



DuPage County Health Department R E V I E W

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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 Care & Control
(630) 407-2800

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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.

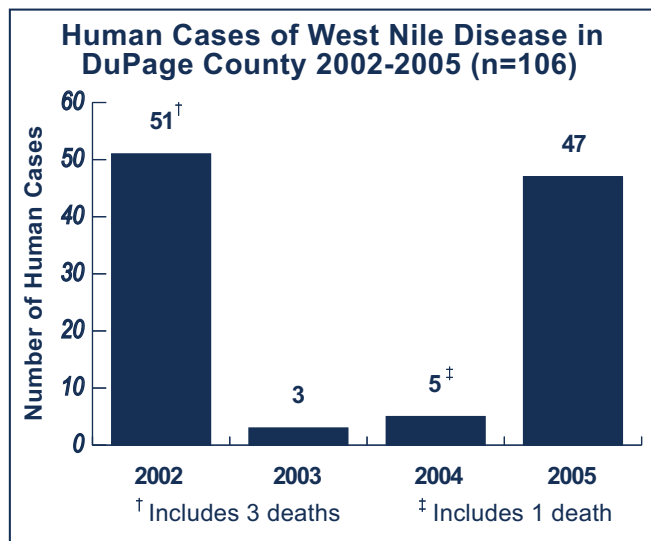


Under the Microscope West Nile Virus

For questions or to report suspect and known cases of West Nile virus, please call Communicable Disease Services at 630-682-7979, ext. 7553.

West Nile virus emerged in the United States in the New York metropolitan area in the fall of 1999. Since then, the virus, which can be transmitted to humans by the bite of an infected mosquito, has quickly spread across the country.¹

In Illinois, West Nile virus was first identified in September **2001** when laboratory tests confirmed its presence in two dead crows found in the Chicago area. In **2002**, the state's first human cases and deaths from West Nile disease were recorded and all but two of the state's 102 counties eventually reported a positive human, bird, mosquito or horse case. By the end of 2002, Illinois had counted more human cases (884) and deaths (67) than any other state in the nation. In **2003**, the epicenter of West Nile disease moved westward. Colorado reported the highest number of cases (2,947), easily surpassing the caseload record for the mosquito-borne disease set the previous year by Illinois. The number of West Nile human cases in Illinois fell dramatically with just 54 reported and one death. Illinois' caseload in **2004** was slightly higher than the previous year with 60 reported cases and four deaths. For the second consecutive year, the country's western states had the most cases with California leading the way with 771, followed by Arizona with 391 and Colorado with 276. In **2005**, Illinois' reported cases increased to 252, including 12 deaths; the first human cases were reported on July 29th and the first death occurred on August 27th.¹



The timely identification and reporting of persons with acute WNV or other arboviral infections may have significant public health implications and will likely augment the public health response to reduce the risk of additional human infections.² West Nile virus disease may be classified as **West Nile fever** or **neuroinvasive disease** cases, based on clinical and laboratory criteria.³ Mild cases of West Nile infections (West Nile fever) may cause a slight fever or headache. More severe infections (neuroinvasive disease, including West Nile encephalitis, meningitis, and myelitis) are marked by a rapid onset of a high fever with head and body aches, disorientation, tremors, convulsions, and rarely, paralysis or death. Usually symptoms occur from 3 to 14 days after the bite of an infected mosquito, and generally last for 3 to 6 days. Persons at the highest risk for serious illness are those 50 years of age or older. Treatment is supportive, often involving hospitalization, intravenous fluids, respiratory support, and prevention of secondary infections for patients with severe disease.⁴

The best way to **prevent** West Nile disease or any other mosquito-borne illness is to reduce the number of mosquitoes around your home and neighborhood and to take personal precautions to avoid mosquito bites. Here are some suggestions:

- Avoid being outdoors when mosquitoes are most active, especially between dusk and dawn.
- When outdoors, wear shoes and socks, long pants and a long-sleeved shirt, and apply insect repellent that includes DEET, picaridin or oil of lemon eucalyptus according to label instructions.
- Make sure doors and windows have tight-fitting screens. Try to keep doors and windows shut, especially at night.
- **Eliminate all sources of standing water that can support mosquito breeding**, including water in birdbaths, ponds, flowerpots, wading pools, tire swings and any other receptacles.

