 - Headache is 5 on 1-10 scale; now associated with vomiting and blurred vision
 - Seen 3 days ago, diagnosed tension headache
 - No improvement despite medications
 - Had been feeling well until this began; No other symptoms

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Case Study 6: JD

- PE: VSS
- Head: N/C; no abnormalities
- Ears: Canals/TM's normal; hearing intact
- Nose: Turb/mucosa normal; no discharge, abnormalities
- Mouth: Mucosa moist; tongue midline; Gag intact
- Nodes: nonpalp, nontender
- Lungs: clear bilaterally; no c/w/r

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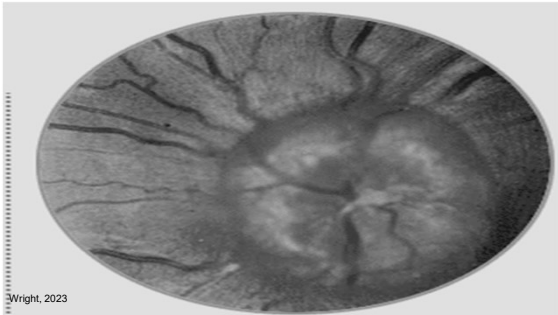
Case Study 6: JD

- CN II – XII intact; exceptions noted
 - Papilledema
 - Conversant but slow responses to questions.
 - Neat and clean
 - Seems to stare at examiner
 - Tries to smile at times; not always appropriate for the situation

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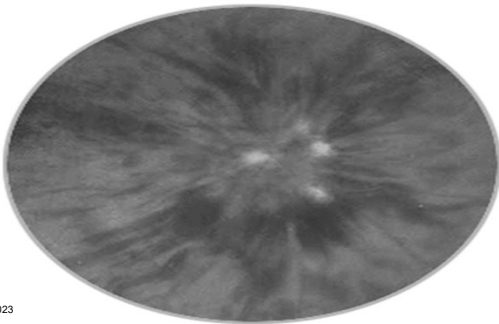
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Papilledema



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Papilledema



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Diagnostics

- CT with contrast ordered stat
 - MRI is the most sensitive test, particularly when gadolinium (contrast)
- Stat CT scan confirmed a large glioblastoma in the frontal region
 - Within 4 hours, underwent a debulking procedure
 - Pathology confirmed and experimental chemotherapy was initiated
 - Unfortunately, tumor was fatal with 3-4 months of presentation

<http://emedicine.medscape.com/article/117204-overview> accessed 06-01-2011

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Internal Hordeola



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Abrasions: Never Patch...

Contact lens abrasion

Abrasion of cornea caused by food or plant material

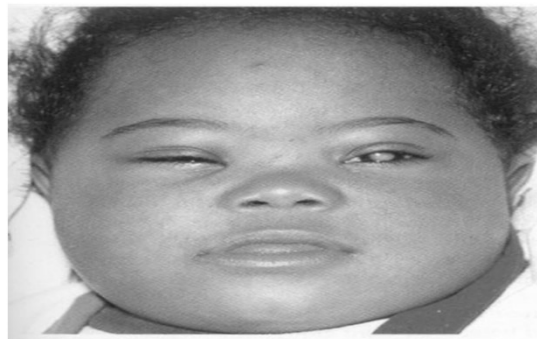
Individual with diabetes

Why?

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Leukocoria



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Ptosis



Fig. 3-7 Ptosis of the right upper lid.

