FoodNet Active Manuscripts

Status	#	Lead	Coauthors	Title	Journal	Updated	Comment
9							
	642	Marcus, Ruthanne		New Information about Pediatric Foodborne Infections-the view from FoodNet	Current Opinion in Pediatrics	1/31/2008	requested permission to post 1/31/2008
	121	Samuel, Michael C.	Vugia, Duc J., Koehler, Kathleen M., Marcus, Ruthanne, Deneen, Valerie C., Damaske, Barbara, Shiferaw, Beletshachew, Hadler, James L., Henao, Olga L., Angulo, Fredrick J.	Consumption of Risky Foods Among Adults at High Risk for Severe Foodborne Diseases: Room for Improved Targeted Prevention Messages	Journal of Food Safety	10/5/2007	Requested permission to post for 2nd time 1/31/2008
8							
	22	Crump, John A.	Joyce, Kevin W., Vugia, Duc J., Megginson, Melanie, Segler, Suzanne D., Hurd, Sharon, Luedeman, Jeff, Shiferaw, Beletshachew, Hanna, Samir S., Stevenson, Jennifer E., Angulo, Fredrick J.	Clinical response and outcome of infection with Salmonella Typhi with decreased susceptibility to fluoroquinolones: a United States FoodNet multi-center retrospective cohort study	Antimicrob Agents Chemother	2/11/2008	Manuscript accepted at Antimicrob Agents Chemother
	394	Nelson, Jennifer M.	Nadle, Joelle, Daniels, Allison, Clogher, Paula, Gillespie, Jennifer, Furuno, Jon P., Plantenga, Melissa, Bernarczyk, Robert, Ingram, Amanda	FoodNet Survey of Food Use and Practices in Long-Term Care Facilities	Journal of Food Protection	9/24/2007	Accepted at Journal of Food Protection
	680	Townes, John M.		Reactive arthritis following culture-confirmed infections with bacterial enteric pathogens in Minnesota and Oregon: a population-based study	Annals of the Rheumatic Diseases	2/11/2008	Will be published as an extended report in Online First
7							
	103	Ailes, Elizabeth	Demma, Linda, Hurd, Sharon, Hatch, Julie, Jones, Timothy F., Vugia, Duc J., Cronquist, Alicia B., Tobin-D'Angelo, Melissa, Larson, Kirsten, Laine, Ellen, Edge, Karen, Zansky, Shelley M., Scallan, Elaine,	Continued Decline in the Incidence of Campylobacter Infections, FoodNet 1996-2006		2/11/2008	Manuscript submitted to Foodborne Pathogens and Disease
	600	Clarkson, Lydia S.	Tobin-D'Angelo, Melissa, Shuler, Carrie, Hanna, Samir S., Benson, James A., Voetsch, Andrew C.	Sporadic Salmonella enterica serotype Javiana Infections in Georgia and Tennessee: An Emerging Zoonotic Disease?	EID	12/18/2007	Manuscript was cleared on 12/17; Submitted to EID

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	606	Jones, Timothy F.	Ingram, Amanda, Cieslak, Paul R., Vugia, Duc J., Tobin-D'Angelo, Melissa, Hurd, Sharon, Angulo, Fredrick J., FoodNet Salmonella Working Group	Salmonellosis Outcomes Differ Substantially by Serotype	JID	1/22/2008	manuscript accepted to JID
	325	Shiferaw, Beletshachew	Cieslak, Paul R.	Comparison of Three Surveillance Systems for Hemolytic Uremic Syndrome in Oregon		9/25/2007	Submitted to Journal of Public Health
	363	Valley, Hassan	Kirk, Martyn D., Scallan, Elaine, Angulo, Fredrick J., Hall, Gillian,	Reporting Rates of Campylobacter Infections in Australia and the United States - Exploring Reasons for the Difference	Foodborne Pathogens and Disease	9/24/2007	Submitted to Epi and Infection
	459	Voetsch, Andrew C.	Poole, Charles, Hedberg, Craig W., Ryder, Robert W., Weber, David J., Angulo, Fredrick J.	The effect of alternative control selection in the FoodNet case-control study of sporadic Salmonella serotype Enteritidis using other serotypes as a comparison group		2/6/2008	Submitted to Epi and Infect; incorp reviewer's comments
6							
	124	Dunne, Eileen F.	Griffin, Patricia M., Henao, Olga L., Bender, Jeffrey B., Beletshachew, Shiferaw, Vugia, Duc J., Dembek, Zygmunt F., Wesolowski, Laura G., Carter, Michael A., Zansky, Shelley M., Boothe, Effie J., Burnite, Steve, Wells, Joy G., Bibb, William, Mead, Paul S., Henao, Olga L., EIP FoodNet Working Group, Snider, Cynthia J.	Pediatric Hemolytic Uremic Syndrome in the United States, 1997-2002: A Study of 379 Cases		2/11/2008	Updating analysis based on clearance comments
	508	Haley, Clinton C.	Hedberg, Katrina, Cieslak, Paul R., Scallan, Elaine, Ong, Kanyin Liane, Marcus, Ruthanne, Shin, Sam, Cronquist, Alicia B., Gillespie, Jennifer, Jones, Timothy F., Shiferaw, Beletshachew, Fuller, Candace, Edge, Karen, Anderson, Bridget J., Ryan, Patricia A., Mintz, Eric D.	Sporadic Shigellosis: Population-Based Risk Factors Revealed, FoodNet, 2005		9/24/2007	Incorporating comments from Division Statistician
	26	McDonald, Laura	Majowicz, Shannon E., Hall, Gillian, Scallan, Elaine, Kirk, Martyn D., Sockett, Paul, Angulo, Fredrick J.	Factors Associated With Respiratory Symptoms in Cases of Gastroenteritis	International Journal of Epidemiology	2/11/2008	Incoporating comments from Clearance
	624	Shiferaw, Beletshachew	Griffin, Kristin, Chapin, William, Finnegan, Colleen, Ho, Hon, Cieslak, Paul R.	Use if Hospital Discharge Data to assess the incidence of Guillain-Barre Syndrome	CID	9/26/2007	Manuscript will be submitted to CID
5							

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	657	Pires, Sara	Evers, Eric, van Pelt, Wilfrid, Scallan, Elaine, Angulo, Fredrick J., Havelaar, Arie, Hald, Tine	Concepts and Definitions on Human Illness Attribution: Results from a discussion between experts	EID	12/27/2007	Submitted to CDC clearance on 12/21/2007
4							
	109	Demma, Linda	Snider, Cynthia J., Shiferaw, Beletshachew, Vugia, Duc J., Hurd, Sharon, Zansky, Shelley M., Scheftel, Joni, Voetsch, Andrew C., Angulo, Fredrick J., Griffin, Patricia M., EIP FoodNet Working Group	Risk Factors for Developing Hemolytic Uremic Syndrome or Death Among Persons with Escherchia coli O157 Infection, FoodNet sites, 1997-2002		2/11/2008	With Patty for comments
	491	Guo, Chuanfa	Hartnett, Emma, Harman, Jane, Ong, Kanyin Liane, Naugle, Alecia L., Bennett, Patricia, Hoekstra, Robert M., Cieslak, Paul R., Holt, Kristen G., Schlosser, Wayne D., Rose, Bonnie E., Schroeder, Carl M., Scallan, Elaine, Angulo, Fredrick J.	Human Infections from Salmonella in Meat, Poultry, and Eggs, United States, 1998 - 2003: Estimates from a Bayesian Model		9/24/2007	
	432	Maldonado, George		Blending Project		10/30/2007	Manuscript being revised by lead author.
	607	Nelson, Jennifer M.	Jones, Timothy F., Scallan, Elaine	Antimotility and Antimicrobial Use in Persons with Shiga toxin-producing E. coli O157 Infection in FoodNet Sites		2/11/2008	Incoporating comments from co-authors
	341	Rosenblum, Ida E.	Lynch, Michael, Cronquist, Alicia B., Phan, Quyen, Vugia, Duc J., Burnett, Cindy, Morse, Dale L., Keene, William E., Edwards, Leslie, Swanson, Ellen, Jones, Timothy F., EIP FoodNet Working Group,	Factors Associated with Confirming an Etiology During Foodborne Outbreak Investigations, FoodNet Sites, 2001-2006		12/18/2007	Updating with more current data
	659	Weis, Erica	Mohle-Boetani, Janet C., Henao, Olga L., Scallan, Elaine, Cloger, Paula, Fuller, Candace, Gillespie, Jennifer, Jones, Timothy F., Marcus, Ruthanne, Shiferaw, Beletshachew, Vugia, Duc J.	Decline in Risky Food Consumption in the Foodborne Diseases Active Surveillance Network (FoodNet) Population: 1998 to 2002 Decline in Risky Food Consumption in the Foodborne Diseases Active Surveillance Network (FoodNet) Population: 1998 to 2002		1/3/2008	
3							
	661	Henao, Olga L.	Hoekstra, Robert M., Tong, Xin, Scallan, Elaine	Monitoring Trends in the Incidence of Foodborne Diseases, Foodborne Diseases Active Surveillance Network (FoodNet) 1996-2007		1/3/2008	