References:

1. <http://www.idph.state.il.us/envhealth/wnv.htm>
2. <http://www.cdc.gov/ncidod/dvbid/westnile/clinicians/reporting.htm>
3. <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5528a4.htm>
4. <http://www.idph.state.il.us/envhealth/wnvclinicians.htm#treat>

DUPAGE COUNTY HEALTH DEPARTMENT

CASES¹ OF REPORTABLE DISEASES*

Required by the Illinois Department of Public Health (IDPH)

* Last updated July 2002

CD REVIEW

Volume 2, No. 8 August 2006

Vaccine Preventable Diseases	Report Within	2006		2005		2004		2003		2002		Median	
		July 2006	Jan-July	Jan-July	Total	Jan-July	Total	Jan-July	Total	Jan-July	Total	Jan-July	Total ('02-'05)
Chickenpox in those < 20 yrs old	7 days	2	135	152	225	190	273	247	342	753	939	190	308
Chickenpox in those ≥ 20 yrs old	24 hrs	1	7	7	7	9	13	8	10	25	28	8	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	8	10	3	6	3	4	6	11	4	8
Hepatitis A	24 hrs	0	5	2	9	13	27	9	20	4	11	5	16
Hepatitis B	7 days	0	3	4	6	6	8	8	12	7	7	6	8
Hepatitis B (carriers)	7 days	8	89	92	147	92	146	89	136	117	199	92	147
Measles	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	7 days	0	19	0	0	1	1	1	3	3	3	1	2
<i>Neisseria meningitidis</i>	24 hrs	0	2	3	4	1	1	1	1	4	5	2	3
Pertussis	24 hrs	0	15	16	29	34	127	8	13	7	12	15	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	5	47	46	64	34	62	48	97	37	65	47	64
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Other Communicable Diseases													
Amebiasis	7 days	0	1	0	0	3	3	2	2	1	5	1	3
Anthrax	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Blastomycosis	7 days	0	3	4	5	3	5	6	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	54	99	151	78	143	76	136	96	146	78	145
Cholera	24 hrs	0	0	0	0	0	0	1	1	0	0	0	0
Cryptosporidiosis	7 days	1	2	1	3	2	2	2	4	1	4	2	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	1	0	0	0	0	1	1	0	0	0	0
Encephalitis ²	7 days	1	7	4	7	0	0	0	1	1	2	1	2
Enteric <i>E. coli</i> infections ³	24 hrs	2	3	11	17	1	11	2	4	20	25	3	14
Giardiasis	7 days	1	21	30	47	30	64	49	88	41	79	30	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	5	147	134	238	120	189	120	193	126	223	126	208
Hepatitis, viral, other ⁴	7 days	0	0	0	0	1	1	0	0	0	0	0	0
Histoplasmosis	7 days	0	1	0	0	3	6	1	2	1	4	1	3
Legionnaires' disease	7 days	1	5	3	4	4	5	3	8	2	5	3	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	1	2	1	2	0	2	0	0	1	2
Lyme disease	7 days	4	5	9	12	8	9	1	8	0	6	5	9
Malaria	7 days	0	3	3	5	3	8	3	4	3	3	3	5
Meningitis, aseptic ²	7 days	12	54	49	123	56	116	47	174	28	122	49	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 ⁵	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	0	13	17	24	6	18	6	10	10	26	10	21
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever	24 hrs	0	1	1	1	0	0	0	0	0	0	0	0
Rocky Mountain spotted fever	7 days	0	1	0	0	0	1	0	0	0	0	0	0
Salmonellosis	7 days	11	52	66	119	53	107	58	99	46	111	53	109
Shigellosis	7 days	2	10	10	29	4	15	31	44	17	44	10	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	1	2	0	3	3	4	2	2	1	1	2	3
<i>Staphylococcus aureus</i> (vancomycin-resistant)	24 hrs	1	1	0	0	0	0	0	0	0	0	0	0
Streptococcal infections, group A invasive	24 hrs	0	14	3	10	11	15	16	23	9	12	11	14
Streptococcal infections, group B invasive (in those < 3 mos old)	7 days	1	2	3	5	1	3	0	3	1	1	1	3
Toxic shock syndrome ⁶	24 hrs	1	1	2	3	5	6	4	4	2	2	2	4
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	3	22	24	33	27	46	18	62	14	32	22	40
Tularemia	3 hrs	1	1	0	0	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	1	2	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	1	47	0	5	1	3	0	51	0	26
Yersiniosis	7 days	0	0	2	2	1	2	0	0	0	1	0	2
STDs, HIV and AIDS													
AIDS (Jan-June) ⁷	7 days	---	10	18	30	11	20	18	22	13	28	13	25
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	121	736	592	1215	548	948	524	939	513	904	548	944
Gonorrhea	7 days	12	100	99	205	124	210	120	209	127	234	120	210
HIV infection (Jan-June) ⁷	7 days	---	16	18	36	14	26	16	32	12	22	16	29
Syphilis	7 days	1	15	3	15	3	9	14	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

¹ Provisional cases, based on date of onset

² Excludes West Nile disease

³ O157:H7, STEC, EHEC, ETEC, EPEC

⁴ Includes hepatitis D and E

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

⁶ Includes streptococcal (reportable within 24 hours) and presumed staphylococcal (reportable within 7 days)

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

Websites

CDC:
www.cdc.gov

IDPH:
www.idph.state.il.us

DuPage:
www.dupagehealth.org

Archived issues of *CD Review* are available at:

www.dupagehealth.org/health_data/cd-review.html