

Weekly

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Nonfatal Fall-Related Injuries Associated with Dogs and Cats – United States, 2001–2006

Falls are the leading cause of nonfatal injuries in the United States. In 2006, nearly 8 million persons were treated in emergency departments (EDs) for fall injuries (1). Pets might present a fall hazard (2), but few data are available to support this supposition. To assess the incidence of fall-related injuries associated with cats and dogs, CDC analyzed data from the National Electronic Injury Surveillance System All Injury Program (NEISS-AIP) for the period 2001–2006. This report describes the results of that analysis, which showed that an estimated average of 86,629 fall injuries each year were associated with cats and dogs, for an average annual injury rate of 29.7 per 100,000 population. Nearly 88% of injuries were associated with dogs, and among persons injured, females were 2.1 times more likely to be injured than males. Prevention strategies should focus on 1) increasing public awareness of pets and pet items as fall hazards and of situations that can lead to fall injuries and 2) reinforcing American Veterinary Medical Association recommendations emphasizing obedience training for dogs (3).

NEISS-AIP is operated by the U.S. Consumer Product Safety Commission (CPSC). The program collects data on initial visits for all injuries treated in EDs from a nationally representative stratified probability sample of 66 hospitals in the United States (4). Data on the most severe injury for each case are abstracted from medical records. Data include age, sex, location, primary diagnosis (based on a system developed by CPSC), primary part of the body injured, disposition, up to two CPSC product codes, and a two-line summary narrative describing the circumstances of the injury.

A case was defined as an unintentional, nonfatal fall injury treated in an ED during 2001–2006 with a record that either included the product code 2001 (animal-induced injury) or had "pet," "dog," "cat," "puppy," or "kitten" mentioned in the narrative. A total of 7,826 records were identified initially. The

narrative for each record was reviewed, and 370 cases were excluded because the fall did not involve a dog or cat, or a pet or pet item was not directly involved in the fall (e.g., "patient jumped off a fence and fell onto a doghouse."). The type of pet (dog or cat), location, activity, and circumstances at the time of the fall were categorized and coded based on the information in the narrative. For the analyses of dogs and cats separately, 23 cases that involved both cats and dogs were excluded; dogrelated injuries were combined when cases involved one or more dogs, and cat-related injuries were combined when cases involved one or more cats.

Each case was weighted based on the inverse probability of the hospital being selected, and the weights were summed to produce national estimates. Rates per 100,000 population were calculated using U.S. Census Bureau population estimates*; 95% confidence intervals (CIs) were calculated using a direct variance estimation procedure that accounted for the sample weights and complex sampling design. Estimates based on <20 cases or with a coefficient of variation >30% were considered unstable, and the rates and CIs were not reported.

Based on 7,456 cases recorded in NEISS-AIP, an estimated average of 86,629 fall injuries associated with cats and dogs occurred in the United States each year during 2001–2006, for an average annual injury rate of 29.7 per 100,000 population

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^{*} Available at http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge. htm.

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(Table 1). Nearly 7.5 times as many injuries involved dogs (76,223 [88.0%]) compared with cats (10,130 [11.7%]), and females were 2.1 times more likely to be injured than males. Injuries were most frequent among persons aged 0–14 years and 35–54 years. The most common injuries and the highest injury rates were for fractures and contusions/abrasions, and the highest fracture rates occurred among persons aged 75–84 years and \geq 85 years. Among hospitalized patients, 79.9% were admitted for fractures.

Substantially higher injury rates were associated with dogs compared with cats (Table 2). Injury rates associated with dogs and those associated with cats both increased with age, although rates of injuries associated with dogs increased more rapidly, especially after age 64 years. Rate ratios (RRs) (dogs/ cats) were highest among persons aged 0–14 years (RR = 12.9) and 65–74 years (RR = 10.5) and lowest among persons aged \geq 85 years (RR = 4.9). Fractures and contusions/abrasions accounted for 57.1% of the injuries among males and 55.3% of those among females.

Injuries to the extremities accounted for 51.8% of injuries associated with dogs and 47.6% of injuries associated with cats (Table 3). The proportion of patients hospitalized or transferred was similar whether the injuries were associated with dogs (7.8%) or cats (10.4%). The majority of fall injuries occurred inside or in the immediate environment outside the home. Among falls involving dogs, 61.6% occurred in or around the home, and 16.4% in the street or other public place. A location was not specified for 20.3% of cases. Twenty-six percent of falls involving dogs occurred while persons were walking them, and the most frequent circumstances were falling or tripping over a dog (31.3%) and being pushed or pulled by a dog (21.2%). Falling over a pet item (e.g., a toy or food bowl) accounted for 8.8% of fall injuries. Approximately 38.7% involved other or unknown circumstances.

Most falls involving cats occurred at home (85.7%). Approximately 11.7% of injuries occurred while persons were chasing cats. However, an activity was not specified in 62.1% of cases. The most frequent circumstances were falling or tripping over a cat (66.4%.); 29.2% involved other or unknown circumstances.

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Editorial Note: In 2006, persons in approximately 43 million U.S. households owned dogs, and persons in 37.5 million households owned cats (5); nearly 64% of households with pets had more than one pet. With the exception of one small study (2), falls associated with pets have not been addressed previously in the scientific literature. This report provides the first national estimates of fall injuries associated with cats and

TABLE 1. Average annual estimated number, percentage, and rate of nonfatal, unintentional, pet-related fall injury cases treated in hospital emergency departments, by type of pet, sex, age group, diagnosis, part of the body injured, and disposition — United States, 2001–2006*

	Injuries											
Characteristic	No.	Weighted estimate	Average annual estimate	%	Average annual rate	(95% Cl†)						
Total	7,456	519,776	86,629	100.0	29.7	(24.5–34.8)						
Pet involved in injury												
1 dog	6,201	428,712	71,452	82.5	24.5	(20.4-28.6)						
1 cat	805	58,623	9,771	11.3	3.3	(2.6–4.1)						
>1 cat	27	2,155	359	0.4	§	_						
>1 dog	400	28,627	4,771	5.5	1.6	(1.2–2.1)						
Cat and dog	23	1,659	277	0.3	§	—						
Sex of injured person												
Male	2,437	162,516	27,086	31.3	18.9	(15.6–22.1)						
Female	5,017	357,120	59,520	68.7	40.1	(33.0–47.3)						
Unspecified	2	139	23	0.0	§	_						
Age group (yrs)												
0–14	1,578	80,902	13,484	15.6	22.2	(18.2-26.3)						
15–24	515	38,282	6,380	7.4	15.5	(12.8–18.1)						
25–34	745	55,521	9,253	10.7	23.2	(18.7–27.7)						
35–44	986	75,886	12,648	14.6	28.6	(22.7–34.5)						
45–54	1,149	82,474	13,746	15.9	33.3	(27.2–39.4)						
55–64	862	60,624	10,104	11.7	35.6	(28.3–42.8)						
65–74	695	52,531	8,755	10.1	47.3	(37.1–57.6)						
75–84	670	53,179	8,853	10.2	68.8	(54.6-82.9)						
<u>≥</u> 85	256	20,378	3,396	3.9	70.6	(50.9–90.2)						
Primary injury diagnosis												
Fracture	2,307	159,651	26,609	30.7	9.1	(7.3–10.9)						
Contusions/Abrasions	1,860	136,279	22,713	26.2	7.8	(6.4–9.2)						
Strain/Sprain	1,326	97,700	16,283	18.8	5.6	(4.6-6.6)						
Laceration	1,002	66,744	11,124	12.8	3.8	(3.1–4.6)						
Internal injury	404	21,886	3,648	4.2	1.2	(0.8–1.7)						
Other/Unknown	557	37,516	6,253	7.2	2.1	(1.6–2.7)						

* Cases were reported by the National Electronic Injury Surveillance System – All Injury Program (NEISS-AIP). Each case was weighted based on the inverse probability of the hospital being selected, and the weights were summed to produce national estimates. Rates per 100,000 population were calculated using U.S. Census Bureau population estimates; 95% confidence intervals were calculated using a direct variance estimation procedure that accounted for the sample weights and complex sampling design.

[†]Confidence interval.

§ Unstable estimate because count <20 or coefficient of variation >30%.

TABLE 2. Average annual estimated number, percentage, and rate of nonfatal unintentional fall injury cases associated with dogs
and cats treated in hospital emergency departments, by sex, age group, diagnosis, part of the body injured, and disposition —
United States, 2001–2006*

		Do	ogs						
Characteristic	Average annual estimate	%	Average annual rate	(95% CI [†])	Average annual estimate	%	Average annual rate	(95% CI)	Rate ratio
Total	76,223	100.0	26.1	(21.7–30.5)	10,130	100.0	3.5	(2.7–4.3)	7.5
Sex									
Male	24,152	31.7	16.8	(13.9–19.8)	2,890	28.5	2.0	(1.6–2.4)	8.4
Female	52,048	68.3	35.1	(29.1–41.1)	7,240	71.5	4.9	(3.7–6.1)	7.2
Unspecified	23	0.0	§		0	0.0	§		—
Age group (yrs)									
0–14	12,502	16.4	20.6	(16.8–24.4)	954	9.4	1.6	(1.0-2.2)	12.9
15–24	5,604	7.4	13.6	(11.2–16.0)	776	7.7	1.9	(1.3 - 2.5)	7.2
25–34	7,980	10.5	20.0	(16.2–23.8)	1,208	11.9	3.0	(2.1 - 4.0)	6.7
35–44	10,875	14.3	24.6	(19.6–29.5)	1,733	17.1	3.9	(2.8–5.0)	6.3
45–54	11,971	15.7	29.0	(24.0-34.1)	1,711	16.9	4.2	(2.8 - 5.5)	6.9
55–64	8,831	11.6	31.1	(24.9–37.3)	1,238	12.2	4.4	(2.7-6.0)	7.1
65–74	7,981	10.5	43.2	(33.5–52.8)	760	7.5	4.1	(2.9 - 5.3)	10.5
75–84	7,666	10.1	59.5	(47.3–71.1)	1,173	11.6	9.1	(5.9–12.3)	6.5
≥85	2,812	3.7	58.4	(41.2–75.6)	577	5.7	12.0	(6.2–17.8)	4.9

TABLE 2. (*Continued*) Average annual estimated number, percentage, and rate of nonfatal unintentional fall injury cases associated with dogs and cats treated in hospital emergency departments, by sex, age group, diagnosis, part of the body injured, and disposition — United States, 2001–2006*

		Do	ogs			Cats					
Characteristic	Average annual estimate	%	Average annual rate	(95% Cl [†])	Average annual estimate	%	Average annual rate	(95% CI)	Rate ratio		
Primary injury diagnosis											
Fracture	23,498	30.8	8.1	(6.5–9.6)	3,031	29.9	1.0	(0.8–1.3)	8.1		
Contusions/Abrasions	20,025	26.3	6.9	(5.7–8.0)	2,568	25.4	0.9	(0.6–1.1)	7.7		
Strain/Sprain	14,106	18.5	4.8	(4.0-5.7)	2,138	21.1	0.7	(0.5–0.9)	6.9		
Laceration	9,883	13.0	3.4	(2.7–4.1)	1,237	12.2	0.4	(0.3–0.6)	8.5		
Internal injury	3,263	4.3	1.1	(0.7 - 1.5)	370	3.7	0.1	(0.1–0.2)	11.0		
Other/Unknown	5,447	7.1	1.9	(1.4–2.3)	785	7.7	0.3	(0.1–0.4)	6.3		

* Cases were reported by the National Electronic Injury Surveillance System – All Injury Program (NEISS-AIP). Each case was weighted based on the inverse probability of the hospital being selected, and the weights were summed to produce national estimates. Rates per 100,000 population were calculated using U.S. Census Bureau population estimates; 95% confidence intervals were calculated using a direct variance estimation procedure that accounted for the sample weights and complex sampling design.

[†]Confidence interval.

§ Unstable estimate because count <20 or coefficient of variation >30%.

