

DUPAGE COUNTY HEALTH DEPARTMENT

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General Information

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

Environmental Health (630) 682-7400

Immunizations (630) 682-7400

Sexually Transmitted Diseases (630) 682-7979, ext. 7553

HIV/AIDS (630) 682-7979, ext. 7553

Tuberculosis (630) 682-7979, ext. 7522

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

> Travel Clinic (630) 682-7400

Animal Care & Control (630) 407-2800

Please contact Communicable Disease and Epidemiology at (630) 682-7979, ext. 7553 or ebarajas@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.

Mycobacterium tuberculosis

For questions or to report a suspect or known case of TB, please call the TB Clinic at (630) 682-7979, ext. 7522. All services for active TB cases and their contacts, including medication, are free of charge.

World TB Day is observed each year on March 24 to commemorate the date in 1882 when Robert Koch announced the discovery of *Mycobacterium tuberculosis*, the bacterium that causes tuberculosis (TB).¹ Worldwide, TB remains one of the leading causes of death from infectious disease: **one-third of the world's population is infected with TB.** Each year, over 9 million people around the world become sick with TB, and each year, there are almost 2 million deaths worldwide.² World TB Day provides an opportunity for TB programs, nongovernmental organizations, and others partners to describe problems and solutions related to the TB pandemic and to support worldwide TB control efforts. The U.S. theme for 2011's observance is **TB Elimination: Together We Can!**¹



<u>TB Testing</u>: Clinicians, laboratorians, and public health departments must remain vigilant to guard against the resurgence of TB. TB testing should be performed in persons with active TB symptoms and contacts of persons with active TB disease. In addition, TB testing should also occur in persons at higher risk for having latent TB infection, such as those who 1) are homeless, 2) have lived in a country with a high prevalence of TB, 3) have injected illegal drugs, 4) spent time personally or professionally in a setting associated with higher rates of TB transmission (e.g., prison or health care institutions), or 5) have HIV infection or another condition that weakens the immune system and puts them at high risk for active TB disease (e.g., prolonged immunosuppressive drug therapy).⁴

Dispelling the Myth: Testing for TB in BCG-Vaccinated Persons Many foreign-born persons have been BCG-vaccinated. BCG vaccination may cause a false-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 TB blood tests (interferon-gamma release



assays or IGRAs) are <u>not contraindicated for persons who have been vaccinated with BCG</u>.^{4,5} 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 latent TB infection (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**. In addition, TB blood tests (interferon-gamma release assays or IGRAs), unlike the TB skin tests, are **not affected by prior BCG vaccination** and are not expected to give a false-positive result in persons who have received prior BCG vaccination.⁴

References: 1. www.cdc.gov/mmwr/PDF/wk/mm6011.pdf 2. www.cdc.gov/Features/WorldTBDay/ 3. www.idph.state.il.us/public/press11/3.23.11TB_Awareness.htm 4. www.cdc.gov/tb/topic/testing/default.htm

www.cdc.gov/tb/topic/testing/default.htm
www.cdc.gov/tb/publications/factsheets/testing/IGRA.htm

"We promote health, prevent illness, and provide quality service."

