



# DuPage County Health Department R E V I E W

Volume 9, No. 5

May 2013

The purpose of this two-page surveillance update is to promote the control and prevention of communicable disease (CD) by providing clinically relevant information and resources to healthcare professionals in DuPage County.



111 North County Farm Road  
Wheaton, IL 60187  
(630) 682-7400  
www.dupagehealth.org

Linda Kurzawa  
President, Board of Health

Maureen McHugh  
Executive Director

Rashmi Chugh, MD, MPH  
Medical Officer

## General Information

Communicable Disease  
and Epidemiology  
(630) 221-7553

Environmental Health  
(630) 682-7400

Immunizations  
(630) 682-7400

Sexually  
Transmitted Diseases  
(630) 221-7553

HIV/AIDS  
(630) 221-7553

Tuberculosis  
(630) 221-7522

School Health  
(630) 221-7300

Travel Clinic  
(630) 682-7400

Animal Care & Control  
(630) 407-2800

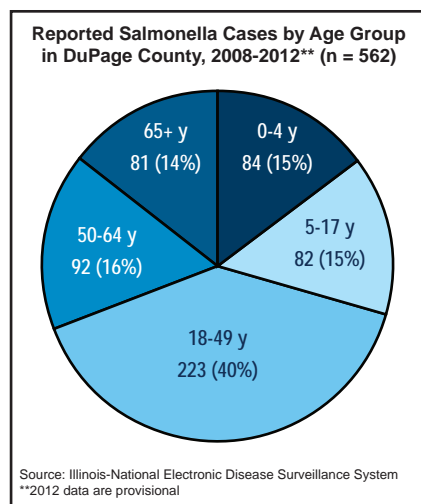
Please contact  
Communicable Disease  
and Epidemiology at  
(630) 221-7553 or  
palak.panchal@  
dupagehealth.org  
to send suggestions  
or to be added to the  
distribution list.



## Under the Microscope Salmonellosis

For questions or to report suspect and known cases of salmonellosis, please call the DuPage County Health Department at (630) 221-7553.

Contaminated food consumed in the U.S. causes an estimated 48 million illnesses, 128,000 hospitalizations, and 3,000 deaths annually.<sup>1</sup> Foodborne illnesses are a substantial health burden in the U.S., and the most commonly reported enteric pathogens include *Salmonella*, Shiga toxin-producing *Escherichia coli* O157 (STEC O157), *Shigella*, *Campylobacter*, *Listeria*, *Cryptosporidium*, *Vibrio*, and *Yersinia*.<sup>2</sup> Among the communicable diseases caused by these pathogens, ***Salmonella*** is the most frequently reported. The most common serotypes in the U.S. remain ***Salmonella*** Typhimurium, ***S. Enteritidis***, and ***S. Newport***.<sup>2</sup>



Most persons with salmonellosis, or infection with *Salmonella* bacteria, develop diarrhea, fever, and abdominal cramps 12 to 72 hours after exposure. The illness usually lasts 4 to 7 days, and most persons recover without treatment other than rehydration and electrolyte replacement.<sup>3</sup>

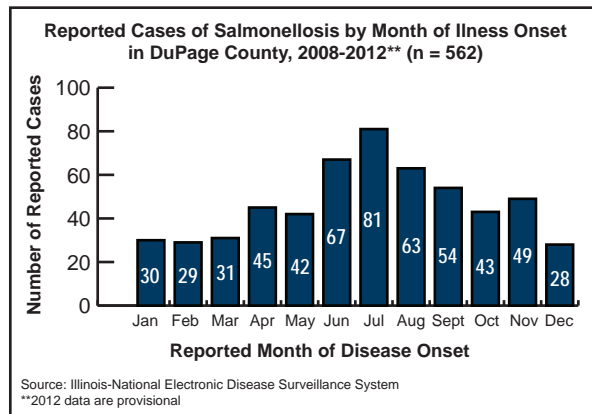
**Antibiotic therapy is not routinely recommended for uncomplicated cases**, since it may not eliminate the carrier state, and may lead to resistant strains or more severe infections.<sup>4</sup> However, in some persons, severe illness may require hospitalization and antimicrobial therapy due to high fever or manifestations of extra-intestinal infection. The elderly, infants, and those with sickle cell disease or impaired immune systems are more likely to develop severe illness.<sup>3,4</sup>

Transmission of *Salmonella* to humans usually occurs by eating foods contaminated with animal feces. Contaminated foods are often of animal origin, such as beef, poultry, milk, or eggs, but any food, including vegetables, may become contaminated. Many raw foods of animal origin are frequently contaminated, but fortunately, thorough cooking (to at least 165° F) kills *Salmonella*. Food may also become contaminated by the unwashed hands of an infected food handler, who did not wash his or her hands with soap after using the bathroom. Salmonellosis is more common in the summer than winter.<sup>3</sup>

*Salmonella* may also be found in the feces of some pets (e.g., reptiles, birds, hedgehogs), especially those with diarrhea. People can become infected if they do not wash their hands after contact with pets or their environments, even if the pet is healthy.<sup>3,5</sup>

