

**CDC's Emerging Infections Program
 CDC/USDA/FDA Foodborne Diseases Active Surveillance Network
 Steering Committee Conference Call**

Date: Thursday, December 9, 2004
 Time: 2:00-3:00 EST
 Numbers: Number: 877-601-3547 PassCode: 14349

A. Administrative

1. Status of manuscripts
 - a. Active/Published manuscripts
 - b. Publication guidelines
2. Vision Meeting

B. Surveillance

1. Performance Standards
2. 2003 Annual Report
3. HUS/Outbreak data
4. Linking

C. Update on case-control and other studies

1. *Listeria*
2. *Salmonella* Newport
3. *Salmonella* Enteritidis
 - a. Phage type results
4. Infant *Salmonella/Campylobacter*
5. *E. coli* O157/HUS

D. Update on Working Groups and Projects

1. HUS/STEC

E. Proposals

1. Variations in rates of hospitalization among *Salmonella* serotypes (Tim Jones)
2. Estimating duration of illness from population surveys of acute gastroenteritis (Elaine Scallan)

F. Miscellaneous

1. NARMS *Campylobacter* sampling scheme changes
2. EHS-Net Strategic Meeting

G. Upcoming FoodNet conference calls, meetings, and deadlines

1. Thursday	Dec. 9 th	12:00-1:00 pm EST	HUS/STEC Working Group call
2. Monday	Dec. 13 th	1:00-2:00 pm EST	<i>Shigella</i> Working Group call
3. Monday	Dec. 13 th	2:00-3:00 pm EST	Infant <i>Salmonella/Campylobacter</i> case-control study
4. Thursday	Dec. 16 th	1:00-2:00 pm EST	Antimicrobial Resistant Working Group call
5. Thursday	Dec. 16 th	3:00-4:00 pm EST	Outbreak Working Group call
6. Tuesday	Dec. 21st	2:00-3:00 pm EST	Interventions Working Group call
7. Thursday	Dec. 30 th	3:00-4:00 pm EST	Infant Illness Working Group call
8. Wednesday	Jan. 5 th	1:00-2:00 pm EST	<i>Campylobacter</i> —Lab Survey Subcommittee
9. Wednesday	Jan. 5 th	1:00-2:00 pm EST	<i>Campylobacter</i> —Grocery Store Subcommittee
10. Wednesday	Jan. 5 th	3:30-4:30 pm EST	Validations of Multipliers Working Group call
11. Monday	Jan. 10 th	1:00-2:00 pm EST	<i>Shigella</i> Working Group call
12. Tuesday	Jan. 11 th	2:00-4:00 pm EST	January Update meeting
13. Wednesday	Jan. 12 th	4:00-5:00 pm EST	Burden Working Group call
14. Thursday	Jan. 13 th	2:00-3:00 pm EST	January Steering Committee call
15. Thursday	Jan. 27 th	11:00-12:00 pm EST	Attribution Working Group call

H. Data Submission Deadlines

1. Surveillance data transmission Friday, December 17th
2. HUS data transmission Wednesday, January 5th

Active FoodNet Manuscripts

Status	ID	Lead	Co-authors	Manuscript Title	Date Last Corr.	Comments
6						
	89	Dunne, Eileen (CDC)	JC Lay, B Shiferaw, JB Bender, ZF Dembek, Davis, LG Wesolowski, S Zansky, M Carter, EJ Boothe, S Burnite, F Hardnett, J Wells, B Bibb, PM Griffin, P Mead	Results of active surveillance for pediatric Hemolytic Uremic Syndrome (HUS) in the United States, 1997-1999	9/3/2004	Rejected at JAMA
	91	Schroder, Carl (USDA)	AL Naugle, WD Schlosser, AT Hogue, FJ Angulo, E Ebel, JS Rose, WT Disney, K Holt, DP Goldman.	Estimated illnesses from Salmonella Enteritidis in shell eggs, United States, 2000	10/29/2004	Accepted at EID; publication date in Jan. 2005
	93	Scallan, Elaine (CDC)	SE Majowicz, G Hall, A Banerjee, CL Bowman, L Daly, T Jones, MD Kirk, M Fitzgerald, FJ Angulo	Prevalence of diarrhea in the community in Australia, Canada, Ireland and the United States	8/4/2004	Accepted at International Journal of Epidemiology
	95	Green, Laura (CDC)	C Selman, FJ Angulo, V Radke, S Buchanan and the EHS-Net Working Group	Food service workers' self-reported food preparation practices: an EHS-Net study	6/8/2004	Has been requested for special issue; publication date unknown.
	149	Varma, Jay (CDC)	K Molbak, S Rossiter, M Hawkins, T Jones, S Mauvais, T Rabatsky-Ehr, S Stenzel, D Vugia, M Park, K Joyce, K Stamey, H Chang, F Angulo, and the EIP FoodNet Working Group	Antimicrobial resistance in Salmonella is associated with increased hospitalization; NARMS 1996-2000	9/1/2004	Accepted at JID
5						
	87	Samuel, Michael (CA)	DJ Vugia, KM Koehler, R Marcus, AA McNees, V Deneen, B Damaske, B Shiferaw, J Hadler, FJ Angulo	Consumption of risky foods among adults at high risk for severe foodborne diseases: room for improved targeted prevention messages	9/1/2004	Returned from CDC clearance; author incorporating comments. Has been cleared by FDA.
	88	Koehler, Kathleen (FDA)	T Lasky, SB Fein, SM DeLong, MA Hawkins, T Rabatsky-Ehr, SM Ray, B Shiferaw, E Swanson, and DJ Vugia for the EIP FoodNet Working Group	Population-based incidence of infection with selected enteric bacterial pathogens for children < 5 years of age, FoodNet, 1996-1998	7/2/2004	Returned from CDC clearance; author incorporating comments.
	150	Green, Laura (CDC)	C Selman, T Jones, E Scallan, R Marcus, and the EHS-Net Population Survey Working Group	Beliefs about sources of gastrointestinal illness	8/4/2004	Kicked out of Clearance
4						
	85	Kennedy, Malinda (CDC)	T Rabatsky-Her, S Lance-Parker, S Thomas, K Smith, J Mohle-Boetani, B Keene, P Mead.	Changes in bovine risk factors for E. coli O157: a case-control study in FoodNet sites: 1999-2000	9/3/2004	Revising based on Paul's comments.

*Status: 0=Proposal, 1=Analysis, 2=Writing, 3=Draft being reviewed by co-authors, 4=Incorporating comments, 5=NCID/CDC clearance, 6=At journal/In press, 7=Published

