



# DuPage County Health Department R E V I E W

Volume 2, No. 6

June 2006



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## Contact Information

Communicable Disease  
(630) 682-7979, ext. 7553

Environmental Health  
(630) 682-7979, ext. 7046

Immunizations  
(630) 682-7400

Sexually Transmitted Diseases  
(630) 682-7979, ext. 7575

HIV/AIDS  
(630) 682-7979, ext. 7310

Tuberculosis  
(630) 682-7522

School Health  
(630) 682-7979, ext. 7300

Travel Clinic  
(630) 682-7979, ext. 7590

Animal Control  
(630) 407-2800

Please contact Shaun Nelson, MPH  
at (630) 682-7979, ext. 7175 or  
snelson@dupagehealth.org to  
send suggestions or to be added  
to the distribution list.

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.



## Under the Microscope Salmonellosis

For questions or to report suspect and known cases of salmonellosis, please call **Communicable Disease Services** at 630-682-7979, extension 7553.

Foodborne illnesses are a substantial health burden in the United States, and the most commonly reported enteric pathogens include *Campylobacter*, *Listeria*, *Salmonella*, Shiga toxin--producing *Escherichia coli* O157 (STEC O157), *Shigella*, and *Yersinia*.<sup>1</sup> Among the communicable diseases caused by these pathogens, *Salmonella* is the most frequently reported.

Approximately 40,000 cases of *Salmonella* infection are reported annually in the United States, and because many milder cases are not diagnosed (by stool culture) or reported to the local health department, the actual number is an estimated 1.4 million cases of infection.<sup>2,3</sup>

In Illinois, about 1,500 to 2,500 cases of salmonellosis are reported each year, with DuPage County averaging approximately 105 cases annually in recent years.<sup>4</sup>

The majority of reported cases of salmonellosis in the U.S. occur during July through October (similar to the seasonal pattern in DuPage County). The most common serotypes in the United States remain *Salmonella* Typhimurium, *S. Enteritidis*, and *S. Newport*.

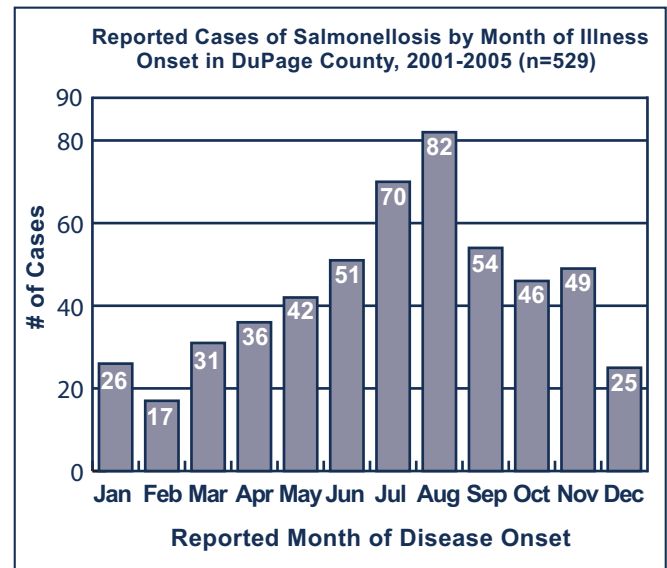
**Transmission** of *Salmonella* to humans usually occurs by eating foods contaminated with animal feces. Contaminated foods are often of animal origin, such as beef, poultry, milk, or eggs, but all foods, including vegetables, may become contaminated. Many raw foods of animal origin are frequently contaminated, 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 forgot to wash his or her hands with soap after using the bathroom.<sup>2</sup>

*Salmonella* may also be found in the feces of some pets, especially those with diarrhea, and people can become infected if they do not wash their hands after contact with these feces. Reptiles are particularly likely to harbor *Salmonella* and people should always wash their hands immediately after handling a reptile, even if the reptile is healthy. Adults should also be careful that children wash their hands after handling a reptile.<sup>2</sup>

**Treatment** for uncomplicated salmonellosis usually includes replacement of fluids and electrolytes. Antibiotic therapy is not routinely recommended for uncomplicated cases, since it may not eliminate the carrier state, and may lead to resistant strains. However, antibiotic therapy should be considered for infants, the chronically ill (e.g., persons with sickle cell disease or immunocompromised patients) and the elderly to prevent *Salmonella*-triggered local infections or bacteremia.<sup>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, hollandaise sauce, ice cream, or cookie dough) or raw unpasteurized milk.
- Wash hands, kitchen work surfaces, cutting boards, 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 handling reptiles or birds, or after contact with pet feces.
- Avoid direct or even indirect contact between reptiles (turtles, iguanas, other lizards, snakes) and infants, young children, or immunocompromised persons.