### Tips for Prevention:

- Cook poultry, ground beef, and eggs thoroughly (to at least 165° F) before eating. Do not eat or drink foods containing raw eggs (e.g., homemade caesar salad dressing, eggnog, hollandaise sauce, ice cream, or cookie dough), or raw unpasteurized milk.
- Wash hands, kitchen work surfaces, and utensils with soap and water immediately after they have been in contact with raw meat or poultry.
- Wash fresh produce before preparation or consumption.
- Wash hands with soap after contact with pets (e.g., reptiles, birds, hedgehogs) or their environments.
- Avoid direct or even indirect contact between reptiles (turtles, iguanas, other lizards, snakes) and children under 5 years of age or immunocompromised persons.
- Mother's milk is the safest food for young infants. Breastfeeding prevents salmonellosis and many other health problems.<sup>6</sup>



### References:

1. [www.cdc.gov/mmwr/preview/mmwrhtml/mm6022a5.htm?s\\_cid=mm6022a5\\_w](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6022a5.htm?s_cid=mm6022a5_w)
2. [www.cdc.gov/mmwr/preview/mmwrhtml/mm6215a2.htm](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6215a2.htm)
3. [www.cdc.gov/nczved/divisions/dfbmd/diseases/salmonellosis/](http://www.cdc.gov/nczved/divisions/dfbmd/diseases/salmonellosis/)
4. Heymann D., Editor. *Control of Communicable Diseases Manual*. 19th ed. American Public Health Association; 2008.
5. [www.cdc.gov/mmwr/preview/mmwrhtml/mm6204a3.htm](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6204a3.htm)
6. [www.cdc.gov/salmonella/general/prevention.html](http://www.cdc.gov/salmonella/general/prevention.html)