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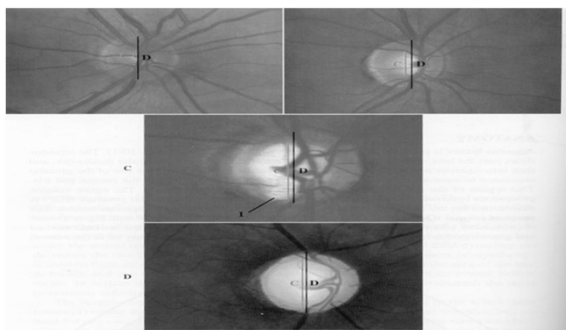
Abnormalities of the Cup

- Cupping
 - Increased pressure within the eye caused by glaucoma
 - Causes a backward depression of the disc giving the appearance that the cup is coming out at you
 - Appearance
 - Cup is enlarged (More than 1/2 the size of the disc)
 - Retinal vessels sink in and under the cup

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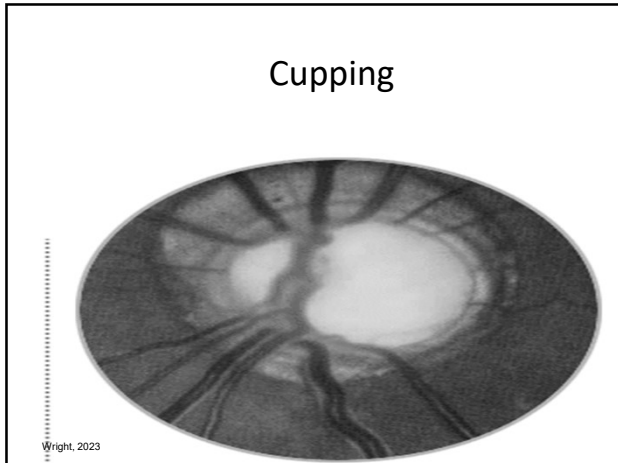
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Optic Disc/Nerve Cupping

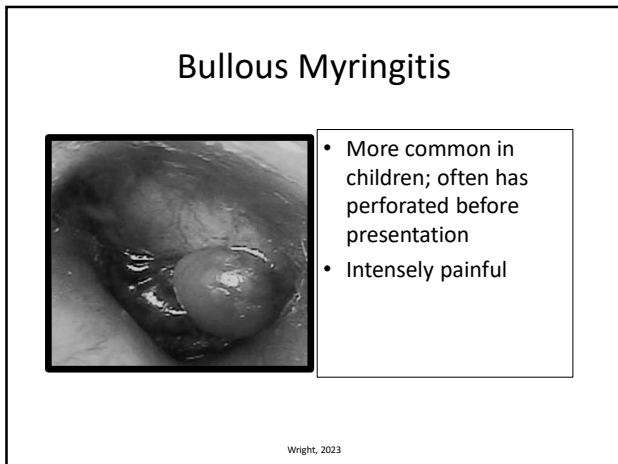


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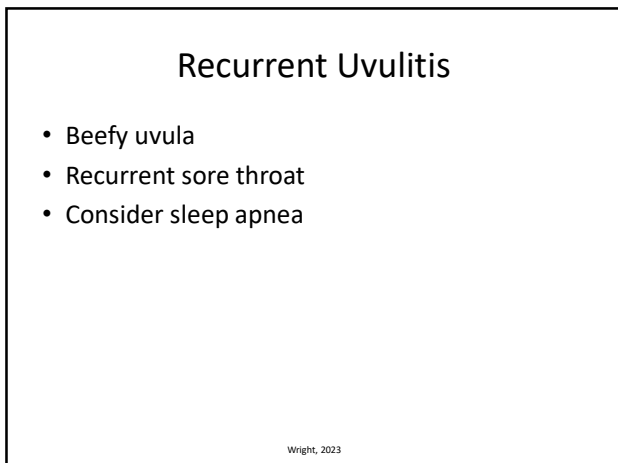
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Recurrent Oral Ulcers

- Check Herpes Select PCR test
- Check Uric Acid
- If herpes positive, start antiviral daily
- If herpes negative and uric acid > 6 mg/dL – start allopurinol 100 mg daily
- Warning: allopurinol
 - Renal dosing
 - Acute hypersensitivity reaction
 - African American, Han Chinese ancestry, Korean ancestry, Thai ancestry, Native Hawaiian and Pacific Islander ancestry: check HLA-B* 5801 allele

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Can You Make the Correct Diagnosis?

