	A.	Strongly Agree	D.	Disagree
	B.	Agree	E.	Strongly Disagree
	C.	Neither agree nor disagree		
28.	The	primer increased my knowledge and skills	in t	he diagnosis and management of
	food	dborne illness.		
	A.	Strongly Agree	D.	Disagree
	B.	Agree	E.	Strongly Disagree
	C.	Neither agree nor disagree		
29.	This	s primer increased my knowledge of the rol	le of	public health authorities in the prevention
	and	control of foodborne disease outbreaks.		
	A.	Strongly Agree	D.	Disagree
	B.	Agree	E.	Strongly Disagree
	C.	Neither agree nor disagree		
30.	It is	s important to talk to my patients about food		-
	A.	Strongly Agree		Disagree
		Agree	E.	Strongly Disagree
	C.	Neither agree nor disagree		
21	Ac f	ormatted, this primer is a useful physician	oduc	nation tool
31.	AS I	Strongly Agree		Disagree
	A. B.	Agree	D. E.	Strongly Disagree
		Neither agree nor disagree	E.	Strongly Disagree
	u.	wetther agree nor disagree		
32.	The	amount of information presented was appr	opri	iate for my needs.
<i>5</i> = .	A.	Strongly Agree	_	Disagree
		Agree	E.	Strongly Disagree
	C.	Neither agree nor disagree		3,
33.	I wi	ll recommend this primer to my colleagues		
	A.	Strongly Agree	D.	Disagree
	B.	Agree	E.	Strongly Disagree
	C.	Neither agree nor disagree		
34.	4. How much time did you spend working through this primer and completing this exam?			
	A.	Less than 1 hour	C.	2-3 hours
	B.	1-2 hours	D.	More than 3 hours

27. The primer increased my ability to recognize foodborne illnesses and increased the likelihood

that I will consider such illnesses in my patients.

## MMWR response form for continuing education credit

March 2004 / Volume 53 / Number

## Diagnosis and Management of Foodborne Illnesses

## **Continuing Medical Education:** Questions

Produced collaboratively by the:

American Medical Association American Nurses Association-American Nurses Foundation Centers for Disease Control and Prevention Center for Food Safety and Applied Nutrition, Food and Drug Administration Food Safety and Inspection Service, US Department of Agriculture

April 2004

To receive continuing education credit, please answer all of the following questions.

- 1. Which of the following provide important clues to the possible etiology of a food-associated illness?
  - A. Incubation period

D. Travel history

B. Duration of illness

- E. All of the above
- C. Predominant clinical signs and symptoms (eg, vomiting, diarrhea, abdominal pain)
- Which group is at higher risk for complications from foodborne illness?
  - Persons with weakened immune systems D. Older adults
  - Persons with liver disease
- E. All of the above

- C. Pregnant women
- 3. Which of the following is NOT a safe food handling behavior?
  - Using the same cutting board for raw foods and cooked foods
  - Using a food thermometer to check the internal temperature of food before eating it
  - Rinsing raw produce with water
  - D. Washing hands before and after handling food

- 4. What is the appropriate method to determine if a hamburger is cooked to a proper temperature?
  - A. Cooking it until it is brown inside
  - B. Using a food thermometer to ensure that the internal temperature reaches 160°F
  - C. It is not necessary to determine if a hamburger is cooked to a proper temperature as it is too small
  - D. Taking a bite of the hamburger to ensure that it tastes cooked
- 5. If you suspect a foodborne outbreak of any kind, you should report it to the local health department. Which of the following would be helpful to contact at the health department:

A. Medical Officer

C. Environmental health officer

B. Epidemiology officer

- D. Any of the above would be acceptable
- 6. Which of the following are NOT consistent with inflammatory diarrhea?
  - A. Presence of fecal leukocytes
  - B. Grossly bloody stool

- C. Caused by infection with invasive or cytotoxigenic bacterial and protozoan species
- D. Usually involves the small intestine
- 7. If a foodborne illness is suspected, which of the following should be considered?
  - A. Submit appropriate specimens for laboratory testing
  - B. Contact the state or local health
- C. Initiate oral rehydration therapy
- D. All of the above
- 8. While intentional contamination of food is not common, which of the following would make you suspect that such an act has occurred? <u>Note:</u> It is the unusual nature of the whole picture or context that should induce thoughts about intentional contamination.
  - A. An unusual agent or pathogen in a common food
  - B. A common agent or pathogen affecting an unusually large number of people
  - C. A common agent or pathogen that is uncommonly seen in clinical practice
  - D. All of the above

department

- 9. Multidrug-resistant Salmonella Typhimurium cases:
  - A. Have been on the rise in the US since the 1990s
  - B. May be responsible for more invasive disease than other types
  - C. Often are resistant to ampicillin and sulfamethoxazole
  - D. Cause more cases in an outbreak than do sensitive strains
  - E. All of the above
- Norovirus infection causes nausea, vomiting, and watery/large-volume diarrhea within 24-48 hours. The source of infection could be:

