

“E. coli”

Read the following articles on the *E. coli* O157:H7 outbreak in Milwaukee.

[Outbreak of *Escherichia coli* O157:H7 Infection Associated With Eating Fresh Cheese Curds — Wisconsin, June 1998](#). *Morbidity and Mortality Weekly Report*. October 13, 2000. 49(40):911-913.

[Epidemiologic Notes and Reports Isolation of *E. coli* O157:H7 from Sporadic Cases of Hemorrhagic Colitis — United States](#). *Morbidity and Mortality Weekly Report*. August 1, 1997. 46(30):700-704.

Questions

1. What was the odds ratio of persons who ate watermelon and becoming ill? (2 points)
 - a) 8
 - b) 15
 - c) 800
 - d) 62

2. What is the term that means a pathogen is transferred from one food item to another food item? (3 points)
 - a) sabotage
 - b) cross-contamination
 - c) incubation period
 - d) mode of infection
 - e) bio-terrorism

3. Give two examples of the above. (2 points each)

8. Calculate the odds ratio given the following data. (4 points)

Ill	Ate watermelon	Did not eat watermelon	Total
Yes	72	115	187
No	5	122	127
Total	77	237	314

- a) 15.3
- b) 14.4
- c) 9.8
- d) 18.7

Tiebreaker

Match the disease with mode of transmission.

- | | |
|-------------------------------------|--------------------------|
| 1. ___ Hepatitis A | A. Tick-borne |
| 2. ___ Hepatitis B | B. Blood/sexual |
| 3. ___ HIV | C. Food-borne/fecal-oral |
| 4. ___ <i>E. coli</i> O157:H7 | D. Mosquito-borne |
| 5. ___ West Nile Virus | E. Unknown |
| 6. ___ Lyme Disease | |
| 7. ___ Kawasaki Disease | |
| 8. ___ <i>Campylobacter</i> | |
| 9. ___ Rocky Mountain Spotted Fever | |
| 10. ___ Malaria | |

Answer Key: “*E. coli*”

Questions

1. a
2. b
3.
 - Not washing hands after handling raw meat.
 - Using the same plate for handling raw and cooked meat.
 - Handling food items that will be served raw near raw meat using the same utensils, cutting boards.
 - Placing raw meat in refrigerator above foods that will be served raw, allowing juice from meat to drip onto other fruit.
4. Antibiotics are associated with increasing the risk of Hemolytic Uremic Syndrome in children.
5. d
6. Confirmed case-patient: Persons who ate at the Sizzler’s restaurant between July 14 and July 21 who became ill within 10 days with diarrhea (watery or bloody), abdominal cramps, nausea and/or vomiting and had a positive stool culture for *E. coli* O157:H7.
7. d
8. a

Tiebreaker

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