

- 1) A worried mom rushes into the clinic with her 7 year old worried that he has an allergic reaction from the look of his puffy face , when asked about a history she recalls no foods that he's allergic to but reports a strange rash he had a week and a half ago that she even has a photo of provided below , you immediately ask the child to do what?



- A) Swallow to see if it hurts
 - B) Provide a urine sample
 - C) Tell you what he's eaten recently
 - D) To stick out his tongue
- 2) A 34-year-old pregnant woman gives pre term birth at 8 months, not before long her baby starts getting fevers, difficulty breathing and trouble feeding, the mother tells you that she didn't have any pre gestation or prepartum checks, when swabbing her birth canal and culturing it which of the following do you expect to happen?
- A) Alpha hemolysis in blood agar
 - B) O₂ bubbling when a few drops of hydrogen peroxide are added
 - C) The production of benzoic acid when sodium Hippurate is added
 - D) Fermentation of mannitol in a mannitol-salt agar
- 3) A 44-year-old farmer comes into the ER with bloody coughs, after a brief history he tells you he's been complaining of chest pressure for the past week, you perform a chest x-ray which is provided below, which of the following is correct regarding his cause of disease?
- A) Can be transmitted through respiratory droplets
 - B) Resistant to almost all known antibiotics
 - C) Usually treated with fluroquinolone in combination with another antibiotic
 - D) He had it through ingestion of spoiled meat



- 4) A 14-year-old Caucasian male presents with painful erythematous and honey-colored crusted lesions around his mouth. Culture of the lesions reveals gram-positive cocci in clusters. Further analysis reveals bacteria that are beta-hemolytic, coagulase positive, catalase positive, and appear golden on the blood agar plate. Which of the following helps the bacterium in this infection bind to immunoglobulin and prevent phagocytosis when invading its host?
- A) Protein A
 - B) Staphylokinase
 - C) Exfoliatin A
 - D) Protein M
- 5) A 63-year-old female recovering from a total shoulder arthroplasty completed 6 days ago presents complaining of joint pain in her repaired shoulder. Temperature is 39 degrees Celsius. Physical examination demonstrates erythema and significant tenderness around the incision site. Wound cultures reveal Gram-positive cocci that are resistant to nafcillin. Which of the following organisms is the most likely cause of this patient's condition?
- _____
- A) Strep viridians
 - B) E. coli
 - C) Staph epidermidis
 - D) Staph aureus
 - E) GAS
- 6) A family of four walks into the hospital with an 11-year-old boy with fatigue, vomiting and watery diarrhea, all other signs seem to be normal, you start your diagnostic process, when all of a sudden, his family start getting the exact same symptoms, you know that this is a food poisoning case from the acute sudden stage of symptoms.... which of the following should be asked to confirm your diagnosis?
- A) What was your last meal?
 - B) Have you had an interaction with farm animals recently?
 - C) Have you had any skin infections lately?
 - D) When was the last time you were vaccinated?

- 7) The year is 1940 and you've been drafted for medical war service, your first soldier comes into your tent with a crushed soil dirty leg with large filled abscess on his skin that makes a crackling sound when palpated, you immediately diagnose and start bacterial treatment with IV penicillin, which of the following is true about this bacterium?
- A) It is an obligate aerobe
 - B) It produces a double hemolysis when plated
 - C) Produces a lethal paralyzing toxin
 - D) Causes hemorrhagic mediastinitis
- 8) An ambulance brings in a dirt bike accident victim that fell during a tournament, before leaving the paramedic tells you that the patient has a scary evil smiling look on his face that persists even when unconscious, when you try to culture the wound nothing comes up and that confirms your initial diagnosis, which of these questions do you ask the patient when he wakes up?
- A) What did you eat this morning?
 - B) Have you received all your vaccines regularly?
 - C) Are you allergic to penicillin?
 - D) Have you experienced substernal pressure recently?
- 9) A group of campers come into your ER complaining of the same signs, you notice one of them with a dropped eyelid, and he can't bring it up when you ask him to, you check their last meal and immediately do what?
- A) Provide botulinum antitoxin (A, B, E)
 - B) Administer doxycycline with fluroquinolones
 - C) Administer fluids with supportive care only
 - D) Ask them to stay away from other people to prevent infection
- 10) A patient is presented with vegetative lesions on his mitral valve, when checking his medical records, you notice a birth heart problem and a recent dental surgery that went wrong, your senior resident instructs you to give the patient a long course of penicillin after knowing that this bacterium is alpha hemolytic, which of the following is correct regarding this bacterium?
- A) It is optochin sensitive
 - B) Its vaccine differs between children and adults
 - C) It uses dextran to adhere to defective heart valves
 - D) It uses enterotoxin to cause TSS

ANSWERS

Q1	Q2	Q3	Q4	Q5
B	C	C	A	D
Q6	Q7	Q8	Q9	Q10
A	B	B	A	C