TABLE 3. Average annual estimated number and percentage of nonfatal unintentional fall injury cases associated with dogs and cats treated in hospital emergency departments, by location, activity, and circumstances — United States, 2001–2006*

		Dogs		Cats					
	Average annual	•	(070) 011	Average annual					
Characteristic	estimate	%	(95% CI ⁺)	estimate	%	(95% CI)			
Primary part of body injured									
Arm/Hand	20,421	26.8	(22.2–31.4)	2,769	27.3	(19.5–35.2)			
Head/Neck	18,089	23.7	(19.1–28.4)	2,305	22.8	(16.9–28.6)			
Leg/Foot	19,047	25.0	(20.6–29.4)	2,056	20.3	(15.5–25.1)			
Upper trunk	10,271	13.5	(10.8–16.1)	1,572	15.5	(10.8–20.2)			
Lower trunk	8,110	10.6	(8.2–13.1)	1,390	13.7	(8.6–18.8)			
Other/Unknown	285	0.4	(0.1–0.6)	37	0.4	§			
Disposition									
Treated and released	70,098	92.0	(76.6–107.4)	9,066	89.5	(69.4–110.6)			
Hospitalized or transferred	5,929	7.8	(5.9–9.6)	1,056	10.4	(6.5–14.3)			
Other/Unknown	196	0.3	§	7	0.1	§			
Location									
Home	46,987	61.6	(49.7–73.6)	8,682	85.7	(66.2–105.2)			
Street	7,945	10.4	(6.6–14.2)	52	0.5	§			
Public	4,591	6.0	(4.3–7.7)	98	1.0	§			
Sports	1,049	1.4	(0.4–2.4)	0	0.0	_			
Other	156	0.2	§	4	0.0	—			
Unknown	15,495	20.3	(13.9–26.8)	1,293	12.8	(7.2–18.3)			
Activity									
Walking pet	19,834	26.0	(20.5-31.6)	40	0.4	§			
Caring for pet	3,929	5.2	(3.6–6.8)	923	9.1	(6.2–12.1)			
Playing with pet	3,372	4.4	(3.3–5.5)	232	2.3	§			
Chasing pet	3,779	5.0	(4.0-5.9)	1,182	11.7	(8.5-14.8)			
Running from pet	2,399	3.1	(2.6–3.7)	43	0.4	§			
Running with pet [¶]	995	1.3	(0.9–1.7)	0	0.0	_			
Breaking up pet fight	449	0.6	(0.3–0.9)	18	0.2	§			
Stepping over pet	414	0.5	\$	245	2.4	§			
Attacked by pet	268	0.4	(0.2–0.5)	20	0.2	§			
Other	5,671	7.4	(5.8–9.0)	1,140	11.3	(8.1–14.4)			
Unknown	35,112	46.1	(37.7–54.5)	6,287	62.1	(45.6-78.5)			
Circumstances									
Fell or tripped over pet	23,886	31.3	(25.8–36.8)	6,727	66.4	(49.3-83.5)			
Pushed or pulled by pet	16,137	21.2	(16.8-25.6)	91	0.9	§			
Fell over pet item	6,731	8.8	(6.9–10.8)	354	3.5	§			
Other	12,573	16.5	(12.5–20.5)	1,584	15.6	(10.4-20.9)			
Unknown	16,895	22.2	(19.0–25.3)	1,373	13.6	(10.5–16.6)			

* Cases were reported by the National Electronic Injury Surveillance System – All Injury Program (NEISS-AIP). Each case was weighted based on the inverse probability of the hospital being selected, and the weights were summed to produce national estimates. Rates per 100,000 population were calculated using U.S. Census Bureau population estimates; 95% confidence intervals were calculated using a direct variance estimation procedure that accounted for the sample weights and complex sampling design.
† Confidence interval.

§ Unstable estimate because count <20 or coefficient of variation >30%.

¹ Includes skateboarding and rollerblading.

dogs and supports anecdotal evidence that pets present a fall hazard. The findings indicate that, in 2006, cats and dogs were associated with approximately 1% of the estimated 8 million fall injuries treated in EDs (1) and affected persons of all ages. Walking dogs and chasing pets were associated with the greatest number of injuries, although details about the circumstances surrounding these falls were limited. The development of more effective prevention strategies will require more information about the risks for fall injury associated with specific pets (including size and breed), and pet-human interactions.

The analysis showed that the highest rates of injuries occurred among persons aged \geq 75 years, and the most common diagnosis was fracture. Although no specific information was available on the rate of hip fracture, such fractures would be among the most serious injuries. Among older adults, hip fractures can result in serious health consequences, such as long-term functional impairments, nursing home admission, and increased mortality (6).

The findings in this report are subject to at least four limitations. First, the number of injuries likely was underestimated because the data included only injuries treated in EDs. The study did not include injuries treated in physician offices, in other outpatient settings, or at home, or injuries that did not receive medical attention. Second, the amount of information about the location, activity, and circumstances of the falls was incomplete (e.g., activity was unknown in 46.1% of dog-related injuries and 62.1% of cat-related injuries), so only limited conclusions can be drawn on the basis of these data. Third, information provided about the breed or size of dog rarely was available. Finally, NEISS-AIP was designed to provide only national estimates and cannot provide state or local estimates.

Dog and cat ownership is increasing in the United States in concert with a rising population of older persons, in whom injuries might have the greatest health consequences. Prevention measures for fall injuries should be balanced against the known health benefits of pet ownership (5). The likelihood of pet-related falls can be reduced by 1) raising public awareness that certain situations or activities, such as walking dogs and chasing pets, can lead to falls; 2) increasing recognition that pets and pet items can cause falls; and 3) reinforcing American Veterinary Medical Association recommendations emphasizing obedience training for dogs (β) to minimize behaviors associated with falls (e.g., pushing or pulling).

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Application of Lower Sodium Intake Recommendations to Adults – United States, 1999–2006

In 2005-2006, an estimated 29% of U.S. adults had hypertension (i.e., high blood pressure), and another 28% had prehypertension (1). Hypertension increases the risk for heart disease and stroke (2), the first and third leading causes of death in the United States (3). Greater consumption of sodium can increase the risk for hypertension (4). The main source of sodium in food is salt (sodium chloride [NaCl]); uniodized salt is 40% sodium by weight. In 2005-2006, the estimated average intake of sodium among persons in the United States aged ≥ 2 years was 3,436 mg/day (5). In 2005, the U.S. Department of Health and Human Services and U.S. Department of Agriculture recommended that adults in the United States should consume no more than 2,300 mg/day of sodium (equal to approximately 1 tsp of salt), but those in specific groups (i.e., all persons with hypertension, all middleaged and older adults, and all blacks) should consume no more than 1,500 mg/day of sodium (6). To estimate the proportion of the adult population for whom the lower sodium recommendation is applicable, CDC analyzed data from the National Health and Nutrition Examination Survey (NHANES) for the period 1999–2006. The results indicated that, in 2005–2006, the lower sodium recommendation was applicable to 69.2% of U.S. adults. Consumers and health-care providers should be aware of the lower sodium recommendation, and health-care providers should inform their patients of the evidence linking greater sodium intake to higher blood pressure.

NHANES is an ongoing series of cross-sectional surveys on health and nutrition designed to be nationally representative of the noninstitutionalized, U.S. civilian population by using a complex, multistage probability design. All NHANES surveys include a household interview followed by a detailed

physical examination, including blood pressure tests.* Data from four NHANES survey periods (1999–2000, 2001–2002, 2003-2004, and 2005-2006) were used to estimate the percentages of U.S. adults in the three risk groups for whom lower sodium intake of $\leq 1,500$ mg/per day was recommended in 2005.[†] To represent the three risk groups, three nonoverlapping populations were defined for the analysis: all adults aged ≥ 20 years with hypertension, all adults aged ≥ 40 years without hypertension, and blacks aged 20-39 years without hypertension (6). Participants first were categorized as having hypertension or not having hypertension, using an average of two or more blood pressure measurements (87% of the sample had three or more measurements). Hypertension was defined as having systolic blood pressure of \geq 140 mm Hg, or diastolic blood pressure of ≥ 90 mm Hg, or taking antihypertension medication; prehypertension was defined as systolic blood pressure of 120-139 mm Hg or diastolic blood pressure of 80-89 mm Hg, and not taking antihypertension medication. Overall for the four survey periods, 22% of participants with hypertension had normal blood pressure readings but were categorized with hypertension because they self-reported taking antihypertension medication. Percentage estimates and 95% confidence intervals (CIs) were calculated using statistical software to account for nonresponse and complex sampling design. The significance of linear trend across survey periods was determined by using orthogonal polynomial coefficients calculated recursively.

Overall in 2005–2006, 69.2% of U.S. adults aged \geq 20 years (approximately 145.5 million persons) met the criteria for the risk groups recommended for lower sodium consumption of \leq 1,500 mg/day. Among adults aged \geq 20 years, 30.6% were found to have hypertension; 34.4% did not have hypertension but were aged \geq 40 years, and 4.2% did not have hypertension

but were black and aged 20–39 years (Table). The overall percentage of persons in these risk groups increased significantly over the four NHANES study periods: 64.4% in 1999–2000, 67.4% in 2001–2002, 69.0% in 2003–2004, and 69.2% in 2005–2006 (p for linear trend = 0.05) (Table).

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Editorial Note: Although the federal dietary guidelines were published 4 years ago, the percentage of U.S. residents to whom the lower sodium recommendation is applicable has never been reported. The findings in this report indicate that, using 2005–2006 NHANES data, the maximum daily sodium consumption of 1,500 mg recommended in 2005 applied to nearly 70% of U.S. residents aged \geq 20 years. If the recommendation had been in effect during 1999–2006, the percentage of persons for whom it applied would have increased from 64.4% in 1999–2000 to 69.2% in 2005–2006. Previous NHANES results have indicated that the average daily sodium intake among persons in the United States aged \geq 2 years increased from 3,329 mg in 2001–2002 to 3,436 mg in 2005–2006 (5), exceeding in each period even the higher sodium intake limit of 2,300 mg/day recommended in 2005.

Sodium reduction is recommended for persons with hypertension and as a first line of intervention for persons with prehypertension (2). Public health actions to reduce sodium intake likely will include 1) reducing the sodium content of processed foods; 2) encouraging consumption of more lowsodium foods, such as fruits and vegetables; and 3) providing more relevant information about sodium in food labeling. A randomized trial showed that the perceived pleasantness of highly salted food was based on dietary habit and that this perception could be changed by gradual reduction of dietary intake of sodium (7). The current daily percentage value for sodium in the nutrition facts panel of packaged foods is based on a previous federal guideline of 2,400 mg/day and is likely

TABLE. Number	and weighted	percentage* of	persons aged	≥20 years f	or whom lower	sodium co	nsumption of	[°] ≤1,500 n	ng/day
was recommend	ed,† by risk gro	up — National	Health and Nu	trition Exam	nination Survey	, 1999–2000), 2001–2002, 2	2003–200)4, and
2005-2006		•			-				

	1 (I	999–20 N = 1,8)00 54)	20 (N	01–200 = 2,20)2 5)	20 (N	003–20 I = 1,97	04 77)	2005–2006 (N = 1,982)			
Risk group	No.	%	(95% Cl [§])	No.	%	(95% CI)	No.	%	(95% CI)	No.	%	(95% CI)	
With hypertension [¶]	656	27.8	(25.6–30.2)	780	30.0	(27.1–33.0)	738	30.4	(26.4–34.7)	679	30.6	(27.2–34.2)	
Without hypertension, aged \geq 40 yrs	599	31.8	(27.9–36.0)	703	33.0	(30.3–35.8)	618	33.8	(29.6–38.3)	607	34.4	(31.8-37.2)	
Without hypertension, black, aged 20-39 yrs	118	4.8	(3.3–6.8)	124	4.4	(3.0–6.5)	133	4.8	(3.3–6.8)	504	4.2	(3.0–5.9)	
Total	1,373	64.4	(59.6–68.9)	1,607	67.4	(64.1–70.6)	1,489	69.0	(66.3–71.5)	1,440	69.2	(67.2–71.2)	

* Percentages weighted to the 2000 U.S. standard population.

