



DuPage County Health Department R E V I E W

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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

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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

Mycobacterium tuberculosis

For questions or to report a suspect or known case of TB, please call the TB Clinic at (630) 682-7522. All services for active TB cases and their contacts, including medication, are free of charge.

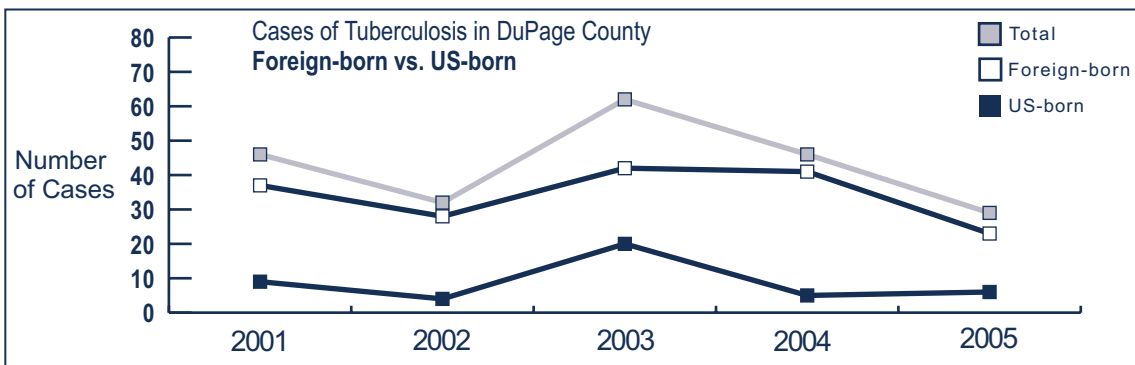
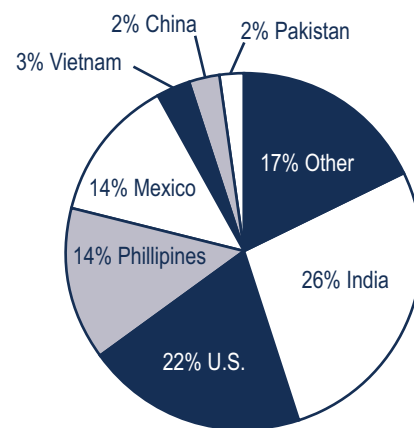
"TB anywhere is TB everywhere" is the theme for **2007 World TB Day on March 24th**, offering a message of urgency and shared responsibility.¹ This annual event commemorates the date in 1882 when Dr. Robert Koch announced his discovery of *M. tuberculosis*, the bacterium that causes tuberculosis (TB).²

Although the incidence of TB is now occurring at a historic low in the United States (14,097 cases in 2005), the proportion of total cases occurring in foreign-born persons has been increasing since 1993.³ TB remains a global threat, with more than 2 million TB-related deaths each year. Emerging and expanding global challenges include **multidrug-resistant TB (MDR-TB)**, **extensively drug-resistant TB (XDR-TB)**, and **HIV-related TB**. TB can be cured and controlled; with continued collaborative, diligent efforts and sufficient resources, TB may eventually be eliminated.⁴

According to recently published recommendations for controlling tuberculosis in the United States, **four prioritized strategies exist to prevent and control TB in the United States:**

- 1) **early and accurate detection, diagnosis, and reporting of TB cases** leading to initiation and completion of treatment,
- 2) **identification of contacts** of patients with infectious TB and treatment of those at risk with an effective drug regimen,
- 3) **identification of other persons with latent TB infection (LTBI)** at risk for progression to TB disease and **treatment of those persons with an effective drug regimen**, and
- 4) **identification of settings in which a high risk exists for transmission of *Mycobacterium tuberculosis*** and application of effective infection control measures.⁵

Cases of Tuberculosis in DuPage County by Country of Origin, 2001-2005 (n=216)



Dispelling the Myth: Testing for TB in BCG-Vaccinated Persons

Many foreign-born persons have been BCG-vaccinated. BCG vaccination may cause a positive reaction to the tuberculin skin test (TST), which may complicate decisions about prescribing treatment. Despite this potential for BCG to interfere with test results, the TST and the QuantiFERON-TB test (QFT) are **not contraindicated for persons who have been vaccinated with BCG**. The presence or size of a TST reaction in these persons does not predict whether BCG will provide any protection against TB disease. Furthermore, **the size of a TST reaction in a BCG-vaccinated person is not a factor** in determining whether the reaction is caused by LTBI or the prior BCG vaccination. **Evaluation of TST reactions in persons vaccinated with BCG should be interpreted using the same criteria for those not BCG-vaccinated.**⁶

References:

1. http://www.stoptb.org/events/world_tb_day/2007/planning.asp
2. <http://www.cdc.gov/nchstp/tb/WorldTBDay/default.htm>
3. <http://www.cdc.gov/nchstp/tb/sur/sur2005/PDF/TBSurFULLReport.pdf>
4. <http://www.cdc.gov/nchstp/tb/pubs/howisthetime/pageone.htm>
5. <http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5412a1.htm>
6. <http://www.cdc.gov/nchstp/tb/pubs/tbfactsheets/250120.htm>

