

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?

# Microbiology Case Studies With Answers

**Raffaella Di Napoli**



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## **Table of Contents Microbiology Case Studies With Answers**

1. Understanding the eBook Microbiology Case Studies With Answers
  - The Rise of Digital Reading Microbiology Case Studies With Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Case Studies With Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Microbiology Case Studies With Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Case Studies With Answers
  - Personalized Recommendations
  - Microbiology Case Studies With Answers User Reviews and Ratings
  - Microbiology Case Studies With Answers and Bestseller Lists

5. Accessing Microbiology Case Studies With Answers Free and Paid eBooks
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  - Microbiology Case Studies With Answers eBook Subscription Services
  - Microbiology Case Studies With Answers Budget-Friendly Options
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  - Microbiology Case Studies With Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microbiology Case Studies With Answers
  - Highlighting and Note-Taking Microbiology Case Studies With Answers
  - Interactive Elements Microbiology Case Studies With Answers
8. Staying Engaged with Microbiology Case Studies With Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microbiology Case Studies With Answers
9. Balancing eBooks and Physical Books Microbiology Case Studies With Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microbiology Case Studies With Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Microbiology Case Studies With Answers
  - Setting Reading Goals Microbiology Case Studies With Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microbiology Case Studies With Answers
  - Fact-Checking eBook Content of Microbiology Case Studies With Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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