[†] US Department of Health and Human Services, US Department of Agriculture. Dietary guidelines for Americans 2005. 6th ed. Washington, DC: US Department of Health and Human Services, US Department of Agriculture; 2005. Available at http://www.health.gov/dietaryguidelines/dga2005/document/pdf/dga2005.pdf. § Confidence interval.

[¶] Defined as having a systolic blood pressure of ≥140 mm Hg, or a diastolic blood pressure of ≥90 mm Hg, or taking antihypertensive medication.

^{*} Additional information available at http://www.cdc.gov/nchs/data/nhanes/ databriefs/calories.pdf.

[†] The recommendation was based on dietary reference intakes published by the Institute of Medicine (4).

to mislead the majority of consumers, for whom the 1,500 mg/day limit is applicable. In addition, health-care professionals can counsel all patients regarding dietary salt intake and recommend that they adopt an eating plan such as the Dietary Approaches to Stop Hypertension Diet, which is reduced in sodium and rich in potassium and calcium (8) and has been shown to decrease blood pressure among persons with and without hypertension.

The findings in this report are subject to at least one limitation. NHANES data are restricted to the noninstitutionalized population, excluding persons who reside in long-term care facilities or correctional facilities. Inclusion of these populations likely would increase the percentage of the population for whom the recommended 1,500 mg/day sodium limit is applicable.

The World Health Organization has set a global target for maximum intake of salt for adults at 5 g/day (i.e., 2,000 mg/day of sodium) or lower if specified by national targets, such as the recommendation in the United States (9). Eleven countries in the European Union have agreed to reduce salt intake by 16% over the next 4 years (10). In the United States, *Healthy People 2010* calls for increasing to 95% the proportion of adults with high blood pressure who are taking action (e.g., reducing sodium intake) to help control their blood pressure (objective 12-11). Recent examples of public health strategies to reduce sodium consumption include a New York City campaign to reduce sodium content in restaurant and processed foods.§

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Cluster of Ciguatera Fish Poisoning – North Carolina, 2007

Ciguatera fish poisoning (CFP) is a distinctive type of foodborne disease that results from eating predatory ocean fish contaminated with ciguatoxins. As many as 50,000 cases are reported worldwide annually, and the condition is endemic in tropical and subtropical regions of the Pacific basin, Indian Ocean, and Caribbean. In the United States, 5-70 cases per 10,000 persons are estimated to occur yearly in ciguateraendemic states and territories (1). CFP can cause gastrointestinal symptoms (nausea, vomiting, abdominal cramps, or diarrhea) within a few hours of eating contaminated fish. Neurologic symptoms, with or without gastrointestinal disturbance, can include fatigue, muscle pain, itching, tingling, and (most characteristically) reversal of hot and cold sensation. This report describes a cluster of nine cases of CFP that occurred in North Carolina in June 2007. Among the nine patients, six experienced reversal of hot and cold sensations, five had neurologic symptoms only, and overall symptoms persisted for more than 6 months in three patients. Among seven patients who were sexually active, six patients also complained of painful intercourse. This report highlights the potential risks of eating contaminated ocean fish. Local and state health departments can train emergency and urgent care physicians in the recognition of CFP and make them aware that symptoms can persist for months to years.

On June 28, 2007, a woman and her husband (the index couple), both aged 31 years, were treated at a hospital emergency department for illness that developed within 24 hours after eating amberjack fish purchased from a local fish market and cooked at their home. Diagnoses of CFP were based on symptoms of mild diarrhea 4–12 hours after eating fish, followed by reversal of hot and cold sensation, abnormal skin sensations, and other neurologic symptoms within 24 hours. Both

[§] Information available at http://www.nyc.gov/html/doh/html/cardio/cardiosalt-initiative.shtml.

patients improved after treatment with intravenous mannitol, a long-standing treatment for CFP neurologic symptoms. Upon notification, investigators from the Food and Drug Protection Division of the North Carolina Department of Agriculture and Consumer Services contacted the fish market that sold the amberjack filets and discovered that seven of eight persons at a local dinner party also had become ill after eating amberjack from the same shipment. The one person who did not become ill was a young child who did not eat any fish.

For the subsequent investigation, a case was defined as illness with gastrointestinal or neurologic symptoms within 72 hours of eating amberjack purchased at the fish market in June 2007. The nine patients whose illnesses met the case definition included three males and six females, aged 31-44 years (median: 37 years). Patients became ill 4-48 hours (median: 12 hours) after eating the fish. Abnormal skin sensations, joint pains, or weakness, shakiness, or fatigue affected seven patients (Table). For three persons, symptoms reappeared or worsened after alcohol consumption. Six of seven sexually active patients (two males and four females) also reported painful intercourse as a symptom. Both males described painful ejaculation with intercourse. One male stated that ejaculation was painful during the course of 1 week; the duration of the second male's genitourinary symptoms was not reported. All four females described having a burning sensation during intercourse and 15 minutes to 3 hours after intercourse. Two females reported that burning sensations associated with intercourse continued for 1 month. Severity of illness could not be related to the amount of amberjack consumed nor to the incubation period.

Symptoms (i.e., abnormal skin sensations, itching, fatigue, or altered heat-cold sensation) lasted at least 1 month in all nine patients, but cleared within 6 months in six of the patients (Table). Abnormal skin sensations persisted for 6–12

months in one of the nine patients; 1 year after onset of their CFP illnesses, two of the nine patients were still experiencing occasional symptoms of abnormal skin sensations, and one of those two was easily fatigued.

Samples of cooked amberjack were sent to the Food and Drug Administration (FDA) Gulf Coast Seafood Laboratory in Dauphin Island, Alabama, for ciguatoxin analysis. Acetone extracts of fish tissue were analyzed for ciguatera-related toxins using the sodium channel-specific mouse neuroblastoma assay with Caribbean ciguatoxin-1 (C-CTX-1) as a standard (2). A level of 0.6 ng C-CTX-1 equivalents per gram (0.6 ppb) of fish flesh was found in both fish samples, and C-CTX-1 was confirmed by liquid chromatography/mass spectrometry.

The first female patient had become symptomatic within 24 hours of eating the fish. She proactively collected, stored frozen, and submitted four breast milk samples for testing at the FDA laboratory because she was breastfeeding her infant and, upon researching CFP on the Internet and speaking with a Florida physician who had treated cases of CFP, had learned that breast milk might be a transmission vehicle. Against medical advice, she continued to breastfeed, but her infant, aged 8 months, exhibited no observable adverse effects. She collected one of the breast milk samples previous to eating the amberjack and the other samples at 1, 2, and 5 days after eating the fish. No activity of C-CTX-1 was reported by the FDA laboratory in any of the breast milk samples.

Traceback of the fish responsible for this cluster of CFP cases revealed that the fish was shipped to the local fish market via a seafood distributor in Atlanta, Georgia. The amberjack had been caught off the Islamorada Hump in the Florida Keys. **Reported by:** *R Langley, MD, M Shehee, PhD, N MacCormack, MD, North Carolina Dept of Health and Human Svcs; J Reardon North Carolina Dept of Agriculture and Consumer Svcs Food and Drug*

	Reported ha	aving symptom	Duration of longest lasting symptom					
Symptom*	No.	(%)	1–5 mos	6–12 mos	>12 mos			
Paresthesias (abnormal skin sensations)	7	(78)	3	1	2†			
Myalgias/joint pain	7	(78)						
Weakness/shakiness/fatigue	7	(78)	1					
Painful intercourse	6	(67) [§]						
Hot/cold sensation reversal	6	(67)	1					
Dizziness/light headedness/vertigo	6	(67)						
Itching	6	(67)	1					
Gastrointestinal symptoms (nausea/vomiting/diarrhea)	4	(44)						
Visual changes	3	(33)						
Rash	2	(22)						
Painful urination	1	(11)						
Fever/chills	1	(11)						

TABLE. Symptoms of ciguatera poisoning among nine persons who ate amberjack, and duration of longest lasting symptoms — North Carolina, 2007

* For three persons, symptoms reappeared or worsened after alcohol consumption.

[†]One person also reported being easily fatigued for >12 months.

§ Six (86%) of seven sexually active persons reported painful intercourse.

Protection Div; L Morrison, MD, Duke Univ. HR Granade, EL Jester, A Abraham, PhD, Food and Drug Admin.

Editorial Note: Ciguatoxins are lipid-soluble cyclic polyether compounds and are the most potent sodium channel toxins known (3). Carnivorous tropical and semitropical fish, such as barracuda, amberjack, red snapper, and grouper, become contaminated with ciguatoxins by feeding on plant-eating fish that have ingested Gambierdiscus toxicus or another member of the Gambierdiscus genus, a group of large dinoflagellates commonly found in coral reef waters (4). Gambiertoxins from Gambierdiscus spp. are converted into more potent lipid-soluble ciguatoxins. Spoilage of fish that have been caught is not a factor in toxin development, and cooking does not deactivate the toxin. Humans who eat contaminated predatory fish are exposed to variable concentrations of ciguatoxin, depending on the fish size, age, and part consumed (toxins concentrate more in the viscera, especially liver, spleen, gonads, and roe). The attack rate can be as high as 80% to 90% in persons who eat affected fish, depending on the amount of toxin in the fish.

This cluster of CFP cases was unusual because six of the seven sexually active patients, two males and four females, reported onset of painful intercourse beginning in the first few days after onset of illness. Sexual transmission of ciguatoxin has been documented (5), and painful intercourse has been reported (6); however, painful intercourse is not commonly described as a consequence of CFP. Because all of the patients ate fish and developed other symptoms of CFP hours and days before experiencing painful intercourse, transmission through sexual intercourse was not considered likely in this cluster.

Persistence or recurrence of neurologic symptoms are hallmarks of CFP. Three of the nine patients in this cluster had recurrences of one or more symptoms for more than 6 months after their initial illness. If these patients are again exposed to fish (either ciguatoxin-contaminated or even noncontaminated fish), their symptoms likely will be more severe than those experienced with their initial episodes of CFP (*3*).

Variations in the geographic distribution of the various ciguatoxins might explain regional differences in symptom patterns. CFP symptoms associated with eating fish from the Pacific Ocean are primarily neurologic, and symptoms associated with eating fish from the Caribbean Sea are more commonly gastrointestinal (4). Amberjack often is linked to CFP cases in the Caribbean. Although the amberjack fish responsible for this cluster of CFP cases tested positive for C-CTX-1, it was not tested for the presence of other ciguatoxins, which also might have been present and could have altered disease presentation (7). CFP has been associated almost exclusively with eating fish caught in tropical or semitropical waters, but increased global marketing of these species has increased the possibility that persons in temperate zones might become ill with CFP (4). Moreover, warming seawaters might expand the ranges of ciguatoxin-contaminated fish (8). In the United States, such fish have been found as far north as the coastal waters of North Carolina. Despite underreporting, CFP now is considered one of the most common illnesses related to fish consumption in the United States (9).

Any level of Caribbean ciguatoxin ≥ 0.1 ppb of fish tissue is thought to pose a health risk (3).* As this illness becomes more common in nontropical areas of the world, clinicians need to be aware of its manifestations and how to manage it. Although opinions vary on the most effective course of treatment, intravenous mannitol has been a mainstay of management of neurologic symptoms for more than 20 years. Early mannitol treatment is considered more effective, but anecdotal evidence suggests that even delayed therapy benefits some patients. Amitriptyline also has been useful in relieving some of the neurologic symptoms of CFP (10). If evaluating a possible case, clinicians should consult their local poison control center for the latest treatment guidelines.

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^{*} FDA has proposed guidance levels of ≥0.1 ppb Caribbean ciguatoxin (C-CTX-1 equivalents) and ≥0.01 ppb Pacific ciguatoxin (P-CTX-1 equivalents) for the 4th edition of its *Fish and Fishery Products Hazards and Controls Guidance*.



www.cdc.gov/nchs/deaths.htm, and Health Data Interactive, available at http://www.cdc.gov/nchs/deaths.htm, and Health Data Interactive, available at http://www.cdc.gov/nchs/hdi.htm.