1. [http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5514a2.htm?s\\_cid=mm5514a2\\_e](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5514a2.htm?s_cid=mm5514a2_e)

2. [http://www.cdc.gov/ncidod/dbmd/diseaseinfo/salmonellosis\\_g.htm](http://www.cdc.gov/ncidod/dbmd/diseaseinfo/salmonellosis_g.htm)

3. [http://www.cdc.gov/ncidod/dbmd/diseaseinfo/salmonellosis\\_t.htm](http://www.cdc.gov/ncidod/dbmd/diseaseinfo/salmonellosis_t.htm)

4. <http://www.idph.state.il.us/public/hb/hbsam.htm>

5. Heymann D., Editor. *Control of Communicable Diseases Manual*. 18th ed. American Public Health Association; 2004.

**DUPAGE COUNTY HEALTH DEPARTMENT**

**CASES<sup>1</sup> OF REPORTABLE DISEASES\***

Required by the Illinois Department of Public Health (IDPH)

\* Last updated July 2002

**CD REVIEW**

Volume 2, No. 6 June 2006

Vaccine Preventable Diseases	Report Within	2006			2005			2004		2003		2002		Median	
		May 2006	Jan-May	Jan-May	Total	Jan-May	Total	Jan-May	Total	Jan-May	Total	Jan-May	Total ('02-'05)		
Chickenpox in those < 20 yrs old	7 days	17	133	149	225	190	273	238	342	664	939	190	308		
Chickenpox in those ≥ 20 yrs old	24 hrs	0	5	7	7	7	13	7	10	18	28	7	12		
Diphtheria	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Haemophilus influenzae</i> , invasive disease	24 hrs	0	4	5	10	2	6	3	4	5	11	4	8		
Hepatitis A	24 hrs	3	5	1	9	11	27	5	20	4	11	5	16		
Hepatitis B	7 days	1	2	2	6	6	8	5	12	4	7	4	8		
Hepatitis B (carriers)	7 days	3	51	52	147	69	146	71	136	91	199	69	147		
Measles	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Mumps	7 days	7	13	0	0	1	1	1	3	3	3	1	2		
<i>Neisseria meningitidis</i>	24 hrs	0	2	2	4	1	1	0	1	3	5	2	3		
Pertussis	24 hrs	0	12	12	29	8	127	8	13	5	12	8	21		
Poliomyelitis	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Rubella	7 days	0	0	0	0	0	0	0	0	0	1	0	0		
<i>Streptococcus pneumoniae</i> , invasive disease	7 days	7	36	41	64	28	62	42	97	32	65	36	64		
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Other Communicable Diseases</b>															
Amebiasis	7 days	0	0	0	0	2	3	2	2	0	5	0	3		
Anthrax	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Blastomycosis	7 days	0	1	4	5	1	5	5	8	4	5	4	5		
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	7 days	0	0	0	0	0	0	0	0	1	1	0	0		
Campylobacteriosis	7 days	9	32	55	151	47	143	41	136	44	146	44	145		
Cholera	24 hrs	0	0	0	0	0	0	0	1	0	0	0	0		
Cryptosporidiosis	7 days	0	0	0	3	2	2	2	4	0	4	0	4		
Cyclosporiasis	7 days	0	0	1	2	23	23	0	0	0	0	0	1		
Diarrhea of the newborn	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Ehrlichiosis	7 days	0	0	0	0	0	0	0	1	0	0	0	0		
Encephalitis <sup>2</sup>	7 days	0	2	3	7	0	0	0	1	0	2	0	2		
Enteric <i>E. coli</i> infections <sup>3</sup>	24 hrs	0	0	9	17	0	11	0	4	8	25	0	14		
Giardiasis	7 days	1	11	24	47	20	64	37	88	32	79	24	72		
Glomerulonephritis	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Hantavirus pulmonary syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0		
Hemolytic uremic syndrome	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Hepatitis C (cases & carriers)	7 days	0	89	101	238	87	189	94	193	92	223	92	208		
