Speaker: Karen C. Bloch, MD, MPH, FIDSA, FACP





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Pharyngitis

Nasopharynx

Nasopharynx

Hypopharynx

Esophagus

Trachea

Pharyngitis

Micro-neighborhoods

Regional differences

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## **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:

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Rapid strep antigen test negative



Question #1

What is the most appropriate antibiotic treatment?

- A. Cephalexin
- B. None

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- C. Doxycycline
- D. Clindamycin
- E. Levofloxacin

# **Question #1**

What is the most appropriate antibiotic treatment?

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**Group A streptococcus** 

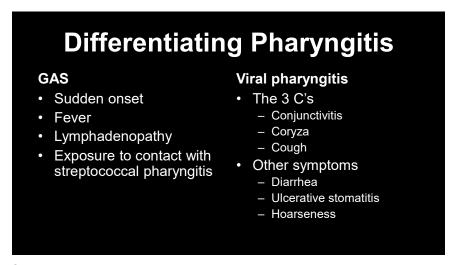


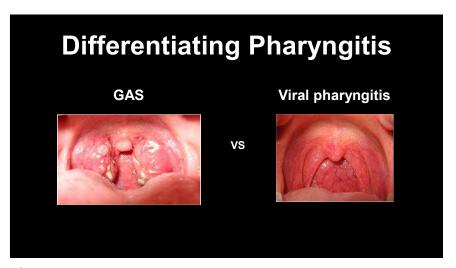
- AKA Streptococcus pyogenes
- 5-15% sore throats in adults
- Usually self-limited infection in adults (even untreated)

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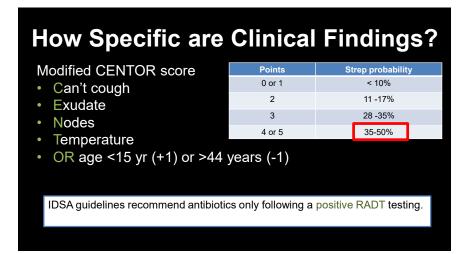
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# **Laboratory Diagnosis**

- 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.

# **Treatment for GAS Pharyngitis**

• First line:

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 Oral Penicillin or amoxicillin x 10 days

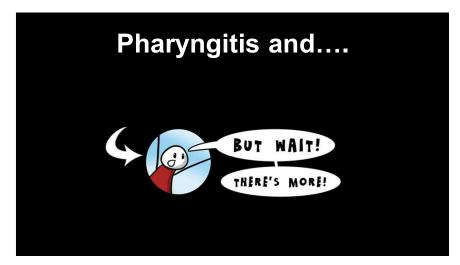


#### **PCN Allergic:**

- cephalosporin, clindamycin, macrolides (+/-)
- Not recommended: tetracyclines, sulfonamides, fluoroquinolones

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# Secondary Complications Infectious complications Immunologic complications

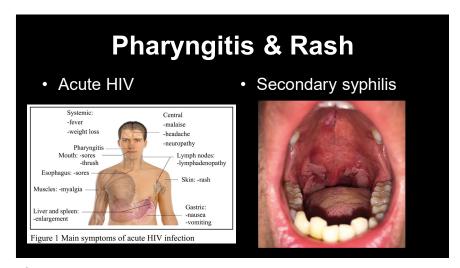


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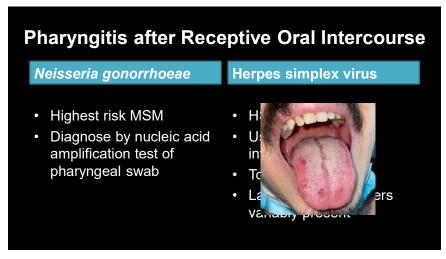
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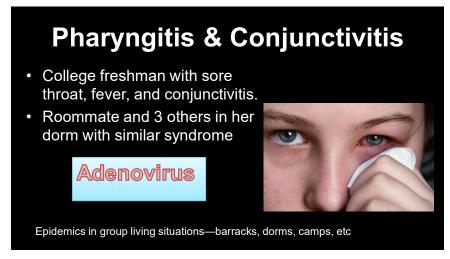
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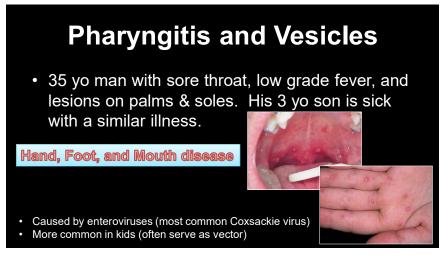


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# **Oral Lesions Due to Mpox**

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







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# **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



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

CMAJ 2014;186:E62

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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

25

- D. Epstein Barr virus
- E. Scrofula (mycobacterial lymphadenitis)

# **Question #2**

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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

# **Pharyngitis and Chest Pain**

 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



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## **Extra-Tonsillar Infections: 2**

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

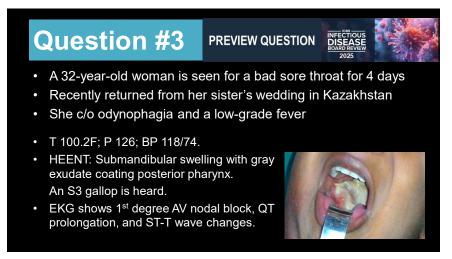


## **Extra-Tonsillar Infections: 3**

- 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



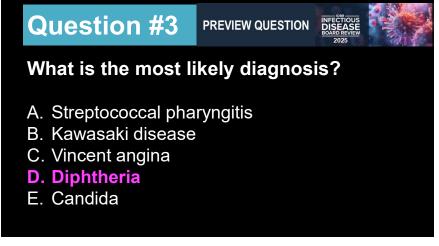
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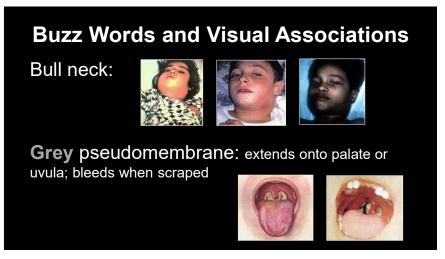


Question #3

PREVIEW QUESTION DISEASE DISEASE

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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



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