Active FoodNet Manuscripts

Status	ID	Lead	Co-authors	Manuscript Title	Date Last Corr.	Comments
	90	Watt, James P (CDC)	M Bales, AL Dannenberg, B Imhoff, SR Mullins, SF Dowell	Impact of a health-related internet hoax on a public health agency and the public: implications for health communication	2/27/2004	
	157	Devasia, Rose (TN)	JK Varma, JM Whichard, S Gettner, AB Cronquist, S Hurd, SD Segler, KE Smith, D Hoefler, B Shiferaw, FJ Angulo, TF Jones, and the EIP FoodNet Working Group	Health consequences of infection with multidrug resistant and pan-susceptible Salmonella Newport reported to FoodNet--United States, 2002-2003	9/3/2004	Need to revise numbers; submit to co-authors
<hr/>						
3	86	Patrick (Evans), M (DeKalb Co. Health Dept)	PM Griffin, PS Mead	The effectiveness of recall notification: community response to a nationwide recall of hot dogs and deli meats	6/8/2004	Waiting on comments from Paul; should be submitted to clearance within the month of June
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2	3	Varma, Jay (CDC)	R Marcus, SA Stenzel, SA Hanna, S Gettner, BJ Anderson, T Hayes, B Shiferaw, TL Crume, K Joyce, FJ Angulo for the EIP FoodNet Working Group	Risk factors for infection with multi-drug resistant Salmonella serotype Newport – United States, 2002-2003	6/8/2004	into clearance within next month
	8	Jones, Tim F (TN)	E Scallan, M McMillian, P Frenzen, N Ishill, A Cronquist, S Thomas, F Angulo	Diarrhoeal illness in FoodNet: cycles 1-4 of the population survey		
	80	Varma, Jay (CDC)	MC Samuel, R Marcus, M Hoekstra, C Medus, S Segler, BJ Anderson, TF Jones, B Shiferaw, N Haubert, M Megginson, PV McCarthy, W De Witt, T Van Gilder, and the EIP FoodNet Working Group	Listeria monocytogenes infection from food in the regulatory era: a case-control study of risk factors for sporadic illness in the United States	9/3/2004	Into Clearance within 2-3 weeks.
	82	Malone, Shauna (CT)	R Marcus, J Hadler, S Zansky, D Hoefler,	Knowledge, attitude, and practice of the use of irradiation among respondents to the FoodNet Population Survey in Connecticut and New York		
	84	Vugia, Duc (CA)	FoodNet Education Working Group	Foodborne diseases in the United States: lessons learned from FoodNet, 1996-2002	6/8/2004	Needs to be revised.
	158	Cheung, Michele (CA)	S Ray, B Shiferaw, N Vik, T Rabatsky-Ehr, E Boothe, M Kennedy, T Lasky, D Vugia	Foodborne pathogens causing illness in the first 7 days of life: FoodNet, 1996-2001	8/4/2004	Data is being reviewed again and a manuscript is being drafted

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1						
	1	Marcus, Ruthanne (CT)	MR Moore, JK Varma, C Medus, T Crume, R Marcus, SM Zansky, E Boothe, D Boxrud, RV Tauxe, and the EIP FoodNet Working Group	Risk factors for sporadic infection caused by Salmonella Enteritidis in the United States, 2002-2003	7/2/2004	
	7	Majowicz, Shannon (Health Canada)	E Scallan, G Hall, A Banerjee, MD Kirk, F Angulo	Respiratory symptoms among persons with gastrointestinal illness		
	81	Voetsch, Drew (CDC)	TBD	Analysis of trends in listeriosis in the FoodNet sites, 1996-2003	7/14/2004	Proposal was originally submitted/approved by Matt Moore; this is a resubmission.
	152	Frenzen, Paul (USDA-ERS)	A Drake, others TBD	The economic cost of E. coli O157:H7 infections	7/14/2004	Proposed submission to J. Food Protection
	153	Drake, Alison (CDC)	TBD	E. coli O157 and HUS infections, 1997-2002	9/3/2004	
	160	Frenzen, Paul (USDA-ERS)	TBD	Consumer interest in irradiated foods	8/9/2004	
	161	Bowen, Anna (CDC)	C Braden, C McDonald	Invasive E. sakazakii infections among infants	8/9/2004	
	163	Scallan, Elaine (CDC)	The FoodNet Burden Working Group	Bacterial foodborne illness in the United States		
0						
	2	Kretsinger, Katrina (CDC)	J Crump, K Joyce, D Vugia, M Megginson, S Segler, S Hurd, J Luedeman, B Shiferaw, S Hanna, J Stevenson, F Angulo	Clinical consequences of typhoid fever due to Salmonella Typhi with decreased susceptibility to ciprofloxacin		

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	4	Beach, Michael (CDC)	TBD	H20 manuscript		
	5	Jones, Tim F (TN)	TBD	Infant Salmonella case-control study		
	6	Snider, Cindi (CDC)	TBD	Descriptive characterization of adult HUS in FoodNet sites, 1997-2002	2/9/2004	
	9	Scallan, Elaine (CDC)	T Jones, M McMillian, P Frenzen, N Ishill, A Cronquist, S Thomas, F Angulo	Respiratory symptoms among persons with diarrhea in FoodNet sites		
	71	Nelson, Jennifer (CDC)	TBD	Multiple pathogens isolated over a short period, FoodNet 1996-2002		
	162	Scallan, Elaine (CDC)	P Frenzen, others TBD	The economic cost of diarrheal illness in the United States		
	165	Dunn, John R (CDC)	TBD	Substantial decline in the incidence of Escherichia coli O157:H7 infections in FoodNet, 2003		
	166	Ailes, Elizabeth (CDC)	J Nelson, other TBD	Foodborne Diseases Active Surveillance Network Surveillance Summary, 1996-2003		
	167	Cronquist, Alicia (CO)	E Scallan, others TBD	Health care utilization among persons who have recently experienced gastrointestinal illness		
	168	Fullerton, Katie (CDC)	TBD	Infant Campylobacter case-control study		

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Active FoodNet Manuscripts

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	171	Hedbergs, Craig (UMN)	TBD	Look at EFORS data from FoodNet sites to determine the value of the contributing factors		
	172	Hoekstra, Mike (CDC)	TBD	Protective exposures in matched case-control studies of foodborne illness		

Published FoodNet Manuscript

Lead	Co-authors	Title	Citation/Web Link
2004			
Allos, Ban Mishu (TN)	MR Moore, PM Griffin, RV Tauxe	Surveillance for Sporadic Foodborne Disease in the 21st Century: The FoodNet Perspective	Clinical Infectious Diseases, 2004;38:S115-S120 http://www.cdc.gov/foodnet/pub/CID/allosb.pdf
Bender, Jeffrey B (CDC)	KE Smith, AA. McNeese, TR Rabatsky-Ehr, SD Segler, MA Hawkins, NL Spina, WE Keene, MH Kennedy, TJ Van Gilder, CW Hedberg, for the Emerging Infections Program (EIP) FoodNet Working Group	Factors Affecting Surveillance Data on Escherichia coli O157 Infections Collected from FoodNet Sites, 1996-1999	Clinical Infectious Diseases, 2004;38:S157-S164 http://www.cdc.gov/foodnet/pub/CID/benderj.pdf
Centers for Disease Control and Prevention	FoodNet Working Group	Preliminary FoodNet Data on the Incidence of Pathogens Transmitted Commonly Through Food - Selected Sites, United States, 2003	MMWR April 30, 2004/53(16);338-343 http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5316a2.htm
Chatterjee, Nando K (NY)	DW Moore, SS Monroe, RI Glass, MJ Cambridge, SF Kondracki, and DL Morse	Molecular Epidemiology of Outbreaks of Viral Gastroenteritis in New York State, 1998-1999	Clinical Infectious Diseases, 2004;38:S303-S310 http://www.cdc.gov/foodnet/pub/CID/chatterjeen.pdf
Friedman, Cindy R (CDC)	RM Hoekstra, M Samuel, R Marcus, J Bender, B Shiferaw, S Reddy, SD Ahuja, DL Helfrick, FP Hardnett, M Carter, B Anderson, RV Tauxe, for the Emerging Infections Program (EIP) FoodNet Working Group	Risk Factors for Sporadic Campylobacter Infections in the United States: A Case-Control Study in FoodNet Sites	Clinical Infectious Diseases, 2004;38:S285-S296 http://www.cdc.gov/foodnet/pub/CID/friedmanc.pdf
Glynn, M. Kathleen (CDC)	V Reddy, L Hutwagner, T Rabatsky-Ehr, B Shiferaw, DJ Vugia, SD Segler, J Bender, TJ Barrett, FJ Angulo, for the Emerging Infections Program (EIP) FoodNet Working Group	Prior Antimicrobial Agent Use Increases the Risk of Sporadic Infections with Multidrug-Resistant Salmonella enterica Serotype Typhimurium: a FoodNet Case-Control Study, 1998-1999	Clinical Infectious Diseases, 2004;38:S227-S236 http://www.journals.uchicago.edu/CID/journal/issues/v38nS3/32118/32118 .
Gupta, Amita (CDC)	JM Nelson, TJ Barrett, RV Tauxe, SP Rossiter, CR Friedman, KW Joyce, KE Smith, TJ Jones, MA Hawkins, B Shiferaw, JL Beebe, DJ Vugia, T Rabatsky-Ehr, JA Benson, TP Root, FJ Angulo for the NARMS Working Group	Antimicrobial Resistance Among Campylobacter Strains, United States, 1997-2001	Emerging Infectious Diseases, Vol. 10, No. 6, January 2004 http://www.cdc.gov/ncidod/eid/vol10no6/03-0635.htm
Haber, Penina (CDC)	F DeStefano, FJ Angulo, J Iskander, S Shadomy, E Weintraub, RT Chen, and the VAERS Team	Guillain-Barre Syndrome (GBS) after influenza vaccine: Vaccine Adverse Event Reporting System (VAERS) 1990-2003	JAMA, 2004;292(20):2478-2481
Hardnett, Felicia P (CDC)	RM Hoekstra, M Kennedy, L Charles, FJ Angulo, for the Emerging Infections Program (EIP) FoodNet Working Group	Epidemiologic Issues in Study Design and Data Analysis Related to FoodNet Activities	Clinical Infectious Diseases, 2004;38:S121-S126 http://www.cdc.gov/foodnet/pub/CID/hardnettf.pdf

