

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

Date: Thursday, June 10, 2004  
Time: 2:00-3:00 pm  
Numbers: Number: 888-405-9176 PassCode: 58895

A. Administrative

1. Personnel
  - a. Karla Thornton, MD (New Mexico PI)
  - b. Katrina Kretsinger
  - c. Drew Voetch
  - d. Diane Gerber
2. Status of manuscripts
3. IDSA abstracts

B. Surveillance

1. Active surveillance data
  - a. Final data transmission
2. 2003 Annual Report template
3. HUS surveillance
4. Outbreak table and line list

C. Special studies

1. S. Newport, S. Enteritidis, *Listeria*, Infant case-control studies
2. FoodNet-NARMS-PulseNet Integration status

D. Proposals

1. Effect of area-based socioeconomic status on incidence of *Salmonella* infection (Sam Shin, Duc Vugia)
2. Trends in risky food consumption among high risk and general adult populations (Janet Mohle-Boetani, Duc Vugia, CA EIP)

E. Upcoming FoodNet conference calls, meetings, and deadlines

- |               |                       |                    |  |
|---------------|-----------------------|--------------------|--|
| 1. Monday     | June 14 <sup>th</sup> | 3:00-4:00 pm EST   | Infant Case-Control Study call             |
| 2. Thursday   | June 17 <sup>th</sup> | 3:00-4:00 pm EST   | Outbreak Working Group call                |
| 3. Tuesday    | June 22 <sup>h</sup>  | 2:00-3:00 pm EST   | Interventions Working Group call           |
| 4. Thursday   | June 24 <sup>th</sup> | 2:00-3:00 pm EST   | FoodNet Coordinators call                  |
| 5. Thursday   | June 24 <sup>th</sup> | 1:00-2:00 pm EST   | Antimicrobial Resistant Working Group call |
| 6. Thursday   | July 1 <sup>st</sup>  | 11:00-12:00 pm EST | Attribution Working Group call             |
| 7. Tuesday    | July 6 <sup>th</sup>  | 2:00-4:00 pm EST   | July Update meeting                        |
| 8. Wednesday  | July 7 <sup>th</sup>  | 11:00-12:00 pm EST | S. Kentucky call                           |
| 9. Thursday   | July 8 <sup>th</sup>  | 2:00-3:30 pm EST   | July Steering Committee call               |
| 10. Wednesday | July 14 <sup>th</sup> | 4:00-5:00 pm EST   | Burden Working Group call                  |

F. Data Submission Deadlines

1. Final 2003 data transmission Friday, June 18<sup>th</sup>
2. HUS data transmission Wednesday, June 30<sup>th</sup>

# STATUS OF ACTIVE FOODNET Manuscripts

last updated: 06/08/2004

0=analysis, 1=writing, 2 draft being reviewed by coauthors, 3=incorporating comments, 4=NCID/CDC clearance, 5=at journal