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	331	Long, Cherie	Hayes, Tameka, Vugia, Duc J., Ryan, Patricia A., Scheftel, Joni, Shiferaw, Beletshachew, Jones, Timothy F., Demma, Linda, EIP FoodNet Working Group	Yersenia pseudotuberculosis infections in FoodNet, 1996-2005		6/29/2007	
2							
	663	Barton-Behravesh, Casey	Henao, Olga L., Long, Cherie, Vugia, Duc J., Marcus, Ruthanne, Thomas, Stephanie M., Swanson, Stephen J., Anderson, Kevin L., Jones, Timothy F., Scallan, Elaine	Deaths due to Bacterial Pathogens Commonly Transmitted Through Food in the Foodborne Diseases Active Surveillance Network (FoodNet), 1996-2005		1/3/2008	
	381	Demma, Linda	Vugia, Duc J., Hurd, Sharon, Segler, Suzanne D., Kielbauch, Julie, Leano, Fe, Dumas, Nellie B., Hatch, Julie, Hanna, Samir S., Angulo, Fredrick J.,	Campylobacter species in FoodNet and NARMS 1997-2004: is the incidence of Campylobacter coli infection increasing?	CID	11/28/2007	Incorp. Clearance comments; waiting for NARMS data
	462	Gould, Hannah	Demma, Linda, Hoekstra, Robert M., Angulo, Fredrick J., Cloger, Paula	Higher Incidence of Escherichia coli O157:H7 Infection in Rural Counties and Possible Association with Animal Contact		11/1/2007	
	565	Henao, Olga L.	Moyer, Laura B., Hoefer, Dina, Holman, Robert, Jones, Timothy F., Marcus, Ruthanne, Medus, Carlota, Ryan, Patricia A., Tobin-D'Angelo, Melissa	Hospitalizations Due to Infections of Selected Foodborne Pathogens; NIS, NHDS, and FoodNet, 1998-2004		7/31/2007	
	344	Henao, Olga L.	Ryan, Patricia A., Scallan, Elaine, Choudhuri, Julie, Norton, Dawn M., Edge, Karen, Ryan, Patricia A., Tobin-D'Angelo, Melissa, Nelson, Jennifer M., Hanna, Samir S., Jones, Timothy F., Angulo, Fredrick J., EIP FoodNet Working Group	Proportion of Visits to Health Care Providers Resulting in Request of Stool Samples: Data from the National Ambulatory Medical Care Survey (NAMCS) and the Foodborne Diseases Active Surveillance Network (FoodNet) Population Survey		6/29/2007	
	386	Hurd, Sharon	Demma, Linda, Tong, Xin, Cronquist, Alicia B., Segler, Suzanne D., Kielbauch, Julie, Swanson Laine, Ellen, Smith, Glenda, Hatch, Julie, Hanna, Samir S., Fitzgerald, Collette, EIP FoodNet Working Group, Shin, Sam	Clinical Laboratory Practices for the Identification of Campylobacter in FoodNet Sites: Do Differences Explain Variation in Incidence Rates?		6/29/2007	
	662	Ong, Kanyin Liane	Scallan, Elaine, Apostol, Mirasol, Hayes, Tameka, Mickelson, Stephanie, Scheftel, Joni, Shiferaw, Beletshachew, Boothe, Effie	Hemolytic Uremic Syndrome Surveillance: Use of Hospital Discharge Data to Supplement Case Finding		1/3/2008	

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	101	Scallan, Elaine	Vugia, Duc J., Cronquist, Alicia B., Marcus, Ruthanne, Thomas, Stephanie M., Blythe, David, Fuller, Candace, Zansky, Shelley M., Cieslak, Paul R., Jones, Timothy F.	Burden of Bacterial Foodborne Illness in the United States		9/25/2007	
	660	Teates, Kathryn	Henao, Olga L.	High Incidence of Laboratory-Confirmed Listeria Infections in Persons ≥65 Years of Age, Foodborne Diseases Active Surveillance Network (FoodNet), United States, 1996-2006		1/3/2008	
1							
	605	McMillian, Marcy	Jones, Timothy F., Lynch, Michael, Iwamoto, Martha	Incidence and Trends in Foodborne Pathogens in FoodNet and non-FoodNet sites		12/18/2007	
	604	Shiferaw, Beletshachew		Are there gender differences in food consumption?		9/7/2007	
0							
	575	Boore, Amy		The changing epidemiology of the most frequently reported Salmonella serotypes in the United States, 1996-2006		1/14/2008	
	586	Viray, Melissa		Evaluation of a Surveillance System for Hemolytic Uremic Syndrome by the Foodborne Diseases Active Surveillance Network (FoodNet)		1/14/2008	EIS domestic project proposal to be supervised by Henao

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Preliminary FoodNet Data on the Incidence of Infection with Pathogens Transmitted Commonly Through Food --- 10 States, 2007

Relative Rates and Percent Change compared with 1996-1998 period for bacterial and parasitic infections, by pathogen, Foodborne Diseases Active Surveillance Network, United States, 2007

	Relative Rate	Percent Change	95% CI
Campylobacter	0.67	33% decrease	38% to 28% decrease
Listeria	0.58	42% decrease	54% to 28% decrease
Salmonella	0.89	11% decrease	17% to 5% decrease
Shigella	0.62	38% decrease	57% to 12% decrease
STEC O157	0.73	27% decrease	40% to 12% decrease
Vibrio	1.25	25% increase	10% decrease to 73% increase
Yersinia	0.50	50% decrease	60% to 38% decrease
Cryptosporidium	1.22	22% increase	20% decrease to 87% increase
Cyclospora	0.25	75% decrease	91% to 30% decrease

Figure 1a. Relative rates compared with 1996—1998 baseline period of laboratory-diagnosed cases of infection with *Campylobacter*, STEC O157, *Listeria*, *Salmonella*, and *Vibrio*, by year

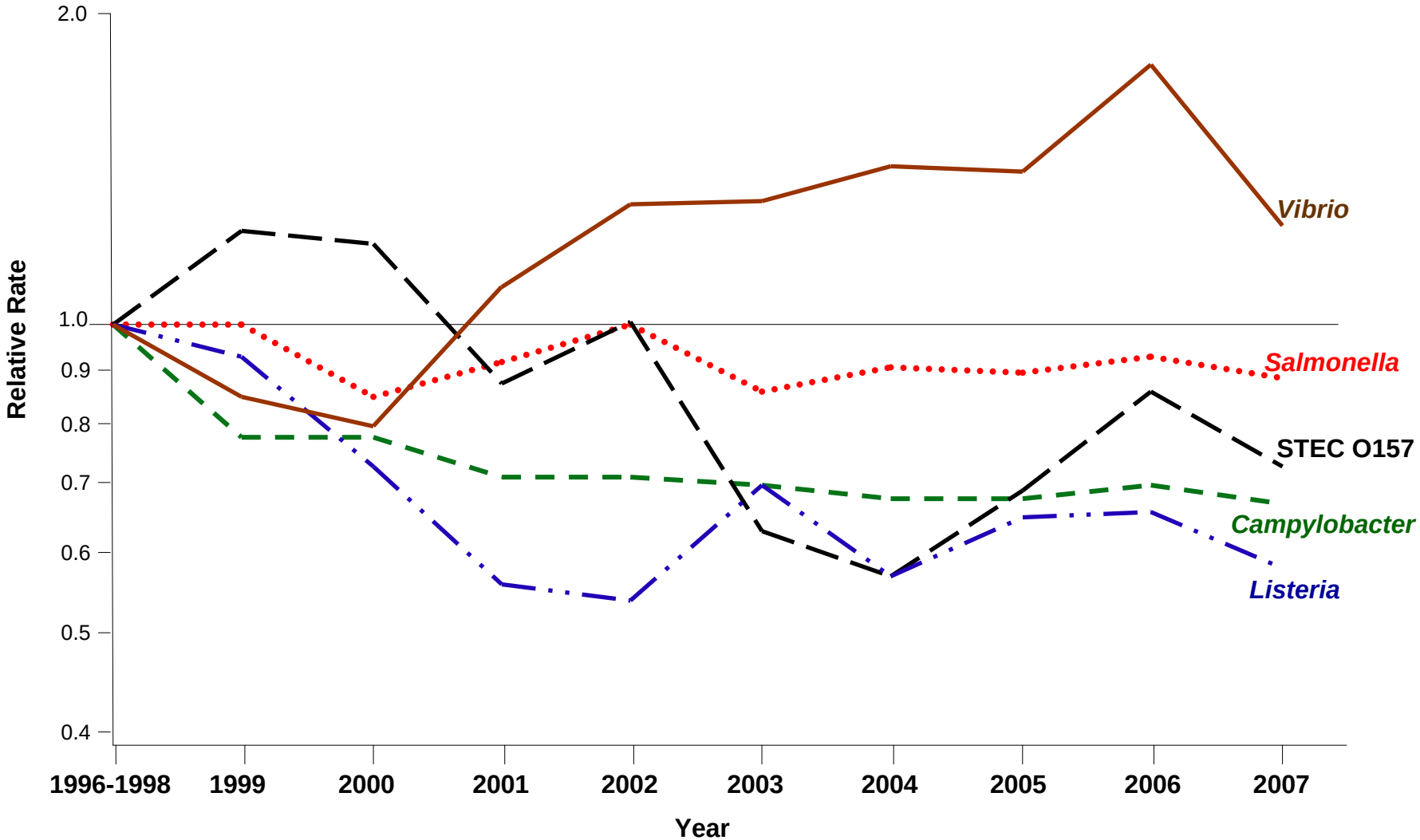


Figure 1b. Relative rates compared with 1996—1998 baseline period of laboratory-diagnosed cases of infection with *Shigella* and *Yersinia*, by year

