Managing Office Emergencies

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Objectives

- Upon completion of this lecture, the participant will be able to:
 - Discuss various office emergencies
 - Identify the appropriate management of individuals with the above conditions
 - Discuss medications and treatment options that may be utilized for the above conditions

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Asthma and Asthma Exacerbation





















Symptoms and Signs of Asthma in Children and Adults

- Coughing, particularly at night
 Cortisol levels are the lowest at night
- Wheezing
- Chest tightness
- SOB
- Cold that lingers x months with a persistent cough

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The Biggest Predictor of Sudden Death from Asthma
History of hospitalization with or without intubation
These individuals are at a significant risk for a serious exacerbation again

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Acute Asthma Exacerbation Management

















- Have plan in place for next URI
- Preventative therapy?
- Environmental modification
- Daily peak flows

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Management of Moderate Exacerbations: Response from Emergency Treatment

- Good Response
 - Symptom relief sustained x 1hr; FEV1 or PEF \geq 70%
 - D/C home
 - Continue SABA & oral corticosteroid
 - Consider inhaled corticosteroid (ICS)
 - Patient education / asthma action plan

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Management of Moderate Exacerbations: Desponse from Emergency Desponse Mid-moderate symptoms, FEV1 or PEF 40-69% Mid-moderate symptoms, FEV1 or PEF 40-69% SABA, oxygen, oral or IV corticosteroid Marked symptoms, PEF <40% Repeat SABA immediately De J 911; oral corticosteroid









Differential Diagnosis for Stridor

- Differential
 - Croup (laryngotracheobronchitis)
 - Mechanical Obstruction (birth)
 - Foreign body aspiration
 - Peritonsillar abscess
 - Epiglottitis
 - Angioedema













- History and physical examination
- X-ray
 - May show subglottic narrowing also referred to the steeple sign
 - X-ray not generally done on most individuals
- Important reminder:
 - Avoid oral examination if child is severe until airway is secure







What Is It?

- Peritonsillar abscess is the most common deep infection of the head and neck that occurs in children
- It is typically formed by a combination of aerobic and anaerobic bacteria
- Begins as a superficial infection and then develops into a cellulitis/abscess of the tonsillar region
- Multiple antibiotics are thought to increase the risk for the development

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Peritonsillar Abscess

 Generally begins as an acute febrile URI or pharyngitis

- Condition suddenly worsens
 - Increased fever
 - Anorexia
 - Drooling
 - Dyspnea
 - Trismus

















Presentation
 Urticaria
Angioedema
Dyspnea and wheezing
 Hypotension
■ Flushing
 Diarrhea, vomiting
Chest pain

 Syncope or seizure windt, 2011













Stevens-Johnson Syndrome

- Distinct, acute hypersensitivity syndrome
- Many causes: Drugs, bacteria, viruses, foods, immunizations
- Also known as Bullous Erythema Multiforme
- Stevens-Johnson Syndrome is thought to represent the most severe of the erythema multiforme spectrum
- Two stages
 - Prodrome which lasts 1-14 days
 - 2nd stage: mucosal involvement where at least 2 mucousal surfaces are involved (oral, conjunctival, urethral)

Stevens-Johnson Syndrome Mortality: 5-25% Long-term complications are common Face almost always involved and mouth always involved Entire course: 3-4 weeks Most common in children aged 2 - 10

Stevens-Johnson Syndrome

Constitutional symptoms such as fever, headache, sore throat, nausea, vomiting, chest pain, and cough

- Physical Examination Findings
 - Vesicles that are extensive and hemorrhagic
 - Bullae rupture leaving ulcerations which are covered with membranes
 - Leave large areas of necrosis and skin peels
 - Lesions on the conjunctiva









Pan Must rule-out staphylococcal scalded skin syndrome Therapeutic: HOSPITALIZATION with early opthamological evaluation Steroids are controversial Others in family may be genetically susceptible Never take these medications again