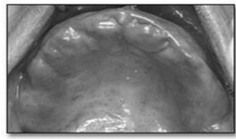


Figure 1. Erythematous palatal mucosa.



Figure 4. Erythema and atrophy of filiform papillae of the dorsal tongue.

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Pediatric Hypoventilation Syndrome

- Often overweight or obese
- Often diagnosed with ADHD
- Enuresis persistent in over 60% of children
- May have persistent daytime fatigue
- Diagnosis: Sleep study

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Peritonsillar Abscess

- Physical examination
 - May appear restless
 - Irritable
 - May lie with head hyperextended to facilitate respirations
 - Muffled or “hot potato voice”
 - Stridor may be present
 - Respiratory distress

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Peritonsillar Abscess

- Physical examination findings
 - Fiery red asymmetric swelling of one tonsil
 - Uvula is often displaced contralaterally and often forward
 - Large, tender lymphadenopathy

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Peritonsillar Abscess



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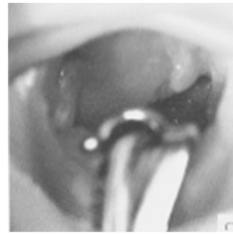
Peritonsillar Abscess



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Peritonsillar Abscess



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Thyroid Nodule

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US and 24-Hour Iodine Uptake Scan

- Check TSH
 - Cancers are metabolically neutral
- Ultrasound
 - Helps confirm presence of nodule
- Scan:
 - Is nodule hot or cold nodule?
- 15% of nodules – identified as “cold” nodules are malignant

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Cold Nodule



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Cardiac and Pulmonary

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Hypertensive Urgency vs. Emergency

<ul style="list-style-type: none"> • Urgency <ul style="list-style-type: none"> ▪ BP \geq180/120 mm Hg ▪ No TOD ▪ Often asymptomatic but may have headache, SOB ▪ Adjust oral medications and follow up within one to few days 	<ul style="list-style-type: none"> • Emergency <ul style="list-style-type: none"> ▪ BP \geq180/120 mm Hg ▪ + TOD ▪ IV medication indicated ▪ Goal – Reduce mean arterial pressure by 25% in 1-hour ▪ Monitored in ICU
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Diagnosis and Management of a Hypertensive Crisis

Colors correspond to Class of Recommendation in Table 1.
 *Use drug(s) specified in Table 19.
 †If other comorbidities are present, select a drug specified in Table 20.
 Blood pressure (BP); diastolic blood pressure (DBP); intensive care unit (ICU); and systolic blood pressure (SBP).

Figure 26

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12 year old...

- Presents with mom for evaluation of shortness of breath during hockey
- Has noticed it more over the past few months but he is also recovering from viral URI
- VSS, Lungs clear
- Heart: S1, S2; Grade III/VI harsh systolic murmur loudest in the aortic region and left sternal border; radiating into right carotid – Louder with standing

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Hypertrophic Cardiomyopathy

- Most common cause of sudden cardiac death in the athlete
 - Second: Coronary Artery Abnormalities
 - Third: LVH
- A few well-known sports figures have died from this disease

<http://emedicine.medscape.com/article/152913-overview> accessed 06-15-2011

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Hypertrophic Cardiomyopathy

- Hypertrophic Cardiomyopathy
 - Cardiomyopathy: disease of cardiac muscle
 - Can presents in young adulthood

<http://emedicine.medscape.com/article/152913-overview> accessed 06-15-2011

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Hypertrophic Cardiomyopathy

- Septal thickening and abnormal movements of the mitral valve; Often is accompanied by outlet obstruction

<http://emedicine.medscape.com/article/152913-overview> accessed 06-15-2011

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Hypertrophic Cardiomyopathy

- Etiology
 - Strong genetic component:
Autosomal dominant
 - Often times, family history of individuals dying prematurely as early as in the 20's