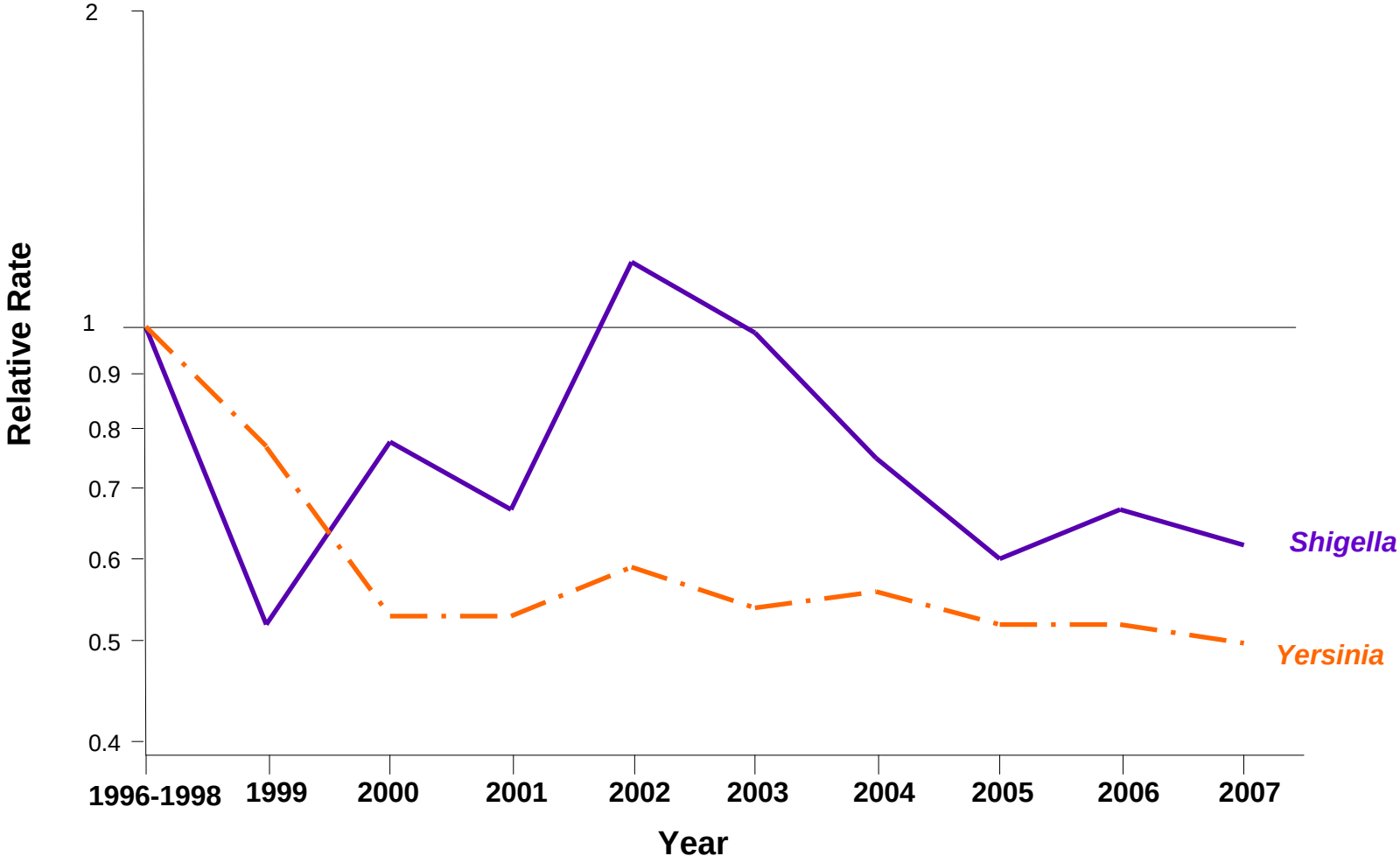
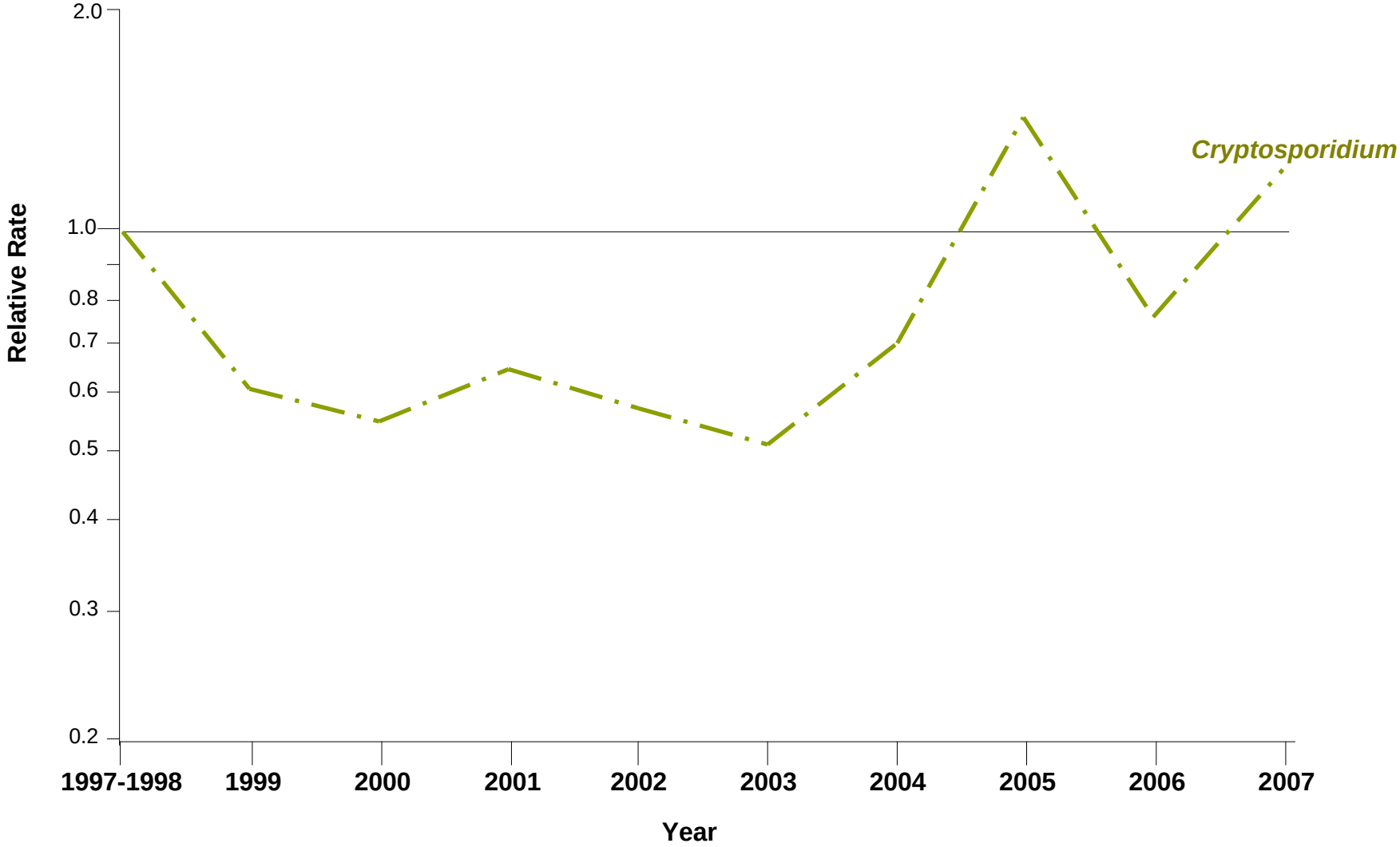