Published FoodNet Manuscript

Lead	Co-authors	Title	Citation/Web Link
Hennessy, Thomas W (CDC)	R Marcus, V Deneen, V Reddy, DJ Vugia, J Townes, M Bardsley, D Swerdlow, FJ Angulo, for the Emerging Infections Program (EIP) FoodNet Working Group	Survey of Physician Diagnostic Practices for Patients with Acute Diarrhea: Clinical and Public Health Implications	Clinical Infectious Diseases, 2004;38:S203-S211 http://www.cdc.gov/foodnet/pub/CID/hennessyt.pdf
Hennessy, Thomas W (CDC)	LH Cheng, H Kassenborg, SD Ahuja, J Mohle-Boetani, R Marcus, B Shiferaw, FJ Angulo, for the Emerging Infections Program (EIP) FoodNet Working Group	Egg Consumption is the Principal Risk Factor for Sporadic Salmonella Serotype Heidelberg Infections: A Case-Control Study in FoodNet Sites	Clinical Infectious Diseases, 2004;38:S237-S243 http://www.cdc.gov/foodnet/pub/CID/hennessyt2.pdf
Imhoff, Beth (CDC)	D Morse, B Shiferaw, MHawkins, D Vugia, S Lance-Parker, J Hadler, C Medus, M Kennedy, MR Moore, T Van Gilder, for the Emerging Infection Program (EIP) FoodNet Working Group	Burden of Self-Reported Acute Diarrheal Illness in FoodNet Areas, 1998-1999	Clinical Infectious Diseases, 2004;38:S219-S226 http://www.cdc.gov/foodnet/pub/CID/imhoffb.pdf
Jones, Jeffrey L (CDC)	A Lopez, SP Wahlquist, J Nadle, M Wilson, for the Emerging Infections Program (EIP) FoodNet Working Group	Survey of Clinical Laboratory Practices for Parasitic Diseases	Clinical Infectious Diseases, 2004;38:S198-S202 http://www.cdc.gov/foodnet/pub/CID/jonesj.pdf
Jones, Tim F (TN)	B Imhoff, M Samuel, P Mshar, KG McCombs, M Hawkins, V Deneen, M Cambridge, SJ Olsen, for the Emerging Infections Program (EIP) FoodNet Working Group	Limitations to Successful Investigation and Reporting of Foodborne Outbreaks: An Analysis of Foodborne Disease Outbreaks in FoodNet Catchment Areas, 1998-1999	Clinical Infectious Diseases, 2004;38:S297-S302 http://www.cdc.gov/foodnet/pub/CID/jonest.pdf
Jones, Tim F (TN)	SN Bulens, S Gettner, RL Garman, DJ Vugia, D Blythe, MA Hawkins, SS Monroe, FJ Angulo, UD Parashar	Use of Stool Collection Kits Delivered to Patients Can Improve Confirmation of Etiology in Foodborne Disease Outbreaks	Clinical Infectious Diseases, 2004;39:1454-1459 http://www.cdc.gov/foodnet/pub/publications/2004/33991web.pdf
Kassenborg, Heidi D (MN)	CW Hedberg, M Hoekstra, MC Evans, AE Chin, R Marcus, DJ Vugia, K Smith, SD Ahuja, L Slutsker, PM Griffin, for the Emerging Infections Program (EIP) FoodNet Working Group	Farm Visits and Undercooked Hamburgers as Major Risk Factors for Sporadic Escherichia coli O157:H7 Infection: Data from a Case-Control Study in 5 FoodNet Sites	Clinical Infectious Diseases, 2004;38:S271-S278 http://www.cdc.gov/foodnet/pub/CID/kassenbogh2.pdf
Kassenborg, Heidi D (MN)	KE Smith, DJ Vugia, T Rabatsky-Ehr, MR. Bates, MA Carter, NB Dumas, MPCassidy, N Marano, RV Tauxe, FJ Angulo, for the Emerging Infections Program (EIP) FoodNet Working Group	Fluoroquinolone-Resistant Campylobacter Infections: Eating Poultry Outside of the Home and Foreign Travel are Risk Factors	Clinical Infectious Diseases, 2004;38:S279-S284 http://www.cdc.gov/foodnet/pub/CID/kassenborgh.pdf
Kennedy, Malinda (CDC)	R Villar, DJ Vugia, T Rabatsky-Ehr, MM Farley, M Pass, K Smith, P Smith, PR Cieslak, B Imhoff, PM Griffin, for the Emerging Infections Program (EIP) FoodNet Working Group	Hospitalizations and Deaths due to Salmonella infections, FoodNet, 1996-1999	Clinical Infectious Diseases, 2004;38:S142-S148 http://www.cdc.gov/foodnet/pub/CID/kennedym.pdf
Kimura, Akiko C (CA)	V Reddy, R Marcus, PR Cieslak, JC Mohle-Boetani, HD Kassenborg, SD Segler, FP Hardnett, T Barrett, DL Swerdlow, for the Emerging Infections Program (EIP) FoodNet Working Group	Chicken Consumption is a Newly Identified Risk Factor for Sporadic Salmonella enterica serotype Enteritidis Infections in the United States: A Case-Control Study in FoodNet Sites	Clinical Infectious Diseases, 2004;38:S244-S252 http://www.cdc.gov/foodnet/pub/CID/kimuraa.pdf