<http://emedicine.medscape.com/article/152913-overview> accessed 06-15-2011

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Hypertrophic Cardiomyopathy

- Clinical Symptoms
 - DOE
 - Often asymptomatic and die spontaneously during exercise
- Timing: Mid-systolic
- Location: Left sternal border

<http://emedicine.medscape.com/article/152913-overview> accessed 06-15-2011

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Hypertrophic Cardiomyopathy

- Radiation: Down left sternal border; occas. carotids
- Intensity: Grade II and louder/VI

<http://emedicine.medscape.com/article/152913-overview> accessed 06-15-2011

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GI Abnormalities

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20 year old with left shoulder pain

- Kehr's Sign
 - Intense pain of the left shoulder
 - Produced with splenic rupture
 - Will reproduce pain with pressure over spleen but not by palpating left shoulder



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Mark...

Mark is a 12 yowm who presents with an 8 hour history of worsening abdominal pain. Woke him from sleep. Epigastric at onset. Now seems lower in right side of abdomen. Associated with nausea and vomiting for the past 2 hours and a temp of 100. Denies bowel changes, urinary symptoms.

Meds: none; Allergies: NKDA

What is going on with Mark?

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Appendicitis

- Mortality and morbidity rates remain high
- Perforation rates: 17-40%
 - Perforation has been known to occur within 1st 24-48 hours of the infection

<http://emedicine.medscape.com/article/773895-overview> accessed 06-30-2011

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History of a patient with appendicitis

- Careful history is the most important aspect
 - Individual is usually a teen or young adult
- Classic presentation: awakens in the night with vague periumbilical pain
 - **Worsens over the period of 4 hours**
 - **Subsides as it migrates to the RLQ**
 - **Worsened with movement, deep respirations, coughing**

<http://emedicine.medscape.com/article/773895-overview> accessed 06-30-2011

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History of a patient with Appendicitis

- Pain precedes anorexia, nausea or vomiting
 - Nausea and anorexia are very common
 - Vomiting may or may not be present
 - Question the diagnosis if patient is hungry
- Low grade fever or none at all
- Usually seek attention within 12-48 hours
- Patient will often report feeling constipated

<http://emedicine.medscape.com/article/773895-overview> accessed 06-30-2011

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Physical Examination

- Abdominal Examination
 - Tenderness at McBurney’s point
 - 1/3 the distance between the anterior iliac spine and the umbilicus
 - Guarding
 - Contraction of the abdominal walls
 - Frequently present
 - Can be faked or induced

<http://emedicine.medscape.com/article/773895-overview> accessed 06-30-2011

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Physical Examination

- Rigidity
 - Important predictor of appendicitis
 - Involuntary spasm of the abdominal musculature
 - Caused by peritoneal inflammation
- Markle’s sign
 - Heel-drop jarring test

<http://emedicine.medscape.com/article/773895-overview> accessed 06-30-2011

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Physical Examination

- Rebound tenderness
 - Press on area above the pain
 - Suddenly withdraw fingers
- Rovsing’s Sign
 - Pain felt in RLQ when examiner presses firmly in the LLQ and suddenly withdraws
- Psoas Sign
 - Patient is placed in a supine position
 - Ask patient to lift thigh against your hand that you have placed above the knee

<http://emedicine.medscape.com/article/773895-overview> accessed 06-30-2011

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Physical Examination

- Obturator Sign
 - May be or may not be positive
 - Patient is positioned in supine position with the right hip and knee flexed
 - Internally rotate the right leg

<http://emedicine.medscape.com/article/773895-overview> accessed 06-30-2011

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Additional Diagnostic Pearls

- Gray Turner’s Sign
 - Ecchymosis of the flank
 - Indicative of Extra or Intraperitoneal hemorrhage
- Cullen’s sign
 - Periumbilical ecchymosis
 - Indicative of Extra or Intraperitoneal hemorrhage