Figure 1c. Relative rates compared with 1997—1998 baseline period of laboratory-diagnosed cases of infection with *Cryptosporidium*, by year



Healthy People 2010 Objectives

Pathogen	Rate (cases/100,000 population)	
	2007	2010 Objective
STEC O157	1.2	1.0
Campylobacter	12.5	12.3
Listeria	0.27	0.24
Salmonella	14.4	6.8

Incidence of bacterial and parasitic infections in 2007, by site and pathogen, Foodborne Diseases Active Surveillance Network, United States

	State										All sites 2007	HP 2010 Obj.
	CA	CO	CT	GA	MD	MN	NM	NY	OR	TN		
Bacterial												
Campylobacter	28.24	15.74	13.98	7.20	5.24	17.50	17.29	11.93	18.83	7.34	12.48	12.30
Listeria	0.25	0.34	0.34	0.33	0.27	0.14	0.20	0.26	0.24	0.26	0.27	0.24
Salmonella	14.07	11.95	12.27	21.25	12.57	13.76	14.33	12.09	8.65	13.94	14.43	6.80
Shigella	5.52	3.00	1.26	17.09	1.44	4.61	5.53	0.89	1.78	5.70	6.10	NA
STEC O157	1.18	1.21	1.28	0.48	0.30	3.17	0.46	1.35	1.97	0.88	1.17	1.00
Vibrio	0.37	0.15	0.46	0.25	0.37	0.15	0.00	0.21	0.22	0.05	0.23	NA
Yersinia	0.50	0.15	0.49	0.46	0.09	0.43	0.20	0.37	0.51	0.22	0.35	NA
Parasitic												
Cryptosporidium	1.24	3.87	1.20	2.32	0.30	5.79	5.78	2.07	3.49	2.17	2.59	NA
Cyclospora	0.03	0.00	0.09	0.03	0.02	0.00	0.10	0.05	0.00	0.02	0.03	NA

Incidence of bacterial and parasitic infections in 2007, by age group and pathogen, Foodborne Diseases Active Surveillance Network, United States

	Age group			National Health Objective*
	0-5	5-49	50+	
Bacterial				
Campylobacter	23.39	11.29	12.51	12.30
Listeria	0.56	0.07	0.63	0.24
Salmonella	59.77	10.91	11.69	6.80
Shigella	26.82	6.04	1.57	NA
STEC O157	3.66	1.11	0.75	1.00
STEC non-O157	1.19	0.44	0.24	NA
Vibrio	0.07	0.21	0.31	NA
Yersinia	1.85	0.17	0.39	NA
Parasitic				
Cryptosporidium	6.56	2.76	1.34	NA
Cyclospora	0.00	0.03	0.04	NA

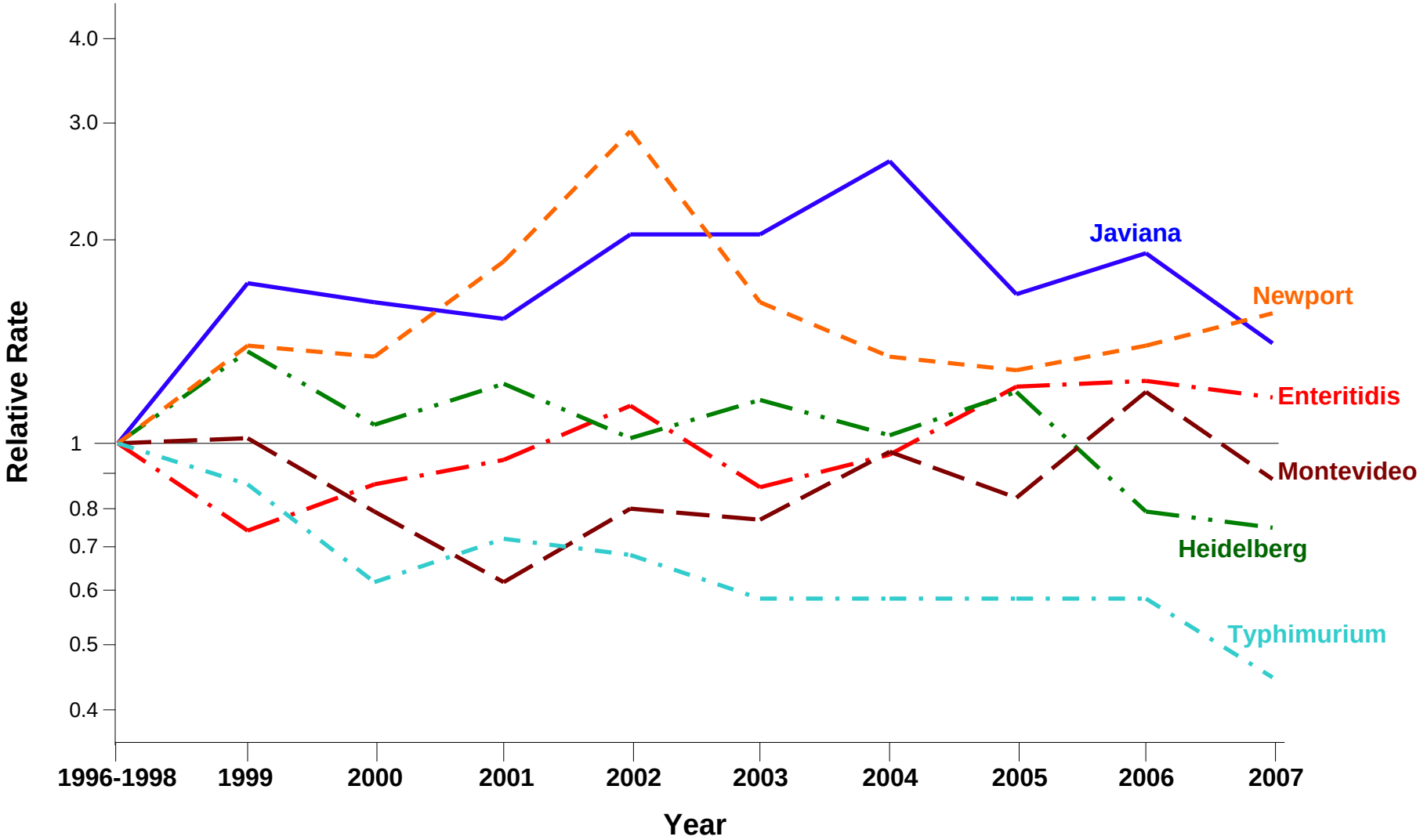
**Healthy People 2010* objectives for incidence of *Campylobacter, Salmonella,* Shiga toxin-producing *Escherichia coli* O157 for year 2010 and for incidence of *Listeria* infections for year 2005.

Salmonella serotypes

Number and incidence of top 10 Salmonella serotypes in 2007, Foodborne Diseases Active Surveillance Network, United States

Rank	Serotype	Number	Incidence per 100,000
1	Enteritidis	997	2.19
2	Typhimurium	942	2.07
3	Newport	582	1.28
4*	I 4,[5],12:i:-	301	0.66
4*	Javiana	301	0.66
6	Heidelberg	228	0.50
7	Montevideo	201	0.44
8	Muenchen	180	0.40
9	Tennessee	135	0.30
10	Saintpaul	97	0.21