DUPAGE COUNTY HEALTH DEPARTMENT

CASES¹ OF REPORTABLE DISEASES*

Required by the Illinois Department of Public Health (IDPH)

* Last updated July 2002

CD REVIEW

Volume 3, No. 3 March 2007

Vaccine Preventable Diseases	Report Within	2007		2006		2005		2004		2003		Median	
		Feb 2007	Jan-Feb	Jan-Feb	Total	Jan-Feb	Total	Jan-Feb	Total	Jan-Feb	Total	Jan-Feb	Total ('03-'06)
Chickenpox in those < 20 yrs old	7 days	21	30	44	244	66	225	136	273	131	342	66	259
Chickenpox in those ≥ 20 yrs old	24 hrs	0	1	3	8	0	7	2	13	2	10	2	9
Diphtheria	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
<i>Haemophilus influenzae</i> , invasive disease	24 hrs	0	0	4	7	5	10	2	6	1	4	2	7
Hepatitis A	24 hrs	2	3	1	9	1	9	1	27	0	20	1	15
Hepatitis B	7 days	0	1	0	5	0	6	2	8	2	12	1	7
Hepatitis B (carriers)	7 days	2	6	32	139	20	147	32	146	18	136	20	143
Measles	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	7 days	3	5	0	129	0	0	1	1	0	3	0	2
<i>Neisseria meningitidis</i>	24 hrs	0	0	1	2	1	4	1	1	0	1	1	2
Pertussis	24 hrs	0	4	11	25	5	29	4	127	1	12	4	27
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	0	0	0
<i>Streptococcus pneumoniae</i> , invasive disease	7 days	5	10	17	67	15	64	11	62	15	97	13	66
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Other Communicable Diseases													
Amebiasis	7 days	0	0	0	2	0	0	0	3	1	2	0	2
Anthrax	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Blastomycosis	7 days	0	0	1	6	2	5	0	5	2	8	1	6
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	0	0	0	0
Campylobacteriosis	7 days	7	17	10	105	19	151	20	143	15	136	17	140
Cholera	24 hrs	0	0	0	0	0	0	0	0	0	1	0	0
Cryptosporidiosis	7 days	0	0	0	9	0	3	0	2	1	4	0	4
Cyclosporiasis	7 days	0	0	0	0	0	2	1	23	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	2	0	0	0	0	0	1	0	1
Encephalitis ²	7 days	0	0	3	14	2	7	0	0	0	1	0	4
Enteric <i>E. coli</i> infections ³	24 hrs	0	0	0	11	0	17	0	11	0	4	0	11
Giardiasis	7 days	3	4	5	43	13	47	6	64	18	88	6	56
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	3	5	51	239	45	238	38	189	36	193	38	216
Hepatitis, viral, other ⁴	7 days	0	0	0	0	0	0	0	1	0	0	0	0
Histoplasmosis	7 days	0	0	0	1	0	0	2	6	1	2	0	2
Legionnaires' disease	7 days	0	0	0	8	2	4	1	5	1	8	1	7
Leprosy	7 days	0	0	0	1	0	0	0	0	0	0	0	0
Leptospirosis	7 days	0	0	0	0	0	1	0	0	0	0	0	0
Listeriosis	7 days	0	0	1	6	0	2	0	2	0	2	0	2
Lyme disease	7 days	0	0	0	11	0	12	0	9	0	8	0	10
Malaria	7 days	1	1	0	6	1	5	0	8	2	4	1	6
Meningitis, aseptic ²	7 days	0	5	9	102	13	123	5	116	8	174	8	120
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	0	0	1	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	1	2	27	0	24	2	18	1	10	1	21
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever	24 hrs	0	0	0	1	0	1	0	0	0	0	0	1
Rocky Mountain spotted fever	7 days	0	0	0	1	0	0	0	1	0	0	0	1
Salmonellosis	7 days	0	5	10	98	12	120	0	107	13	99	10	103
Shigellosis	7 days	1	1	1	26	6	35	0	15	15	44	1	31
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	0	0	4	0	3	1	4	1	2	0	4
<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	0	2	7	17	1	10	4	15	4	23	4	16
Streptococcal infections, group B invasive (in those < 3 mos old)	7 days	1	1	1	2	0	5	1	3	0	3	1	3
Toxic shock syndrome ⁶	24 hrs	0	0	0	1	0	3	1	6	2	4	0	4
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	2	4	5	44	0	29	5	46	4	62	4	47
Tularemia	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	0	0	1	2	1	2	2	2	0	1	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	42	0	47	0	5	0	3	0	24
Yersiniosis	7 days	0	0	0	0	0	2	0	2	0	0	0	1
STDs, HIV and AIDS													
AIDS ⁷	7 days	---	---	---	22	---	30	---	20	---	22	---	22
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	76	190	212	1310	171	1215	150	948	159	939	171	1082
Gonorrhea	7 days	13	29	27	183	31	205	32	210	43	209	31	207
HIV infection ⁷	7 days	---	---	---	22	---	38	---	38	---	31	---	30
Syphilis	7 days	0	1	4	24	0	15	1	9	3	18	1	17

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 case in 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