

Question #1

38-year-old female presents with a 1 day of sore throat and fever.

Childhood history of anaphylaxis to penicillin.

Physical exam

T=102.3

HEENT-tonsillar erythema & petechiae

Neck-Tender bilateral anterior LAN

Labs:

Rapid strep antigen test negative



Question #1

What is the most appropriate antibiotic treatment?

- A. Cephalexin
- B. None
- C. Doxycycline
- D. Clindamycin
- E. Levofloxacin

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Group A streptococcus

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

Differentiating Pharyngitis

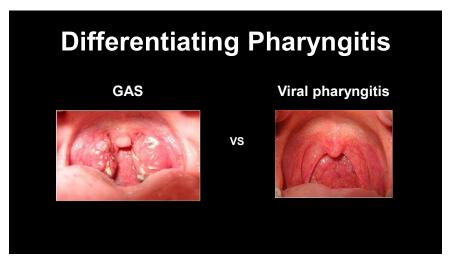
GAS

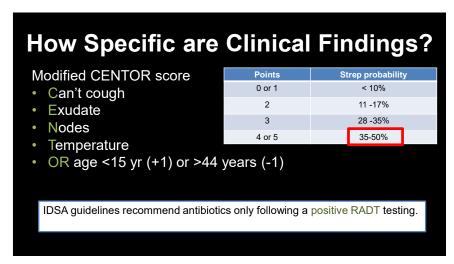
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- · Sudden onset
- Fever
- Lymphadenopathy
- Exposure to contact with streptococcal pharyngitis

Viral pharyngitis

- The 3 C's
 - Conjunctivitis
 - Coryza
 - Cough
- Other symptoms
 - Diarrhea
 - Ulcerative stomatitis
 - Hoarseness



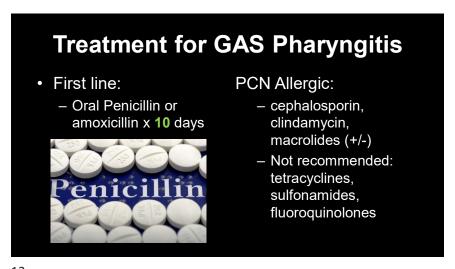


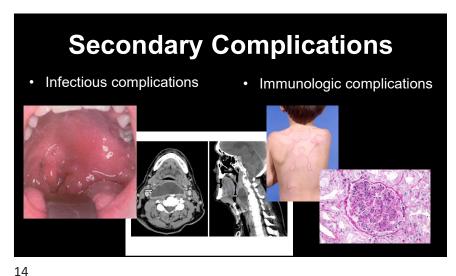


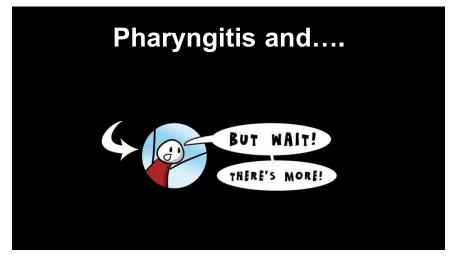
Laboratory Diagnosis

· 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.







Pharyngitis & Rash

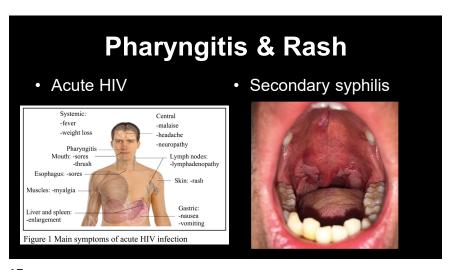
• Young adult with fever, sore throat, tonsillar exudate, scarletinoform rash BUT...Negative RADT and culture

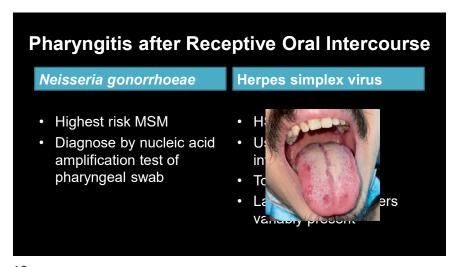
Arcanobacterium haemolyticum

• Gram positive rod

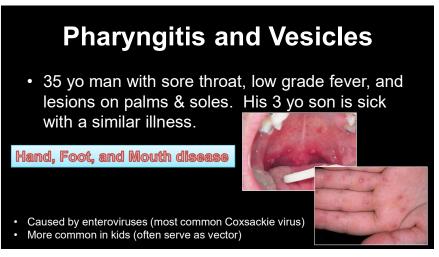
• Rash in >50%, mimics strep

• Rarely life-threatening sequelae









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Oral Lesions Due to Mpox

- Oral lesions often pre-date skin findings
- Seen in up to 25% of cases of mpox







Question #2

- A 62-year-old man presents with 24hr of fever and odynophagia
- He works at a vineyard in Napa Valley and last week participated in the grape harvest. He admits to sampling the grape must.
- · His cat recently had kittens



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Question #2

• PE:

Ill appearing, T=102.4, HR=122, BP=97/52 left tonsil swollen and erythematous Left suppurative lymph node tender to palpation



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Question #2

What is the most likely cause of this patient's illness?

- A. Toxoplasmosis
- B. Bartonellosis (Cat Scratch Fever)
- C. Tularemia
- D. Epstein Barr virus
- E. Scrofula (mycobacterial lymphadenitis)

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 and fever. Despite oral amoxicillin, he develops new onset of cough and pleuritic CP; CT below

Lemierre syndrome

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



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Pharyngitis in Immunocompromised Patients

 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

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- 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

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- 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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Question #3

PREVIEW QUESTION





- 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
- 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

PREVIEW QUESTION





What is the most likely diagnosis?

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

Buzz Words and Visual Associations

Bull neck:

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Grey pseudomembrane: extends onto palate or

uvula; bleeds when scraped





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Other Clues

- · Location, location, location
 - Almost unheard of in developed countries (vaccination works!)
- 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



