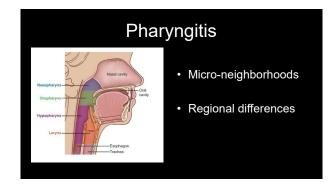
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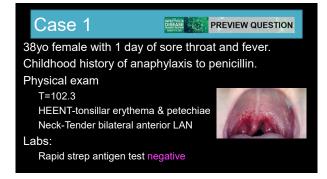




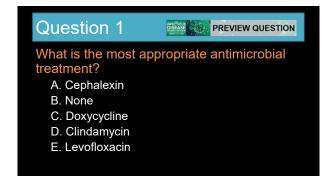








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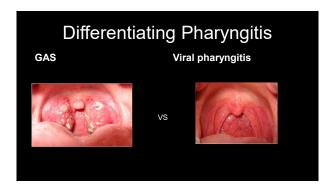
Group A streptococcus

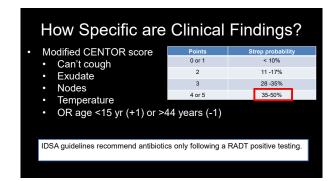
• AKA Streptococcus pyogenes



- 5-15% sore throats in adults
- Usually self-limited infection in adults (even untreated)

Differentiating Pharyngitis GAS Sudden onset Fever Lymphadenopathy Exposure to contact with streptococcal pharyngitis The 3 C's Conjunctivitis Coryza Cough Other symptoms Diarrhea Ulcerative stomatitis Hoarseness





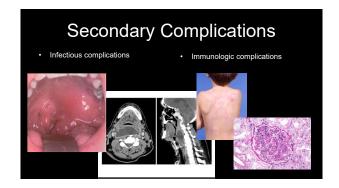


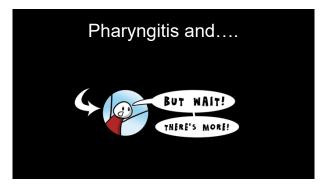
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Laboratory Diagnosis • Adults:

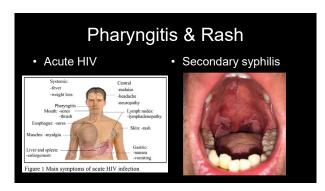
- RADT screen, if negative, culture optional
- · ASO titer or Anti-DNAse B antibodies
 - helpful in diagnosis of rheumatic fever and post-streptococcal glomerulonephritis, but not for strep pharyngitis.



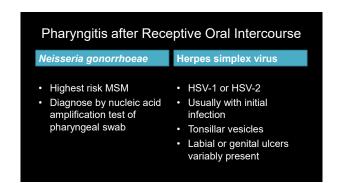




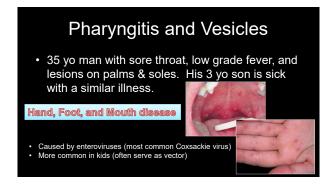


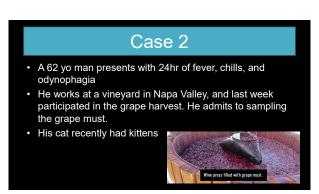


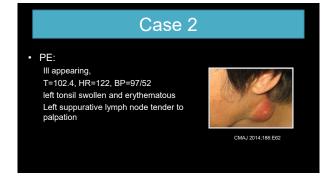
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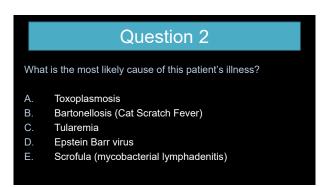












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Oropharyngeal Tularemia

- · Uncommon in the US
- Transmission through ingestion (or rarely inhalation)
 - Inadequately cooked game
 - Contaminated water
 - Rodent contamination
- · Exudative tonsillitis, suppurative LAN
- · Treatment: streptomycin, doxycycline or quinolone
- 20 yo college student with sore throat, fever and chills. Despite oral amoxicillin, develops new onset of cough and pleuritic CP; CT below

Pharyngitis and Chest Pain

- Lemierre syndrome
- Septic phlebitis of internal jugular vein
- Often follows GAS pharyngitis or mono (EBV)
- · Classic cause is Fusobacterium necrophorun
- Causes septic pulmonary emboli



Pharyngitis & TNF-alpha inhibitors

 69yo man on infliximab presents with 2 months of painful oral ulcer and 20 lb wt loss

Oropharyngeal Histoplasmosis

- Can mimic oral malignancy
- Denotes disseminated disease



Extra-Tonsillar Infections: 1

- · Epiglottitis
 - Fever, sore throat
 - Hoarseness, drooling, muffled voice, stridor
 - Examine with care!
 - Lateral neck x-ray: Thumb sign
 - H. influenzae type B, pneumococcus



Extra-Tonsillar Infections: 2

- · Vincent Angina
 - AKA Trench mouth
 - AKA acute necrotizing ulcerative gingivitis
 - Bad breath (mixed anaerobes)
 - Painful
 - Sloughing of gingiva



Extra-Tonsillar Infections: 3

- Ludwig Angina
 - Cellulitis of floor of the mouth
 - Often starts with infected molar
 - Rapid spread with potential for airway obstruction
 - Fevers, chills, drooling, dysphagia, muffled voice, woody induration of neck
 - Mixed oral organisms



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Case 3

- A 32-year-old woman is seen for a bad sore throat for 4 days
- Recently returned from her sister's wedding in Kazakhstan
- She c/o odynophagia, and a low-grade fever. Today, she noted a choking sensation, prompting medical evaluation.

- T 100.2F; P 126; BP 118/74.
- HEENT: Submandibular swelling with gray exudate coating posterior pharynx.
 An S3 gallop is heard.
- EKG shows 1st degree AV nodal block, QT prolongation, and ST-T wave changes.

Question 3

The most likely diagnosis is?

- A. Streptococcal pharyngitis
- B. Kawasaki disease
- C. Vincent angina
- D. Diphtheria
- E. Candida

Buzz words and Visual Associations

Bull neck:







Grey pseudomembrane: extends onto palate or

uvula; bleeds when scraped





Other clues

- · Location, location, location
 - Almost unheard of in developed countries (vaccination)
 - Still an issue (high mortality) in developing world
- · Sore throat and myocarditis (~25%).
- Sore throat and neuropathies (~5%).
- · Sore throat and cutaneous ulcer



Noninfectious Mimics

- PFAPA (periodic fever, aphthous stomatitis, pharyngitis, and adenitis)
- · Still's disease
- Lymphoma
- Kawasaki disease
- · Behçet disease



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