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What I Wish I Had Known

- Have patient assume a “modified sit-up” on examination table
 - Palpate abdomen: if tender when abdomen is flexed - likely muscular problem
 - If tender with relaxation – deeper abdominal issue

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Neurologic Abnormalities

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AB

- 66 year old female who presents to NP complaining of:
 - Pressure in right ear x 4 hours
 - Concerned re: an ear infection as she is flying over next 48 hours
 - History of allergic rhinitis
 - Accompanied by vertigo
 - Notices that sound is “muffled in ear”

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AB (continued)

- Evaluation by NP
- Normal examination except pale, boggy turbinate's
- No evidence of AOM
- ? Slight fluid behind right TM
- Diagnosis: Serous OM
- Treatment: OTC treatment; i.e. topical nasal spray and pseudoephedrine

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AB (continued)

- Call 12 hours later....
 - Worsening hearing loss, difficulty hearing right ear
 - No pain, feels blocked
 - Concerned as she is flying
 - Seen by MD
 - Diagnosis: OME
 - P: loratadine, increased fluids, topical nasal spray

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AB (continued)

- 6 months later, letter received from specialist
- Diagnosis:
 - Sudden Sensorineural Hearing Loss (SSNHL)

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SSNHL

- Most cases occur in the morning and progress rapidly over a 12 hour period
- First presentation is often tinnitus or sense of fullness
- Peak incidence: 6th decade of life
- Most cases idiopathic
 - May be infectious, result of an acoustic neuroma
 - Trauma or drug induced
 - Occlusion of cochlear artery
- 40% accompanied by vertigo
 - Poor prognosticator

http://otologytextbook.com/sudden_sensorineural_hearing_loss.htm accessed 03-08-2013

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SSNHL

- 30-65% will completely or partially recover without treatment
- Treatment:
 - Aimed at eliminating offending cause
 - Steroids
 - 10 day course of steroids
 - 40-60 mg of prednisone daily
 - 78% vs. 38% had partial/complete recovery compared with placebo
 - Vasodilator therapy

http://otologytextbook.com/sudden_sensorineural_hearing_loss.htm accessed 03-08-2013

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SSNHL

- Regard SSNHL is regarded as an otologic emergency
- Refer to audiology vs. ENT acutely
- Gadolinium-enhanced MRI of the internal auditory canals should be obtained (r/o acoustic neuroma)
- A 10-day course of prednisone, 1 mg/kg/d
 - If a partial recovery is noted at the end of the 10 days, the full dose is extended another 10 days, and the cycle is repeated until no further improvement is noted.
- Additionally, acyclovir, 800 mg 5 times daily for 10 days, is prescribed because it may be beneficial and since the risks are minimal.
- A 2-g sodium diet is recommended with a hydrochlorothiazide-triamterene diuretic combination

http://otologytextbook.com/sudden_sensorineural_hearing_loss.htm accessed 03-08-2013

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Signs and Symptoms of Immediate Concern

Following section adapted from: Wright, WL. 2010 Physical Assessment & Health History of the Adult Examination 9th Edition.
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Signs and Symptoms of Immediate Concern

- General

- Fever >103 -105
- Any toxic appearing individual
- No eye contact with parent
- Not consolable
- No urination or tears in 8 hours

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Signs and Symptoms of Immediate Concern

- General

- Infant < 3 months with a temp of 100 or >
- Child with a weak cry
- Child who is unable to be comforted for > 4 hours or not making eye contact with caregiver
- No feeding in 3 tries

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Signs and Symptoms of Immediate Concern

- General

- Change in behavior
- Change in gait

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Signs and Symptoms of Immediate Concern

- Dermatological
 - Rashes, particularly when associated with a fever
 - Rashes described as bruising
 - Lacerations > 1/4 inches
 - Bee sting associated with paleness, sob, or wheezing
 - Animal or human bite
 - Burns

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Signs and Symptoms of Immediate Concern