**DUPAGE COUNTY HEALTH DEPARTMENT**  
**CASES<sup>1</sup> OF REPORTABLE DISEASES\***

\* Last updated by the Illinois Department of Public Health in March 2008

**CD REVIEW**  
Volume 9, No. 5 May 2013

	Report Within	2013		2012		2011		2010		2009		Median	
		Apr	Jan-Apr	Jan-Apr	Total	Jan-Apr	Total	Jan-Apr	Total	Jan-Apr	Total	Jan-Apr	Total ('09-'12)
<b>Vaccine Preventable Diseases</b>													
Chickenpox (varicella)	24 hrs	5	23	43	93	31	82	51	95	56	146	43	94
Diphtheria	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Haemophilus influenzae, invasive	24 hrs	0	1	5	11	4	15	3	7	3	11	3	11
Hepatitis A	24 hrs	0	1	0	8	2	8	2	3	2	6	2	7
Hepatitis B	7 days	0	1	1	5	0	0	0	4	4	8	1	4.5
Hepatitis B (carriers)	7 days	13	35	38	97	34	113	37	108	48	127	37	110.5
Influenza, deaths in < 18 yrs old	7 days	1	1	0	0	0	0	0	0	0	1	0	0
Influenza, ICU admissions	24 hrs	3	53	5	59	23	24	0	3	NR	NR	14	24
Measles (rubeola)	24 hrs	0	0	0	0	0	0	0	0	1	1	0	0
Mumps	24 hrs	0	0	1	1	1	3	0	2	0	2	0	2
Neisseria meningitidis, invasive	24 hrs	0	0	0	0	1	2	0	1	2	6	0	1.5
Pertussis (whooping cough)	24 hrs	2	12	87	195	48	268	10	92	5	26	12	143.5
Poliomyelitis	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Streptococcus pneumoniae, invasive disease, in those < 5 yrs old	7 days	1	2	2	5	7	13	4	8	4	8	4	8
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
<b>Other Communicable Diseases</b>													
Anaplasmosis <sup>2</sup>	7 days	0	0	0	2	0	3	0	0	0	0	0	1
Anthrax	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Botulism, foodborne	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Botulism, other	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Brucellosis	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
California encephalitis <sup>3</sup>	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Cholera	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Creutzfeldt-Jakob disease	7 days	0	0	0	1	1	3	1	1	0	0	0	1
Cryptosporidiosis	7 days	0	0	1	2	0	5	0	5	2	5	0	5
Cyclosporiasis	7 days	0	1	0	0	0	0	0	0	0	1	0	0
Dengue fever <sup>3</sup>	7 days	0	0	0	1	1	1	2	4	0	4	0	2.5
Ehrlichiosis <sup>2</sup>	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Enteric E. coli infections <sup>4</sup>	24 hrs	0	5	5	18	6	22	5	18	4	12	5	18
Giardiasis	7 days	2	5	14	34	5	44	21	49	13	40	13	42
Glomerulonephritis <sup>5</sup>	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Hantavirus pulmonary syndrome	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Hemolytic uremic syndrome	24 hrs	0	0	0	1	0	1	0	0	0	0	0	0.5
Hepatitis C (cases & carriers)	7 days	7	54	67	171	62	189	66	187	82	213	66	188
Hepatitis D	7 days	0	0	0	0	0	1	0	0	0	0	0	0
Histoplasmosis	7 days	0	0	0	2	0	1	2	2	1	2	0	2
Influenza A, novel virus	3 hrs	0	0	0	0	0	0	11	11	3	181	0	5.5
Legionellosis	7 days	0	4	5	25	1	14	2	11	2	13	2	13.5
Leprosy	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Listeriosis	7 days	0	0	0	2	1	2	1	6	1	3	1	2.5
Lyme disease <sup>2</sup>	7 days	0	0	1	27	0	32	1	19	0	18	0	23
Malaria	7 days	1	2	1	2	1	7	1	4	1	4	1	4
Ophthalmia neonatorum	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Plague	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Psittacosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Q fever <sup>6</sup>	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, human case	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, potential exposure	24 hrs	1	5	2	43	3	30	7	54	0	15	3	36.5
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever <sup>5</sup>	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rocky Mountain spotted fever <sup>2</sup>	7 days	0	0	0	1	0	0	0	0	0	0	0	0
Salmonellosis	7 days	6	22	25	123	28	95	28	136	25	89	25	109
Severe Acute Respiratory Syndrome	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	7 days	2	3	7	20	7	22	258	277	5	12	7	21
Smallpox	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Smallpox vaccination, complications	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
St. Louis encephalitis <sup>3</sup>	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Staphylococcus aureus, methicillin resistant (MRSA), in those < 61 days old	24 hrs	0	0	1	7	1	3	1	6	2	6	1	6
Staphylococcus aureus, methicillin resistant (MRSA), community cluster <sup>7</sup>	24 hrs	0	0	1	1	0	0	1	1	0	1	0	1
Staphylococcus aureus (vancomycin-resistant)	24 hrs	0	0	0	0	0	1	1	1	0	0	0	0.5
Streptococcal infections, group A invasive disease <sup>8</sup>	24 hrs	3	11	10	20	18	30	8	20	7	14	10	20
Toxic shock syndrome <sup>9</sup>	7 days	0	0	0	0	1	1	0	0	0	0	0	0
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	0	10	5	26	8	18	10	26	11	29	10	26
Tularemia	3 hrs	0	0	0	1	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	0	0	1	2	3	3	2	3	2	5	2	3
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Vibriosis (non-cholera)	7 days	0	0	1	4	0	3	0	1	0	2	0	2.5
West Nile disease <sup>3</sup>	7 days	0	0	0	56	0	2	0	17	0	0	0	9.5
Yersiniosis	7 days	0	0	3	3	1	3	0	0	2	5	1	3
<b>STDs, HIV and AIDS</b>													
AIDS <sup>10</sup> (April - June)	7 days	--	6	**	17	**	16	10	26	**	19	**	18
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	94	505	570	1650	473	1599	516	1542	539	1555	516	1577
Gonorrhea	7 days	14	73	74	196	64	241	78	223	72	225	73	224
HIV infection <sup>10</sup> (April - June)	7 days	--	6	6	20	**	24	13	27	11	40	8.5	25.5
Syphilis	7 days	0	3	7	12	13	24	3	25	13	33	7	24.5

DuPage County healthcare providers and hospitals **must report any suspected or confirmed case of these diseases** to the local health authorities within the number of hours or days indicated.

**REPORTING NUMBERS:**

**Communicable Diseases**  
(630) 221-7553  
24 hours: (630) 682-7400

**Tuberculosis**  
(630) 221-7522

**STDs**  
(630) 221-7553

**HIV/AIDS:**  
(630) 221-7553

- <sup>1</sup> Provisional cases, based on date of onset
  - <sup>2</sup> Listed in CD Rules and Regulations under "Tickborne Disease"
  - <sup>3</sup> Listed in CD Rules and Regulations under "Arboviral Infections"
  - <sup>4</sup> O157:H7, STEC, EIEC, ETEC, EPEC
  - <sup>5</sup> Listed in CD Rules and Regulations under "Streptococcal infections, group A invasive disease sequelae"
  - <sup>6</sup> Q fever case in 2004 not related to any suspected bioterrorism threat or event
  - <sup>7</sup> Two or more laboratory-confirmed cases of community onset MRSA infection during a 14 day period
  - <sup>8</sup> Includes streptococcal toxic shock syndrome and necrotizing fasciitis
  - <sup>9</sup> Due to *Staphylococcus aureus*
  - <sup>10</sup> HIV/AIDS data are provided quarterly by IDPH and are provisional, based on date of diagnosis
- NR = Not reported  
\*\* = Count of 5 cases or less

**Websites**

**CDC:**  
[www.cdc.gov](http://www.cdc.gov)

**IDPH:**  
[www.idph.state.il.us](http://www.idph.state.il.us)

**DuPage:**  
[www.dupagehealth.org](http://www.dupagehealth.org)

Archived issues of *CD Review* are available at:  
[www.dupagehealth.org/publications](http://www.dupagehealth.org/publications)