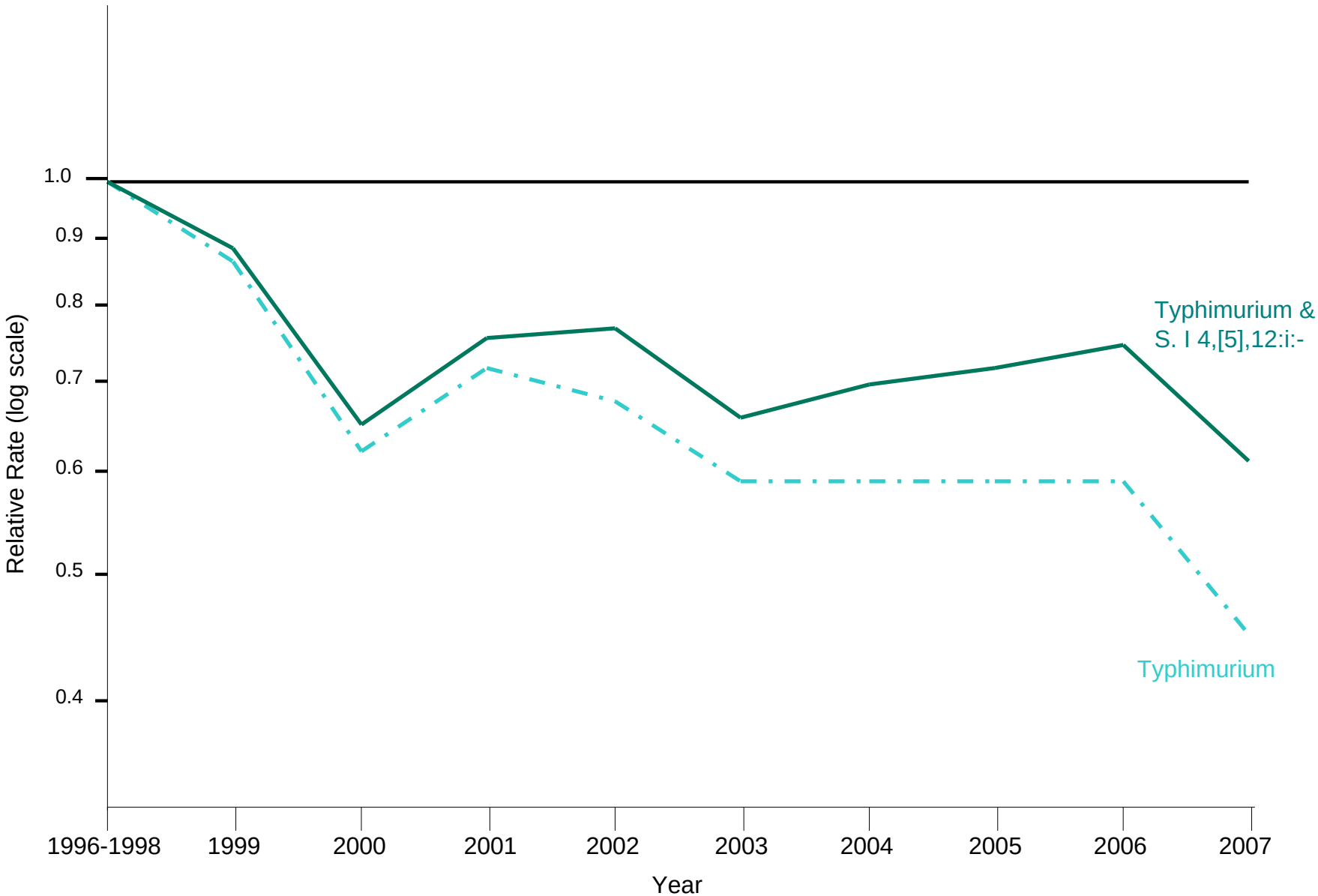
Figure 2. Relative rates compared with 1996—1998 baseline period of laboratory-diagnosed cases of infection with the top *Salmonella* serotypes, by year



Relative Incidence baseline - 2007: Top 6 *Salmonella* Serotypes

	Change	95% Conf. Interval
Declined		
S. Typhimurium	55%↓	49%↓ to 60%↓
S. Heidelberg	25%↓	5%↓ to 40%↓
No Change/Decline		
S. Enteriditis	17%↑	5%↓ to 44%↑
S. Javiana	47%↑	6%↓ to 131%↑
S. Montevideo	11%↓	38%↓ to 287%↑
Increased		
S. Newport	57%↑	20%↑ to 105%↑

Figure 3. Comparison of relative rates of S. Typhimurium and *S. Typhimurium & S. I 4,[5],12:i:-* , by year



Summary of FoodNet Trends

- Significant decline in *Campylobacter*, *Listeria*, *Salmonella*, *Shigella*, STEC O157 and *Yersinia* infections
  - However, most progress occurred before 2005
- No change in *Vibrio*
  - Additional efforts are understand trends in *Vibrio* infections
- More efforts needed to achieve the Healthy People 2010 national objectives

FoodNet Steering Committee Proposal

Title: Risky food behaviors of pregnant women

Proposed by: Dina Hoefer, Shelley Zansky, Dale Morse

Submitted:

Purpose: The 5th cycle of the FoodNet Population Survey (2006-07) contained a section on pregnancy related behaviors and knowledge regarding foodborne illnesses. A preliminary analysis has shown some potentially interesting findings (see attached), but small numbers have prohibited any comparison of knowledge and behaviors. However, previous cycles of the FoodNet Population Survey have included questions regarding risky food behaviors as well as asking women about their pregnancy status. Compiling 3 cycles of data should provide a large enough sample size to adequately compare the food consumption behaviors of pregnant women to non-pregnant women. This type of analysis, while limited by a lack of knowledge based questions, should provide useful insight into areas where education campaigns can focus their efforts on improving the health of pregnant women, focusing on infection with *Listeria monocytogenes*.

Timeline: Analysis to begin immediately upon receipt of data. Data cleaning and combining of the different survey cycles will take approximately 2 to 3 months. Preliminary results comparing the food consumption behaviors of pregnant women to non-pregnant women should be available approximately 2 months after the completion of data cleaning.

Preliminary Review of Pregnancy Related Data from the 5th Cycle of the FoodNet Population Survey (2006 – 07)

Across all ten sites, 107 pregnant women between the ages of 12 and 50 years were queried on pregnancy related behaviors and knowledge regarding foodborne illnesses (Tables 1-19). The majority of pregnant women understood that foodborne illness is a serious issue and can affect their health and the health of their unborn child (Tables 1, 2, 3). Only 20% of the pregnant women surveyed had heard or received information about listeriosis (Table 11). This is comparable to previously published national data.[1] Behaviors such as eating high risk food during pregnancy were found to vary among pregnant women. Only a small percentage ate soft cheeses (6.8%), unpasteurized dairy products (11.7%) or raw/undercooked meats (1.2%) (Tables 5, 8, 10). However, 45% ate hot dogs and 41% ate deli meats at some point during their pregnancy (Tables 6, 7). Whether or not these foods were heated until steaming hot as recommended is unknown. Comparing knowledge and behavior, looking for any statistical association was prohibited by the small sample size. However, among the 7 pregnant women who ate soft cheeses during their pregnancy, none had heard of or received information on *Listeria monocytogenes* (data not shown).

Community variables were also compared among respondents. Twenty-one percent of the pregnant women surveyed lived in Tennessee, followed by 15.6% in Minnesota and 15.1% in Georgia (Table 14). The majority lived in a city or urban area (38.2%), were white (67.8%), and had a total household income of $55,000 or more (49.6%) (Tables 15, 17, 18). Only seven percent did not have health insurance and only 2.4% did not have at least a high school education

(Tables 16, 19). Again, small numbers prohibited any analysis of associations between these variables and risky food behaviors.

1. Ogunmodede F, Jones JL, Scheftel J, Kirkland E, Schulkin J, Lynfield R. Listeriosis prevention knowledge among pregnant women in the USA. Infect Dis Obstet Gynecol 2005; 13:11-15.

2006-07 FoodNet Pop Survey Pregnancy Related Variables (All Ten FN Sites, Pregnant women, n=107)

Table1. Foodborne illness is a serious issue

	Percent
Yes	86.8
No	11.6
DK	1.6

Table 2. Foodborne illness can affect me

	Percent
Yes	91.0
No	9.0

Table 3. Foodborne illness can affect an unborn baby

	Percent
Yes	89.8
No	7.1
DK	3.1

Table 4. Did your diet change during your pregnancy?

	Percent
Yes	73.7
No	26.3

While you were pregnant did you eat any of the following foods . . .

Table 5. Ate soft cheese

	Percent
Yes	6.8
No	93.2

Table 6. Ate hot dogs

	Percent
Yes	45.0
No	55.0

Table 7. Ate deli meats

	Percent
Yes	41.0
No	59.0

Table 8. Ate unpasturized milk or cheeses

	Percent
Yes	11.7
No	88.3

Table 9. Ate shark, swordfish, king mackerel or tilefish

	Percent
Yes	0.4
No	99.6

Table 10. Ate raw or undercooked meat

	Percent
Yes	1.2
No	98.8

Table 11. Received information about Listeria

	Percent
Yes	20.4
No	78.4
DK/Not sure	1.2

Table 12. Received information about Methylmercury

	Percent
Yes	35.6
No	63.9
DK/Not sure	0.5

Table 13. Received information about Toxoplasma

	Percent
Yes	36.1
No	63.5
DK/Not sure	0.4

Community variables

Table 14. Percent of pregnant females contributed by state

State	Percent
California	9.1
Colorado	3.8
Connecticut	4.3
Georgia	15.1
Maryland	11.7
Minnesota	15..6
New Mexico	2.4
New York	6.9
Oregon	10.0
Tennessee	21.0

Table 15. What type of area best describes where you live?

	Percent
City or urban area	38.2
Suburban area	34.8
Town or village	15.6
Rural, not on a farm	8.7
On a farm	1.0
DK/NS	1.7

Table 16. Do you have any medical insurance?

	Percent
Yes	93.0
No	7.0

Table 17. Total household income

	Percent
< 15,000	10.4
15-25,000	11.7
25-40,000	15.2
40-55,000	7.1
55-75,000	18.1
75-100,000	11.6
>100,000	19.9
DK/NS	3.1
Refused	2.8

Table 18. Race

	Percent
White	67.8
Black	25.1
AI/AN	1.4
Chinese	0.3
Other Asian	1.4
Some other race	4.1

Table 19. What is the highest level of school completed or highest degree?

