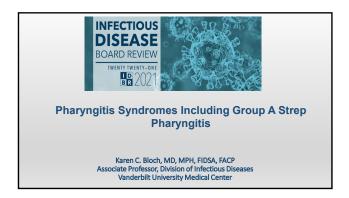
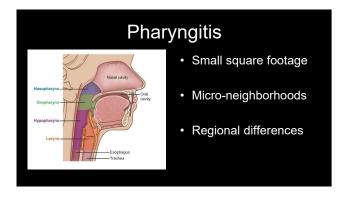
Speaker: Karen Bloch, MD

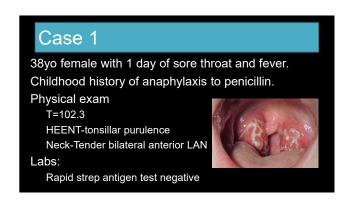












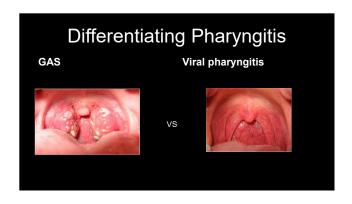
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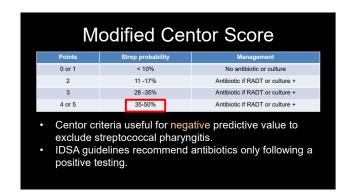
### Question 1 What is the most appropriate antimicrobial treatment? A. Cephalexin B. None C. Doxycycline D. Clindamycin E. Levofloxacin

#### **Group A streptococcus**

- Term .
- AKA Streptococcus pyogenes
- 5-15% sore throats in adults.
- Usually self-limited infection (even untreated)
- Viral and bacterial pharyngitis clinically similar

#### Differentiating Pharyngitis GAS Viral pharyngitis The 3 C's - Conjunctivitis • Sudden onset Fever Coryza Onset in winter and early - Cough Hoarseness Lymphadenopathy Diarrhea Exposure to close contact Ulcerative stomatitis with streptococcal Tonsils red, but rarely enlarged or purulent pharyngitis







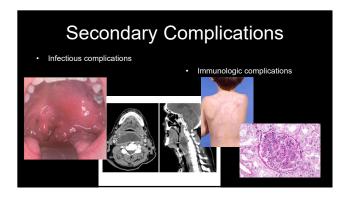
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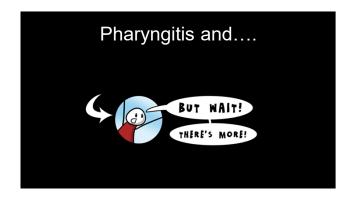


### **Laboratory Diagnosis**

- · 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.







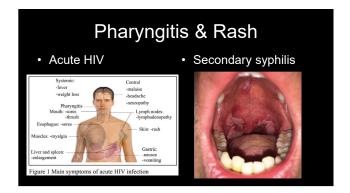


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#### Arcanobacterium haemolyticum

- · Gram positive rod.
- Scarletiniform rash in ~50%.
- · Treatment: azithromycin (clinda, PCN).
- · Rarely life-threatening sequelae.





#### Pharyngitis after Receptive Oral Intercourse

#### Neisseria gonorrhoeae

- · Highest risk MSM
- · Most asymptomatic
- Nonspecific presentation
- Diagnose by nucleic acid amplification test of pharyngeal swab

#### Herpes simplex virus

- HSV 1 or 2
- Usually with acute infection
- · Nonspecific presentation
- Labial or genital ulcers variably present

### Pharyngitis & Conjunctivitis

- · College freshman with sore throat, fever, and conjunctivitis.
- Roommate and 3 others in her dorm with similar syndrome





Epidemics in group living situations—barracks, dorms, camps, etc

### Pharyngitis and Vesicles

· 35 yo man with sore throat, low grade fever, and lesions on palms & soles. His 3 yo son is sick with a similar illness.

Hand, Foot, and Mouth disease

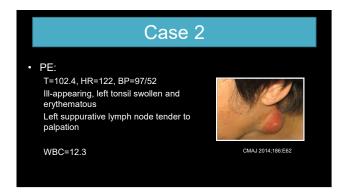
- Caused by enteroviruses (most common Coxsackie virus)
- Overlap with herpangina (oral lesions only)
  More common in kids (often serve as vector)

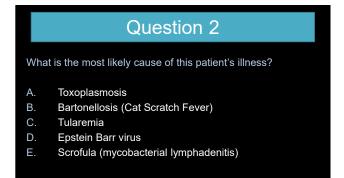
#### Case 2

- A 62 yo man presents with 24hr of fever, chills, odynophagia and diarrhea.
- He works on 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

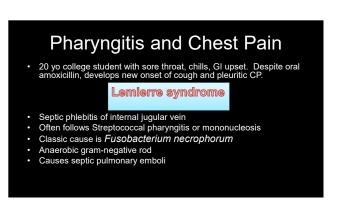


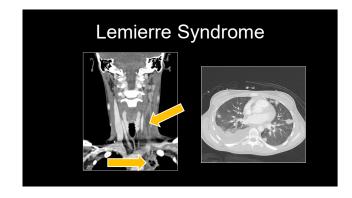
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## Oropharyngeal Tularemia Uncommon in the US Typically through ingestion (or rarely inhalation) Inadequately cooked game Contaminated tap water (Turkey) Rodent contamination Exudative tonsillitis, ulcers, swollen LAN Diagnosis: culture (alert lab), serology Treatment: streptomycin, doxycycline or quinolone







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#### Extra-Tonsillar Infections: 2

- · Vincent Angina
  - AKA Trench mouth
  - AKA acute necrotizing ulcerative gingivitis
  - Oropharyngeal pain, bad breath
  - Sloughing of gingiva
  - Mixed anaerobes



#### Extra-Tonsillar Infections: 3

- · Ludwig Angina
  - Bilateral 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 (viridans strep, anaerobes)



#### Case 3

- A 42-year-old, previously healthy woman is seen for a bad "sore throat" that began 4 days earlier while attending her sister's wedding in southern Ukraine.
- She c/o malaise, odynophagia, and a lowgrade 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.
- CBC is normal.
   EKG shows: 1<sup>st</sup> 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. Lemierre syndrome

# Buzz words and Visual Associations Bull neck: 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) - Large outbreak in former Soviet Union 1990s - Still an issue (high mortality) in developing world • Sore throat and myocarditis (~25%). • Sore throat and neuropathies (~5%). • Sore throat and cutaneous ulcer





# Modified Centor Criteria C-"can't" cough +1 E-exudate +1 N-neck adenopathy +1 T-temperature elevation +1 OR Age less than 15 +1 Age >44 -1