Published FoodNet Manuscript

Lead	Co-authors	Title	Citation/Web Link
Lee, Robin (CDC)	ME Beatty, AK Bogard, M Esko, FJ Angulo, C Selman, and EHS-Net Working Group	Prevalence of High-Risk Egg-Preparation Practices in Restaurants That Prepare Breakfast Egg Entrees: An EHS-Net Study	Journal of Food Protection, 2004;67(7):1444-50 http://apt.allenpress.com/aptonline/?request=get-abstract&issn=0362-028X&
Marcus, Ruthanne (CT)	T Rabatsky-Ehr, JC Mohle-Boetani, M Farley, C Medus, B Shiferaw, M Carter, S Zansky, M Kennedy, T Van Gilder, JL Hadler for the Emerging Infections Program (EIP) FoodNet Working Group	Dramatic Decrease in the Incidence of Salmonella Serotype Enteritidis Infections in 5 FoodNet Sites: 1996-1999	Clinical Infectious Diseases, 2004;38:S135-S141 http://www.cdc.gov/foodnet/pub/CID/marcusr.pdf
Mermin, Jonathan (CDC)	L Hutwagner, D Vugia, S Shallow, P Daily, J Bender, J Koehler, R Marcus, and F Angulo, for the Emerging Infections Program (EIP) FoodNet Working Group	Reptiles, Amphibians, and Human Salmonella Infection: A Population-Based, Case-Control Study	Clinical Infectious Diseases, 2004;38:S253-S261 http://www.cdc.gov/foodnet/pub/CID/merminj.pdf
Nelson, Jennifer (CDC)	KE Smith, DJ Vugia, T Rabatsky-Ehr, S Segler, H Kassenborg, S Zansky, K Joyce, N Marano, M Hoekstra, FJ Angulo	Prolonged Diarrhea Due to Ciprofloxacin-resistant Campylobacter infection	Journal of Infectious Diseases, 2004;190:1150-7. http://www.cdc.gov/foodnet/pub/publications/2004/J_nelson_FQRX_Campy
Ray, Susan M (GA)	SD Ahuja, PA Blake, MM Farley, M Samuel, T Fiorentino, E Swanson, M Cassidy, JC Lay, T Van Gilder, for the Emerging Infections Program (EIP) FoodNet Working Group	Population-Based Surveillance for Yersinia enterocolitica Infection in FoodNet Sites, 1996-1999: Higher Risk of Disease in Infants and Minority Populations	Clinical Infectious Diseases, 2004;38:S181-S189 http://www.journals.uchicago.edu/CID/journal/issues/v38nS3/32112/32112 .
Rees, Judy R	MA Pannier, A McNeese, S Shallow, FJ Angulo, DJ Vugia	Persistent Diarrhea, Arthritis, and Other Complications of Enteric Infections: A Pilot Survey Based on California FoodNet Surveillance, 1998-1999	Clinical Infectious Diseases, 2004;38:S311-S317 http://www.cdc.gov/foodnet/pub/CID/reesj.pdf
Rowe, Samantha Y (CDC)	JR Rocourt, B Shiferaw, HD Kassenborg, SD Segler, R Marcus, PJ Daily, FP Hardnett, L Slutsker, for the Emerging Infections Program (EIP) FoodNet Working Group	Breast-Feeding Decreases Risk of Sporadic Salmonellosis among Infants in FoodNet Sites	Clinical Infectious Diseases, 2004;38:S262-S270 http://www.cdc.gov/foodnet/pub/CID/rowes.pdf
Roy, Sharon (CDC)	SM DeLong, SA Stenzel, B Shiferaw, JM Roberts, A Khalakdina, R Marcus, SD Segler, DD Shah, S Thomas, DJ Vugia, SM Zansky, V Dietz, MJ Beach, and the Emerging Infections (EIP) FoodNet Working Group	Risk Factors for Sporadic Cryptosporidiosis among Immunocompetent Persons in the United States from 1999 to 2001	Journal of Clinical Microbiology, 2004;42(7):2944-51 http://www.cdc.gov/foodnet/pub/publications/2004/r_sharon_rskfctrs_crypto
Samuel, Michael C (CDC)	DJ Vugia, S Shallow, R Marcus, S Segler, T McGovern, H Kassenborg, K Reilly, M Kennedy, Frederick Angulo, RV Tauxe, for the Emerging Infections Program (EIP) FoodNet Working Group	Epidemiology of Sporadic Campylobacter Infection in the United States and Declining Trend in Incidence, FoodNet 1996-1999	Clinical Infectious Diseases, 2004;38:S165-S174 http://www.journals.uchicago.edu/CID/journal/issues/v38nS3/32110/32110 .
Shiferaw, Beletshachew (OR)	S Shallow, R Marcus, S Segler, D Soderlund, FP Hardnett, T Van Gilder, for the Emerging Infections Program (EIP) FoodNet Working Group	Trends in Population-Based Active Surveillance for Shigellosis and Demographic Variability in FoodNet sites: 1996-1999	Clinical Infectious Diseases, 2004;38:S175-S180 http://www.journals.uchicago.edu/CID/journal/issues/v38nS3/32111/32111 .

Published FoodNet Manuscript

Lead	Co-authors	Title	Citation/Web Link
Voetsch, Andrew C (CDC)	FJ Angulo, T Rabatsky-Ehr, S Shallow, M Cassidy, SM. Thomas, E Swanson, SM. Zansky, MA Hawkins, TF Jones, PJ Shillam, TJ Van Gilder, JG Wells, PM Griffin, for the Emer	Laboratory Practices for Stool_Specimen Culture for Bacterial Pathogens, Including Escherichia coli O157:H7, in the FoodNet Sites, 1995-2000	Clinical Infectious Diseases, 2004;38:S190-S197 http://www.cdc.gov/foodnet/pub/CID/voetscha2.pdf
Voetsch, Andrew C (CDC)	TJ Van Gilder, FJ. Angulo, MM Farley, S Shallow, R Marcus, PR Cieslak, VC Deneen, RV Tauxe, for the Emerging Infections Program (EIP) FoodNet Working Group	FoodNet Estimate of the Burden of Illness Caused by Nontyphoidal Salmonella Infections in the United States	Clinical Infectious Diseases, 2004;38:S127-S134 http://www.cdc.gov/foodnet/pub/CID/voetscha1.pdf
Vugia, Duc J (CDC)	M Samuel, MM. Farley, R Marcus, B Shiferaw, S Shallow, K Smith, FJ Angulo, for the Emerging Infections Program (EIP) FoodNet Working Group	Invasive Salmonella Infections in the United States, FoodNet, 1996-1999: Incidence, Serotype Distribution, and Outcome	Clinical Infectious Diseases, 2004;38:S149-S156 http://www.cdc.gov/foodnet/pub/CID/vugiadj.pdf
Wong, Stephanie (CDC)	R Marcus, M Hawkins, S Shallow, KG McCombs, E Swanson, B Anderson, B Shiferaw, R Garman, K Noonan, T Van Gilder, for the Emerging Infections Program (EIP) FoodNet Working Group.	Physicians as Food-Safety Educators: A Practices and Perceptions Survey	Clinical Infectious Diseases, 2004;38:S212-S218 http://www.cdc.gov/foodnet/pub/CID/wongs.pdf
2003			
Centers for Disease Control and Prevention	FoodNet Working Group	Preliminary FoodNet Data on the Incidence of Foodborne Illnesses - Selected Sites, United States, 2002	MMWR April 18, 2003 / 52(15);340-343 http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5215a4.htm
Vanden Eng, Jodi (CDC)	R Marcus, JL Hadler, B Imhoff, DJ Vugia, P Cieslak, E Zell, V Deneen, K Gibbs McCombs, SM Zansky, MA Hawkins, RE Besser	Consumer Attitudes and Use of Antibiotics	Emerg Infect Dis [serial online] 2003 Sept [date cited]. http://www.cdc.gov/ncidod/EID/vol9no9/02-0591.htm
2002			
Buzby, Jean C		Older Adults at Risk of Complications From Microbial Foodborne Illness.	USDA Economic Research Service (ERS) FoodReview, Vol. 25, Issue 2, Sep http://www.ers.usda.gov/publications/FoodReview/Sep2002/frvol25i2f.pdf
Centers for Disease Control and Prevention	FoodNet Working Group	Preliminary FoodNet Data on the Incidence of Foodborne Illnesses-Selected Sites, United States, 2001	MMWR April 19, 2002; 51(15);325-9 http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5115a3.htm
Jones, Tim J (TN)	M Kellum, S Porter, M Bell, W Schaffner	An Outbreak of Community-Acquired Foodborne Illness Caused by Methicillin-Resistant Staphylococcus aureus	Emerging Infectious Diseases, Vol. 8, No. 1, January 2002 http://www.cdc.gov/ncidod/EID/vol8no1/01-0174.htm

