

# Pathogens causing US foodborne illnesses, hospitalizations, and deaths, 2000–2008

Pathogen Type	Pathogen	Estimated annual illnesses*	Estimated annual hospitalizations*	Estimated annual deaths*
<b>Bacteria</b>	<i>Bacillus cereus</i> , foodborne	63,000	20	0
	<i>Brucella</i> spp.	840	55	1
	<i>Campylobacter</i> spp.	850,000	8,500	76
	<i>Clostridium botulinum</i> , foodborne	55	42	9
	<i>Clostridium perfringens</i> , foodborne	970,000	440	26
	<i>E. coli</i> (STEC) O157	63,000	2,100	20
	<i>E. coli</i> (STEC) non-O157	110,000	270	1
	Enterotoxigenic <i>E. coli</i> (ETEC)	18,000	12	0
	Diarrheagenic <i>E. coli</i> other than STEC and ETEC	12,000	8	0
	<i>Listeria monocytogenes</i>	1,600	1,500	250
	<i>Mycobacterium bovis</i>	60	31	3
	<i>Salmonella</i> spp., nontyphoidal	1,000,000	19,000	380
	<i>S. enterica</i> serotype Typhi	1,800	200	0
	<i>Shigella</i> spp.	130,000	1,500	10
	<i>Staphylococcus aureus</i> , foodborne	240,000	1,100	6
	<i>Streptococcus</i> spp. Group A, foodborne	11,000	1	0
	<i>Vibrio cholerae</i> , toxigenic	84	2	0
	<i>V. vulnificus</i>	96	93	36
	<i>V. parahaemolyticus</i>	35,000	100	4
	<i>Vibrio</i> spp., other	18,000	83	8
<i>Yersinia enterocolitica</i>	98,000	530	29	
<b>Parasites</b>	<i>Cryptosporidium</i> spp.	58,000	210	4
	<i>Cyclospora cayetanensis</i>	11,000	11	0
	<i>Giardia intestinalis</i>	77,000	230	2
	<i>Toxoplasma gondii</i>	87,000	4,400	330
	<i>Trichinella</i> spp.	160	6	0
<b>Viruses</b>	Astrovirus	15,000	87	0
	Hepatitis A virus	1,600	99	8
	Norovirus	5,500,000	15,000	150
	Rotavirus	15,000	350	0
	Sapovirus	15,000	87	0

\*Figures for foodborne illnesses, hospitalizations, and deaths are rounded to 2 significant digits

Sources: Scallan E, Hoekstra RM, Angulo FJ, Tauxe RV, Widdowson M-A, Roy SL, et al. Foodborne illness acquired in the United States—major pathogens. *Emerg Infect Dis* [serial on the Internet]. 2011 Jan.

[CDC Estimates of Foodborne Illness in the United States](#)