PRELIMINARY INFORMATION: SUBJECT TO CHANGE: NOT FOR DISTRIBUTION

|    | Lead Investigator                            | Sr. Author/Authors  | Proposal  | Abstract    | Approved | Status | Journal         | Date of last correspondence | Comments   |
|----|--|---|---|-------------|----------|--------|-----------------|-----------------------------|--|
| 1  | Snider, Cindi (CDC)                          | Fred Angulo   | Descriptive Characterization of Adult HUS in FoodNet Sites, 1997-2002   |             | Apr-03   | 0      |                 | 2/9/2004                    |  |
| 2  | Moore, Matt (CDC)                            |   | <i>Listeria</i> trends paper  |             |          | 0      |                 | 2/9/2004                    |  |
| 3  | Marcus, Ruthanne (CT)                        |   | <i>Salmonella</i> Enteritidis case-control study  |             |          | 0      |                 | 3/9/2004                    |  |
| 4  | Varma, Jay (CDC)                             |   | <i>Salmonella</i> Newport case-control study  |             |          | 0      |                 | 6/8/2004                    | Analylsis proceeding   |
| 5  | Varma, Jay (CDC)                             |   | <i>Listeria</i> case-control study  |             |          | 1      |                 | 6/8/2004                    | Draft to Fred for review   |
| 6  | 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 <i>Salmonella</i> Typhi with Decreased Susceptibility to Ciprofloxacin                |             |          | 0      |                 |                             |  |
| 7  | Green, Laura (CDC)                           | Laura Green, Carol Selman   | Beliefs about and Experiences with Foodborne Illness  |             |          | 2      |                 | 3/8/2004                    | Should be submitted to CDC clearance by mid-July   |
| 8  | Vugia, Duc (CA)                              | FoodNet Education Working Group   | Foodborne Diseases in the United States: Lessons Learned from FoodNet, 1996-2002  |             |          | 2      | MMWR supplement | 6/8/2004                    | MMWR submission date 9/15/2004   |
| 9  | Kennedy, Malinda (CDC)                       | Kennedy, M., Rabatsky-Her, T., Lance-Parker, S., Thomas, S., Smith, K., Mohle-Boetani, J., Keene, B., Mead, P.  | <i>E. coli</i> O157 case-control study  |             |          | 3      |                 | 6/8/2004                    | Waiting on comments from Paul; should be submitted to clearance within the month of June |
| 10 | Patrick (Evans), M (DeKalb Co. Health Dept.) | Mary E. Patrick, Patricia M. Griffin, Paul S. Mead  | The Effectiveness of Recall Notification: Community Response to a Nationwide Recall of Hot Dogs and Deli Meats                      |             | Jun-99   | 3      |                 | 6/8/2004                    | Waiting on comments from Paul; should be submitted to clearance within the month of June |
| 11 | Samuel, Michael (CA)                         | Michael C. Samuel, Dr.P.H., Duc J. Vugia, M.D., M.P.H., Kathleen M. Koehler, Ph.D., M.P.H., Ruthanne Marcus, M.P.H., Alexander A. McNees, M.P.H., Valerie Deneen, Barbara Damaske, Beletshachew Shiferaw, M.D., M.P.H., James Hadler, M.D., M.P.H., Fred Angulo, D.V.M., M.P.H. | Consumption of Risky Foods Among Adults at High Risk for Severe Foodborne Diseases: Room for Improved Targeted Prevention Messages  |             |          | 3      |                 | 2/2/2004                    |  |
| 12 | Koehler, Kathleen (FDA)                      | Kathleen M. Koehler, Tamar Lasky, Sara B. Fein, Stephanie M. DeLong, Marguerite A. Hawkins, Therese Rabatsky-Ehr, Susan M. Ray, Beletshachew Shiferaw, Ellen Swanson, and Duc J. 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 | ICEID, 2002 | Sep-00   | 4      | JID or PID      | 6/8/2004                    | Will be submitted to clearance in June   |
| 13 | Dunne, E (CDC)                               | E.F. Dunne, MD, MPH, J.C. Lay MPH, B. Shiferaw, J.B. Bender DVM, Z.F. Dembek, M.A. Davis, LG Wesolowski, S. Zansky, M. Carter, E.J. Boothe, S. Burnite, F. Hardnett PhD, J. Wells PhD, B. Bibb PhD, P.M. Griffin MD, P. Mead MD, MPH.   | Results of Active Surveillance for Pediatric Hemolytic Uremic Syndrome (HUS) in the United States, 1997-1999                        | ICEID, 2002 | Apr-00   | 4      |                 | 6/8/2004                    | Through CDC clearance; will be submitted to journal in June                              |
| 14 | Watt, JP (CDC)                               | Michael Bales, MPH; Andrew L. Dannenberg, MD, MPH; Beth Imhoff, MPH; Scott R. Mullins; and Scott F. Dowell, MD, MPH   | Impact of a Health-Related Internet Hoax on a Public Health Agency and the Public: Implications for Health Communication            |             |          | 4      | AJPH            | 2/27/2004                   |  |

## STATUS OF ACTIVE FOODNET Manuscripts

last updated: 06/08/2004

0=analysis, 1=writing, 2 draft being reviewed by coauthors, 3=incorporating comments, 4=NCID/CDC clearance, 5=at journal

