

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

Date: Tuesday, January 6, 2004 Update meeting for call scheduled Thursday, January 8, 2004
Time: 2:00-4:00 pm
Room: Bldg 3/Rm B-19
Numbers: Number: 888-405-9176 PassCode: 58895

A. Administrative

1. Welcome Nicole Ishill (CDC)!
2. ICEID abstract acceptance

B. Surveillance

1. 2003 data
2. HUS Surveillance
3. Outbreak table and line list

C. Proposals

1. Economic analyses to estimate the benefits of reducing cases of salmonellosis for various age-gender groups (Bradley Brown)
2. Bacterial Meningitis in the United States from 1996-2002 (Sarah Parks)
3. Analysis of trends in listeriosis in the FoodNet sites, 1996-2002 (Matt Moore)

D. Special studies

1. S. Newport, S. Enteritidis, Infant case-control studies
2. *Listeria* case-control study
3. *E. sakazakii* and infant formula

E. Miscellaneous topics

1. MMWR date (April 30, 2004)
2. *Listeria* case history form
3. Zhao S, et al. 2003. Characterization of *Salmonella enterica* Serotype Newport Isolated from Humans and Food Animals. J Clin Micro 41(12):5366-5371
4. Population Survey data reweighted

F. Upcoming FoodNet conference calls, meetings, and deadlines

- | | | | |
|---------------|----------------------|--------------------|--|
| 1. Thursday | Jan 8th | 11:00-12:00 pm EST | Attribution Working Group call |
| 2. Thursday | Jan 15th | 3:00-4:00 pm EST | HUS/STEC Working Group call |
| 3. Thursday | Jan. 15th | 3:00-4:00 pm EST | Outbreak Working Group call |
| 4. Friday | Jan. 16th | 2:00-3:00 pm EST | Norovirus Working Group call |
| 5. Tuesday | Jan. 20th | 8:00-9:00 am, EST | Int'l Collaboration of Foodborne Diseases call |
| 6. Tuesday | Jan. 20th | 5:00-6:00 pm, EST | Case Definition call (Int'l Collaboration) |
| 7. Tuesday | Jan. 27th | 2:00-3:00 pm EST | Interventions Working Group call |
| 8. Thursday | Jan. 29th | 2:00-3:00 pm, EST | FoodNet Coordinators call |
| 9. Tuesday | Feb. 10th | 2:00-4:00 pm EST | February Update meeting |
| 10. Thursday | Feb. 12th | 2:00-3:30 pm, EST | February Steering Committee call |
| 11. Sun-Wed | Feb.29-March 3, 2004 | | ICEID |
| 12. Monday | Mar. 8th | 2:00-3:00 pm EST | Infant Case-Control Study call |
| 13. Thurs-Fri | Mar. 25-26, 2004 | | FoodNet Vision Meeting |

G. Data Submission Deadlines

1. HUS Surveillance Data Wednesday, February 4th
2. FoodNet Active Data Friday, January 23rd

Date: 12-10-03

To: Jennifer Nelson, FoodNet, NCID, CDC
404-371-5409 (v); 404-371-5444 (f)

From: Bradley Brown, Economist, CFSAN, FDA
301-436-1551 (v); 301-436-2626 (f)

Regarding: Foodborne Disease Active Surveillance Network (FoodNet)
Steering Committee Proposal

Proposed by: Bradley Brown

Title: Economic analyses to estimate the benefits of reducing cases of Salmonellosis for various age-gender groups.

Submitted: 12-10-03

Purpose: The FDA CFSAN Economics Branch uses age distribution data to estimate variables like 'QALY' (quality adjusted life year), 'VSL' (value of a statistical life), and 'VSLY' (value of a statistical life year).

Currently the Economics Branch is working on a *Salmonella* related project and requires data to estimate the age-gender-illness severity distributions by year for persons that contract Salmonellosis. CFSAN will use the FN data in an economic analysis to estimate the benefits of reducing cases of Salmonellosis for different age-gender groups.

Dataset: Separate data sets from each available FN data source including case control studies, surveillance data, population surveys, etc.