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Necrotizing Fasciitis

- Severe, deep, necrotizing infection
- Involves subcutaneous tissue down into the muscles
- Spreads rapidly
- Caused by Group A Beta Hemolytic Strep, Staph, Pseudomonas, E Coli
- Mortality: 8-70% depending upon organism and rapidity of treatment
- Disfigurement common

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Necrotizing Fasciitis

Symptoms

- Usually occurs after surgery, traumatic wounds, injection sites, cutaneous sores
- Generalized body aches, fever, irritability
- Key: Red area of skin that is severely painful (It is out of proportion to findings)
- Leg is most common location
- Physical Examination Findings
- 1st appears as local area of redness that looks like cellulitis

Necrotizing Fasciitis

Physical Examination Findings

- Tender
- Bullae with purulent center which ruptures quickly
- Black eschar appears and the pain decreases
- Systemic symptoms begin





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Syncope

























Myocardial Ischemia, Injury, and Infarct

- A study was conducted on 1578 people in whom the clinician determined through history was most likely having "typical" ischemic chest pain-
 - 94% had an MI even when only 60% had changes on ECG suggestive of such







Emergency Protocol

- 12 lead ECG
- Have colleague activate 911 while someone is attending patient
- Nitroglycerin sublingual: 1 every 5 minutes for a total of 3 in 15 minutes
- Aspirin have patient chew aspirin, if able
- Oxygen 2 4 L O2 via nasal cannula
- Stabilization and monitoring until EMS arrives

Monday, September 25 69 year old male presents with a 3 week history of fatigue, nasal discharge-clear; seen by MD 1 week prior and started on Augmentin. Not feeling any better. PE: pallor, tachycardia, diaphoretic; Lungs clear, HEENT-normal; CBC: wbc: 8.9; rbc: 1.54; hgb: 5.5, hct: 17.2, MCV: 112, MCHC: 32; platelet: 32; Bands: 0; Segs: 5 (L) Monocytes: 21, Abnormal lymphocytes: 33.

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Case Study 2: M.R.
46 y.o.w.m presents with a 3 hour history of a headache, located behind his right eye
Never had anything like this before
9 on a 1-10 scale (10 severe pain)
Associated with blurred vision and watering in right eye
Denies trauma, history of systemic or ocular diseases
Meds: none Allergies: NKDA

Case Study 2: M.R. PE: Slightly dilated pupil (OD), Nonreactive and mild injection. Firm globe. IOP: 80. Remainder of physical examination-normal.

Acute Angle Closure Glaucoma

Definition

- Sudden blockage of the aqueous outflow tract of the eye
- Causes: Idiopathic, emotional or physical stress, rarelyinstillation of dilating drops
- Genetic predisposition (1st degree relatives: 2-5% risk)

Symptoms

- Severe ocular pain
- Frontal headache
- Blurred vision with halos around lights
- Nausea and vomiting

Acute Angle Closure Glaucoma

- Signs
 - Injected eye
 - Mid-dilated nonreactive pupil
 - Steamy, cloudy cornea
 - Firm globe
 - Increased intraocular pressure (40-80)
 - Narrow angle
 - Shallow anterior chamber in other eye
 - May simulate a cerebral bleed







Acute Angle Closure Glaucoma

Treatment

- Ocular emergency
- Immediate referral for treatment
- Medical Management
 - Hyperosmotic agents
 - Diamox and eye drops
- Surgical Treatment

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Case Study 3: TY

- TY is a 5 yowm who presents with his mom for an evaluation of (R) pink eye. Began this am. Denies discharge, itching, recent URI. Mom denies trauma but does report strange occurrence yesterday. He failed to respond to her calling. When he finally came, he reported being asleep outside.
- PE: Absent red reflex-OD; Visual acuity 20/100 (OD); 20/30 (OS); Pupil-slightly constricted (OD). Unable to view the fundus (OD)

Hyphema		
■ Definition		
- Bleeding into the anterior chamber of the iris		
 Causes include trauma or surgery 		
Symptoms		
- Pain, red eye, blood in anterior chamber		
 Blurred or Absent vision 		
∎ Signs		
- Absence of the red reflex		
- Blood in the anterior chamber		
- Increased IOP	11	





















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