	Percent
1st-8th	1.8
9th-12th	0.6
High school grad	24.6
Some college	30.7
Associate degree	8.3
Bachelors degree	26.7
Masters degree	6.7
Doctorate	0.2
Technical degree	0.4

non-Typhi *Salmonella* Clinical Outcomes Cohort Study Status updated 01/30/08

2006

State	Sampling Scheme	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	1/10	1/1/2006	473	52	31 (60%)	0 (0%)	5 (10%)	16 (31%)
CO	1/4	1/1/2006	352	87	64 (74%)	0 (0%)	17 (20%)	6 (7%)
CT	1/4	1/1/2006	502	109	98 (90%)	0 (0%)	9 (8%)	2 (2%)
GA	1/20	3/15/2006	1545	76	44 (58%)	0 (0%)	2 (3%)	30 (39%)
MD	1/10	5/1/2006	618	68	50 (74%)	0 (0%)	5 (7%)	13 (19%)
MN	1/5	1/1/2006	720	136	112 (82%)	0 (0%)	12 (9%)	12 (9%)
NM	1/5	1/1/2006	258	45	27 (60%)	0 (0%)	5 (11%)	13 (29%)
NY	1/5	1/1/2006	492	96	57 (59%)	0 (0%)	14 (15%)	25 (26%)
OR	1/20	1/1/2006	397	25	20 (80%)	0 (0%)	3 (12%)	2 (8%)
TN	1/10	1/1/2006	785	76	65 (86%)	0 (0%)	4 (5%)	7 (9%)
		Total	6142	770	568 (74%)	0 (0%)	76 (10%)	126 (16%)

2007

State	Sampling Scheme	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	1/10	1/1/2006	447	56	29 (52%)	3 (5%)	9 (16%)	15 (27%)
CO	1/10	1/1/2006	309	26	20 (77%)	0 (0%)	3 (12%)	3 (12%)
CT	1/20	1/1/2006	422	24	20 (83%)	0 (0%)	2 (8%)	2 (8%)
GA	1/20	3/15/2006	1974	130	78 (60%)	16 (12%)	8 (6%)	28 (22%)
MD	1/10	5/1/2006	692	85	55 (65%)	3 (4%)	3 (4%)	24 (28%)
MN	1/20	1/1/2006	702	36	29 (81%)	0 (0%)	2 (6%)	5 (14%)
NM	1/5	1/1/2006	280	48	26 (54%)	0 (0%)	4 (8%)	18 (38%)
NY	1/5	1/1/2006	518	102	54 (53%)	0 (0%)	18 (18%)	30 (29%)
OR	1/10	1/1/2006	317	56	43 (77%)	0 (0%)	7 (13%)	6 (11%)
TN	1/10	1/1/2006	841	68	49 (72%)	4 (6%)	0 (0%)	15 (22%)
		Total	6502	631	403 (64%)	26 (4%)	56 (9%)	146 (23%)

Interviewed Total 2006-2007 = 971

E. *coli* O157 Cohort Study Status

State	Study Start Date	FoodNet Cases	Eligible	Interviewed (% of eligible)	Pending (% of eligible)	Refused (% of eligible)	Other Not Enrolled (% of eligible)
CA	3/1/2006	79	78	55 (71%)	1 (1%)	8 (10%)	14 (18%)
CO	2/1/2006	65	68	42 (62%)	4 (6%)	13 (19%)	9 (13%)
CT	6/1/2006	81	81	60 (74%)	0 (0%)	17 (21%)	4 (5%)
GA	1/22/2007	44	45	20 (44%)	0 (0%)	10 (22%)	15 (33%)
MD	5/1/2006	54	56	27 (48%)	0 (0%)	9 (16%)	20 (36%)
MN	3/1/2006	302	299	215 (72%)	1 (0%)	28 (9%)	55 (18%)
NM	6/1/2006	27	26	13 (50%)	1 (4%)	3 (12%)	9 (35%)
NY	3/1/2006	107	108	57 (53%)	0 (0%)	30 (28%)	21 (19%)
OR	3/1/2006	150	145	111 (77%)	5 (3%)	7 (5%)	22 (15%)
TN	1/1/2006	141	148	99 (67%)	2 (1%)	8 (5%)	39 (26%)
	Total	1050	1054	699 (66%)	14 (1%)	133 (13%)	208 (20%)

Updated 2/5/08

Enrollment Status for Selected *Salmonella* Serotypes Study, as of January 30, 2008

	# Eligible				Interviewed			Total Interviewed	Pending	Refused	Other Not Enrolled
	S. Javiana	*S.* Infantis	*S.* I 4,[5],12:i:-	Total	*S.* Javiana	*S.* Infantis	*S.* I 4,[5],12:i:-	# (% of Eligible)			
CA	3	8	19	26	3	4	6	12 (46)	1 (8)	4 (12)	12 (35)
CO	6	4	8	18	2	2	3	7 (39)	0 (0)	2 (11)	9 (50)
CT	2	7	16	25	2	6	14	22 (88)	0 (0)	1 (4)	2 (40)
GA	201	12	56	269	155	5	27	187 (70)	3 (1)	13 (5)	66 (25)
MD	28	4	36	68	15	1	18	34 (50)	1 (1)	5 (7)	28 (41)
MN	9	13	29	51	8	9	24	41 (80)	0 (0)	1 (2)	9 (18)
NM	29	4	13	46	14	3	5	22 (48)	0 (0)	9 (20)	15 (33)
NY	1	7	20	28	0	2	10	12 (43)	0 (0)	3 (11)	13 (46)
OR	1	5	24	30	1	3	11	15 (50)	2 (7)	3 (10)	10 (33)
TN	21	2	61	84	15	1	47	63 (75)	1 (1)	6 (7)	14 (17)
Total Cases	301	66	282	649	215	36	165	416 (64)	8 (1)	47 (7)	178 (27)
Controls	-	-	-	-	-	-	-	1286	-	-	-

Enrollment Status for Validation Sub-Studies for Selected *Salmonella* Serotypes Study, as of January 30, 2008

	Selection Bias Sub-Study		Misclassification Bias Sub-Study	
	Eligible	Completed Questionnaires Received (% of eligible)	Eligible	Completed Questionnaires Received (% of eligible)
CA	14	2 (14)	0	N/A
CO	8	2 (25)	0	N/A
CT	1	0 (0)	0	N/A
GA	60	11 (18)	0	N/A
MD	8	2 (25)	0	N/A
MN	5	2 (40)	0	N/A
NM	25	7 (28)	0	N/A
NY	0	N/A	1	0 (0)
OR	10	4 (40)	0	N/A
TN	20	4 (20)	2	0 (0)
Total (Cases)	151	34 (23)	3	0 (0)
Controls	-	120	-	12

Genomics Study Enrollment

Genomics Study Enrollment

	Site										
	CA	**CO**	**CT**	**GA**	**MD**	**MN**	**NM**	**NY**	**OR**	**TN**	**Total**
Date your site began the study	**4/1/2007**	**Still in IRB**	**7/15/2007**	**3/1/2007**	**4/19/2007**	**11/1/2007**	**4/27/2007**	**Still in IRB**	**Still in IRB**	**12/13/2006**	
Number enrolled (as of Jan. 8)	6		16	0	18	60	7			30	**137**
Number not enrolled	39		24	7	13	13	2			7	**105**
Number pending but agreed*	8		23	4	0	24	2			18	**79**
Number pending**	2		0	12	8	119	2			45	**188**
Of non-enrolled cases, number:											
Refused	9		16	0	8	5	0			7	**45**
Unable to contact	3		7	0	3	8	2			11	**34**
Not enrolled for other reasons	27		1	7	2	0	0			0	**37**

*this category should include those who have agreed but have not yet submitted their sample and/or consent form

**this category is for persons who have not yet been contacted, but are eligible and you plan to contact and offer enrollment

Table 1. Summary of Foodborne Outbreaks with ≥ 2 ill, by FoodNet Site, 2007
(Data accessed February 4th , 2008 (eFORS 2) PRELIMINARY DATA)

