

DQ 11

Name: Kei' Shanae Williams

Date: 11/30/17

This worksheet will serve as a guide for discussion sections. You should attempt to answer the questions **BEFORE** coming to discussion and turn in the completed sheets. Your TA will guide you through the questions and help facilitate discussion. Your TA will not give you the answers but expects active participation. Attendance is mandatory.

You must turn in a PDF file on Canvas by 7:50 AM on Monday before Discussion.

1. Cholera is an infection of the small intestine by some strains of the bacterium *Vibrio cholera*.
 - 1) Pathogens can be divided into four main groups based on their *route of infection*. What are those groups? Which group does vibrio cholera belong to?
 - a. Mouth
 - b. Respiratory tract
 - c. Parenteral route- how cholera is spread
 - d. Immunopathogenesis
 - 2) In cholera patients, one classic symptom is large amounts of watery diarrhea that lasts days. How could causing diarrhea be beneficial to the pathogen? What is the *most important treatment* for a cholera patient with sever diarrhea?
 - a. So that no water is absorbed, and the individual becomes dehydrated.
 - b. Severe cases will need rapid treatment with intravenous fluids and antibiotics.
 - 3) Please watch the following video and explain how *V. cholera* causes diarrhea. Please include in your answer (1) the chemical nature and structure of *cholera toxin*, and (2) the mechanism of action of the cholera toxin.
http://www.norton.com/common/mplav/6.5/7pr/college/biology/microbiology3/&f=cholera_toxin
 - Food or water is ingested that is contaminated with human feces. *V. cholera* secretes cholera toxin with us composed of 5 B subunits and 1 A subunit called AB or Enterotoxin that specifically affects the intestines. Receptor density and multivalent binding on activation of adenylate cyclase. Cholera toxin (cholera toxin) activates adenylate cyclase.
 - 4) The cholera toxin gene is located on an essential virulent gene cluster called the *Vibrio* pathogenicity island (VPI). How do you distinguish a *pathogenicity island* from the rest of the genome? How do the microbes acquire these gene clusters originally?
 - a. Have GC content different from rest of genome. Often flanked by phage or plasmid genes
 - b. They are originally inherited through horizontal transmission
 - 5) Interestingly, *V. cholera* does not secrete cholera toxin until they successfully colonize the intestinal epithelial cells. Generally speaking, how do microbes *know it is in a host*?
 - a. Two-component signal transduction systems
 - i. Detect magnesium concentration, pH
 - ii. Both low in host cell vacuole
 - b. Quorum sensing
 - i. Detects exotoxins made by other cells
 - ii. Delays toxin synthesis until many bacteria present
 - iii. Possible pathway for preventing pathogen growth?

The Spread Of Pathogens Answer Key

**Rebecca Sarah Grant, Hilda Julian
Brock, Emma Jane Johnston**



The Spread Of Pathogens Answer Key

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