DUPAGE COUNTY HEALTH DEPARTMENT CASES¹ OF REPORTABLE DISEASES*

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

CD REVIEW

Volume 7, No. 3 March 2011

| | | 2011 | | 2010 | | 2009 | | 2008 | | 20 | 2007 | | edian | DuPage County healthcare |
|---|-------------------|------|-------|-------|-------|-------|---------|-------|---------|-------|-------|-------|-----------|--|
| | Report | | Jan - | Jan - | | Jan - | | Jan - | | Jan - | | Jan - | Total | providers and hospitals must |
| Vaccine Preventable Diseases | Within | Feb | Feb | Feb | Total | Feb | Total | Feb | Total | Feb | Total | Feb | ('07-'10) | report any suspected or |
| Chickenpox (varicella) | 24 hrs | 2 | 8 | 16 | 96 | 24 | 146 | 47 | 236 | 31 | 177 | 24 | 161.5 | confirmed case of these |
| Diphtheria | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | diseases to the level health |
| Haemophilus Influenzae, Invasive | 24 hrs | 2 | 2 | 1 | 6 | 1 | 11 | 0 | 6 16 | 1 | 26 | 2 | 6 15 | diseases to the local health |
| Hepatitis B | 7 days | 0 | 0 | 0 | 3 | 3 | 8 | 0 | 4 | 3 | 20 | 0 | 6 | authorities within the number of |
| Hepatitis B (carriers) | 7 days | 4 | 10 | 14 | 96 | 26 | 129 | 29 | 128 | 28 | 168 | 26 | 128.5 | hours or days indicated. |
| Influenza, deaths in < 18 yrs old | 7 days | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | NR | NR | 0 | 0 | |
| Measles (rubeola) | 24 hrs | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 15 | 0 | 0 | 0 | 0.5 | REPORTING NUMBERS: |
| Mumps | 24 hrs | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 2 | 5 | 13 | 1 | 2 | |
| Nelsseria meningitidis, invasive | 24 hrs | 11 | 22 | 0 | 1 | 2 | 0 26 | 0 | 4 | 0 | 1 | 0 | 2.5 | Communicable Diseases |
| Poliomvelitis | 24 hrs | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 19.5 | (630) 682-7979, ext. 7553 |
| Rubella | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 hours: (630) 682-7400 |
| Streptococcus pneumoniae, invasive | | | | | | | | | | | | | | |
| disease, in those < 5 yrs old | 7 days | 3 | 4 | 2 | 8 | 2 | 8 | 1 | 6 | 0 | 10 | 2 | 8 | Tuberculosis |
| Tetanus Othor Communicable Diseases | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (630) 682-7070 evt 7522 |
| Anoplosmosis ² | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NID | ND | 0 | 0 | (030) 002-1919, 6xt. 1522 |
| Anthrax | 3 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | CTD |
| Botulism, foodborne | 3 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | SIDS |
| Botulism, other | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | (630) 682-7979, ext. 7553 |
| Brucellosis | 3 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| California encephalitis ³ | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NR | NR | 0 | 0 | HIV/AIDS: |
| Cholera | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | (630) 682-7979. ext. 7553 |
| Creutzfeldt-Jakob disease | 7 days | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | NR | NR | 0 | 0 | |
| Cryptosporidiosis | 7 days | 0 | 0 | 0 | 5 | 1 | 5 | 0 | 2 | 0 | 5 | 0 | 5 | ¹ Provisional cases, based on date of onset |
| Cyclosporiasis | 7 days | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Dengue fever | 7 days | 0 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 2.5 | ² Listed in CD Rules and Regulations under |
| Ehrlichiosis ² | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | "Tickborne Disease" |
| Enteric E. coli infections ⁴ | 24 hrs | 0 | 2 | 2 | 20 | 2 | 12 | 1 | 21 | 0 | 7 | 2 | 16 | 3 Listed in CD Pulse and Regulations under |
| Giardiasis | 7 days | 1 | 1 | 12 | 50 | 7 | 42 | 7 | 57 | 9 | 68 | 7 | 53.5 | "Arboviral Infections" |
| | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hantavirus pulmonary syndrome | 24 nrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ⁴ O157:H7, STEC, EIEC, ETEC, EPEC |
| Henolytic dreffic syndrome | Z4 IIIS Z dave | 7 | 20 | 36 | 182 | 54 | 238 | 14 | 261 | 53 | 301 | 14 | 249.5 | |
| Hepatitis D | 7 days | 0 | 20 | 0 | 102 | 0 | 230 | - 44 | 201 | NR | NR | - 44 | 243.3 | ⁵ Listed in CD Rules and Regulations under |
| Histoplasmosis | 7 days | 0 | 0 | 0 | 2 | 1 | 2 | 2 | 6 | 0 | 6 | 0 | 4 | disease sequelae" |
| Influenza A, ICU admissions | 3 hrs | 13 | 17 | 0 | 3 | NR | NR | NR | NR | NR | NR | NR | NR | |
| Influenza A, novel virus | 3 hrs | 0 | 0 | 8 | 11 | 0 | 181 | 0 | 0 | NR | NR | 0 | 11 | ⁶ Q fever case in 2004 not related to any |
