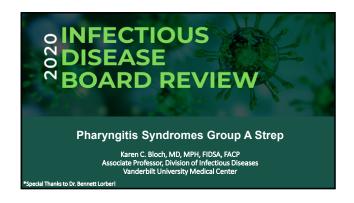
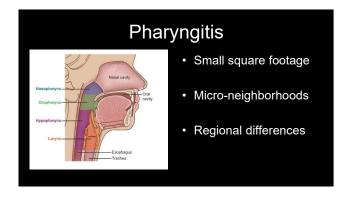
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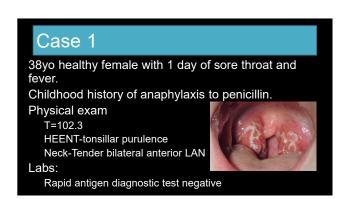












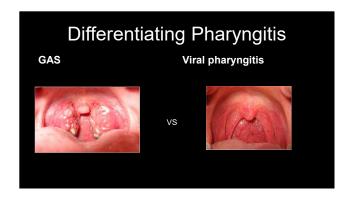
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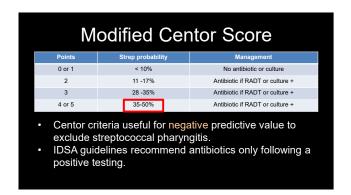
## Question 1 What is the most appropriate antimicrobial treatment? A. Cephalexin B. None C. Doxycycline D. Clindamycin E. Levofloxacin

## Group A streptococcus

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







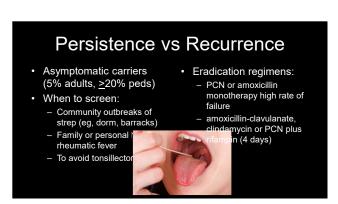
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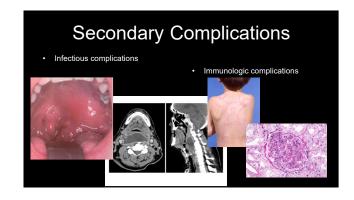


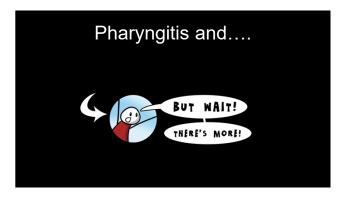
## **Laboratory Diagnosis**

- · 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.









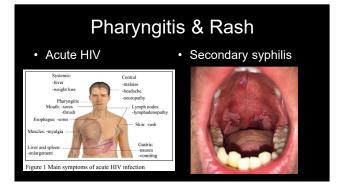
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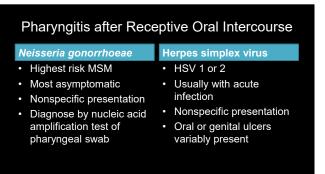


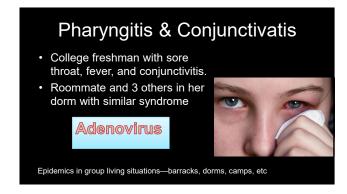
## Arcanobacterium haemolyticum

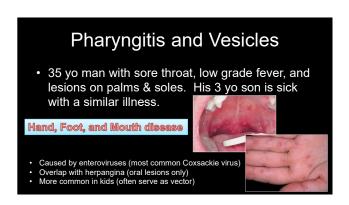
- · Gram positive rod.
- Scarletiniform rash in ~50%.
- Treatment: azithromycin (clinda, PCN).
- Rarely life-threatening sequelae.



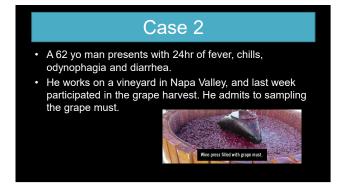


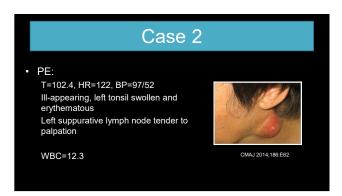




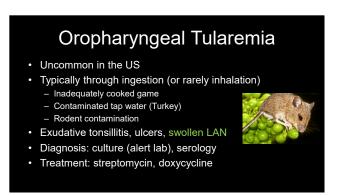


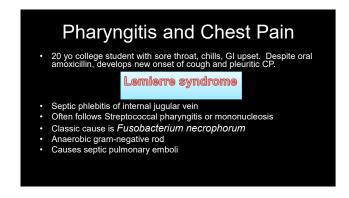
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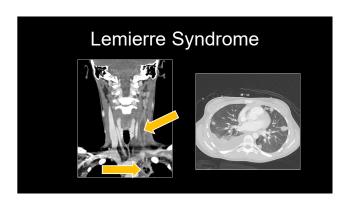




# Question 2 What is the most likely cause of this patient's illness? A. Toxoplasmosis B. Bartonellosis (Cat Scratch Fever) C. Tularemia D. Epstein Barr virus E. Scrofula (mycobacterial lymphadenitis)







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### 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
  - 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
  - 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 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.

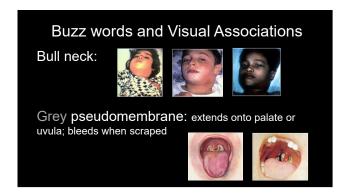
 CBC is normal. EKG shows: 1<sup>st</sup> degree AV nodal block, QT prolongation, and ST-T wave changes.

## Question 3

The most likely diagnosis is?

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

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









# 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