Published FoodNet Manuscript

Lead	Co-authors	Title	Citation/Web Link
2001			
Centers for Disease Control and Prevention	FoodNet Working Group	Preliminary FoodNet Data on the Incidence of Foodborne Illnesses - Selected Sites, United States, 2000.	MMWR 2001; 50(13):241-6 http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5013a1.htm
Frenzen, Paul (USDA)	E DeBess, K Hechemy, H Kassenborg, M Kennedy, K McCombs, A McNees, and the FoodNet Working Group.	Consumer Acceptance of Irradiated Meat and Poultry in the United States.	The Journal of Food Protection 2001; 64:12 2020-2026 http://apt.allenpress.com/aptonline/?request=get-abstract&issn=0362-028X&
2000			
Centers for Disease Control and Prevention	FoodNet Working Group	Preliminary FoodNet Data on the Incidence of Foodborne Illnesses - Selected Sites, United Staes, 1999	MMWR 2000; 49 (10): 201-205 http://www.cdc.gov/epo/mmwr/preview/mmwrhtml/mm4910a1.htm
Frenzen, Paul (USDA)	A Majchrowicz, B Buzby, B Imhoff, and the FoodNet Working Group	Consumer Acceptance of Irradiated Meat and Poultry Products	Agriculture Information Bulletin, 2000; 757:1-8 http://www.cdc.gov/foodnet/pub/publications/frenzen_p_2/frenzen_p_2.htm
Kennedy, Malinda (CDC)	FJ Angulo and the FoodNet Working Group.	Incidence of Foodborne Illnesses: 1999 Data from FoodNet	Irish Journal of Agricultural and Food Research 2000; 39: 295-300 http://www.cdc.gov/foodnet/pub/publications/kennedy_m/kennedy_m.htm
Shiferaw, Beletshachew (OR)	S Yang, P Cieslak, D Vugia, R Marcus, K Koehler, V Deneen, F Angulo and the Foodnet Working Group.	Prevalence of High-Risk Food Consumption and Food-Handling Practices Among Adults: A Multistate Survey, 1996 to 1997	Journal of Food Protection, 2000; 63 (11): 1538-1543. http://www.cdc.gov/foodnet/pub/publications/shiferaw.htm
Wallace, David J (CDC)	T Van Gilder, S Shallow, T Fiorentino, SD Segler, KE Smith B Shiferaw, R Etzel, WE Garthright, FJ Angulo, and the FoodNet Working Group	Incidence of Foodborne Illnesses Reported by the Foodborne Diseases Active Surveillance Network (FoodNet)-1997.	Journal of Food Protection 2000; 63 (6): 807-809. http://www.cdc.gov/foodnet/pub/publications/2000/wallace_d.htm
1999			
Centers for Disease Control and Prevention	FoodNet Working Group	Incidence of Foodborne Illnesses: Preliminary Data from the Foodborne Diseases Active Surveillance Network (FoodNet) - United States, 1998	MMWR 1999; 48 (9): 189-194 http://www.cdc.gov/epo/mmwr/preview/mmwrhtml/00054940.htm
Frenzen, Paul (USDA)	T Riggs, J Buzby, T Breuer, T Roberts, D Voetsch, S Reddy, and the FoodNet Working Group	Salmonella Cost Estimate Update Using FoodNet Data	Food Review 1999; 22 (2): 10-15 http://www.cdc.gov/foodnet/pub/publications/frenzen_p/frenzen_p.htm

Published FoodNet Manuscript

Lead	Co-authors	Title	Citation/Web Link
Frenzen, Paul (USDA-ERS))	T Riggs, J Buzby, T Breur, T Roberts, D Voetsch, S Reddy, and the FoodNet Working Group	Salmonella cost estimate update using FoodNet data	Food Review, 1999:22(2):10-15 http://www.cdc.gov/foodnet/pus/salmo.htm
Herikstad, Hallgeir (Denmark)	S Yang, TJ Van Gilder, DJ Vugia, J Hadler, P Blake, V Deneen, B Shiferaw , FJ Angulo FJ, and the FoodNet Working Group	A Population-Based Estimate of the Burden of Diarrheal Illness in the United States: FoodNet, 1996-1997	Epidemiology and Infection 2002; 129:9-17. http://www.cdc.gov/foodnet/pub/publications/2002/herikstad_h.htm
Mead, Paul (CDC)	L Slutsker, A Dietz, L McCaig, J Bresee, Shapiro C, Griffin P, Tauxe R	Food-Related Illness and Death in the United States	Emerging Infectious Diseases 1999; 5 (5): 607-625. http://www.cdc.gov/ncidod/eid/vol5no5/mead.htm
1998			
Angulo, Fred (CDC)	A Voetsch, D Vugia, J Hadle, M Farley, C Hedberg, P Cieslak, D Morse, D Dwyer, D Swerdlow, FoodNet Working group.	Determining the Burden of Human Illness from Foodborne Diseases: CDC's Emerging Infectious Disease Program Foodborne Disease Active Surveillance Network (FoodNet).	Veterinary Clinics of North America: Food Animal Practice 1998; 14: 165-1 http://www.cdc.gov/foodnet/pub/publications/1998/angulo_f/angulo_f.htm
Centers for Disease Control and Prevention		Outbreak of Vibrio parahaemolyticus Infections Associated with Eating Raw oysters - pacific Northwest, 1997	MMWR 1998; 47 (22): 457-462 http://www.cdc.gov/epo/mmwr/preview/mmwrhtml/00053377.htm
Centers for Disease Control and Prevention	FoodNet Working Group	Incidence of Foodborne Illnesses- FoodNet 1997	MMWR 1998; 47 (37): 782 http://www.cdc.gov/epo/mmwr/preview/mmwrhtml/00054940.htm
1997			
Centers for Disease Control and Prevention	FoodNet Working Group	Foodborne Diseases Active Surveillance Network 1996.	MMWR 1997; 46 (12): 258-261 http://www.cdc.gov/epo/mmwr/preview/mmwrhtml/00046981.htm
1996			
Centers for Disease Control and Prevention		Surveillance for Creutzfeldt-Jakob Disease - United States	MMWR 1996; 45 (31): 665-668 http://www.cdc.gov/epo/mmwr/preview/mmwrhtml/00043220.htm