Hepatitis, viral, other <sup>4</sup>	7 days	0	0	0	0	1	1	0	0	0	0	0	0		
Histoplasmosis	7 days	0	0	0	0	2	6	1	2	0	4	0	3		
Legionnaires' disease	7 days	3	4	3	4	1	5	1	8	1	5	1	5		
Leprosy	7 days	0	0	0	0	0	0	0	0	0	0	0	0		
Leptospirosis	7 days	0	0	1	1	0	0	0	0	0	1	0	1		
Listeriosis	7 days	0	1	0	2	0	2	0	2	0	0	0	2		
Lyme disease	7 days	0	0	2	12	2	9	0	8	0	6	0	9		
Malaria	7 days	1	2	3	5	0	8	2	4	2	3	2	5		
Meningitis, aseptic <sup>2</sup>	7 days	6	31	31	123	21	116	21	174	21	122	21	123		
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>5</sup>	3 hrs	0	0	0	0	0	1	0	0	1	1	0	1		
Rabies, human case	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Rabies, potential exposure	24 hrs	3	8	9	24	4	18	6	10	6	26	6	21		
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0		
Rheumatic fever	24 hrs	1	1	1	1	0	0	0	0	0	0	0	0		
Rocky Mountain spotted fever	7 days	1	1	0	0	0	1	0	0	0	0	0	0		
Salmonellosis	7 days	5	28	34	119	26	107	32	99	31	111	31	109		
Shigellosis	7 days	1	5	4	29	0	15	24	44	10	44	5	37		
Smallpox	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Staphylococcus aureus</i> (in those < 28 days old)	7 days	0	1	0	3	2	4	2	2	1	1	1	3		
<i>Staphylococcus aureus</i> (vancomycin-resistant)	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Streptococcal infections, group A invasive	24 hrs	2	14	3	10	10	15	15	23	9	12	10	14		
Streptococcal infections, group B invasive (in those < 3 mos old)	7 days	0	1	1	5	1	3	0	3	1	1	1	3		
Toxic shock syndrome <sup>6</sup>	24 hrs	0	0	1	3	2	6	3	4	2	2	2	4		
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0		
Tuberculosis	7 days	3	19	14	33	16	46	12	62	8	32	14	40		
Tularemia	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
Typhoid fever	24 hrs	0	1	1	2	2	2	0	1	0	3	1	2		
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0		
West Nile disease	7 days	0	0	0	47	0	5	0	4	0	44	0	25		
Yersiniosis	7 days	0	0	2	2	0	2	0	0	0	1	0	2		
<b>STDs, HIV and AIDS</b>															
AIDS (Jan - Mar) <sup>7</sup>	7 days	---	2	10	29	7	21	10	21	11	28	10	25		
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0		
Chlamydia	7 days	132	555	534	1215	382	948	362	939	371	904	382	944		
Gonorrhea	7 days	19	77	87	205	83	210	90	209	94	234	87	210		
HIV infection (Jan - Mar) <sup>7</sup>	7 days	---	5	6	33	9	26	8	31	9	22	8	29		
Syphilis	7 days	2	7	1	15	1	9	9	18	5	10	5	13		

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) 682-7979, ext. 7553  
24 hours: (630) 682-7400

**Tuberculosis**  
(630) 682-7522

**STDs**  
(630) 682-7979, ext. 7575

**HIV/AIDS:**  
(630) 682-7979, ext. 7310

<sup>1</sup> Provisional cases, based on date of onset

<sup>2</sup> Excludes West Nile disease

<sup>3</sup> O157:H7, STEC, EHEC, ETEC, EPEC

<sup>4</sup> Includes hepatitis D and E

<sup>5</sup> Q fever cases in 2002 and 2004 not related to any suspected bioterrorism threat or event

<sup>6</sup> Includes streptococcal (reportable within 24 hours) and presumed staphylococcal (reportable within 7 days)

<sup>7</sup> HIV/AIDS data are provided quarterly by IDPH and are provisional, based on date of diagnosis

**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)