PRELIMINARY INFORMATION: SUBJECT TO CHANGE: NOT FOR DISTRIBUTION

|    | Lead Investigator      | Sr. Author/Authors  | Proposal   | Abstract | Approved | Status | Journal   | Date of last correspondence | Comments  |
|----|------------------------|---|--|----------|----------|--------|---|-----------------------------|---|
| 15 | Schroder, Carl (USDA)  | Schroder, C.M., Naugle, A.L., Schlosser, W.D., Hogue, A.T., Angulo, F.J., Ebel, E., Rose, J.S., Disney, W.T., Holt, K., Goldman, D.P.                           | Estimated Illnesses from <i>Salmonella</i> Enteritidis in Shell Eggs, United States, 2000                              |          |          | 4      | EID   | 3/8/2004                    | Submitted to EID on April 26, 2004. Under editorial review.     |
| 16 | Jones, TF (TN)         | Sharmeen Gettner, Robert L. Garman, Duc J. Vugia, David Blythe, Marguerite A. Hawkins, Steven S. Monroe, Fredrick J. Angulo, Umesh D. Parashar                  | Use of Stool Collection Kits Delivered to Patients Can Improve Confirmation of Etiology in Foodborne Disease Outbreaks |          |          | 5      | CID   |                             | Submitted to CID  |
| 18 | Green, Laura (CDC)     | Laura Green, Carol Selman, Frederick J. Angulo, Vince Radke, Sharunda Buchanan and the EHS-Net Working Group  | Restaurant Workers' Food Preparation Practices: An EHS-Net Study   |          |          | 5      | International Journal of Hygiene and Environmental Health | 3/8/2004                    | Has been requested for special issue; publication date unknown. |
| 19 | Lee, Robin (CDC)       | Robin Lee, Mark E. Beatty, April K. Bogard, Michael-Peter Esko, Frederick J. Angulo, Carol Selman, EHS-Net Working Group  | Prevalence of High-Risk Egg Preparation Practices in Restaurants That Prepare Breakfast Egg Entrees: An EHS-Net Study  |          |          | 5      | Journal of Food Protection                                | 6/8/2004                    | Accepted; Expected into print in July 2004 issue                |
| 20 | Nelson, Jennifer (CDC) | Kirk E. Smith, Duc J. Vugia, Therese Rabatsky-Her, Suzanne Segler Heidi Kassenborg, Shelly Zansky, Kevin Joyce, Nina Marano, Mike Hoekstra, Frederick J. Angulo | Prolonged Duration of Diarrhea Associated with Fluoroquinolone-Resistant <i>Campylobacter</i> Infections               |          |          | 5      | Journal of Infectious Diseases                            | 6/8/2004                    | Accepted; Unknown publication date.                             |