**FoodNet Vision Meeting Final Agenda
Atlanta, GA
March 24th, 2004**

Wednesday March 24th

Location: Room 5106, 1West Court Square, Decatur

Morning Session: Coordinators Meeting

- | | |
|-------------|--|
| 8:00-8:30 | Coffee/tea |
| 8:30-9:30 | Review of FoodNet Surveillance Protocol
1. Carrier/Duplicates |
| 9:30-10:00 | Results from the Coordinators' Survey |
| 10:00-10:15 | BREAK |
| 10:15-10:45 | Performance Standards
1. Additional standards for travel and outbreak variables |
| 10:45-11:00 | <i>Salmonella</i> serotyping |
| 11:00-12:30 | NEDSS / Working lunch (on your own) |
| 12:30-12:45 | Conclusions |

Afternoon Session: Guillain-Barré Syndrome (GBS) Meeting

- | | |
|-----------|---|
| 1:00-1:30 | <u>Why FoodNet should conduct GBS surveillance?</u>
1. Introductory comments: <i>Fred Angulo</i> (10)
2. Overview of GBS: <i>Amy Dechet</i> (10)
3. The economic costs of GBS: <i>Paul Frenzen</i> (10) |
| 1:30-2:30 | <u>Lessons Learned from GBS Surveillance</u>
1. Active surveillance for GBS: <i>Ban Mishu Allos</i> (40)
2. Passive surveillance for GBS: <i>Beletshachew Shiferaw</i> (20) |
| 2:30-2:45 | BREAK |
| 2:45-3:45 | <u>Lessons Learned from other Surveillance</u>
1. Vaccine Adverse Event Reporting System (VAERS): <i>Penina Haber</i> (20)
2. Complications of enteric infections: <i>Fred Angulo</i> (5)
3. Reactive Arthritis Study: <i>John Townes</i> (20)
4. Active surveillance for Hemolytic Uremic Syndrome: <i>Cindi Snider</i> (15) |
| 3:45-4:20 | Discussion of GBS surveillance in FoodNet: What should FoodNet do? |
| 4:20-4:30 | Closing remarks |
| 5:30 pm | Coordinators Dinner (on your own), Restaurant: TBD, Decatur, GA |

**FoodNet Vision Meeting Final Agenda
Atlanta, GA
March 25-26th, 2004**

Thursday March 25th

Location: Ballroom, Holiday Inn Select, Decatur GA

Morning Session: Review

8:00-8:30 Coffee/tea

8:30-8:40

Welcome and introductory comments

1. Foodborne and Diarrheal Diseases Branch: *Robert Tauxe* (5)
2. Division of Bacterial and Mycotic Diseases/ Emerging Infections Program: *Robert Pinner* (5)

8:40-8:50

Status of EIP grant renewal: *Robert Pinner* (10)

8:50-8:55

Summary of Coordinators' meeting: *Jennifer Nelson* (5)

8:55-9:00

Review of 2001-2002 established priorities: *Fred Angulo* (5)

9:00-10:00

Review of 2003 established priorities- What has FoodNet done to address them?

Moderator: *Fred Angulo*

1. HUS/STEC Working Group: *Kirk Smith* (15)
 - Drafted manuscript describing pediatric HUS
 - Modified HUS case report form
 - Reviewed adult HUS surveillance methods
 - Conducted laboratory survey
 - Drafted HUS cohort study protocol
2. Interventions Working Group: *Pat Ryan* (15)
 - Developed long-term care facility survey
 - Designed cognitive study for Population Survey
3. Outbreak Working Group: *Tim Jones* (15)
 - Modified supplemental outbreak reporting form
 - Implemented *Listeria* case report form
 - Added outbreak variable in core surveillance
 - Drafted stool kit manuscript
4. Norovirus Working Group: *Marc-Alain Widdowson* (15)
 - Implemented standardized case report form for non-foodborne outbreaks
 - Collected 2000-2002 non-foodborne outbreak data
 - Compared 2000-2002 non-foodborne outbreak data to 2000-2002 foodborne outbreak data

10:00-10:15

BREAK

10:15-11:00

Attribution

- Overview of attribution: *Paul Cieslak* (15)
 - Travel variable in surveillance
- University of Minnesota project: *Carrie Rigdon* (15)
- *Shigella* case report form: *Eric Mintz* (15)

- 11:00-11:10 Paratyphi case report form: *Eric Mintz* (10)
- 11:10-11:55 Infant illness
Moderator: *Fred Angulo*
1. Review of surveillance data: *Katie Fullerton* (10)
 2. Bacterial enteric infections in children manuscript: *Duc Vugia* (5)
 3. Neonatal sepsis: *Sandi McCoy* (15)
 4. *Enterobacter sakazakii*: *Chris Braden* (10)
 5. Infant case-control study: *Tim Jones* (5)
- 11:55-12:05 Multidrug-resistant *E. coli*: *Fred Angulo* (10)
- 12:05-1:15 Lunch on your own

Afternoon Session: Review

Location: Ballroom, Holiday Inn Select, Decatur, GA

- 1:15-1:30 2nd Annual FoodNet Star Award Ceremony: *Fred Angulo and Patricia Griffin* (15)
- 1:30-1:45 Unexplained diarrhea project: *Chris Braden* (15)
- 1:45-2:15 *Campylobacter*
Moderator: *Fred Angulo*
- Outcome of GBS meeting (5)
 - Overview of working group activities (20)
 - Discussion of potential projects (5)
- 2:15-2:55 Other FoodNet updates
Moderator: *Fred Angulo*
1. Reactive Arthritis Study (OR, MN): *Jeremy Sobel* (10)
 2. Giardia Study (CO, MN): *Kirk Smith* (10)
 3. Population Survey: *Elaine Scallan* (10)
 4. International Burden: *Elaine Scallan* (10)
- 2:55-3:15 BREAK
- 3:15-3:45 Comments from regulatory partners
1. USDA: *David Goldman* (15)
 2. FDA: *Jack Guzewich* (15)
- 3:45-4:15 Comments from CDC partners
1. Parasitic: *Jeff Jones* (15)
 2. Viral: *Marc-Alain Widdowson* (15)
- 4:15-4:45 EHS-Net
Moderator: *Tim Jones*
1. Update from CDC: *Carol Selman* (10)
 2. Discussion of FoodNet's role: *Tim Jones* (20)
- 4:45-5:30 MMWR: Orientation discussion
Moderator: *Fred Angulo*
- 5:30-5:45 Closing remarks
- 6:30 pm FoodNet Dinner (on your own), Siam Thai Restaurant, Decatur, GA

Friday March 26th : Set Priorities

Location: Ballroom, Holiday Inn Select, Decatur GA

8:00-8:30	Coffee/tea
8:30-8:45	Administrative Issues
8:45-10:30	MMWR
10:30-10:45	BREAK
10:45-11:45	Discussion of possible Year 2005 enhancements: <i>Fred Angulo</i>
11:45-1:00	Lunch (on your own)
1:00-1:30	Priority setting for FoodNet Year 2005 enhancements: <i>Fred Angulo</i>
1:30-1:55	Vote on possible FoodNet Year 2005 priorities/studies: <i>Fred Angulo</i>
1:55-2:00	Where are we going?: The new FoodNet Year 2005 priorities: <i>Patricia Griffin</i>
2:00-3:00	Preliminary action plan and working groups for Year 2004 priorities
3:00-3:30	Final comments and meeting adjourned

