



Public Health Service
DEPARTMENT OF HEALTH & HUMAN SERVICES
Centers for Disease Control and Prevention (CDC)

Memorandum

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(proposed)
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Subject: Non-O157 Shiga toxin-producing *E. coli* (STEC) outbreaks, United States

To: The Record

We summarized non-O157 Shiga toxin-producing *E. coli* (STEC) outbreaks in the United States through 2008. Outbreaks of foodborne and waterborne diseases have been reported to CDC since the 1970s. In 2009, CDC's National Outbreak Reporting System (NORS), which collects these reports, also began collecting reports of outbreaks of enteric infections caused by exposure to animals or by person-to-person spread.

The preliminary data in the table included in this memo were obtained primarily from reports voluntarily made by state health departments to CDC. In 2010, we supplemented NORS data on non-O157 STEC outbreaks by contacting state and federal health agencies, by reviewing the scientific literature, and by other methods. Our contacts with agencies that reported data to NORS resulted in some modifications to the NORS data that have not yet been made in the NORS database. We found 27 outbreaks through 2008 that involved at least one serogroup of non-O157 STEC. Only one death has been associated with a non-O157 STEC outbreak, an outbreak of *E. coli* O111 infections in 2008 in Oklahoma.

Outbreaks of non-O157 Shiga toxin-producing *E. coli* (STEC) infections, United States, through 2008 (preliminary data compiled by CDC, subject to change)

Year	Month	State	<i>E. coli</i> Serogroup	Other pathogens	Setting	Vehicle (confirmed or suspected)	Associated with ill food worker(s) ^a	Total ill ^b	Reported hospitalizations ^c	HUS reported
1990	Apr	Ohio	O111		Home/family outbreak	Unknown	Unknown	5	1	Yes
1994	Feb	Montana	O104		Home	Pasteurized milk	No	18	4	No
1998	Oct	Montana	O121		Camp	Unknown	Unknown	8	0	No
1999	Jun	Texas	O111		Camp	Salad bar; ice from barrel	No	55	2	Yes
1999	Jul	Connecticut	O121		Community	Recreational lake water	No	11	3	Yes
1999	Dec	Minnesota	O145		Daycare	Person-to-person	No	2	0	No
2000	Jun	Minnesota	O111	<i>Cryptosporidium</i> , <i>Campylobacter</i> , <i>Salmonella</i>	Camp	Animal contact (calves)	No	59	1	No
2000	Jul	Washington	O103		Banquet hall	Water-based punch	No	18	2	Yes
2000	Aug	Utah	O111	<i>Campylobacter</i> , <i>E. coli</i> O157:H7	Camp	Irrigation water	No	102	0	No
2001	Jun	Minnesota	O111 and O51	<i>Cryptosporidium</i> , <i>E. coli</i> O157:H7	Camp	Animal contact (calves)	No	25	2	No
2001	Aug	Minnesota	O26		Swimming beach	Recreational lake water	No	4	0	No
2001	Sept	South Dakota	O111		Daycare	Person-to-person	No	3	0	No
2004	Sept	New York	O111	<i>Cryptosporidium</i>	Community	Unpasteurized apple cider	No	212	14	No
2005	Unknown	Nevada	O26		Daycare	Person-to-person	No	4	0	No
2005	May	Oregon	O145	<i>E. coli</i> O157:H7, <i>Campylobacter</i>	Camp	Drinking water	No	60	0	No
2005	Aug	New York	O45		Correctional facility	Ill food worker(s)	Yes	52	3	No
2006	Apr	North Carolina	O45		Family farm	Animal contact (goats)	No	11	0	No
2006	Jun	Nebraska	O121		Daycare	Person-to-person	No	5	5	Yes
2006	Jul	Utah	O121		Catered event	Lettuce	No	42	3	Yes
2006	Jul	Massachusetts	O26		Community	Strawberries, or blueberries, or both	No	5	1	No
2007	Mar	Maine	O111	<i>Cryptosporidium</i>	Daycare	Person-to-person	No	8	0	No

Outbreaks of non-O157 Shiga toxin-producing *E. coli* (STEC) infections, United States, through 2008, continued (preliminary data compiled by CDC, subject to change)

Year	Month	State	<i>E. coli</i> serogroup	Other pathogens	Setting	Vehicle (confirmed or suspected)	Associated with ill food worker(s) ^a	Total ill ^b	Reported hospitalization ^c	HUS Reported
2007	Apr	North Dakota	O111		Elementary school	Person-to-person	No	6	1	No
2007	Jul	North Dakota	O111		Private home (wedding reception)	Ground beef	No	23	0	No
2007	Jul	Colorado	O121, O26, and O84		Correctional facility	Pasteurized American cheese, margarine	Yes	135	10	No
2007	Oct	New Hampshire	O45		Fair (petting zoo)	Animal contact	No	5	0	No
2008	Aug	Oklahoma	O111		Restaurant	Unknown	Yes	344	71	Yes
2008	Sept	Minnesota	O111		Daycare	Person-to-person	No	3	0	No

^aIncludes confirmed and possible association with ill food worker(s)

^bIncludes confirmed and suspected cases

^cInformation about hospitalization may not have been obtained for all persons