# PUBLISHED FOODNET Manuscripts

last updated: 06/08/04

6=in press/published, 7=posted to FoodNet website

|    | Authors   | Title   | Status | Journal Citation  |
|----|---|---|--------|---|
| 1  | Gupta, A, Nelson, JM, Barrett, TJ, Tauxe, RV, Rossiter, SP, Friedman, CR, Joyce, KW, Smith, KE, Jones, TF, Hawkins, MA, Shiferaw, B, Beebe, JL, Vugia, DJ, Rabatsky-Her, T, Benson, JA, Root, TP, Angulo, F for the NARMS Working Group | Antimicrobial Resitance Among <i>Campylobacter</i> Strains in the United States, 1997-2001: Increasing Prevalence of Ciprofloxacin Resistance                     | 6      | Emerg Infect Dis [serial online] 2003 Sept [date cited]. Available from: URL: <a href="http://www.cdc.gov/ncidod/eid/vol10no6/03-0635.htm">http://www.cdc.gov/ncidod/eid/vol10no6/03-0635.htm</a> |
| 2  | Vanden Eng J, Marcus R, Hadler JL, Imhoff B, Vugia DJ, Cieslak P, et al.  | Consumer Attitudes and Use of Antibiotics   | 6      | Emerg Infect Dis [serial online] 2003 Sept [date cited]. Available from: URL: <a href="http://www.cdc.gov/ncidod/EID/vol9no9/02-0591.htm">http://www.cdc.gov/ncidod/EID/vol9no9/02-0591.htm</a>   |
| 3  | Buzby, JC   | Older Adults at Risk of Complications From Microbial Foodborne Illness.   | 7      | USDA Economic Research Service (ERS) FoodReview, Vol. 25, Issue 2, September 2002.  |
| 4  | Kennedy M, Angulo FJ, and the FoodNet Working Group.  | Incidence of Foodborne Illnesses: 1999 data from FoodNet  | 7      | Irish Journal of Agricultural and Food Research 2000; 39: 295-300   |
| 5  | Wallace DJ, Van Gilder T, Shallow S, Fiorentino T, Segler SD, Smith KE, Shiferaw B, Etzel R, Garthright WE, Angulo FJ, and the FoodNet Working Group  | Incidence of Foodborne Illnesses Reported by the Foodborne Diseases Active Surveillance Network (FoodNet)-1997.   | 7      | Journal of Food Protection 2000; 63 (6): 807-809.   |
| 6  | Mead P, Slutsker L, Dietz A, McCaig L, Bresee J, Shapiro C, Griffin P, Tauxe R  | Food-Related Illness and Death in the United States   | 7      | Emerging Infectious Diseases 1999; 5 (5): 607-625.  |
| 7  | Angulo F, Voetsch A, Vugia D, Hadler J, Farley M, Hedberg C, Cieslak P, Morse D, Dwyer D, Swerdlow D, FoodNet Working group.  | Determing the Burden of Human Illness from Foodborne Diseases: CDC's Emerging Infectious Disease Program Foodborne Disease Active Surveillance Network (FoodNet). | 7      | Veterinary Clinics of North America: Food Animal Practice 1998; 14: 165-172   |
| 8  | Shiferaw B, Yang S, Cieslak P, Vugia D, Marcus R, Koehler J, Deneen V, Angulo F And The Foodnet Working Group.  | Prevalence of High-Risk Food Consumption and Food-Handling Practices Among Adults: A Multistate Survey, 1996 to 1997  | 7      | Journal of Food Protection, 2000; 63 (11): 1538-1543.   |
| 9  | Frenzen P, Riggs T, Buzby J, Breuer T, Roberts T, Voetsch D, Reddy S, and the FoodNet Working Group   | <i>Salmonella</i> Cost Estimate Update Using FoodNet Data   | 7      | Food Review 1999; 22 (2): 10-15   |
| 10 | Herikstad H, Yang S, Van Gilder TJ, Vugia D, Hadler J, Blake P, Deneen V, Shiferaw B, Angulo FJ, and the FoodNet Working Group  | A Population-Based Estimate of the Burden of Diarrheal Illness in the United States: FoodNet, 1996-1997   | 7      | Epidemiology and Infection 2002; 129:9-17.  |
| 11 | Jones T, Kellum M, Porter S, Bell M, Schaffner W  | An Outbreak of Community-Acquired Foodborne Illness Caused by Methicillin-Resistant <i>Staphylococcus aureus</i>  | 7      | Emerging Infectious Diseases, Vol. 8, No. 1, January 2002   |
| 12 | Frenzen P, DeBess E, Hechemy K, Kassenborg H, Kennedy M, McCombs K, McNees A, and the FoodNet Working Group.  | Consumer Acceptance of Irradiated Meat and Poultry in the United States.  | 7      | The Journal of Food Protection 2001; 64:12 2020-2026  |
| 13 | Frenzen P, Majchrowicz A, Buzby B, Imhoff B and the FoodNet Working Group   | Consumer Acceptance of Irradiated Meat and Poultry Products   | 7      | Agriculture Information Bulletin, 2000; 757: 1-8  |

Infectious Disease Society of America (ISDA) Abstracts, 2004

| <b>Infectious Diseases Society of America (ISDA 2004)</b> |                          |   |  |               |
|---|--------------------------|---|--|---------------|
|   | <b>Lead Investigator</b> | <b>Co-Authors</b>   | <b>Title</b>   | <b>Status</b> |
| 1   | Katrina Kretsinger       | D. J. Vugia, A. B. Cronquist, J. Hadler, S. Thomas, M. Megginson, E. Swanson, S. Zansky, T. Jones, R. Hoekstra, F. J. Angulo, and the EIP FoodNet Working Group | Declines in the Incidence of Many Foodborne Illnesses, Including Escherichia coli O157 — FoodNet, 2003                 | Submitted     |
| 2   | Elaine Scallan           | M. Mcmillian, T. Jones, P. Frenzen, A. Cronquist, S. Thomas, D. Vugia, R. Marcus, P. Ryan, C. Medus, F. Angulo  | Respiratory symptoms in persons with diarrhea: FoodNet Population Survey (2002-2003)                                   | Submitted     |
| 3   | Marcy McMillian          | T. Jones, E. Scallan, S. Thomas, A. Cronquist, P. Frenzen, F. Angulo  | Burden of Diarrheal Illness in FoodNet, 1996-2003  | Submitted     |
| 4   | Jennifer Nelson          | D. Vugia, A. Daniels, S. Hurd, M. Park, D. Blythe, S. Wedel, B. Anderson, A. Ingram, K. Joyce, F. J. Angulo, and the EIP FoodNet and NARMS Working Groups       | Increasing Incidence of Nalidixic Acid-Resistant <i>Salmonella</i> : FoodNet and NARMS 1996-2002                       | Submitted     |
| 5   | Alison Drake             | N. Ishill, D. Vugia, N. Haubert, R. Marcus, M. Megginson, C. Medus, S. Zansky, B. Shiferwa, D. Gerber, E. Scallan, EIP FoodNet Working Group;                   | Ethnic Disparities in Listeriosis Incidence, FoodNet 1996-2003   | Submitted     |
| 6   | Cindi Snider             | D. J. Vugia, S. Burnite, S. Hurd, T. Hayes, J. Scheftel, G. Smith, B. Shiferaw, E. Boothe, P. Griffin, and the EIP FoodNet Working Group                        | Post-Diarrheal Hemolytic Uremic Syndrome (D+HUS) in Adults, FoodNet, 1997-2002   | Submitted     |
| 7   | Cindi Snider             | S. Gettner, A. Cronquist, Q. Phan, C. Burnett, L. Edwards, E. Swanson, D. Morse, W. E. Keene, R. Woodruff, A. Fry, T. Jones, and the EIP FoodNet Working Group  | Reasons for Failure to Determine an Etiology in Foodborne Outbreaks, FoodNet, 2001-2002                                | Submitted     |
| 8   | Elizabeth Ailes          | N. Ishill, D. J. Vugia, A. Cronquist, S. Hurd, S. D. Segler, D. Blythe, E. Swanson, D. Hoefler, S. S. Hanna, E. Scallan and the EIP FoodNet Working Group       | Changes in the Incidence of the Top 10 <i>Salmonella</i> serotypes, FoodNet 1996-2003                                  | Submitted     |
| 9   | Katie Fullerton          | N. Ishill, D. J. Vugia, N. Haubert, S. Hurd, S. Ray, P. Ryan, S. Wedel, B. J. Anderson, T. Jones, K. Kretsinger, and the EIP FoodNet Working Group              | Trends in Population-Based Incidence of <i>Campylobacter</i> and <i>Salmonella</i> Among Infants in FoodNet, 1996-2003 | Submitted     |