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending March 21, 2009 (11th week)*

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	Current	C	5-year	Total cases reported for previous years					States reporting cases		
Disease	week	2009	average [†]	2008	2007	2006	2005	2004	during current week (No.)		
Anthrax		_			1	1					
Botulism:											
foodborne	_	5	0	14	32	20	19	16			
infant	1	8	2	101	85	97	85	87	PA (1)		
other (wound and unspecified)	1	6	0	19	27	48	31	30	WA (1)		
Brucellosis	1	9	2	81	131	121	120	114	FL (1)		
Chancroid	1	9	1	29	23	33	1/	30	NY (1)		
Cholena	_			125	/	107	542	160			
Diphtheria	_	20		135	93	137	545	100			
Domestic arboviral diseases [§] , [¶]											
California serogroup	_	_	0	49	55	67	80	112			
eastern equine	_	_	_	3	4	8	21	6			
Powassan	_	—	_	2	7	1	1	1			
St. Louis	—	—	—	10	9	10	13	12			
western equine	_	_	_	_	_	_	_	_			
Ehrlichiosis/Anaplasmosis ^{9,**} :	0	05	0	011	000	570	500	000	MO (1) NO (1)		
Enriichia chatteensis Ebrlichia owingii	2	25	3	911	828	578	506	338	MO (1), NC (1)		
Anaplasma phagoovtophilum	_	6	1	602	924	646	796				
undetermined	_	2	0	68	337	231	112	59			
Haemophilus influenzae. ^{††}		-	Ũ	00	007	201	112	00			
invasive disease (age <5 yrs):											
serotype b	_	6	0	30	22	29	9	19			
nonserotype b	1	40	4	191	199	175	135	135	FL (1)		
unknown serotype	6	45	4	181	180	179	217	177	MD (1), NC (1), GA (2), LA (1), AZ (1)		
Hansen disease [§]	_	11	2	77	101	66	87	105			
Hantavirus pulmonary syndromes	_		0	18	32	40	26	24			
Hemolytic uremic syndrome, postdiarrneal ^s	6	123	12	267	292	288	221	200	CT (1), NY (2), WI (1), TN (1), MT (1) OH (1) MO (1) MD (1) NC (2) TN (1) OK (1)		
Repairis C vital, acute	9	129	15	000	045	700	052	720	WA (2)		
HIV infection, pediatric (age <13 years)§§	_	_	4	_	_	_	380	436			
Influenza-associated pediatric mortality ^{§,¶¶}	3	36	3	88	77	43	45	_	NY (1), WV (1), KY (1)		
Listeriosis	3	85	10	723	808	884	896	753	MA (1), NC (1), CA (1)		
Measles***	—	3	2	137	43	55	66	37			
Meningococcal disease, invasive ^{†††} :							~~-				
A, C, Y, and W-135	3	58	9	326	325	318	297	_	NY (1), NC (1), ID (1)		
serogroup B	1	26	4	1/8	167	193	150	_			
unknown serogroup	10	102	19	601	550	651	765	_	NY (1) MO (1) EL (1) KY (1) TN (1) MS (1)		
unknown scrogroup	10	102	10	001	550	001	700		AZ (1), CA (3)		
Mumps	2	58	35	421	800	6,584	314	258	MO (1), WA (1)		
Novel influenza A virus infections	_	1	_	2	4	Ń	Ν	Ν			
Plague	—	—	0	1	7	17	8	3			
Poliomyelitis, paralytic	_	_	_	_	—	_	1	_			
Polio virus infection, nonparalytic§		_	_			N	N	N			
Psittacosis ⁹	1	3	0	11	12	21	16	12	CA (1)		
Q fever totals,835:	_	11	2	102	1/1	169	136	70			
acule	_	0	1	92	_		_	_			
Babies human	_			10	1	3	2	7			
Rubella ¹¹¹	_	_	0	18	12	11	11	10			
Rubella, congenital syndrome	_	1	0	_	_	1	1	_			
SARS-CoV [§] ,****	_	_	—	_	_	_	_	_			
Smallpox§	_	_	_	_	_	_	_	_			
Streptococcal toxic-shock syndrome§	5	29	5	146	132	125	129	132	NY (1), OH (1), MN (2), KS (1)		
Syphilis, congenital (age <1 yr)		22	7	337	430	349	329	353			
l etanus	1	4	0	19	28	41	27	34	MI (1)		
roxic-snock syndrome (staphylococcal) ³	-	16	2	/3	92	101	90	95	CA(1)		
Tularemia	_	2	0	ری 115	3 137	95	154	134			
Typhoid fever	5	64	6	429	434	353	324	322	MA (1) MN (1) CA (3)		
Vancomycin-intermediate Staphylococcus aureus§	1	9	õ	46	37	6	2		NC (1)		
Vancomycin-resistant Staphylococcus aureus§	_	_	_	_	2	1	3	1	× /		
Vibriosis (noncholera Vibrio species infections)§	_	28	2	490	549	Ν	Ν	Ν			
Yellow fever	_	_	—	_	_	_	_	_			

See Table I footnotes on next page.

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TABLE I. (*Continued*) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending March 21, 2009 (11th week)*

- -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.
- * Incidence data for reporting year 2008 and 2009 are provisional, whereas data for 2004, 2005, 2006, and 2007 are finalized.
- [†] Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
- S Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
- ¹ Includes both neuroinvasive and noneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
- ** The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingii*).
- ^{††} Data for *H. influenzae* (all ages, all serotypes) are available in Table II.
- ^{§§} Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
- ¹¹ Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Thirty-five influenza-associated pediatric deaths occurring during the 2008-09 influenza season have been reported.
- *** No measles cases were reported for the current week.
- ^{†††} Data for meningococcal disease (all serogroups) are available in Table II.
- §§§ In 2008, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
- 1111 No rubella cases were reported for the current week.
- **** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals March 21, 2009, with historical data



* No measles cases were reported for the current 4-week period yielding a ratio for week 11 of zero (0).

[†] Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

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·	Chlamydia [†]						Coco	idiodomy	/cosis		Cryptosporidiosis				
	Previous 52 weeks cum cum						Prev	vious				Prev	vious		
Reporting area	Current	52 W	Max	Cum 2009	Cum 2008	Current	52 W	Max	Cum 2009	Cum 2008	Current	52 V	Мах	Cum 2009	Cum 2008
United States	10,774	21,886	25,375	205,712	230,023	131	125	343	1,584	1,507	43	107	466	693	710
New England Connecticut Maine [§] Massachusetts New Hampshire Rhode Island [§] Vermont [§]	571 215 267 3 68 18	729 226 48 327 39 51 21	1,656 1,306 72 955 63 208 53	8,102 2,374 522 4,158 189 620 239	7,240 1,478 563 3,811 458 677 253	N N N N	0 0 0 0 0 0	0 0 0 0 0 0 0	N N N 	1 N N 1 		5 0 1 2 1 0 1	23 4 6 13 4 3 7	40 4 3 23 5 1 4	80 41 18 6 2 12
Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	2,233 364 676 1,086 107	2,872 404 555 1,118 783	6,461 747 4,229 3,381 1,074	30,436 3,329 5,764 13,258 8,085	25,091 4,979 4,696 6,186 9,230	N N N N	0 0 0 0	0 0 0 0	N N N	N N N	4 2 2 2	13 0 4 1 5	34 2 17 8 15	80 — 29 13 38	92 8 19 23 42
E.N. Central Illinois Indiana Michigan Ohio Wisconsin	1,341 17 130 941 39 214	3,409 1,076 379 842 794 299	4,248 1,315 713 1,225 1,300 488	26,914 6,228 4,133 9,857 3,398 3,298	40,310 12,130 4,376 9,431 9,828 4,545	1 N 	1 0 0 0 0	3 0 3 2 0	6 N 1 5 N	9 N 6 3 N	8 1 6 1	26 3 5 6 9	125 13 13 13 59 46	156 12 13 38 56 37	158 17 14 36 45 46
W.N. Central lowa Kansas Minnesota Missouri Nebraska [§] North Dakota South Dakota	695 328 75 7 53	1,324 171 184 271 491 99 28 57	1,550 250 402 310 566 254 60 85	12,854 1,571 2,109 2,026 5,427 910 156 655	13,946 1,874 1,844 3,209 4,976 1,039 441 563	N N N N N N N N N N N N N N N N N	0 0 0 0 0 0 0	2 0 0 2 0 0 0	N N N N N N N N N N	N N N N N N N N N N N	8 2 1 2 1	16 4 1 4 3 2 0 1	68 30 14 13 8 2 9	80 15 14 13 20 12 6	97 27 12 23 12 14 1 8
S. Atlantic Delaware District of Columbia Florida Georgia Maryland [§] North Carolina [§] Virginia [§] Virginia [§] West Virrinia	2,380 163 1,111 377 717 12	3,845 69 126 1,377 662 448 0 488 616 63	6,326 151 201 1,571 1,274 692 460 3,038 1,041 102	35,239 1,069 858 15,422 2,631 4,735 	40,714 770 1,419 14,072 7,285 4,436 2,352 4,379 5,234 767	1 N N 1 N N N N N N N N N N N N N N N N N	0 0 0 0 0 0 0 0 0	1 0 0 1 0 0 0	4 1 N N 3 N N N N	1 N N N N N N N N N	9 2 4 1 2 	19 0 8 5 1 0 1 1	47 1 2 35 13 4 16 4 4 3	169 — 60 75 6 22 3 2	116 4 29 28 1 7 5 6 4
E.S. Central Alabama [§] Kentucky Mississippi Tennessee [§]	680 128 552	1,654 469 248 419 540	2,139 553 380 764 798	17,902 3,977 2,712 4,677 6,536	17,114 5,405 2,549 3,351 5,809	N N N N	0 0 0 0	0 0 0 0 0	N N N N	N N N N	 	3 1 1 0 1	9 6 4 2 6	17 3 6 4 4	23 12 3 3 5
W.S. Central Arkansas [§] Louisiana Oklahoma Texas [§]	675 375 196 104	2,839 276 419 196 1,901	3,515 455 775 407 2,464	27,132 3,436 2,813 1,203 19,680	30,564 2,968 3,788 2,388 21,420	N N N	0 0 0 0	1 0 1 0 0	N N N	1 N 1 N	3 	8 1 1 6	187 7 5 16 181	32 2 5 10 15	29 2 6 9 12
Mountain Arizona Colorado Idaho [§] Montana [§] Nevada [§] New Mexico [§] Utah Wyoming [§]	274 31 	1,256 455 170 67 59 176 149 108 33	1,984 645 588 314 87 415 455 252 95	9,637 2,467 1,037 824 581 2,245 1,316 693 474	15,411 5,003 3,810 851 643 2,123 1,556 1,190 235	78 76 N N 2 —	89 86 0 0 0 0 0 0	181 179 0 0 6 2 1 1	1,114 1,094 N N 15 1 4	1,026 996 N N 13 9 8	2 1 	8 1 1 1 0 2 0 0	38 9 12 5 3 1 24 6 2	44 6 8 7 3 5 9 1 5	54 11 7 12 6
Pacific Alaska California Hawaii Oregon [§] Washington	1,925 74 1,416 144 291	3,684 80 2,878 110 187 384	4,447 188 3,314 248 631 502	37,496 911 30,205 892 2,156 3,332	39,633 961 30,490 1,180 2,155 4,847	51 N 51 N N	36 0 36 0 0	172 0 172 0 0 0	460 N 460 N N N	469 N 469 N N N	9 7 1 1	8 0 5 0 1 1	30 1 14 1 5 17	75 1 44 25 5	61 41 1 11 8
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	 180	0 4 127 12	14 	 1,673 	37 	N N	0 0 0 0	0 0 0 0	N N	N N	N N	0 0 0 0	0 0 0 0	N N	N N

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly. † Chlamydia refers to genital infections caused by *Chlamydia trachomatis*. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