Timeline: Continuing, as needed, analyses using the data provided for this proposal.

Publication: No separate stand-alone publications based upon this data are anticipated. However, estimates based on this data may be published, for example, in the Federal Register and in the Economics literature.

**Data Analysis Request For
Centers for Disease Control and Prevention
Emerging Infections Program
Foodborne Diseases Active Surveillance Network (FoodNet)
Phone: (404)-371-5409 Fax:(404)-371-5444**

Bradley Brown
Requestor's Name

12-10-03
Date Submitted

FDA CFSAN
Organization /Affiliation

January 26, 2004
Date Analysis Requested By

301-436-1551
Requestor's Contact Phone

301-436-2626
Requestor's Contact Fax

bradley.brown@cfsan.fda.gov
Requestor's Contact E-mail

Signature

Description of Request:

Research Question/Interest:

The FDA CFSAN Economics Branch uses age distribution data to estimate variables like 'QALY' (quality adjusted life year), 'VSL' (value of a statistical life), and 'VSLY' (value of a statistical life year).

Currently the Economics Branch is working on a *Salmonella* related project and requires data to estimate the age-gender-illness severity distributions by year of persons that contract Salmonellosis. CFSAN will use the FN data in economic analyses to estimate the benefits of reducing cases of Salmonellosis for different age-gender groups.

CFSAN Economic Branch requests raw FoodNet data in an Excel file format, containing the following variables for Salmonellosis cases by calendar year: age, gender, illness severity, race, ethnicity, and FN site for the years 1996 through 2003 (latest available data).

No other variables are requested. If the raw data can not be shared then please consider sharing univariate statistics for small-sized groups by year.

Dataset:	separate data sets from each available FN data source including case control studies, surveillance data, population surveys, etc.
Pathogen(s):	<i>Salmonella</i>
Serotype(s):	all
Year(s):	1996 to most recent available data
Sex(es):	male and female
Race(s):	all
Ethnicity:	all
Other Variables of Interest:	age, illness severity, FN site
Denominator:	populations for FN site catchment areas by year
Additional Request:	please include definitions for illness severity, race and ethnicity codes. If data is available from multiple sources please identify the data source.

CDC's Emerging Infections Program Foodborne Diseases Active Surveillance Network (FoodNet) Data Use Policy

I understand that I am responsible for the integrity and management of these datasets. The datasets will not be provided to a third party without the permission of the FoodNet Steering Committee. In the spirit of collaboration, I agree to keep the FoodNet Steering Committee informed of the results of analyses. In accordance with the FoodNet publication guidelines, I will not distribute the results of these analyses, electronically or otherwise, in the form of a poster, abstract, manuscript, report, press release, or other public presentation without the approval of the FoodNet Steering Committee.

If you have any questions about the data use policy, please contact FoodNet at 404-371-5465 or mailto: foodnet@cdc.gov.

<http://www.cdc.gov/foodnet>

Foodborne Diseases Active Surveillance Network (FoodNet)

Proposal: Bacterial Meningitis in the United States from 1996-2002

Lead Investigator: Sarah Y. Park, MD

Study Team: Anne Schuchat, MD; Nancy E. Rosenstein, MD; Cynthia G. Whitney, MD, MPH; Carolyn Wright; Active Bacterial Core Surveillance (ABCs) Team

Date Submitted: October 22, 2003

Purpose: The objective of the project is to analyze the epidemiologic characteristics and trends of bacterial meningitis from 1996-2002 and identify changes that may be due to or influenced by public health interventions implemented since 1995.

Timeline: Data from 1996-2002 collected already through ABCs system for other bacterial organisms in study. Plan to collect Listeriosis data from 1996-2002 to supplement ABCs data. Will conduct analysis of collected data over following 3-4 months. Will write a manuscript draft in the 2-3 months following analysis completion and will consider submitting draft in June 2004 to potentially Clinical Infectious Diseases.