**Steering Committee Proposal**  
**Centers for Disease Control and Prevention**  
**Emerging Infections Program**  
**Foodborne Diseases Active Surveillance Network (FoodNet)**

Proposed by: Janet Mohle-Boetani, Duc Vugia; California EIP

Title: Trends in risky food consumption among high risk and general adult populations

Date Submitted: June 2, 2004

Purpose: To determine trends in consumption of risky foods among populations at high risk for severe foodborne disease and among the general healthy adult population.

Proposal: Data from the first population survey (1996-1997) were analyzed to determine whether populations at high risk for severe foodborne disease (those 65 years old and older, those with immunosuppressing conditions, and those taking immunosuppressive medications) were heeding food safety messages by eating “risky” foods less than their healthy adult counterparts. We found that while the elderly did, the immunosuppressed did not (Samuel et al, manuscript in preparation).

For this study, we propose to use a similar approach to analyze subsequent population survey data (either for all three subsequent survey cycles or only for the latest survey) to assess changes or trends in the consumption of these same risky foods among these same high risk groups and the general adult population. Given recent decreases in incidence of some foodborne pathogens, it would be interesting to know whether there has been a coincident decrease in the consumption of risky foods among the high risk populations as well as the general population.

Data sources: FoodNet population surveillance data, cycles 2-4 or just cycle 4.

Timeline: To be determined.

Publication: To be determined.

**Steering Committee Proposal**  
**Centers for Disease Control and Prevention**  
**Emerging Infections Program**  
**Foodborne Diseases Active Surveillance Network (FoodNet)**

Proposed by: Sam Shin, Duc Vugia

Title: Effect of area-based socioeconomic status on incidence of *Salmonella* infection

Date Submitted: May 25, 2004

Purpose: To determine whether the incidence of *Salmonella* infection differs by socioeconomic status in FoodNet.

Proposal: Although substantial race/ethnic disparity in the incidence of foodborne illness has been documented, little is known regarding the effect of socioeconomic factors on incidence independent of race/ethnicity. We propose to use area-based socioeconomic measures (ABSMs) to explore the potential association between SES and *Salmonella* incidence rate. ABSMs have been validated and used in a number of studies to explore SES as a risk factor when individual measures are unavailable. The methodology would involve geocoding individual cases in FoodNet to census tract and/or block group by using the street address variable.

The data will be analyzed by comparing incidence rates at each SES-level, stratified by race/ethnicity, to determine if there are statistically significant differences. Poisson regression will be used to determine rate ratios among SES levels adjusted for race/ethnicity.

Data sources: FoodNet surveillance data of *Salmonella* infection, U.S. Census Bureau SF1 and SF3 Tables

Timeline: To be determined.

Publication: To be determined.