State	Outbreaks reported	2006 population	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Etiology (confirmed and suspected)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
CA	19	3,225,786	5.89	16	12 (63)	Bacillus Cerus/ Clostridium perfringens(2) STEC(1), *Salmonella(1)* *Campylobacter*(1), Norovirus(7)	15 (79)	10(53)
CO	24	2,636,544	9.10	17	18 (75)	Norovirus(12), *Salmonella*(3), STEC O157 (1) STEC O121/STECO26/STECO84(1) Clostridium *botulinum* (1)	11 (46)	13 (54)
CT	17	3,504,809	4.85	13	13 (77)	Norovirus (7) STEC O157 (2), *Salmonella*(3), Ciguatoxin(1)	15 (88)	8 (47)
GA	24	9,363,941	2.56	22	22 (92)	Norovirus(6), *Campylobacter*(1) Clostridium perfringens(4) *Salmonella*(9) STEC O157 (2)	12 (50)	7 (29)
MD	21	5,615,727	3.74	19	17 (80)	Norovirus(11) Other Chemical(1) Clostridium perfringens(2) *Salmonella*(3)	12 (57)	14 (67)
MN	44	5,167,101	8.52	11	37 (84)	Hep A(3), Norovirus(18), Clostridium perfringens(4), *Salmonella*(6), STEC O157 (4) Scromboid toxin(1) *Cryptosporidium*(1),	23 (52)	26 (59)
NM	1	1,954,599	0.51	48	1 (100)	*Campylobacter*(1)	1 (100)	-(-)
NY	12	4,291,545	2.80	13	9 (75)	Norovirus(4), STEC O157 (1) Scromboid toxin(1), *Salmonella*(2) Bacillus Cerus(1)	11 (92)	5 (42)
OR	30	3,700,758	8.11	17	24 (80)	Clostridium perfringens (2), Norovirus (14) STEC O157 (3), *Salmonella*(5)	10 (33)	19 (63)
TN	20	6,038,803	3.31	8	20 (100)	Norovirus (10) *Salmonella*(3), Bacillus Cerus(2) Staph aureus(3) STEC O157 (2)	9 (45)	16 (80)
Total	**212**	**45,499,613**	**4.66**	**18**	**173 (81)**		**119 (56)**	**105 (56)**

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

Table 2. Summary of Foodborne Outbreaks with ≥10 ill, by FoodNet Site, 2007

*** Data accessed February 4th , 2008 (eFORS 2)**
*** Preliminary data**

State	Outbreaks reported	2006 population	Rate/1,000,000 population	Median Number Ill	Known Etiology* No. (%)	Known Vehicle** No. (%)	Restaurant-associated*** No. (%)
CA	6	3,225,786	1.86	41	5 (83)	5 (83)	4 (67)
CO	11	2,636,544	4.17	31	10 (91)	6 (55)	3 (27)
CT	7	3,504,809	2.00	23	5 (71)	6 (85)	3 (43)
GA	10	9,363,941	1.07	46	9 (90)	6 (60)	2 (20)
MD	11	5,615,727	1.96	32	11 (100)	7 (63)	7 (64)
MN	18	5,167,101	3.48	19	15 (83)	9 (50)	10 (56)
NM	1	1,954,599	0.51	48	1 (100)	1 (100)	-(-)
NY	7	4,291,545	1.63	19	5 (71)	6 (85)	2 (28)
OR	13	3,700,758	3.51	32	13 (100)	4 (30)	10 (77)
TN	7	6,038,803	1.16	14	6 (85)	1 (14)	6 (86)
2007 Total	**91**	**45,499,613**	**2.00**	**31**	**82 (90)**	**51 (56)**	**47 (52)**

*Known etiology- Confirmed and suspected etiologies
**Known vehicle- Any vehicle reported
***Restaurant-associated- Any outbreak where food item was prepared in a restaurant or deli

HUS Surveillance, 2006 Table A

as of 2/1/08

Site	In catchment (N=107)												In catchment (N=107)											
	<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo		<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo	
	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
CA	0	--	5	0 (0)	2	0 (0)	0	--	2	1 (50)	0	--	0	0.0	5	3.0	2	1.0	0	0.0	2	0.1	0	0.0
CO	0	--	7	0 (0)	1	0 (0)	0	--	0	--	0	--	0	0.0	7	4.4	1	0.6	0	0.0	0	0.0	0	0.0
CT	0	--	3	0 (0)	1	0 (0)	1	0 (0)	0	--	0	--	0	0.0	3	1.8	1	0.5	1	0.4	0	0.0	0	0.0
GA	1	0 (0)	6	0 (0)	1	0(0)	0	--	2	0 (0)	0	--	1	0.7	6	1.1	1	0.2	0	0.0	2	0.0	0	0.0
MD	0	--	3	0 (0)	0	--	0	--	0	--	1	1 (100)	0	0.0	3	1.0	0	0.0	0	0.0	0	0.0	1	0.1
MN	0	--	9	0(0)	3	0 (0)	1	0 (0)	3	0 (0)	3	1 (33)	0	0.0	9	3.3	3	0.9	1	0.3	3	0.1	3	0.4
NM	0	--	4	0 (0)	0	--	1	0 (0)	0	--	0	--	0	0.0	4	3.5	0	0.0	1	0.7	0	0.0	0	0.0
NY	0	--	1	0 (0)	1	0 (0)	1	0 (0)	2	1 (50)	3	1 (33)	0	0.0	1	0.5	1	0.4	1	0.4	2	0.1	3	0.4
OR	0	--	6	0 (0)	1	0 (0)	2	0 (0)	3	0 (0)	0	--	0	0.0	6	3.2	1	0.4	2	0.8	3	0.1	0	0.0
TN	1	0(0)	19	0(0)	3	0(0)	3	0 (0)	1	0 (0)	0	--	1	1.2	19	6.0	3	0.8	3	0.7	1	0.0	0	0.0
Total	**2**	0 (0)	**63**	0 (0)	**13**	**0 (0)**	**9**	**0 (0)**	**13**	**2 (15)**	**7**	**3 (43)**	**2**	0.33	**63**	2.60	**13**	0.44	**9**	0.29	**13**	0.04	**7**	0.1

*per 100,000 persons

For cases with Diarrhea in 3 wks before HUS dx																								
	CA		CO		CT		GA		MD		MN		NM		NY		OR		TN		**TOTAL**	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	**#**	**%**
Cases with O157 + Only/ Cases O157 positive	0/5	(0)	2/2	(100)	2/3	(67)	1/6	(17)	1/2	(50)	2/15	(13)	0/3	(0)	3/4	(75)	7/8	(88)	8/16	(50)	**26/64**	**(41)**
Cases with non-O157 + Only/ Cases non-O157 +	0/0	--	0/1	(0)	0/0	--	0/0	--	0/0	--	0/1	(0)	0/0	--	0/0	--	0/0	--	0/0	--	**0/2**	**(0)**
Cases positive for shiga-toxin only/ Cases shiga-toxin positive	0/5	(0)	0/1	(0)	0/1	(0)	0/5	(0)	0/1	(0)	1/14	(7)	0/3	(0)	0/1	--	0/1	(0)	2/10	(20)	**3/42**	**(7)**
Cases not positive for O157, Stx or non-O157*/ Total Stool Specimens	2/7	(29)	3/6	(50)	2/5	(40)	4/10	(40)	1/3	(33)	2/18	(11)	1/4	(25)	2/6	(33)	4/12	(33)	7/25	(28)	**28/96**	**(29)**
Cases positive for Stx and O157 or Stx and non-O157/ Total Stool Specimens	5/7	(71)	1/6	(17)	1/5	(20)	5/10	(50)	1/3	(33)	13/18	(72)	3/4	(75)	1/6	(17)	1/12	(8)	8/25	(32)	**39/96**	**(41)**

*not positive or not tested

Results of microbiologic testing for STEC infection among HUS cases, 2006

as of 2/1/08

	Site										
	CA	CO	CT	GA	MD	MN	NM	NY	OR	TN	**TOTAL**
	# %	# %	# %	# %	# %	# %	# %	# %	# %	# %	**# %**
Diarrhea in 3 weeks before HUS diag./ Total patients	7/9 (78)	6/8 (75)	5/5 (100)	10/10 (100)	4/4 (100)	18/19 (95)	4/5 (80)	7/8 (88)	12/12 (100)	27/27 (100)	**100/107** (93)
Stool specimen obtained/ Patients with diarrhea	7/7 (100)	6/6 (100)	5/5 (100)	10/10 (100)	3/4 (75)	18/18 (100)	4/4 (100)	6/7 (86)	12/12 (100)	25/27 (93)	**96/100** (96)
E. coli O157 Isolation											
Stool cultured for E. coli O157/ Patients with stool specimens obtained	7/7 (100)	5/6 (83)	3/5 (60)	10/10 (100)	3/3 (100)	18/18 (100)	4/4 (100)	6/6 (100)	12/12 (100)	24/25 (96)	**92/96** (96)
E. coli O157 isolated from stool/ Patients with stool cultured for O157	5/7 (71)	2/5 (40)	3/3 (100)	6/10 (60)	2/3 (67)	15/18 (83)	3/4 (75)	4/6 (67)	8/12 (67)	16/24 (67)	**64/92** (70)
Shiga toxin + Questions											
Stool tested for Shiga toxin/ Patients with stool specimen obtained	5/7 (71)	2/6 (33)	3/5 (60)	10/10 (100)	1/3 (33)	18/18 (100)	4/4 (100)	1/6 (17)	3/12 (25)	10/25 (40)	**57/96** (59)
Stool Shiga toxin-positive/ Patients with stool tested for Shiga toxin	5/5 (100)	1/2 (50)	1/3 (33)	5/10 (50)	1/1 (100)	14/18 (78)	3/4 (75)	1/1 (100)	1/3 (33)	10/10 (100)	**42/57** (74)
Non-O157 Isolation											
Stool tested for non-O157 STEC/ Patients with stool tested for Shiga toxin	0/5 (0)	1/2 (50)	1/3 (33)	7/10 (70)	1/1 (100)	3/18 (17)	1/4 (25)	1/1 (100)	0/3 (0)	0/10 (0)	**15/57** (26)
Non-O157* STEC isolated from stool/ Stool tested for non-O157 STEC	0/0 --	1/1 (100)	0/1 (0)	0/7 (0)	0/1 (0)	1/3 (33)	0/1 (0)	0/0 --	0/0 --	0/0 --	**2/14** (14)
Serum											
Serum Tested/ Serum Collected	2/2 (100)	1/1 (100)	3/3 (100)	3/4 (75)	0/0 --	5/5 (100)	0/1 (0)	0/1 (0)	6/7 (86)	11/11 (100)	**31/35** (89)
O157/Tested	2/2 (100)	1/1 (100)	2/3 (67)	1/3 (33)	0/0 --	2/5 (40)	0/0 --	0/0 --	6/6 (100)	9/11 (82)	**23/31** (74)
Total Stool											
O157, non-O157 STEC, Shiga toxin +/ Total stool specimens obtained	5/7 (71)	3/6 (50)	3/5 (60)	6/10 (60)	2/3 (67)	16/18 (89)	3/4 (75)	4/6 (67)	8/12 (67)	18/25 (72)	**68/96** (71)