Proposal: The Bacterial Meningitis Study Group and the ABCs Team have performed periodic reviews of CDC national surveillance data and examined trends in bacterial meningitis disease in the United States previously in 1986 (Wenger et. al., JID, 1990) and 1995 (Schuchat et. al., NEJM, 1997). We propose to perform a similar review of the national surveillance data for the next period, 1996-2002. We expect that the rates of cases due to specific organisms will have changed due to implementation of GBS prophylaxis guidelines and pneumococcal conjugate vaccine as well as potentially other public health interventions.

We will examine changes in total number of bacterial meningitis cases alone and in relation to total number of cases of invasive bacterial disease. We will also examine changes in rates of bacterial meningitis cases due to specific organisms to understand each organism's contribution to the rate of all bacterial meningitis cases together. Finally, we will examine changes in bacterial meningitis case rates occurring within age groups.

To supplement and complete the ABCs surveillance data that we have already, we require Listeria data for 1996-2002 from the following areas: California (San Francisco county), Connecticut, Georgia (Clayton, Cobb, DeKalb, Douglas, Fulton, Gwinnett, Newton, Rockdale counties), Maryland (Anne Arundel, Baltimore, Baltimore City, Carroll, Harford, Howard counties), Minnesota (Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, Washington counties), Oregon (Clackamas, Multnomah, Washington counties), and Tennessee (Davidson, Hamilton, Knox, Shelby, Williamson counties). Data of interest are specifically: the number of meningitis cases, the total number of invasive cases – per year and also for age groups (if age per case can be supplied, this would facilitate subsequent analysis), and the population of the areas. If possible, indication of whether underlying diseases, such as immunocompromise, is present for each case would also facilitate analysis.

In addition to 1996-2002 data from the locations listed above, we also require Listeria data from the following other areas for the year 2002 only: California (Alameda, Contra Costa counties), Colorado (Adams, Arapahoe, Denver, Douglas, Jefferson counties), Georgia (Barrow, Bartow, Carroll, Cherokee, Coweta, Fayette, Forsyth, Henry, Paulding, Pickens, Spalding, Walton counties), Minnesota (entire state), New York (Albany, Columbia, Genesee, Greene, Livingston, Monroe, Montgomery, Ontario, Orleans, Rensselaer, Saratoga, Schenectady, Schoharie, Wayne, Yates counties), and Tennessee (Cheatham, Dickson, Robertson, Rutherford, Sumner, Wilson counties).

By performing this review of recent bacterial meningitis trends in the United States, we hope to identify potential the impact of observed trends on the empiric management of sepsis/meningitis, especially in infants under 2 months old and also identify whether to consider different management between normal and immunocompromised hosts.

Foodborne Diseases Active Surveillance Network (FoodNet)

Proposal addendum:

Proposed timeline:

Completion of analysis: February 1, 2004

Outline of paper for review by working group: February 15, 2004

First draft of paper for review by working group: March 15, 2004

Submit draft to clearance: May 1, 2004

Submission to journal: June 1, 2004

In light of a request for these same data from another group, we will coordinate the analysis so as to avoid duplication of efforts and redundant publication. Matt Moore, who is joining the Respiratory Diseases Branch, will work with Sarah Park, who will be leading the meningitis analysis to ensure minimal overlap between the two analyses. He will also ensure that the meningitis paper is submitted to clearance through FDDB.

The following proposal was approved on the June 2003 Steering Committee Call

Proposal: Analysis of trends in listeriosis in the FoodNet sites, 1996-2002

Lead Investigators: Jenny Lay (CDC), Matt Moore (CDC)

Study Team: TBD

Date Submitted: June 12, 2003

Purpose: To describe trends in the incidence of listeriosis in FoodNet sites from 1996-2002.

Timeline: TBD

Proposal: To analyze FoodNet surveillance data on listeriosis cases from 1996-2002.

Poisson regression will be used to assess trends in incidence over time, including trends among different age, racial and ethnic groups (originally presented at the 2002 ICEID conference). The resulting manuscript will serve as a companion paper to the *Listeria* case-control study.