				Gonorrhe	a	Haemophilus influenzae, invasive All ages, all serotypes [†]									
		Prev	ious				Pre	vious				Prev	vious		
Reporting area	Current	52 w	Max	Cum 2009	Cum 2008	Current	52 \ 	Max	Cum 2009	Cum 2008	Current	52 w	Max	Cum 2009	Cum 2008
United States	176	309	622	2.657	2.951	2.256	5.908	6.843	48.043	65.987	34	47	104	518	726
New England	12	27	65	217	279	66	101	301	1,029	963	_	3	17	37	41
Connecticut Maine [§]	1	6	14 12	45 37	60 22	31	52	275 7	469 24	302 18	_	0	11	10	4
Massachusetts	2	11	27	87	126	27	38	113	450	537	—	1	5	19	29
New Hampshire Rhode Island [§]	_	3 1	11 8	16 10	24 19	2 4	2 5	5 13	20 56	22 79	_	0	2	4	5
Vermont§	5	3	15	22	28	2	1	3	10	5	_	Ő	3	1	3
Mid. Atlantic	36	59	108	477	563	404	611	1,077	6,015	5,803	5	10	23	99	123
New York (Upstate)	25	22	73	214	171	102	115	621	1,115	1,148	4	3	19	32	29
New York City		16 16	30 46	142	157	217	208	584 267	2,365	1,008	1	2	6 10	12 48	18 50
E.N. Central	25	47	88	370	455	310	1.186	1.558	8.411	14.846	2	7	18	62	108
Illinois		11	32	43	121	6	366	480	1,805	4,057	_	2	7	15	39
Indiana Michigan	N 6	0 12	22	N 96	N 93	42 180	147 298	254 657	1,396	1,840 3,747	_	1	13	10 5	13 5
Ohio	17	17	31	160	167	7	271	531	1,029	3,841	2	2	6	29	41
W N Control	11	8	142	200	200	/5 155	78 219	141	2 860	1,301		0	12	3	10 51
lowa	2	20	143	209 53	299 55	155	28	53	2,860	3,534	_	0	13		1
Kansas Minnesota	2	3	11	25	20	59	42	83 78	537 337	450	_	0	4	5	4
Missouri	5	8	22	90	78	66	147	193	1,410	1,627	1	1	4	15	30
Nebraska§ North Dakota	_2	4	10	29	27	23	27	50 7	282	311	_	0	2	6	6 1
South Dakota	_	2	11	11	11	7	8	20	83	46	_	Ő	0	_	_
S. Atlantic	46	59	108	677	449	671	1,300	1,875	9,890	14,254	17	12	24	166	203
Delaware District of Columbia	_	0	3 5	4	10 7	8	18 54	35 101	196 364	260 480	_	0	2	1	1
Florida	37	30	57	391	200	320	431	518	4,431	5,026	7	3	9	63	50
Georgia Maryland§	6 3	9 5	63 10	47	45	106	118	484 210	849 1,302	1,323	5	1	9 5	35 23	52 37
North Carolina	Ν	0	0	N	N		0	203	í	1,269	1	1	9	19	14
Virginia [§]	_	2	29	38	23 41	230	175	829 486	1,523	1,752	_	1	5	8	27
West Virginia	_	1	5	8	17	1	12	26	116	188	—	0	3	10	7
E.S. Central	_	8	22 12	35 18	80 47	169	550 176	771 216	5,296 1 241	6,234 2 221	1	3	6	21	40
Kentucky	Ν	0	0	N	Ň	36	88	153	763	970	_	Ő	3	1	1
Mississippi Tennessee§	<u>N</u>	0	0 13	N 17	N 33	133	143 165	253 301	1,475 1 817	1,310	1	0	1	15	7 27
W.S. Central	9	7	21	54	46	174	948	1.300	7,794	10.758	4	2	17	23	27
Arkansas§	6	2	8	13	15	88	85	167	976	1,007	_	Ō	2	1	
Oklahoma	2	2	10	25 16	18	53 33	72	142	954 439	1,967 989	3	1	16	4 18	22
Texas§	Ν	0	0	Ν	Ν	—	606	728	5,425	6,795	—	0	1	—	3
Arizona	2	27	62	178	249	35	197	339	1,085	2,390	3	5	12	57	101
Colorado	_	10	27	55	89	_	55	101	152	604	_	1	5	7	17
Idaho [§] Montana§	_	4	14	20 19	28 13	4	3	13	24 14	43 20	_	0	4	1	1
Nevada [§]	1	1	8	8	17	26	35	129	420	559	_	õ	2	5	3
New Mexico ^s	_	1 7	8 18	10 31	27 44	_	23 7	48 19	142 42	270 114	_	1	4	6 4	11 20
Wyoming§	—	0	3	9	9	—	2	9	16	10	_	Ő	2		
Pacific	35	56	152	440	531	272	578	661	5,663	7,205	1	2	6	20	32
California	26	35	10 59	328	397	206	481	20 573	4,741	97 5,922	_	0	3	3	4 10
Hawaii		0	4	2	5		11	21	89	122	_	0	2	5	3
Washington	4 4	8	18 99	48 49	25	33	53	48 82	414	304 760		0	4	1	15
American Samoa	_	0	0	_	_	_	0	1	_	1	_	0	0	_	_
C.N.M.I. Guam	_	0		_	_	_	1	 15	_		_			_	_
Puerto Rico	_	4	15	16	25	2	4	25	39	57	_	ŏ	1	_	—
U.S. Virgin Islands	—	0	0	—	_	—	2	6	_	21	N	0	0	N	N

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Med * Incidence data for reporting year 2008 and 2009 are provisional. † Data for *H. influenzae* (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS). Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

MMWR

	Hepatitis (viral, acute), by type [†]										_				
			Α					В				Le	gionellosi	is	
		Prev	ious				Prev	vious				Prev	vious		
Reporting area	Current	52 w	Max	Cum 2009	Cum 2008	Current	52 W	Max	Cum 2009	Cum 2008	Current	52 w	Max	Cum 2009	Cum 2008
United States	14	44	77	311	543	37	70	141	602	764	12	49	148	295	388
New England	_	2	8	15	34	_	1	3	4	20	_	3	18	11	16
Connecticut Maino [§]	_	0	4	6	4	—	0	2	2	9	_	1	5	5	3
Massachusetts	_	1	4	7	19	_	0	1	_	7	_	1	7	4	4
New Hampshire	—	0	2	1	1	—	0	2	1	1	—	0	5		4
Vermont [§]	_	0	2 1	_		_	0	1	_	_	_	0	14	1	2
Mid. Atlantic	_	5	10	37	82	_	7	15	43	115	2	14	59	73	88
New Jersey	_	1	3	4	20 13	_	1	5 10	3	45		1	8 21	2	10
New York City	_	2	6	12	24	_	1	6	6	16		1	12	3	13
Pennsylvania	_	1	4	14	25	_	2	8	19	43	_	6	33	39	46
E.N. Central	_	6	16 10	46	77	3	8	17	78	97 26	2	8	41	56	109
Indiana	_	0	4	4	3	_	0	7	9	5	_	1	6	4	6
Michigan	—	2	5	14	38	2	3	7	24	35	_	2	16	13	26
Wisconsin	_	1	4	14 5	8	1	2	14	38	26 5	2	3	18	37	58 2
W.N. Central	2	3	16	21	62	2	2	11	35	18	_	2	8	3	18
lowa	—	1	7	_	23	—	0	3	4	6	_	0	2	2	5
Kansas Minnesota	1	0	3 12	1 5	4	_	0	3 10	5	2	_	0	1	1	1
Missouri	_	1	3	9	10	1	1	5	18	9	_	1	7	_	5
Nebraska [§]	1	0	5	6	17	1	0	3	7	1	_	0	3	_	5
South Dakota	_	ŏ	1	_	1	_	ŏ	1	1	_	_	Ő	1	_	1
S. Atlantic	4	7	15	83	72	15	18	34	217	201	4	9	22	71	73
Delaware District of Columbia		0	1				0	2	4	5	_	0	2	_	1
Florida	4	3	8	47	30	11	6	11	73	69	3	2	7	30	32
Georgia Manuland [§]	—	1	4	11	11	2	3	8	28	28	1	1	5	15	6
North Carolina	_	0	4 9	9	9		0	19	24 77	24 24	_	0	7	13	5
South Carolina§	—	0	3	4	2	—	1	4	1	21	_	0	2	_	2
Virginia ^s West Virginia	_	0	5	2	8	_	2	10	3	16	_	0	5 3		6
E.S. Central	_	1	9	6	7	3	7	13	44	77	_	2	10	17	20
Alabama§	—	0	2	1	1		2	6	12	23	_	0	2	2	2
Mississippi	_	0	3	3	3	1	2	3	5	23	_	0	4		12
Tennessee§	_	Ō	6	1	3	1	3	8	16	24	—	0	5	8	6
W.S. Central	_	4	12	7	39	7	12	54	90	140	2	1	16	8	7
Arkansas ^s Louisiana	_	0	1	1	2	_	0	4	7	6 21	_	0	2	1	_
Oklahoma	_	Ō	5	1	3	4	2	10	19	11	1	Ō	6	1	_
Texas ⁹	_	4	11	3	34	3	8	43	64	102	1	1	15	6	7
Arizona	_	3	12 11	23 13	44 17	_	3	11 5	26 10	33	2	2	8	19 8	20 5
Colorado	—	0	2	2	11	—	0	3	4	4	_	0	2	_	3
Idaho ^ş Montana [§]	_	0	3	2	7	_	0	2	1	_	1	0	1	3	1
Nevada§	_	ŏ	3	3	_	_	ŏ	3	6	7	_	Ő	2	5	2
New Mexico [§]	—	0	3	1	5	—	0	2	3	4	_	0	2		2
Wyoming§	_	0	1		2	_	0	1			_	0	0		
Pacific	8	9	25	73	126	7	7	42	65	63	_	4	10	37	37
Alaska		0	1	1	101		0	2	1		—	0	1	2	
Hawaii	_	0	25	1	2		0	20 1	54 1	40	_	0	0 1	29	2
Oregon [§]		0	2	5	10		1	3	5	7	—	0	2	3	4
washington	I	0	/	4	13	I	0	14	4	6		0	4	2	I NI
C.N.M.I.	_			_	=	_			_	_	IN			IN	IN
Guam	—	0	0			—	0	0	—		—	0	0	—	—
LLS Virgin Islands	_	0	4	2	6	_	0	5	_	12	_	0	0	_	_
		•	•				•	•				•	•		

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 21, 2009, and March 15, 2008 (11th week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. † Data for acute hepatitis C, viral are available in Table I.