- Eyes
 - Trauma
 - Pain (triad – pain, redness, and vision changes)
 - Double vision
 - Photophobia
 - Intense redness
 - Unequal pupils
 - Foreign body in the eye

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Signs and Symptoms of Immediate Concern

- Ears
 - Intense pain
 - Discharge from the ear
 - Foul smelling odor
 - Pain, followed by sudden relief and discharge
 - Sudden loss of hearing

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Signs and Symptoms of Immediate Concern

- **Nose**
 - Bloody nose that does not stop for 20 minutes
 - Foul discharge from one side only
 - Extensive redness on the face, particularly around nose

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Signs and Symptoms of Immediate Concern

- **Mouth**
 - Trouble swallowing
 - Sore throat with fever and/or exudate
 - Drooling from the mouth
 - Sore throat with a rash
 - Toxic appearing individual with sore throat

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Signs and Symptoms of Immediate Concern

- **Pulmonary**
 - Shortness of breath
 - Wheezing
 - Cough productive of bloody sputum
 - Cough associated with drooling
 - Bluish color to lips
 - Sitting up and leaning forward to breathe
 - Pain with inspiration

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Signs and Symptoms of Immediate Concern

- Pulmonary
 - Flaring nostrils
 - Retracting or heaving chest
 - Constant cough > q 5 minutes
 - Any individual with a peak flow of 50% or less than predicted

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Signs and Symptoms of Immediate Concern

- Pulmonary
 - Any child with labored breathing
 - Any child who has a barky, croupy cough but does not respond to 15 minutes of steam

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Symptoms of Immediate Concern

- Cardiac
 - Chest pain, particularly if associated with shortness of breath or radiation
 - Associated diaphoresis
 - Irregular heart beat, particularly if associated with sob or dizziness
 - Bilateral pitting edema associated with weight gain, sob or chest pain
 - Orthopnea
 - PND

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Signs and Symptoms of Immediate Concern

- Peripheral Vascular
 - Tender, swollen calf
 - One cold foot

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Signs and Symptoms of Immediate Concern

- Abdominal
 - Fever with abdominal pain
 - Trauma
 - Abdominal pain
 - Abdominal pain that began in epigastric region and has moved to the RLQ
 - Bloody vomitus or diarrhea

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Symptoms of Immediate Concern

- Abdominal
 - Vomiting associated with neurological changes
 - Black or bloody stools

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Signs and Symptoms of Immediate Concern

- Musculoskeletal
 - Fall from a height and localized bone pain
 - Obvious deformity of any bone
 - Back pain associated with loss of bowel or bladder control
 - Neck pain with numbness/tingling in arms or body

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Signs and Symptoms of Immediate Concern

- Gynecological/Urinary
 - Urinary symptoms of dysuria, frequency, or urgency
 - Back pain with associated urinary symptoms
 - Hematuria
 - Vaginal bleeding of 1 pad or > per hour

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Signs and Symptoms of Immediate Concern

- Gynecological/Urinary
 - Bloody vaginal discharge
 - Bleeding associated with a positive pregnancy test
 - Severe dyspareunia; particularly with deep movement

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Signs and Symptoms of Immediate Concern

- **Gynecological/Urinary**
 - New wetting in a child

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Signs and Symptoms of Immediate Concern

- **Neurological**
 - Headache after trauma
 - Headache associated with neurological changes
 - Headache associated with fever
 - Altered consciousness and lethargy

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Signs and Symptoms of Immediate Concern

- **Neurological**
 - Blood coming from an ear or bruising behind ear, especially after trauma
 - Numbness on one side of the body
 - New onset of headaches in individual over age 50
 - New facial asymmetry

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Signs and Symptoms of Immediate Concern

- Endocrine
 - Urinary frequency with polydipsia, polyphagia, and weight loss
 - Rapid breathing associated with any of the above symptoms

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Signs and Symptoms of Immediate Concern

- Psychological
 - Suicidal ideations (ask if plan)
 - History of suicide attempt and now with suicidal ideations

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