A. Poorly cooked shellfish

D. Iced drinks

B. Inadequately cooked hamburger

E. All but (b)

C. Ready-to-eat foods, e.g. salads

11. The most common cause of "traveler's diarrhea" that can be transmitted by food or water						
	A.	Campylobacter jejuni	C.	Salmonella		
	B.	Enterotoxigenic E. coli (ETEC)	D.	Norovirus		
12.	12. What is the most likely food- or water-related agent associated with persistent diarrhea (i.e.,					
		ting > 14 days)?				
		Giardia lamblia	B.	Shigella species		
	C.	Campylobacter jejuni	D.	Vibrio cholerae		
13.	13. Which of the following food-associated diseases and conditions are not designated as notifiable at the national level?					
	A.	Botulism	C.	Trichinosis		
	B.	Staphylococcal food poisoning	D.	Hepatitis A		
14.	14. A "routine" stool culture will likely isolate which of the following food-related pathogens?					
	A.	Listeria monocytogenes	D.	Hepatitis A virus		
	B.	E. coli 0157:H7	E.	Salmonella species		
	C.	Vibrio cholerae				
15.	Wh	ich of the following foodborne pathogens c	an b	e prevented by vaccination?		
	A.	Cyclospora cayetanensis	C.	Hepatitis A virus		
	B.	Campylobacter jejuni	D.	E. coli 0157:H7		
16.	The	e examination of the stool for cysts and/or	ova i	s the common diagnostic for which		
	foo	dborne pathogen?				
	A.	Parasitic infections	D.	Non-infectious agents		
	B.	Viral infections	E.	None of the above		
	C.	Bacterial infections				
17.		apid incubation period of 2-6 hours prior tich of the following?	o ga	strointestinal symptoms is indicative of		
		Hepatitis A virus infection	C	Giardia lamblia infection		
		Ciguatera fish poisoning		Brucella abortus infection		
18	A n	atient tells you that he has a diarrheal illne	ss fo	llowing consumption of seafood from a		
10.		eet vender in the Caribbean. Which of the				
	<ul> <li>A. Request your clinical microbiology laboratory to specifically test for <i>Vibrio</i> species in the patient's stool sample.</li> <li>B. Request your clinical microbiology laboratory to examine the patient's stool samples for cysts and ova of <i>Cyclospora</i>.</li> <li>C. Request your clinical microbiology laboratory to specifically test for <i>E. coli</i> O157:H7 in</li> </ul>					
the patient's stool sample.				to anosifically test for a nathegen as		
	D. You need not request your clinical laboratory to specifically test for a pathogen as					
	Campylobacter jejuni is part of a routine stool culture.					

		listeriosis?			
20. A patient presents with a history of abdominal cramps, bloody diarrhea and dehydration. Which culture must you request the laboratory to perform, as it is not always a routine screening test?  A. Sbigella species B. E. coli 0157:H7 C. Salmonella species D. Campylobacter jejuni  21. Which scenario(s) may present a risk to patients, especially the immunocompromised? A. Pet reptiles in the home D. Drinking non-pasteurized juices B. Eating sprouts on a sandwich C. Eating raw oysters  22. A patient presents to the Emergency Room with hoarseness, ptosis and upper extremity paralysis. He has a history of home canning and you suspect botulism. After you stabilize the patient and evaluate respiratory function, you A. Immediately induce vomiting C. Contact the local or state health department D. All of the above.  23. Which of the following foodborne illnesses has the longest incubation period? A. Staphylococcal intoxication D. Listeriosis B. Bacillus cereus gastroenteritis E. E. coli diarrhea C. Cholera  24. Which foodborne illness may present with chocolate-brown colored blood? A. Nitrite poisoning D. Mercury poisoning E. Tin poisoning C. Botulism  25. Why may the use of antibiotics in children with E. coli O157:H7 infection be contraindicate A. E. coli O157:H7 is multiply resistant to antibiotics and thus not treatable with antibioti B. Antibiotic use only serves to increase the stress on the kidneys. C. Data indicates that antibiotics may increase the risk of hemolytic uremic syndrome. D. The use of antibiotics is not contraindicated and data exists to show decreased illness severity following its use.  26. When choosing to use antimicrobial therapy for a foodborne illness, which of the following should be considered in the decision process? A. The clinical signs and symptoms of the illness B. The organism that was isolated from clinical specimens C. The results of antimicrobial susceptibility tests		A. Cheddar cheese	C.	Sauerkraut	
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19. If you are counseling a pregnant patient, what food should she avoid to decrease her risk for