| Legionellosis | 7 days | 0 | 0 | 2 | 11 | 0 | 13 | 1 | 5 | 0 | 13 | 0 | 12 | suspected bioterrorism threat or event |
| Leprosy | 7 days | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 Two or more laboratory-confirmed cases of |
| Leptospirosis | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | community onset MRSA infection during a 14 |
| Listeriosis | 7 days | 0 | 1 | 0 | 6 | 1 | 3 | 0 | 1 | 0 | 1 | 0 | 2 | day period |
| Lyme disease ² | 7 days | 0 | 0 | 0 | 18 | 0 | 18 | 0 | 17 | 0 | 16 | 0 | 17.5 | |
| Malaria | 7 days | 0 | 0 | 0 | 4 | 1 | 4 | 1 | 5 | 1 | 7 | 1 | 4.5 | ⁸ Includes streptococcal toxic shock syndrome and population foodlitio |
| Ophthalmia neonatorum | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | and necrolizing fascillis |
| Plague | 3 nrs 7 dave | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ⁹ Due to Staphylococcus aureus |
| Ω fever ⁶ | 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 | ¹⁰ HIV/AIDS data are provided quarterly by |
| Rabies, potential exposure | 24 hrs | 2 | 2 | 0 | 54 | 0 | 15 | 1 | 46 | 1 | 52 | 1 | 49 | IDPH and are provisional, based on date of |
| Reye syndrome | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | lagilosis |
| Rheumatic fever ⁵ | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NR = Not reported |
| Rocky Mountain spotted fever ² | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Salmonellosis | 7 days | 5 | 8 | 16 | 139 | 13 | 90 | 14 | 108 | 17 | 140 | 14 | 123.5 | ** = Count of 5 cases or less |
| Severe Acute Respiratory Syndrome | 3 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NR | NR | 0 | 0 | |
| Shigellosis | 7 days | 0 | 4 | 204 | 277 | 4 | 13 | 6 | 28 | 2 | 18 | 4 | 23 | MALE STOL |
| Smallpox | 3 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | vvedsites |
| Smallpox vaccination, complications | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NR | NR | 0 | 0 | 000 |
| St. LOUIS encephalitis | / days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NR | NR | 0 | 0 | |
| resistant (MRSA) in those | | L | | | | | | | | L | | L | | www.cuc.gov |
| < 61 days old | 24 hrs | 0 | 1 | 0 | e | 2 | 6 | 0 | 3 | NP | NR | 0.5 | e e | |
| Staphylococcus aureus methicillin | 61117 <u>4</u> | 5 | ' | 0 | 0 | 2 | 0 | | 5 | | INIX | 0.0 | 0 | или idob stato il us |
| resistant (MRSA) community cluster ⁷ | 24 hrs | 0 | 0 | 0 | 4 | 0 | 1 | | | NP | ND | 0 | 4 | พพพพพ.เนрп.รเลเษ.แ.นร |
| Staphylococcus aureus | 241113 | 0 | 0 | | ' | 0 | · ' | 0 | 4 | | INIX | | | DuPage |
| (vancomvcin-resistant) | 24 hrs | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0.5 | www.dupagebealth.org |
| Streptococcal infections, group A | 21110 | | Ŭ | · · · | | | Ŭ | Ŭ | Ť | Ň | | | 0.0 | www.dupageneann.org |
| invasive disease ⁸ | 24 hrs | 3 | 5 | 3 | 21 | 5 | 14 | 1 | 16 | 2 | 11 | 3 | 15 | |
| Toxic shock syndrome ⁹ | 7 days | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0.5 | |
| Trichinosis | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | - 0 | 0 | 0 | |
| Tuberculosis | 7 days | 2 | 5 | 2 | 24 | 5 | 29 | 2 | 43 | 4 | 27 | 4 | 28 | |
| Tularemia | 3 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Typhoid fever | 24 hrs | 0 | 1 | 2 | 3 | 1 | 5 | 0 | 3 | 0 | 7 | 1 | 4 | |
| Typhus | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Vibriosis (non-cholera) | 7 days | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | |
| West Nile disease ³ | 7 days | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 1 | 0 | 10 | 0 | 5.5 | |
| Yersiniosis | 7 days | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 1 | 0 | 1 | 0 | 1 | Archived issues of <i>CD Review</i> are |
| STDs, HIV and AIDS | , | | | | | | | - | | - | | - | | available at: |
| AIDS ¹⁰ (January - March) | 7 days | | | 10 | 26 | ** | 19 | 6 | 22 | ** | 20 | 4.5 | 21 | Manual dupogoboolth org/publication- |
| Chancroid | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | www.uupageneaitn.org/publications |
| Chiamydia | / days | 78 | 193 | 233 | 1326 | 285 | 1555 | 239 | 1587 | 196 | 1522 | 233 | 1538.5 | |
| | / days | 15 | 29 | 36 | 199 | 33 | 225 | 46 | 268 | 31 | 251 | 33 | 238 | |
| HIV INTECTION (January - March) | / days | | | 13 | 27 | 11 | 40 | 6 | 23 | | 22 | 8.5 | 25 | |
| Syphillis | i uays | 2 | 3 | 1 | 23 | 6 | - 33 | ð | 18 | 1 | 18 | 3 | ∠0.5 | |