As of Dec 29, 2003																											
Infant Campy																											
	CA			CO			CT			GA			MN			NY			OR			TN			Total	Total	
	elig	enroll	%	Elig	Enroll	%																					
Mar-02	*	*	*	0	0	100%	1	1	100%	*	*	*	*	*	*	1	1	100%	0	0	100%	*	*	*	1	1	100%
Apr-02	*	*	*	0	0	100%	0	0	100%	*	*	*	*	*	*	4	3	75%	0	0	100%	0	0	100%	2	2	100%
May-02	0	0	100%	0	0	100%	1	1	100%	*	*	*	*	*	*	1	1	100%	1	1	100%	2	1	50%	1	0	0%
Jun-02	0	0	100%	1	1	100%	3	3	100%	*	*	*	*	*	*	1	1	100%	1	1	100%	0	0	100%	0	0	100%
Jul-02	2	1	50%	0	0	100%	1	1	100%	*	*	*	*	*	*	1	0	0%	0	0	100%	1	1	100%	1	1	100%
Aug-02	2	2	100%	2	2	100%	0	0	100%	2	0	0%	2	2	100%	2	1	50%	1	0	0%	0	0	100%	11	7	64%
Sep-02	2	1	50%	2	1	50%	1	1	100%	1	0	0%	2	2	100%	1	1	100%	3	2	67%	2	1	50%	14	9	64%
Oct-02	0	0	100%	1	0	0%	3	3	100%	0	0	100%	3	3	100%	2	2	100%	1	0	0%	2	2	100%	12	10	83%
Nov-02	0	0	100%	0	0	100%	2	2	100%	1	0	0%	1	1	100%	0	0	100%	3	2	67%	0	0	100%	7	5	71%
Dec-02	0	0	100%	1	1	100%	0	0	100%	1	1	100%	1	1	100%	1	1	100%	1	1	100%	0	0	100%	5	5	100%
Jan-03	2	2	100%	1	0	0%	0	0	100%	0	0	100%	1	1	100%	0	0	100%	0	0	100%	0	0	100%	4	3	75%
Feb-03	2	1	50%	0	0	100%	0	0	100%	0	0	100%	1	1	100%	0	0	100%	1	1	100%	0	0	100%	4	3	75%
Mar-03	1	0	0%	0	0	100%	2	2	100%	1	0	0%	0	0	100%	0	0	100%	2	2	100%	0	0	100%	6	4	67%
Apr-03	2	2	100%	1	1	100%	2	1	50%	2	2	100%	1	1	100%	0	0	100%	0	0	100%	1	1	100%	9	8	89%
May-03	2	2	100%	1	1	100%	1	1	100%	0	0	100%	1	0	0%	1	1	100%	1	1	100%	1	1	100%	8	7	88%
Jun-03	1	1	100%	0	0	100%	0	0	100%	1	0	0%	1	1	100%	1	1	100%	3	3	100%	1	1	100%	8	7	88%
Jul-03	1	0	0%	0	0	100%	3	2	67%	3	0	0%	2	1	50%	1	0	0%	1	1	100%	2	1	50%	13	5	38%
Aug-03	1	1	100%	1	1	100%	1	1	100%	0	0	100%	4	4	100%	0	0	100%	0	0	100%	2	1	50%	9	8	89%
Sep-03	4	3	75%	5	0	0%	1	0	0%	1	0	0%	0	0	100%	0	0	100%	0	0	100%	0	0	100%	11	3	27%
Oct-03	0	0	100%	2	1	50%	0	0	100%	1	0	0%	0	0	100%	0	0	100%	0	0	100%	1	1	100%	4	2	50%
Nov-03				1	0	0%	0	0	100%	0	0	100%	2	1	50%	1	0	0%	1	0	0%	0	0	100%	5	1	20%
Dec-03							0	0	100%	0	0	100%													0	0	#DIV/0!
Jan-04																											
Feb-04																											
Mar-04																											
Apr-04																											
May-04																											
Jun-04																											
Jul-04																											
TOTAL	22	16	73%	19	9	47%	22	19	86%	14	3	21%	29	24	83%	13	10	77%	21	15	71%	17	13	76%	157	109	69%
enrollment pending																											