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

· · · ·		L	yme disea	se		·		Malaria		Meningococcal disease, invasive [†] All serotypes						
		Pre	Previous				Prev	vious				Prev	ious			
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	
United States	66	485	1,672	1,228	1,637	10	23	47	163	158	15	18	41	190	336	
New England	2	80	535	109	295	_	1	6	7	7	_	0	4	9	12	
Maine [§]	2	3	73	15	36	_	0	0	_	1	_	0	1	1	1	
Massachusetts	—	38	360	37	198	—	0	4	6	4	—	0	3	6	10	
Rhode Island [§]	_	0	143	40	54 1	_	0	2	_	1	_	0	1	1	_	
Vermont§	—	4	41	17	6	—	0	1	1	_	—	0	0	—		
Mid. Atlantic	49	254	1,299	703	842	2	4	14	31	33	2	2	6	18	32	
New York (Upstate)	41	99	1,247	217	90	2	0	10	10	3	2	0	3	3	8	
New York City	8	4	36 518	374	39 471	_	3	10	16 5	24	_	0	2	4	3 16	
E.N. Central	1	11	147	27	54	_	2	7	19	31	_	3	8	33	60	
Illinois		1	13		2	—	1	5	5	16	—	1	6	6	24	
Indiana Michidan	_	0	8 10	1	3	_	0	2	5	1 5	_	0	4	6 5	8 10	
Ohio	1	0	5	3	3	_	0	2	7	8	_	1	4	13	12	
Wisconsin		9	129	19	46		0	3	_	1	_	0	2	3	6	
lowa	_	9	225	4	6 5	_	0	3	5 1	5	_	2	6 2	16	34	
Kansas	_	0	4	2	1	_	0	2	1	_	_	0	2	2	1	
Missouri	_	5 0	225	4	_	_	0	3	2	1	1	0	4	4 8	10	
Nebraska§	—	0	2	—	—	—	0	1	—	3	—	0	1	1	3	
South Dakota	_	0	1	1	_	_	0	0	_	_	_	0	1	_	1	
S. Atlantic	10	70	224	330	396	6	5	15	70	44	3	3	9	36	47	
Delaware District of Columbia	1	12	37 11	62	95 16	_	0	1	1	_	_	0	1	_	_	
Florida	2	2	10	16	6	4	1	7	20	14	2	1	4	18	16	
Georgia Marvland [§]	6	0 27	6 162	12 199	231	1	1	5 7	14 21	10 16	_	0	2	4	4	
North Carolina	1	0	5	8	2	1	0	7	11	2	1	Ö	3	9	3	
South Carolina [®] Virginia [§]	_	0 15	2 56	3 21	4 38	_	0	1	1	1	_	0	2	2	10 10	
West Virginia	—	1	11	9	4	_	0	Õ	_	_	_	Ő	1	_	_	
E.S. Central	—	1	5	3	1	—	0	2	5	2	3	0	6	4	17	
Kentucky	_	0	2	_	_	_	0	1	_	1	1	0	2 1	1	4	
Mississippi	_	0	1		_	_	0	1		_	1	0	2	1	4	
WS Central	_	2	21	2	1 5	_	1	∠ 11	4	7	1	2	7	∠ 1∕I	9 37	
Arkansas§	_	ō	0		_	_	ò	0	_	_	_	ō	2	2	3	
Louisiana Oklahoma	_	0	1	_	_	_	0	1	_	1	1	0	3	7	12	
Texas§	_	2	21	2	5	_	1	11	_	6	_	1	6	3	17	
Mountain	—	0	16	3	5	—	0	3	1	8	2	1	3	16	19	
Colorado	_	0	2 1	1	2	_	0	2 1	_	23	_	0	2 1	4 3	2 4	
Idaho [§]	—	0	1	1	1	—	0	1	—	—	1	0	1	3	2	
Nevada [§]	_	0	2	1	_	_	0	0	_	3	_	0	1	2	2	
New Mexico [§]	—	0	2	—	1	—	0	1	-	—	—	0	1	1	3	
Wyoming [§]	_	0	1	_	_	_	0	0	_	_	_	0	1	_	4	
Pacific	4	4	19	40	33	2	3	11	25	21	3	4	19	44	78	
Alaska California	3	0	2	33		1	0	2	1 17	16	3	0	2 19	2	 60	
Hawaii	Ň	0	Ö	N	N	_	ō	1	1	1	_	ō	1	1	1	
Oregon [§] Washington	1	1 0	3 12	6	2	1	0	1 7	2 4	3 1	_	1 0	7 5	13 6	9 8	
American Samoa	Ν	0	0	Ν	Ν	_	0	, 0		_	_	0	0	_	_	
C.N.M.I.	_	_		_	—	_			_	—	_				_	
Puerto Rico	N	0	0	N	N	_	0	1	1	_	_	0	1	_	2	
U.S. Virgin Islands	Ν	0	0	Ν	N	_	0	0	_	_	_	0	0	_	—	

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. † Data for meningococcal disease, invasive caused by serogroups A, C, Y, and W-135; serogroup B; other serogroup; and unknown serogroup are available in Table I. \$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

			Pertussis				Ra	ibies, anin	nal	Rocky Mountain spotted fever					
	Current	Pre 52 v	vious weeks	Cum	Cum	Current	Prev 52 w	vious veeks	Cum	Cum	Current	Prev 52 w	ious eeks	Cum Cu	
Reporting area	week	Med	Max	2009	2008	week	Med	Max	2009	2008	week	Med	Max	2009	2008
United States	88	199	1,071	1,867	1,601	64	93	162	450	776	4	42	145	126	42
New England	1	16	36	111	244	6	8	21	52 21	51 30	_	0	2	1	1
Maine [†]		1	7	20	12	2	1	5	8	3	—	0	1	1	
Massachusetts New Hampshire	1	13 1	29 4	76 9	190 8	_	0	0 8	5	6	_	0	1	_	1
Rhode Island [†]	_	1	8	2	9	2	0	3	5 13	6	_	0	2	_	_
Mid. Atlantic	11	18	52	148	179	12	31	67	77	226	_	1	30	1	6
New Jersey New York (Upstate)	8	1	6 41	11 33	14 49	12	0	0 20	57	59	_	0	2 29	_	_2
New York City		Ő	3	-	29	_	0	2		5	_	Ő	2	1	2
Pennsylvania E N. Central	3	9 36	34 174	104 476	87 425	_	21	52 29	20	162	- 1	0	2 15		2
Illinois		11	45	97	33	_	1	21	1	1	_	1	11	1	1
Indiana Michigan	5	2	96 21	28 119	4 37	_	0	2 9	5	_	_	0	3	1	_
Ohio	15	10	57	226	338		1	7		1 N	1	0	4	2	_
W.N. Central	12	24	, 454	375	122	6	5	15	31	22	_	4	32	3	1
lowa		3	21	24	24		0	5	22	2	_	0	2	_	_
Minnesota	_	2	421				Ó	10	5	8	_	0	0	_	_
Missouri Nebraska†	9 2	9 3	50 32	271 46	72 11	1	1 0	8 0	3	_	_	4 0	31 4	3	1
North Dakota	—	0	1			—	0	7	1	3	—	0	0	—	—
S. Atlantic	19	20	71	278	129	27	26	77	219	412	3	15	69	110	24
Delaware District of Columbia	_	0	3	4	1	_	0	0	_	_	_	0	5	_	_
Florida	9	7	20	83	27	_	0	8	34	139	_	0	3	1	1
Georgia Marvland [†]	2	1	9 9	4 17	7 20	27	0 7	47 17	88 16	72 86	_	1	8 7	3 7	4 5
North Carolina		0	65	117	35	Ν	0	4	N	N	3	8	55	91	11
Virginia [†]	<u> </u>	23	24	19	19	_	10	24	72	102	_	2	9 15	3	1
West Virginia	_	0	2	3	2	_	1	9	9	13	_	0	1	1	2
Alabama [†]	1	9 1	33	105 9	52 16	2	3	0	14	25	_	3	23 8	5 3	4 3
Kentucky Mississippi	1	4	15	70 14	7 21	2	1	4	14	3	_	0	1		_
Tennessee [†]	—	2	14	12	8	_	2	6	_	21	—	2	19	1	1
W.S. Central	3 1	32	264 20	146	102	1	1	11	5	10	_	2	41 14	1	4
Louisiana	1	2	7	16	1		0	0		_	_	0	1	_	2
Oklahoma Texas [†]	1	0 27	29 220	7 121	1 84	1	0	10 1	3	1	_	0	26 6	_	2
Mountain	7	15	32	131	213	3	2	9	20	8	_	1	3	1	1
Arizona Colorado	3	3	10 13	19 38	58 47	N	0	0	N	N	_	0	2 1	_	_
Idaho† Montana†	3	1	5	15	4		0	0		_	—	0	1	—	_
Nevada [†]	1	0	7	6	29		0	4	<u> </u>	_	_	0	2	_	_
New Mexico [⊤] Utah	_	1 4	10 20	18 30	7 61	_	0	3 6	6	6	_	0	1	1	1
Wyoming [†]	—	Ó	2	_	4	—	Ő	4	6	2	—	Ő	2	_	—
Pacific Alaska	14 2	25 3	81 21	97 19	135 21	7 1	3 0	13 2	26 5	20 9	N	0	1 0	N	N
California	_	8	23		38	6	3	12	21	11		Ō	1		
Oregon [†]	1	3	16	5 39	31	_	0	2	_	_		0	1	IN	IN
Washington	11	5	77	34	42		0	0				0	0		
American Samoa C.N.M.I.	_			_	_	N			IN	N 	N	0			N
Guam Puerto Rico	_	0	0	_	_	_	0 1	0	8	7	N N	0	0	N N	N N
U.S. Virgin Islands	_	õ	Õ	_	_	Ν	0	0	Ň	, N	N	õ	õ	N	N

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional. † Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

<u> </u>	Salmonellosis						a toxin-p	roducing I	E. coli (ST	Shigellosis					
	Current	Pre 52 v	vious veeks	ous eks cum		Current	Prev 52 w	ious eeks	Cum	Cum	Current	Prev 52 w	/ious /eeks	Cum	Cum
Reporting area	week	Med	Max	2009	2008	week	Med	Max	2009	2008	week	Med	Max	2009	2008
United States	302	949	1,496	5,483	5,780	36	87	251	406	478	178	441	614	2,706	2,709
New England Connecticut Maine [§]	1	31 0 2	93 66 8	267 66 16	715 491 23	1	4 0 0	14 6 3	20 6 	75 47 2		3 0 0	10 3 6	32 3 —	65 40 —
Massachusetts New Hampshire Rhode Island [§]	1 	19 3 2	51 10 9	137 23 15	157 17 16	1 	2 1 0	11 3 3	10 	18 6 		3 0 0	9 1 1	25 1 3	19 1 4
Vermonts Mid Atlantic		1	177	10 579	11 675	_	0	102		2	14	0 50	2	452	266
New Jersey New York (Upstate) New York City Ponsylvania	23 — 14 3	10 27 22	30 64 54 78	46 166 154 212	146 146 176		0 3 1	188 5	20 2 19 4	8 14 8	1 8 	16 10 12	38 35 35 27	432 142 33 95	72 51 119
E.N. Central Illinois	9	20 97 27	194 72	660 115	635 204	4	11 1	75 10	55 7	61 10	23 	82 17	128 35	600 85	591 201
Indiana Michigan Ohio Wisconsin	1 8	9 18 27 15	53 38 65 50	20 144 255 126	42 126 162 101	1 3	1 2 3 4	14 43 17 20	6 11 18 13	4 14 12 21	1 22	7 5 42 7	39 24 80 33	9 56 382 68	171 12 138 69
W.N. Central Iowa Kansas Minnesota	31 2 7 5	52 9 7 12	148 16 29 69	479 57 56 99	349 65 31 98	32	12 2 1 2	59 21 7 21	50 10 2 16	48 14 2 8	5	16 4 2 5	39 12 5 25	91 27 30 12	152 13 2 26
Missouri Nebraska [§] North Dakota South Dakota	6 11 —	14 5 0	48 37 7 22	83 131 	95 39 6	1 	2 1 0	11 30 1 4	15 7 —	18 4 		3 0 0	14 3 3	16 5 	63 — 16 32
S. Atlantic Delaware District of Columbia	115 1	249 2 1	456 9 4	1,562 7	1,466 17 10	14	14 0 0	51 2 1	103 	85 1 2	38	57 0 0	100 1 3	442 5	597
Florida Georgia Maryland [§] North Carolina South Carolina [§] Virginia [§] Wast Virginia	43 17 6 41 6 1	97 43 13 23 18 20	174 86 36 106 55 76	671 259 107 300 110 81	763 158 100 150 128 103	2 1 11 —	2 1 2 1 3	11 7 9 21 4 27	34 8 15 36 2 5	27 3 11 9 6 18	3 4 9 21 1 	13 18 3 4 7 4	34 48 11 27 32 58	103 108 64 89 35 33	216 234 13 17 98 15
E.S. Central Alabama [§] Kentucky Mississippi Tennessee [§]	5 	58 15 10 14 14	8 138 46 18 57 60	279 76 70 59 74	348 119 58 73 98		5 1 1 0 2	3 12 3 7 2 7	17 2 3 1 11	8 44 23 7 1 13	2 — — 2	35 6 3 2 18	67 18 24 18 47	5 142 35 18 5 84	362 98 42 111 111
W.S. Central Arkansas [§] Louisiana Oklahoma Texas [§]	16 4 1 11	138 11 17 15 93	480 40 50 36 419	307 57 53 60 137	377 50 77 46 204	1 — — — 1	7 1 0 1 5	45 3 1 19 39	19 3 4 12	47 4 1 2 40	53 3 — 3 47	98 11 11 3 65	254 27 26 43 196	492 34 38 31 389	343 34 69 23 217
Mountain Arizona Colorado	11 8 —	60 20 12	110 44 43	375 156 74	430 138 103	2 1	10 1 4	39 5 18	59 3 37	57 12 11	14 12 —	23 14 2	52 33 11	214 155 16	124 51 18
Montana [§] Nevada [§] New Mexico [§] Utah	3 — —	3 2 3 7 6	15 8 9 32 19	26 22 36 18 40	20 9 34 55 50	 	2 0 1 1	15 3 2 6 9	5 2 1 6 4	7 2 7 1	2	0 0 4 2 1	1 13 12 3	2 22 18 1	
Wyoming§	_	ĩ	4	3	15	_	Ö	1	1	_	_	ò	1		3
Pacific Alaska California Hawaii	89 	114 1 84 5	530 4 516 15	976 9 743 54	785 11 629 43	8 6 	9 0 6 0	60 1 39 2	55 — 46 1	22 — 17 1	29 	32 0 27 1	82 1 75 3	241 2 190 5	209 182 8
Washington	1 14	7 12	20 155	66 104	58 44	2	1 2	8 44	8	3 1	1 5	1	10 28	16 28	11 8
American Samoa C.N.M.I. Guam		0	$\frac{1}{2}$		1 1		0	0				0	2	3	$\frac{1}{2}$
Puerto Rico U.S. Virgin Islands	_	14 0	40 0	49	114	_	0 0	0 0	_	_	_	Ö O	4 0	_	4

