



ASCLS Continuing Education

Clinical Lab Investigations: Case Studies for the Lab Professional Case set #19 – Microbiology

Final Quiz

Select the single best answer for each of the following multiple-choice questions and record on the answer sheet.

1. The patient's symptoms are most consistent with which of the following?
 - a. Zoonotic disease from an animal bite.
 - b. Chronic kidney disease (CKD)
 - c. Sub-acute bacterial endocarditis
 - d. Chronic obstructive pulmonary disease (COPD)

2. Which of the following was the preferred environment for the isolate?
 - a. 37°C with 5% CO₂
 - b. ambient air at 37°C
 - c. anaerobic environment at 37°C
 - d. microaerophilic environment at 37°C

3. Which of the following incubation conditions contains 5-10% CO₂?
 - a. Capnophilic
 - b. Microaerophilic
 - c. Standard aerobic
 - d. Standard anaerobic

4. When the physician called for a preliminary report, which of the following data supported the "not *Pasteurella species*" response?
 - a. The Gram stain.
 - b. The fact that the organism was isolated from a wound specimen.
 - c. There was growth in broth media only.
 - d. There was no growth on the sheep blood agar or the chocolate agar plates in any atmosphere.

5. Which of the following media will not support growth of *Capnocytophaga canimorsus*?
 - a. Chocolate agar.
 - b. MacConkey agar.
 - c. Brain-heart infusion agar.
 - d. Columbia agar with 5% sheep blood.

6. Which mechanism helps *Capnocytophaga canimorsus* evade the immune system?
 - a. Biofilm formation.
 - b. Production of M protein.
 - c. The ability to feed off of macrophages.
 - d. Exotoxin production which disables the immune response.

7. Which single quick test can differentiate between *Capnocytophaga* sp. and *Pasteurella* sp.?
 - a. Indole
 - b. Catalase
 - c. Gram Stain
 - d. Cytochrome oxidase

8. Why are cat bites more likely to cause soft tissue abscesses than dog bites?
 - a. Cats have narrow needle-like teeth.
 - b. Cats are more likely to bite than dogs.
 - c. Dog bites don't puncture skin as easily.
 - d. Cats have more bacteria in their oral flora.

9. Which of the following characteristics can be used to differentiate *C. canimorsus* from *Pasteurella* spp.?
 - a. *C. canimorsus* is Gram positive.
 - b. *C. canimorsus* is motile.
 - c. *C. canimorsus* is beta-hemolytic.
 - d. *C. canimorsus* will show endospores when Gram stained.

10. Which group of antimicrobials has been shown to be ineffective when treating infections caused by *Capnocytophaga* spp.?
 - a. Penicillins
 - b. Vancomycin
 - c. Aminoglycosides
 - d. Third generation cephalosporins

Record all answers on the answer sheet. (1) Complete the form below. (2) record your answers. (3) Detach and **mail** your answer sheet with check or money order (**\$15 for ASCLS members, \$25 for non-members**) to:

American Society for Clinical Laboratory Science
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ASCLS Continuing Education Answer Sheet
Clinical Lab Investigations: Case set #19 – Microbiology
carries **1.0 hours** of continuing education. This form must be received by
August 31, 2017 to receive credit



Multiple Choice Questions

Circle the single best answer for each question

1. A B C D
2. A B C D
3. A B C D
4. A B C D
5. A B C D
6. A B C D
7. A B C D
8. A B C D
9. A B C D
10. A B C D

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