

BIO440: Microbiology
Case Study 1

You are responsible for studying the following four infectious diseases for the first case studies:

Ebola

Botulism

Creutzfeldt-Jacob disease (Mad Cow)

Malaria

Use this information to answer each of the questions from the two cases below.

Please write in complete sentences.

Case 1

You are an emergency medical technician and are called to the home of Kevin, a 13-week-old boy who has become listless and is having trouble breathing. The parents report that Kevin used to smile, but lately he has not smiled, nor has he had other noticeable facial expressions in the last two days. Kevin's eyes are open when you arrive, but he does not seem to be focusing. You place your outstretched finger under his fingers and he fails to grasp it. The parents report that he has not had a bowel movement in three to four days.

1. What is your suspicion of the disease? What symptoms are you basing your presumptive diagnosis on? What are the common symptoms of this disease?
From reading the passage above, I believe the disease might be Botulism disease. Some of the symptoms that lead to this diagnosis is trouble breathing, failure to grasp things, blurred vision, and other facial expression. The disease may have affected the nervous system. Most of the common symptoms of this disease are blurred vision, dry mouth and difficulty in swallowing and speaking.
2. What is the causative agent? (full genus and species)
The genus for this causative agent is called *Clostridium* and the species is called *Clostridium botulinum*.
3. What should be administered to Kevin at the earliest opportunity? Why?
Antitoxin should be administered right away in order to let the nerve cells regenerate and slow down the disease.
4. After initial treatment, what therapy will Kevin receive to clear the infection?
After initial treatment, Kevin will need supportive treatment that can help patient like Kevin to reduce stress level and help manage physical symptoms.
5. How do babies acquire this condition? What are two other types of this disease, and how do you acquire them?

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