Non-O157 identified:

*Culture:O121 (1), O145 (1)

HUS Surveillance, 2007 Table A

as of 2/1/08

Site	In catchment (N=90)												In catchment (N=90)											
	<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo		<1 yo		1-4 yo		5-9 yo		10-14 yo		15-59 yo		60+ yo	
	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Deaths (%)	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
CA	2	0 (0)	3	0 (0)	0	--	0	--	0	--	0	--	2	3	3	1.7	0	0.0	0	0.0	0	0.0	0	0.0
CO	0	--	2	0 (0)	1	0 (0)	0	--	1	0 (0)	0	--	0	2	2	1.3	1	0.6	0	0.0	1	0.1	0	0.0
CT	0	--	1	0 (0)	5	0 (0)	2	0 (0)	0	--	2	0 (0)	0	1	1	0.6	5	2.2	2	0.8	0	0.0	2	0.3
GA	0	--	9	0 (0)	2	0 (0)	2	0 (0)	1	0 (0)	0	--	0	9	8	1.6	2	0.3	2	0.3	1	0.0	0	0.0
MD	0	--	0	--	0	--	0	--	0	--	0	--	0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MN	0	--	9	0 (0)	3	0 (0)	1	0 (0)	3	0 (0)	2	0 (0)	0	9	9	3.4	3	0.9	1	0.3	3	0.1	2	0.2
NM	0	--	0	--	0	--	0	--	0	--	0	--	0	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NY	2	0 (0)	2	0 (0)	0	--	1	0 (0)	1	0 (0)	2	0 (0)	2	2	2	1.1	0	0.0	1	0.3	1	0.0	2	0.2
OR	0	--	7	0 (0)	2	0 (0)	0	--	1	0 (0)	0	--	0	7	5	3.9	2	0.9	0	0.0	1	0.0	0	0.0
TN	0	--	16	1 (6)	3	0 (0)	2	0 (0)	0	--	0	--	0	16	16	5.2	3	0.8	2	0.5	0	0.0	0	0.0
Total	**4**	**0 (0)**	**49**	**1 (2)**	**16**	**0 (0)**	**8**	**0 (0)**	**7**	**0 (0)**	**6**	**0 (0)**	**4**	**49**	**46**	2.03	**16**	0.55	**8**	0.26	**7**	0.02	**6**	0.08

*per 100,000 persons

For cases with Diarrhea in 3 wks before HUS dx	CA		CO		CT		GA		MD		MN		NM		NY		OR		TN		**TOTAL**	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	**#**	**%**
Cases with O157 + Only/ Cases O157 positive	0/3	(0)	0/0	--	2/2	(100)	0/6	(0)	0/0	--	0/10	(0)	0/0	--	3/5	(60)	2/2	(100)	3/11	(27)	**10/41**	**(24)**
Cases with non-O157 + Only/ Cases non-O157 +	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/0	--	0/1	(0)	0/0	--	**0/1**	(0)
Cases positive for shiga-toxin only/ Cases shiga-toxin positive	0/3	(0)	0/0	--	2/4	(50)	0/6	(0)	0/0	--	0/10	(0)	0/0	--	1/2	(50)	0/1	(0)	0/8	(0)	**3/34**	**(9)**
Cases not positive for O157, Stx or non-O157*/ Total Stool Specimens	2/5	(40)	0/0	--	3/9	(33)	5/11	(45)	0/0	--	8/18	(44)	0/0	--	2/7	(29)	0/3	(0)	6/17	(35)	**26/70**	**(37)**
Cases positive for Stx and O157 or Stx and non-O157/ Total Stool Specimens	3/5	(60)	0/0	--	2/9	(22)	6/11	(55)	0/0	--	10/18	(56)	0/0	--	1/7	(14)	1/3	(33)	8/17	(47)	**31/70**	**(44)**

*not positive or not tested

Results of microbiologic testing for STEC infection among HUS cases, 2007

as of 2/1/08

	Site																							
	CA		CO		CT		GA		MD		MN		NM		NY		OR		TN		**TOTAL**	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	**#**	**%**
Diarrhea in 3 weeks before HUS diag./	5	(100)	3	(75)	9	(90)	12	(86)	0	--	18	(100)	0	--	7	(88)	8	(80)	21	(100)	**83**	(92)
Total patients	5		4		10		14		0		18		0		8		10		21		**90**	
Stool specimen obtained/	5	(100)	0	(0)	9	(100)	11	(92)	0	--	18	(100)	0	--	7	(100)	3	(38)	17	(81)	**70**	(84)
Patients with diarrhea	5		3		9		12		0		18		0		7		8		21		**83**	
E. coli O157 Isolation																						
Stool cultured for E. coli O157/	5	(100)	0	--	8	(89)	10	(91)	0	--	18	(100)	0	--	7	(100)	3	(100)	16	(94)	**67**	(96)
Patients with stool specimens obtained	5		0		9		11		0		18		0		7		3		17		**70**	
E. coli O157 isolated from stool/	3	(60)	0	--	4	(50)	6	(60)	0	--	10	(56)	0	--	5	(71)	2	(67)	11	(69)	**41**	(61)
Patients with stool cultured for O157	5		0		8		10		0		18		0		7		3		16		**67**	
Shiga toxin + Questions																						
Stool tested for Shiga toxin/	4	(80)	0	--	5	(56)	7	(64)	0	--	18	(100)	0	--	4	(57)	1	(33)	11	(65)	**50**	(71)
Patients with stool specimen obtained	5		0		9		11		0		18		0		7		3		17		**70**	
Stool Shiga toxin-positive/	3	(75)	0	--	4	(80)	6	(86)	0	--	10	(56)	0	--	2	(50)	1	(100)	8	(73)	**34**	(68)
Patients with stool tested for Shiga toxin	4		0		5		7		0		18		0		4		1		11		**50**	
Non-O157 Isolation																						
Stool tested for non-O157 STEC/	0	(0)	0	--	5	(0)	6	(86)	0	--	4	(22)	0	--	2	(50)	1	(100)	0	(0)	**18**	(36)
Patients with stool tested for Shiga toxin	4		0		5		7		0		18		0		4		1		11		**50**	
Non-O157* STEC isolated from stool/	0	--	0	--	0	(0)	0	(0)	0	--	0	(0)	0	--	0	(0)	1	(100)	0	--	**1**	(6)
Stool tested for non-O157 STEC	0		0		5		6		0		4		0		2		1		0		**18**	
Serum																						
Serum Tested/	2	(100)	0	--	3	(100)	1	(33)	0	--	6	(100)	0	--	0	--	1	(50)	6	(100)	**19**	(86)
Serum Collected	2		0		3		3		0		6		0		0		2		6		**22**	
O157/Tested	0	(0)	0	--	3	(100)	0	(0)	0	--	2	(33)	0	--	0	--	0	(0)	4	(67)	**9**	(47)
	2		0		3		1		0		6		0		0		1		6		**19**	
Total Stool																						
O157, non-O157 STEC, Shiga toxin +/	3	(60)	0	--	6	(67)	6	(55)	0	--	9	(50)	0	--	5	(71)	3	(100)	11	(65)	**43**	(61)
Total stool specimens obtained	5		0		9		11		0		18		0		7		3		17		**70**	

Non-O157 identified:

*Culture: O111 (1)