C.N.M.I.: Commonwealth of Northern Mariana Islands.

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		Streptococcal	diseases, inva	asive, group A	Streptococcus pneumoniae, invasive disease, nondrug resistant [†] Age <5 years							
		Previ	ious				Previ	ious				
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008		
United States	95	99	208	1,218	1,443	13	34	61	340	472		
New England	3	5	31	82	87	_	1	12	7	29		
Connecticut	_	0	26	23		—	0	11	—			
Massachusetts	3	0	3	36	63	_	0	3	4	24		
New Hampshire	_	Ő	4	12	9	_	0 0	1	2	4		
Rhode Island§	_	0	8	4	2	—	0	2	_	—		
Vermont ³		0	3	5	5	_	0	1	1			
New Jersev	18	1	35	235	304 58	2	3	19	36	63 17		
New York (Upstate)	8	6	23	83	87	2	2	19	29	24		
New York City		4	12	47	66		0	5		22		
	10	17	15	104	93	2	0	∠ 11	IN 61	11		
Illinois	<u> </u>	5	13	245 58	285		1	5	8	24		
Indiana	_	2	19	35	32	_	0	5	4	8		
Michigan	2	3 5	9 14	37	55 76		1	5	16	25 15		
Wisconsin	2	1	10	29	36	1	Ó	2	5	14		
W.N. Central	37	5	39	102	97	_	2	11	27	29		
lowa	—	0	0				0	0				
Kansas Minnesota	34	0	8	17	19	N	0	1	N	N 8		
Missouri	1	1	8	32	33	_	1	3	13	15		
Nebraska [§]	2	1	3	12	14	_	0	1	1	2		
North Dakota South Dakota	_	0	3	7	4	_	0	2		1		
S Atlantic	10	21	31	275	301	3	6	13	70	92		
Delaware		0	1	6	5		Ő	0				
District of Columbia		0	4		8	N	0	0	N	N		
Georgia	8	5	13	76 76	69 65	2	2	3	29	14 24		
Maryland§	1	3	10	43	61	<u> </u>	1	3	14	22		
North Carolina	1	2	8	28	29	N	0	0	N	N		
South Carolina [®]	1	2	с 9	20	32	_	0	6 4	15	15		
West Virginia	_	0	3	10	14	_	Ő	2	4	2		
E.S. Central		4	9	46	46		2	6	9	24		
Alabama [§]	N	0	0	N 12	N 12	N	0	0	N	N		
Mississippi	N	0	0	N	N		0	3		6		
Tennessee§	—	3	7	34	34	_	1	5	9	18		
W.S. Central	6	9	57	103	102	3	5	32	58	53		
Arkansas ^s Louisiana	_	0	2	4	2	1	0	3	8 11	3		
Oklahoma	5	2	13	54	33	2	1	7	12	21		
Texas§	1	6	44	42	60	_	4	23	27	27		
Mountain	3	9	23	107	184	2	4	11	53	81		
Colorado	2	3	8 10	32	54 56	2	2	9	36	41		
Idaho§	1	ō	2	2	6	_	Ö	1	2	1		
Montana§	N	0	0	N	N	N	0	0	N	N		
Nevada ^s New Mexico [§]	_	0	6	2	4 45	_	0	2	5	10		
Utah	_	1	ő	11	18	_	õ	4	3	13		
Wyoming§	_	0	2	1	1	—	0	1	—	—		
Pacific	1	3	8	23	37	—	1	5	10	15		
California	N	0	4	4 N	9 N	N	0	4	Ń	9 N		
Hawaii		2	8	19	28		Ō	2	3	6		
Oregon [§] Washington	N	0	0	N	N	N	0	0	N	N		
American Samoa	IN	0	10	IN	IN	N	0	0	N	N		
C.N.M.I.	_		12 —	_	_					IN		
Guam		0	0				0	0				
Puerto Rico	N	0	0	N	N	N	0	0	N	N		
u.a. virgin islands	_	U	U	_		IN	U	U	IN	IN		

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* Incidence data for reporting year 2008 and 2009 are provisional.
† Includes cases of invasive pneumococcal disease, in children aged <5 years, caused by *S. pneumoniae*, which is susceptible or for which susceptibility testing is not available (NNDSS event code 11717).
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

		S	treptococ	cus pneur	noniae, ir	vasive dis	ease, dru	g resistan	t4		_							
			All ages				Aged <5 years					Syphilis, primary and secondary						
		Prev	vious				Prev	vious				Prev	/ious					
D	Current	52 w	eeks	Cum	Cum	Current	52 w	eeks	Cum	Cum	Current	<u>52 w</u>	reeks	Cum	Cum			
Reporting area	week	Med	Max	2009	2008	week	Med	Max	2009	2008	week	Med	Max	2009	2008			
United States	52	56	100	/83	910	8	8	22	108	109	95	249	379	2,260	2,503			
Connecticut	_	0	48 48	15	16	_	0	5 5	_	_	5	5	5	18	59 3			
Maine [§]	_	0	2	3	4	_	0	1	_	_		0	2	1	2			
Massachusetts New Hampshire	_	0	0	5	_	_	0	0	_	_	5	4	11	47	48			
Rhode Island§	—	Õ	4	4	7	_	õ	1	_		4	Õ	5	4	2			
Vermont§		0	2	3	5	_	0	1	_	1		0	2	_	1			
New Jersev	1	4	14 0	31	85	1	0	2	5		27 5	34 4	51 10	382 47	371			
New York (Upstate)	_	1	6	12	13	_	Ō	1	2	1	5	2	8	21	22			
New York City Pennsylvania	1	1	5 10	19	36 36	1	0	0	3	6	11 6	23 5	37 11	258 56	221 72			
E.N. Central	10	9	40	129	183	2	1	6	17	20	7	22	35	171	244			
Illinois	Ň	Õ	0	N	N	Ň	Ó	Õ	N	Ň	_	5	14	22	103			
Indiana Michigan	_	2	31	13	54	_	0	5	_	5	7	3	10	30 48	25 30			
Ohio	10	7	18	110	123	2	1	4	17	14	_	6	19	61	72			
Wisconsin	—	0	0	—	_	—	0	0	—	—	_	1	4	10	14			
W.N. Central	1	2	8	22	73	_	0	2	6	3	_	7	14	53	94			
Kansas	_	1	4	6	33	_	Ö	1	4	1	_	ŏ	3	3	6			
Minnesota	-	0	0	16		—	0	0			_	2	6	12	25			
Nebraska§	_	0	4 0			_	0	0		_	_	4	2	2	2			
North Dakota	—	0	0	—		—	0	0	—	-	—	0	0	—	—			
Souli Dakola	24	22	∠ 51	451	294		0	14	64	54		59	107	515	416			
Delaware	1	0	1	431			0	0				0	4	7	410			
District of Columbia	N	0	0	N	N	N	0	0	N 16	N	10	2	9	26	26			
Georgia	6	7	23	290 127	203 148	1	3 1	5	46	26 23		20 13	169	209	34			
Maryland [§]		0	2	2	2		0	0		1	2	8	16	62	60			
North Carolina South Carolina [§]	N	0	0	N	N	N	0	0	N	N	10	6	19	104	56 18			
Virginia§	Ν	Õ	Õ	Ν	Ν	Ν	õ	ŏ	Ν	N	—	5	16	52	54			
West Virginia	_	1	7	27	31	_	0	2	_	4	_	0	1	1	_			
E.S. Central Alabama§	6 N	5 0	22 0	81 N	105 N	1 N	1 0	4	8 N	13 N	8	21 8	36 17	233 76	228 108			
Kentucky	5	1	6	27	21	_	0	2	3	4	1	1	10	13	14			
Mississippi Tennessee§	1	0	2 20	54	84	1	0	1	5	9	7	3	18 19	38 106	21 85			
W S Central	_	2	7	23	32	_	0	1	4	6	10	43	76	407	426			
Arkansas§	—	ō	4	11	5	—	ŏ	1	1	ž	7	3	35	60	17			
Louisiana Oklahoma	N	1	6	12 N	27 N	N	0	1	3 N	4 N	3	10	33	36 13	93 20			
Texas [§]	_	ŏ	0	_	_	_	Ő	0	_	_	_	27	41	298	296			
Mountain	_	2	7	29	31	_	0	3	4	4	2	9	18	36	125			
Arizona Colorado	_	0	0	_	_	_	0	0	_	_	_	4	13	2	66 24			
Idaho§	Ν	ŏ	1	Ν	Ν	Ν	ŏ	1	Ν	Ν	1	ò	2	2	1			
Montana [§]	—	0	1	12		—	0	0		- 1		0	7	20				
New Mexico§	_	0	1			_	ŏ	Ó		_	_	1	4	9	5			
Utah	_	1	6	12	20	_	0	3	2	3	_	0	2	_	8			
Regifie	_	0	ے ۱	4	-	—	0	1	_	-		46	71	206	 E 4 0			
Alaska	_	ő	Ó		_	_	0	Ó	_	_		40	1	300	540			
California	Ν	0	0	N	N	N	0	0	N	N	3	42	65	350	484			
Oregon [§]	N	0	0	2 N	N	N	0	0	N	N	_	0	3	7	8 4			
Washington	Ν	0	0	Ν	Ν	Ν	0	0	Ν	Ν	2	2	9	19	44			
American Samoa	Ν	0	0	Ν	N	Ν	0	0	Ν	Ν	—	0	0	—	—			
Guam	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_			
Puerto Rico	_	Ō	Ō	_	_	_	Ō	Ō	_	_	2	3	11	40	22			
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_			