PROPOSED REVISIONS

Performance Standards - FoodNet/NARMS

Surveillance

1. Case follow-up

a. Percent of cases with “unknown” hospitalization
(hospitalization within 7 days of culture collection date)

Target: ~~<= 50-~~ 15% unknown

b. Percent of **outpatient/ER cases** with “unknown” outcome
(If outpatient, death within 7 days of culture collection date; if hospitalized,
follow-up until patient is discharged or dies)

Target ~~<= 50%~~ 50% unknown

c. Percent of **hospitalized cases** with “unknown” outcome

Target ~~<=15-~~ 5% unknown

FoodNet-Lab Project List -- Summary
Updated: November 29, 2004

Project Title	Data Collection Status	Lab Testing Status	Manuscript Preparation Status	FoodNet Contact	Laboratory Contact
A. Cohort/Case-Control Studies					
<i>Listeria</i> , 2000-2003	173 isolates	PFGE: In progress, CDC Serotype: Done	In progress	Katie Fullerton	Paola Bordoni
<i>S. Newport</i> , 2002-2003	201 isolates	PFGE: Not Applicable Serotype: Done Susceptibility: Done	In progress	Katie Fullerton	PFGE:; Suceptibility: NARMS
<i>S. Enteritidis</i> , 2002-2003	221 isolates	PFGE: In progress, State Serotype: Done Phage Type: Done	In progress	Katie Fullerton	PFGE: Dave Boxrud; Phage Type: NARMS
<i>E. coli</i> O157/HUS, 2005	Protocol/Questionnaire in clearance	Under discussion	Future	John Dunn	Nancy Strockbine
B. Other Special Studies					
<i>S. Kentucky</i>	126 isolates	Done	N/A	Cindi Snider	Susan Van Duyne
FoodNet <i>Campylobacter</i> Laboratory Survey	Protocol/Questionnaire in clearance	None	Future	Drew Voetsch	Collette Fitzgerald
C. Surveillance Studies					
<i>Listeria</i> Trends	Done	Serotype: In progress	In progress	Drew Voetsch	Lewis Graves
HUS	On-going; revision of methods	Under discussion	Future	Cindi Snider	Bill Bibb

Foodborne Diseases Active Surveillance Network (FoodNet),
Status of Laboratory Testing for Case-Control Studies

	No. of cases	Isolates with AscI results		Isolates with ApaI results		Isolates with both AscI and ApaI results		Status
		No.	%	No.	%	No.	%	
PFGE								
<i>Listeria</i> case-control	173	130	75	101	58	96	55	In-progress, CDC
<i>S. Newport</i> case-control	201	0	0	0	0	0	0	No results to date
<i>S. Enteritidis</i> case-control	221	~170	77	~170	77	~170	77	In-progress, State

	No. of cases	Isolates with serotype		Isolates that will never be serotyped		Isolates remaining to be serotyped		Status
		No.	%	No.	%	No.	%	
Serotyping								
<i>Listeria</i> case-control	173	165	95	8	5	0	0	Done
<i>S. Newport</i> case-control	201	201	100	0	0	0	0	Done
<i>S. Enteritidis</i> case-control	221	221	100	0	0	0	0	Done

	No. of cases	Isolates susceptibility tested		Isolates that will never be susceptibility tested		Isolates remaining to be susceptibility tested		Status
		No.	%	No.	%	No.	%	
Susceptibility Testing								
<i>S. Newport</i>	201	201	100	0	0	0	0	Done

	No. of cases	Isolates phage typed		Isolates that will never be phage typed		Isolates remaining to be phage typed		Status
		No.	%	No.	%	No.	%	
Phage Typing								
<i>S. Enteritidis</i>	221	221	100	0	0	0	0	Done

**HUS/STEC Working Group
Thursday, November 18th, 2004
12-1pm Eastern**

Minutes

5. Adult Surveillance (p12-13)

b. Adult HUS Manuscript

- FoodNet generally reports incidence rates in manuscripts however incidence rates for adults are not reported because the method for surveillance varies from site to site and so not truly population based surveillance
- Proposal that sites review their HDD from 2000-2002
 - a. Would allow the group to calculate incidence rates for adults
 - b. Could determine the sensitivity of passive surveillance for adult HUS cases
 - c. 2000 is the first year in which all sites report HUS cases so could include all sites except CO. The ability to do a HDD review is limited for CO as HUS is not reportable condition in those ≥ 18 years of age
 - d. New questionnaire and database used as of 2000 so a natural starting point
 - e. All sites should be able to access their 2000-2002 data at no cost
 - f. Sites are encouraged to perform HDD reviews on an annual basis to validate their finding of adult HUS cases. However, this may not be feasible for all sites. Based on the findings of this review, sites may choose to do this type of periodic review.
- General agreement to do HDD review between 2000-2002 but Cindi will follow up with each site to confirm
- ICD9 codes to be used for HDD
 - a. ICD9 codes to be used in reviewing the HDD will be circulated to the group with the minutes.
 - b. All sites should use ICD9 code 283.11 to identify HUS cases
 - c. Sites are also encouraged to use the other two ICD9 code combinations to identify more potential cases of HUS

FoodNet Analysis Proposal

Variations in Rates of Hospitalization Among *Salmonella* Serotypes

- Date: November 8, 2004
- Participants: Amanda Ingram (TN), Tim Jones, others to be determined
- Proposal: Examine FoodNet active surveillance data from 1996-2003 to determine potential differences in rates of hospitalization, mean duration of hospitalization, or other indicators of differences in disease severity among different *Salmonella* serotypes.
- Data: FoodNet *Salmonella* surveillance data, 1996-2003
- Plan: The initial goal of this examination is to inform the NARMS/FoodNet Antibiotic Resistance Working Group with decision-making as they finalize the protocol for the *Salmonella* outcomes study (looking at differences in outcomes between pan-susceptible and drug-resistant cases), currently scheduled to begin in early 2005. If significant differences are identified that are felt worthy of further study, the data may be developed into an abstract for the 2005 IDSA meeting and subsequent publication.
- Timeline: Preliminary analysis to begin before the Resistance WG meeting 11/18/04.

FoodNet Steering Committee Proposal

Proposed title: Estimating duration of illness from population surveys of acute gastroenteritis

Proposed by: Elaine Scallan, Fred Angulo, Leslie Daly, Shannon Majowicz, Gill Hall.

Date submitted: November 16, 2004

Purpose: To explore ways to get the best estimate of duration of illness from the FoodNet Population Survey and other surveys of acute gastroenteritis conducted in Australia, Canada and Ireland.

Proposal: In the FoodNet Population Survey (and other studies estimating the burden of acute gastroenteritis), when reporting symptoms of diarrhea and vomiting respondents are asked to specify their duration of illness. Difficulties arise in calculating a mean duration of illness because:

- For those who are still suffering from their symptoms, the response is an underestimate of duration because some time has yet to pass before the episode will be over.
- Persons with a longer duration of symptoms are more likely, than persons with a short duration, to be in the survey with current symptoms. Thus, this results in a sampling bias.

We propose to explore these issues using real life data from the FoodNet Population Survey and other telephone surveys conducted in Australia, Canada and Ireland.

Comments of NARMS External Review Panel (August 12-13, 2004): *Campylobacter*

Sampling Strategy for NARMS *Campylobacter* Isolates

A. Background

Historically, before NARMS was established, *Campylobacter* susceptibility testing began in 1989-90 by shipment of the 1st five sporadic isolates per month from nineteen sentinel counties. In 1997 sampling began from five FoodNet sites with the submission of one isolate each week. This was expanded through the years and for 2004 includes isolates submitted from ten FoodNet sites. However, the sampling scheme for selection of isolates varies by site. Because not all states require submission from clinical laboratories, some states send isolates from the state laboratory (five sites) and some from sentinel laboratories (five sites).