As of Dec 29, 2003																											
Infant Salmonella																											
	CA			CO			CT			GA			MN			NY			OR			TN			Total	Total	
	elig	enroll	%	Elig	Enroll	%																					
Mar-02	*	*	*	0	0	100%	3	3	100%	*	*	*	*	*	*	1	1	100%	1	1	100%	1	1	100%	5	5	100%
Apr-02	*	*	*	4	4	100%	1	1	100%	*	*	*	1	1	100%	4	3	75%	1	0	0%	8	5	63%	19	14	74%
May-02	0	0	100%	1	1	100%	2	2	100%	*	*	*	1	1	100%	5	5	100%	2	2	100%	3	3	100%	14	14	100%
Jun-02	5	4	80%	4	3	75%	1	1	100%	9	4	44%	1	1	100%	2	2	100%	2	2	100%	8	5	63%	32	22	69%
Jul-02	2	2	100%	3	3	100%	3	2	67%	11	3	27%	1	1	100%	2	2	100%	0	0	100%	8	5	63%	30	18	60%
Aug-02	2	2	100%	6	5	83%	6	5	83%	11	4	36%	7	7	100%	1	1	100%	3	3	100%	10	7	70%	46	34	74%
Sep-02	4	1	25%	2	2	100%	4	3	75%	11	2	18%	3	3	100%	2	0	0%	1	1	100%	12	9	75%	39	21	54%
Oct-02	2	2	100%	3	3	100%	5	3	60%	8	3	38%	5	3	60%	1	1	100%	0	0	100%	4	4	100%	28	19	68%
Nov-02	1	0	0%	2	2	100%	4	4	100%	13	8	62%	3	2	67%	0	0	100%	2	2	100%	8	6	75%	33	24	73%
Dec-02	1	0	0%	3	3	100%	4	1	25%	7	3	43%	1	1	100%	2	2	100%	0	0	100%	10	9	90%	28	19	68%
Jan-03	4	4	100%	2	2	100%	3	2	67%	5	1	20%	4	3	75%	2	1	50%	1	1	100%	3	0	0%	24	14	58%
Feb-03	3	3	100%	1	1	100%	2	1	50%	7	5	71%	0	0	100%	4	2	50%	1	0	0%	3	3	100%	21	15	71%
Mar-03	0	0	100%	2	1	50%	1	0	0%	4	4	100%	0	0	100%	1	0	0%	2	2	100%	3	3	100%	13	10	77%
Apr-03	2	1	50%	4	3	75%	4	4	100%	2	1	50%	0	0	100%	3	2	67%	1	1	100%	6	5	83%	22	17	77%
May-03	1	1	100%	3	3	100%	4	4	100%	7	1	14%	2	2	100%	1	1	100%	2	2	100%	3	3	100%	23	17	74%
Jun-03	5	5	100%	2	1	50%	2	2	100%	13	6	46%	1	1	100%	1	1	100%	2	2	100%	2	2	100%	28	20	71%
Jul-03	7	4	57%	2	1	50%	3	2	67%	6	4	67%	5	4	80%	1	0	0%	1	0	0%	3	2	67%	28	17	61%
Aug-03	2	1	50%	0	0	100%	4	3	75%	12	8	67%	1	1	100%	1	1	100%	2	1	50%	2	2	100%	24	17	71%
Sep-03	2	2	100%	5	3	60%	3	2	67%	5	3	60%	7	7	100%	2	1	50%	3	3	100%	7	4	57%	34	25	74%
Oct-03	4	0	0%	1	1	100%	1	0	0%	10	7	70%	4	3	75%	2	2	100%	1	0	0%	7	4	57%	30	17	57%
Nov-03				1	0	0%	1	1	100%	7	3	43%	4	4	100%	2	1	50%	4	2	50%	2	2	100%	21	13	62%
Dec-03							0	0	100%	2	0	0%													2	0	0%
Jan-04																											
Feb-04																											
Mar-04																											
Apr-04																											
May-04																											
Jun-04																											
Jul-04																											
TOTAL	47	32	68%	51	42	82%	61	46	75%	150	70	47%	51	45	88%	40	29	73%	31	24	77%	113	84	74%	544	372	68%