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						West Nile virus disease [†]										
		Varice	ella (chicke	enpox)		Neuroinvasive Nonneuroinvasive [§]										
		Pre	vious				Prev	ious				Prev	ious			
Reporting area	Current week	52 v Med	Max	Cum 2009	Cum 2008	Current week	52 w	Max	Cum 2009	Cum 2008	Current week	52 w	Max	Cum 2009	Cum 2008	
United States	191	430	1.010	3.923	7.127		1	74		2		2	77		2	
New England	1	10	24	74	154	_	0	2	_	_	_	0	1	_	_	
Connecticut	_	0	0	_	_	_	0	2	—	_	_	0	1	_	_	
Massachusetts	_	0	1	_	_	_	0	1	_	_	_	0	0	_	_	
New Hampshire	1	4	12	50	81	_	Õ	Ó	_	_	_	Ō	Ō	_	_	
Rhode Island ¹ Vermont ¹	_	0	0 17	24	73	_	0	1	_	_	_	0	0	_	_	
Mid. Atlantic	23	43	81	395	646	_	0	8	_	_	_	0	4	_	_	
New Jersey	N	0	0	N	N	—	0	2	—	—	—	0	1	—	—	
New York (Upstate) New York City	N	0	0	N	N	_	0	5	_	_	_	0	2	_	_	
Pennsylvania	23	43	81	395	646	_	õ	2	_	_	_	õ	1	—	_	
E.N. Central	96	148	312	1,779	1,615	—	0	8	—	—	—	0	3	—	—	
Indiana	_	39	72 5	457 21	84	_	0	4	_	_	_	0	2	_	_	
Michigan	27	56	116	565	759	_	Õ	4	_	_	_	Õ	2	—	_	
Ohio Wisconsin	67 1	44	106	663 73	729	_	0	3	_	_	_	0	1	_	_	
W.N. Central	16	19	72	323	384	_	0	6	_	1	_	0	21	_	_	
lowa	N	0	0	N	N	_	Ō	2	_		_	Ō	1	_	_	
Kansas Minnesota	1	5	22	73	211	_	0	2	_	1	_	0	3 4	_	_	
Missouri	15	11	51	250	156	_	ő	3	_	_	_	ŏ	1	_	_	
Nebraska [¶]	N	0	0	Ν	N	_	0	1	—	_	_	0	6	_	_	
South Dakota	_	1	39 4	_	13	_	0	2 5	_	_	_	0	6	_	_	
S. Atlantic	50	73	163	532	1,365	_	0	3	_	_	_	0	4	_	_	
Delaware District of Columbia	_	1	5	1	5	_	0	0	_	_	_	0	1	_	_	
Florida	41	29	68	368	476	_	ŏ	2	_	_	_	ŏ	ŏ	_	_	
Georgia Mandand [¶]	N	0	0	N	N	_	0	1	_	—	—	0	1	_	_	
North Carolina	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_	
South Carolina [¶]	1	11	67	56	224	—	0	0	—	—	—	0	1	—	—	
Virginia West Virginia	8	18 11	60 33	1 106	457 198	_	0	0	_	_	_	0	1	_	_	
E.S. Central	_	13	101	16	287	_	0	7	_	_	_	0	9	_	2	
Alabama [¶]		12	101	16	284	—	0	3	—	_	—	0	2	_	—	
Kentucky Mississippi	N	0	2	N	N 3	_	0	1	_	_	_	0	0	_	1	
Tennessee [¶]	Ν	Ō	0	Ν	Ň	_	Ō	2	—	—	—	Ō	3	—	1	
W.S. Central	—	91	435	452	2,066	—	0	8	—	_	—	0	7	—	_	
Louisiana	_	1	5	19	201	_	0	3	_	_	_	0	5	_	_	
Oklahoma	Ν	0	0	N	N	_	0	1	—	_	—	0	1	—	—	
Texas Mountain		79	422	421	1,836	_	0	6 12	_	- 1	_	0	4	_	_	
Arizona		0	0			_	ő	10	_	i	_	ő	8	_	_	
Colorado		12	44	108	275	_	0	4	—	_	_	0	10	_	_	
Montana [¶]	2	5	27	66	70	_	0	0	_	_	_	0	2	_	_	
Nevada ¹	Ν	0	0	N	N	_	0	2	_	_	_	0	3	_	_	
New Mexico [⊪] Utah	_	3 11	17 55	33 108	70 165	_	0	1	_	_	_	0	1	_	_	
Wyoming [¶]	_	0	4		4	_	ŏ	ō	_	_	_	ŏ	2	_	_	
Pacific	3	3	8	37	26	—	0	38	—	—	—	0	23	—	—	
Alaska California	3	2	6	25	6	_	0	0 37	_	_	_	0	20	_	_	
Hawaii		1	4	12	20	_	Õ	0	_	_	_	Õ	0	—	_	
Oregon [¶] Washington	N	0	0	N	N	_	0	2	_	_	_	0	4	_	_	
American Samoa	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_	
C.N.M.I.	_			_		—			_	_	_			_	—	
Guam Puerto Rico	_	2	17 29	61	13 121	_	0	0	_	_	_	0	0	_	_	
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	Ō	0	_	_	

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting year 2008 and 2009 are provisional.

⁺ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.

[§] Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
[¶] Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE III. Deaths in 122 U.S. cities,* week ending March 21, 2009 (11th week)

	All causes, by age (years)								All causes, by age (years)						
Reporting area	All Ages	<u>≥</u> 65	45–64	25–44	1–24	<1	P&I [†] Total	Reporting area	All Ages	≥65	45–64	25–44	1–24	<1	P&I [†] Total
New England	580	406	132	24	13	5	56	S. Atlantic	1,327	876	296	87	37	31	74
Boston, MA	150	89	42	9	7	3	15	Atlanta, GA	210	124	59	14	5	8	4
Bridgeport, CT	34	27	5	2	_	_	4	Baltimore, MD	1/5	111	38	20	3	3	1/
Cambridge, MA	12	11	1	-	_	_	2	Charlotte, NC	142	88	37	9		1	15
Hartford CT	3 I 62	29 /1	16	2	2	_	0	Jacksonville, FL Miami, El	112	71	30	0	2	∠ 1	15
Lowell MA	23	23	10		- 5	_	5	Norfolk VA	58	28	11	1	5	_	- 5
Lynn MA	14	14	_	_	_	_	3	Bichmond VA	60	38	13	5	1	3	3
New Bedford, MA	27	19	6	1	1	_	1	Savannah, GA	47	28	13	4	_	2	1
New Haven, CT	U	U	U	U	U	U	U	St. Petersburg, FL	77	61	9	1	4	2	10
Providence, RI	59	44	12	2	1	—	2	Tampa, FL	169	122	37	6	4	_	7
Somerville, MA	2	2	_	—	_	_	_	Washington, D.C.	99	69	14	4	4	8	3
Springfield, MA	50	30	17	1	1	1	7	Wilmington, DE	20	14	4	1	_	1	3
Waterbury, CT	48	33	11	3	—	1	2	E.S. Central	972	640	231	58	19	23	78
Worcester, MA	67	44	21	2			5	Birmingham, AL	201	134	40	18	3	5	11
Mid. Atlantic	1,991	1,400	434	100	37	20	124	Chattanooga, TN	81	63	13	4	_	1	7
Albany, NY	47	32	10	3	2	_	2	Knoxville, IN	112	79	23	6	3	1	12
Allentown, PA	25	16	/	I		1	_	Lexington, KY	47	27	17	1	Ē	I C	3
Camdon NJ	25	10	12	~	1	1	4	Mobilo Al	101	75	47	10	2	2	10
Elizabeth NJ	18	10	6	2	_	1	2	Montgomery Al	55	36	11	5	2	1	5
Frie PA	61	51	6	2	1	1	5	Nashville TN	172	110	47	7	2	6	17
Jersev City, NJ	30	19	6	2	1	2	2	W.S. Central	1.383	862	364	86	32	37	92
New York City, NY	1.040	741	227	51	14	7	49	Austin, TX	69	46	15	4	3	1	2
Newark, NJ	38	19	13	4	_	2	3	Baton Rouge, LA	Ŭ	Ŭ	Ŭ	U	Ū	Ű	Ū
Paterson, NJ	14	6	5	2	1	_	2	Corpus Christi, TX	81	53	20	5	_	3	4
Philadelphia, PA	202	124	50	19	6	3	7	Dallas, TX	193	118	51	13	5	5	19
Pittsburgh, PA§	39	28	5	3	2	1	8	El Paso, TX	110	79	23	5	_	3	9
Reading, PA	24	15	7	2	—	—	1	Fort Worth, TX	U	U	U	U	U	U	U
Rochester, NY	133	103	25	2	3	—	15	Houston, TX	405	235	119	27	12	11	25
Schenectady, NY	19	16	3	_	_	—	_	Little Rock, AR	91	57	22	6	1	5	2
Scranton, PA	26	23	3			-	4	New Orleans, LA	0	144	0	15	U	U	15
Tropton NU	105	14	10	о 1	2	1	10	San Antonio, TA	228	144	5/ 15	15	0	4	15
Litica NV	17	14	1	_	1	_	1		130	70	10	6	2	1	0 0
Vonkers NV	13	13	_	_	_	_	_	Mountain	1 108	726	276	69	20	17	64
F N Central	2 050	1.388	458	108	34	58	131	Albuquerque NM	1,100	120	2/0	11	10	ŭ	11
Akron, OH	54	37	13	2	2	_	_	Boise, ID	56	39	11	5	1	_	6
Canton, OH	40	29	8	1	1	1	4	Colorado Springs, CO	115	79	23	8	1	4	_
Chicago, IL	377	219	108	31	6	9	26	Denver, CO	95	60	30	4	1	_	9
Cincinnati, OH	96	60	22	6	2	6	9	Las Vegas, NV	313	207	81	21	3	1	19
Cleveland, OH	287	212	55	5	5	10	13	Ogden, UT	32	23	7	2	_	_	3
Columbus, OH	227	160	45	15	2	5	28	Phoenix, AZ	209	115	66	13	10	5	8
Dayton, OH	142	104	31	5	1	1	13	Pueblo, CO	32	27	4		1	_	3
Detroit, MI	0	U	U	U	U	U	U	Salt Lake City, UT	130	82	28	12	2	6	5
Evansville, IN	53	39	17	2	I	2	1	Tucson, AZ	1 656	94	26	4	24	1	170
Gary IN	00 15	59	6	2	1	2	3	Berkeley CA	1,000	1,154	504	2	34	25	170
Grand Banids MI	55	43	10	2	_	_	1	Eresno CA	141	97	33	7	2	2	23
Indiananolis IN	207	131	46	14	5	11	16	Glendale CA	37	27	9	1			10
Lansing, MI	45	33	11	1	_	_	2	Honolulu, HI	76	66	8	2	_	_	8
Milwaukee. WI	95	63	21	5	2	4	4	Long Beach, CA	Ŭ	Ŭ	Ŭ	Ū	U	U	Ŭ
Peoria, IL	40	31	6	1	1	1	2	Los Angeles, CA	262	162	66	22	6	6	26
Rockford, IL	43	34	6	2	1	_	1	Pasadena, CA	16	13	1	1	1	_	3
South Bend, IN	56	33	11	9	—	3	1	Portland, OR	127	89	24	8	2	4	11
Toledo, OH	87	63	17	2	3	2	5	Sacramento, CA	195	133	50	8	3	1	16
Youngstown, OH	73	53	16	2	1	1	2	San Diego, CA	153	115	26	7	4	1	19
W.N. Central	639	428	153	36	13	8	49	San Francisco, CA	110	72	30	5	2	1	18
Des Moines, IA	79	59	16	3	—	1	6	San Jose, CA	172	128	30	6	5	3	15
Duluth, MN	41	33	7		—	1	1	Santa Cruz, CA	35	29	4	2	_	_	2
Kansas City, KS	22	16	5	1	_	—	1	Seattle, WA	109	63	32	5	3	6	6
Kansas Uity, MO	67	51	11	2	3	-	4	Spokane, WA	100	54	16	2	3	1	8
LINCOIN, INE Minnoanolia MN	52	40	11			I	5 10	Total	120	93 7000	29	6/7	ევი	224	2
Omaha NE	101	40	28	0 5	4	_	10		11,700	1,000	2,700	047	239	224	030
St Louis MO	90	47	29	11	_	2	6	1							
St. Paul. MN	54	36	15	1	1	1	5	1							
Wichita, KS	64	40	14	5	3	2	1								

U: Unavailable. —:No reported cases. * Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of >100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included. * Pneumonia and influenza.

§ Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. ¹ Total includes unknown ages.

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