B. Questions

1. What are the strengths and weaknesses of the current sampling strategy for *Campylobacter*?

Strengths:

- Convenience sample
- Low cost
- Tied to FoodNet site data
- Already up and running
- Several years data available to follow trends

Weaknesses:

- Not generalizable/representative
- Not related to population or incidence
- Different sampling methods from 10 participating sites (5 utilize samples sent to state lab, 5 utilize samples from sentinel labs)
- Not getting the target number of isolates per site (e.g., average of only 35 isolate per site in 2002 versus target of 53, one per week)
- Not exploiting potential of sampling from 12 states with mandatory referral (though not sure of completeness of referrals)
- Now utilizing E-test which is labor intensive and limits potential number of isolates that could be tested (up to 700 a year)
- Really need better quality data to withstand criticism of validity of data to address status of fluoroquinolone resistance

2. Should the sampling strategy for *Campylobacter* be changed? If so, how?

Campylobacter susceptibility testing is a high priority and needs to be maintained. However, the limitations of the current sample need to be examined/evaluated because of the lack of generalizability and lack of representativeness.

Recommendations:

- Since the limit on the number of samples that can be tested per year (e.g., 700) in itself creates some of these limitations, CDC needs to examine methods that could be used to increase the number of specimens tested (e.g., change in laboratory methods, development of standardized procedures that could be utilized in the field by partner sites instead of relying solely on CDC, redirection of resources within NARMS to increase sample size, etc.)
- CDC should systematically compare the merits of the current system and an alternate option (e.g., utilization of 12 states with mandatory referral of isolates or utilization of large national laboratories) using a side by side analysis of major features (completeness, geographic distribution, ability to audit, etc.). If the current system is retained, changes should be made to increase completeness of submission and representativeness (e.g., taking into account sampling by population and incidence as well as by time of year, improving percentage of isolates received per site per week, etc.).

If substantial changes are not made, we encourage considering a one-time “validation” study of the current system. Devotion of resources to a more intensive survey of specimens from a larger and more diverse population for a limited time, would allow demonstration of the validity of the current system (or identify specific problems for correction).

Long, Cherie

From: Angulo, Fred
Sent: Monday, November 22, 2004 3:20 PM
To: Griffin, Patricia M.
Cc: Selman, Carol; Radke, Vincent; Lynch, Michael; Gupta, Sundeep; Dubois, Amy; Snider, Cynthia; Voetsch, Andrew; Snider, Cynthia; Braden, Chris; Nelson, Jennifer M (NCID); 'Tim.F Jones'; 'Ruthanne Marcus'; 'Melissa Tobin-D'angelo'; 'lore.e.lee@state.or.us'; 'April.bogard@state.mn.us'; Scallan, Elaine; Angulo, Fred
Subject: Summary - EHS-Net Strategic Meeting, November 16-17, 2004

Patty,

Excellent EHS-Net Strategic Meeting last week. EHS-Net will undergo marked changes in FY05 with the awarding, in March 2005, of the new cooperative agreements for food safety-related work to 10 sites (at about \$150K per site) and waterborne disease to 5 of those 10 sites (at an additional \$150K per site). Even if most, if not all, of the 8 existing sites submit an application and are awarded a cooperative agreement, there will be new EHS-Net sites in FY2005....it will be interesting to see who the final awardees end up to be....

FoodNet input at the EHS-Net Strategic Meeting was well provided by Tim Jones (TN), Ruthanee Marcus (CT), Lore Lee (OR), April Bogard (MN), and Melissa Tobin-D'Angelo (GA)....I think the FoodNet perspectives enriched the meeting.

Despite the uncertainty inherent with the establishment of the new cooperative agreements (which will be administered independent of the NCID EIP cooperative agreement), EHS-Net members agreed at the Strategic Meeting to interesting portfolio of activities in 2005. The activities include:

Continuation of the following activities:

1. Study of outbreak/non-outbreak restaurants – survey questionnaire has been revised, protocol going through OMB/IRB, will likely begin enrolling restaurants again in July, 2005. For EHS-Net states that are also FoodNet states, FoodNet staff at the states need to work closer with EHS-Net staff to increase enrollment of outbreak restaurants. We will discuss this at the next FoodNet Outbreak Working Group conference call.
2. Survey of restaurants on hand-hygiene – complete enrollment by end of December, 2004; conduct analysis and present findings at meetings and in manuscript in 2005.
3. Survey of restaurants on beef handling/sources/etc – completed enrollment in mid-2004; finalize analysis and manuscript in 2005.
4. FoodNet grocery store survey of meat market managers – to determine sources and handling of chicken (part of study to determine regional differences in Campylobacter incidence) – continue participation in conference calls to develop study design and questionnaire; participate in study, perhaps doing interviews, in late 2005.

New activities in 2005

1. Survey of restaurants on tomato (and perhaps other produce) handling practices – will form committee to work with Mike Lynch to develop study design and questionnaire, obtain OMB/IRB approval in 2005; launch study when approved. Develop of study design and questionnaire can move forward as quickly as FDDDB is able to facilitate.
2. Addition EHS-Net question to cycle 5 of the FoodNet Population Survey. EHS-Net will create committee to draft questions; we discussed the need for EHS-Net to provide approximately \$5K per question to FoodNet for each EHS-Net added question to the questionnaire (which will have no more than 120 total questionnaires, of which 30 questionnaire are demographic/core questions...and last no more than 20 mins). EHS-Net is hopeful it will obtain support for the Population Survey in FY06; this will help us balance the FoodNet cycle 5 Population Survey budget.
3. Denominator study – determine estimate of how many restaurants exist with EHS-Net catchment areas, and what proportion of the restaurants belong in each EHS-Net category of restaurants (ie complex, quick

serve, etc).

4. Improve quality of “contributing factors” information in EFORS, particularly within the FoodNet/EHS-Net states. This project will build upon Craig Hedberg’s on-going FoodNet Outbreak Working Group project that is analyzing contributing factor information from EFORS from FoodNet states. Work with FoodNet Outbreak Working Group to improve the quality of contributing factor information in EFORS from FoodNet/EHS-Net states.
5. Value of routine restaurant inspections – “brainstorm” on how this question might be evaluated with EHS-Net.

Pilot activities that one or two states may explore in 2005

1. Assessment of restaurant certification and association of certification with foodborne illness.
2. Evaluation of foodborne illness complaint system.

As you can see....there is strong and valuable partnership between FoodNet and EHS-Net; I was pleased with the outcome of the EHS-Net meeting....The EHS-Net people are taking this list of activities back to their health departments, and there will be a final EHS-Net Steering Committee vote at the December EHS-Net Steering Committee call on Thursday, December 2nd....once we hear the outcome of that meeting (I anticipate acceptance of this full slate of activities) we should contact EHS-Net and help facilitate the Tomato Study development. We will also bring the outbreak associated activities listed above to the FoodNet Outbreak Working Group meeting on Thursday, December 16th...Sincerely, Fred

Frederick J. Angulo, DVM PhD

Chief, FoodNet/NARMS Unit
 Foodborne and Diarrheal Diseases Branch
 National Center for Infectious Diseases
 phone: (404) 371 5405
 fax: (404) 371 5444