As of Dec 29, 2003																											
Infant Controls																											
	CA			CO			CT			GA			MN			NY*			OR			TN			Total	Total	
	goal	enroll	%	Goal	Enroll	%																					
Mar-02	*	*	*	0	0	0%	3	3	100%	*	*	*	*	*	*	3	3	100%	*	*	*	4	4	100%	10	10	100%
Apr-02	*	*	*	6	5	83%	3	3	100%	*	*	*	9	9	100%	1	1	100%	2	2	100%	1	1	100%	22	21	95%
May-02	5	0	0%	3	1	33%	5	5	100%	*	*	*	7	7	100%	3	3	100%	4	4	100%	8	8	100%	35	28	80%
Jun-02	6	4	67%	3	0	0%	4	4	100%	11	9	82%	8	7	88%	3	3	100%	4	4	100%	11	11	100%	50	42	84%
Jul-02	7	6	86%	1	0	0%	8	8	100%	12	8	67%	9	9	100%	3	3	100%	4	4	100%	6	6	100%	50	44	88%
Aug-02	6	6	100%	2	1	50%	5	5	100%	13	7	54%	10	10	100%	4	4	100%	5	5	100%	9	9	100%	54	47	87%
Sep-02	10	11	110%	4	4	100%	4	4	100%	9	10	111%	10	10	100%	2	2	100%	3	3	100%	8	8	100%	50	52	104%
Oct-02	6	6	100%	3	3	100%	6	6	100%	11	9	82%	6	6	100%	2	2	100%	5	4	80%	7	7	100%	46	43	93%
Nov-02	5	5	100%	3	2	67%	2	2	100%	12	11	92%	10	10	100%	3	3	100%	3	3	100%	4	4	100%	42	40	95%
Dec-02	3	3	100%	1	1	100%	4	4	100%	16	15	94%	6	6	100%	0	0	0%	4	4	100%	3	3	100%	37	36	97%
Jan-03	5	5	100%	5	5	100%	1	1	100%	11	10	91%	5	5	100%	2	2	100%	6	6	100%	8	9	113%	43	43	100%
Feb-03	5	5	100%	1	1	100%	2	1	50%	7	7	100%	7	7	100%	1	1	100%	3	3	100%	4	4	100%	30	29	97%
Mar-03	4	4	100%	2	2	100%	3	3	100%	9	9	100%	6	6	100%	2	2	100%	4	4	100%	3	3	100%	33	33	100%
Apr-03	3	3	100%	3	2	67%	2	2	100%	9	7	78%	7	7	100%	1	1	100%	3	3	100%	3	3	100%	31	28	90%
May-03	5	5	100%	2	1	50%	5	5	100%	8	8	100%	6	6	100%	2	2	100%	4	4	100%	6	6	100%	38	37	97%
Jun-03	6	6	100%	1	1	100%	5	5	100%	11	11	100%	5	4	80%	4	4	100%	4	3	75%	7	6	86%	43	40	93%
Jul-03	7	7	100%	3	3	100%	7	7	100%	13	13	100%	10	10	100%				4	4	100%	8	7	88%	52	51	98%
Aug-03	5	5	100%	3	0	0%	4	4	100%	11	11	100%	9	9	100%				4	4	100%	10	9	90%	46	42	91%
Sep-03	7	7	100%	3	2	67%	4	4	100%	11	7	64%	8	8	100%				3	3	100%	12	12	100%	48	43	90%
Oct-03	6	6	100%	4	4	100%	5	5	100%	9	8	89%	5	5	100%				3	3	100%	6	6	100%	38	37	97%
Nov-03				0	1		2	2	100%	11	10	91%	5	5	100%				3	3	100%	5	5	100%	26	26	100%
Dec-03							2	2	100%															2	2	100%	
Jan-04																											
Feb-04																											
Mar-04																											
Apr-04																											
May-04																											
Jun-04																											
Jul-04																											
TOTAL	101	94	93%	53	39	74%	86	85	99%	194	170	88%	148	146	99%	36	36	100%	75	73	97%	133	131	98%	826	774	94%

* As of July 1st, NYS is no longer able to enroll controls using Vital Records data. We have submitted an alternative to IRB and hope to begin enrollment of controls again in January.