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General Information

Communicable Disease
(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) 682-7400

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
Disease Control 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.

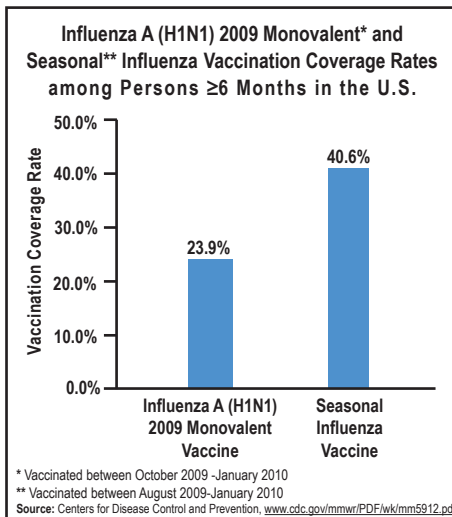


Under the Microscope Influenza

For information on locations offering influenza vaccination, please call the DuPage County Health Department at (630) 682-7400.

In the U.S., annual epidemics of influenza occur typically during the late fall through early spring. Influenza viruses can cause disease among persons in any age group, but **rates of infection are highest among children, and rates of serious illness and death are highest among persons aged ≥65 years, children aged <2 years, and persons of any age who have medical conditions** that place them at increased risk for complications from influenza.¹

Influenza vaccination is the most effective method for preventing influenza virus infection and its potentially severe complications.² Two significant updates in the 2010 recommendations of the Advisory Committee on Immunization Practices (ACIP) are:



1. **Routine influenza vaccination is recommended for all persons aged 6 months and older.** This represents an expansion of the previous recommendations for annual vaccination of all adults aged 19-49 years and is supported by evidence that annual influenza vaccination is a safe and effective preventive health action with potential benefit in all age groups.³

2. The 2010-11 trivalent vaccines will contain A/California/7/2009 (H1N1)-like, A/Perth/16/2009 (H3N2)-like, and B/Brisbane/60/2008-like antigens. The influenza A (H1N1) vaccine virus is derived from a 2009 pandemic influenza A (H1N1) virus.³ **Persons aged 6 months or older should receive the seasonal influenza vaccine this year, even if they received 2009 H1N1 or seasonal influenza vaccine last year.**

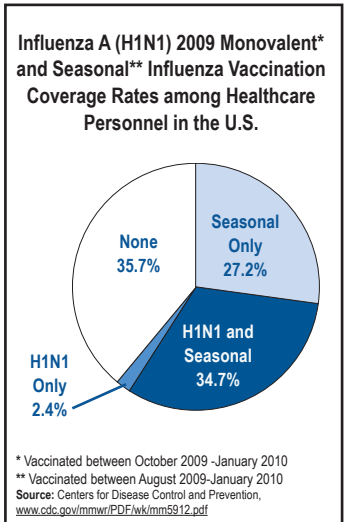
All healthcare personnel (HCP) and persons in training for healthcare professions should be vaccinated against influenza annually, and should also follow handwashing, respiratory hygiene, and other infection control recommendations to prevent influenza transmission. Persons working in healthcare settings who should be vaccinated include **physicians, nurses, and other workers in both hospital and outpatient care settings, medical**

emergency response workers (e.g., paramedics and emergency medical technicians), employees of nursing home and long-term care facilities who have contact with patients or residents, and students in these professions who will have contact with patients.¹

Facilities that employ HCP should provide vaccine to workers by using approaches that have been demonstrated to be effective in increasing vaccination coverage. **The HCP influenza coverage goal should be vaccination of 100% of employees who do not have medical contraindications.** Healthcare administrators should consider the level of vaccination coverage among HCP to be one measure of a patient safety quality program. Influenza vaccination rates among HCP within facilities should be measured regularly and reported, and ward-, unit-, and specialty-specific coverage rates should be provided to staff and administration.¹

For healthcare facilities licensed by the Illinois Department of Public Health, per the recently adopted Health Care Employee Vaccination Code, **"Each health care setting shall maintain a system to track the offer of vaccination to health care employees. The system shall include documentation that each person either accepted the offer or declined the offer by signing a declination statement pursuant to subsection (c)(2)."**⁴

Pneumococcal Vaccine: The time of administration of influenza vaccine should also be used as an opportunity to identify and vaccinate patients recommended to receive pneumococcal vaccine (e.g., children, persons who are immunocompromised, asplenic, or with chronic illness including asthma, smokers, adults 65 years of age or older). Recommendations are available at www.cdc.gov/vaccines/vpd-vac/pneumo/default.htm.



References:

1. www.cdc.gov/mmwr/pdf/rr/r5908.pdf
2. www.cdc.gov/flu/professionals/vaccination/vax-summary.htm
3. www.cdc.gov/flu/professionals/acip/primarychanges.htm
4. www.ilga.gov/commission/jcar/admincode/077/07700956sections.html

DUPAGE COUNTY HEALTH DEPARTMENT

CASES¹ OF REPORTABLE DISEASES*

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

CD REVIEW

Volume 6, No. 9 September 2010

Vaccine Preventable Diseases	Report Within	2010		2009		2008		2007		2006		Median	
		Aug	Jan - Aug	Jan - Aug	Total	Jan - Aug	Total	Jan - Aug	Total	Jan - Aug	Total	Jan - Aug	Total ('06-'09)
Chickenpox (varicella)	24 hrs	5	77	93	146	119	236	120	177	144	252	119	206.5
Diphtheria	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Haemophilus influenzae, invasive	24 hrs	1	4	7	11	2	6	4	5	5	7	4	6.5
Hepatitis A	24 hrs	0	4	8	14	14	16	20	26	8	12	8	15
Hepatitis B	7 days	0	2	5	8	4	4	5	9	1	4	4	6
Hepatitis B (carriers)	7 days	3	56	78	109	90	128	123	168	108	159	90	143.5
Influenza, deaths in < 18 yrs old	7 days	0	0	0	1	0	0	NR	NR	NR	NR	0	0.5
Measles (rubeola)	24 hrs	0	0	1	1	15	15	0	0	0	0	0	0.5
Mumps	24 hrs	0	0	2	2	2	2	11	13	21	130	2	7.5
Neisseria meningitidis, invasive	24 hrs	0	1	3	6	2	4	1	1	2	2	2	3
Pertussis (whooping cough)	24 hrs	8	27	14	26	6	13	7	9	22	26	14	19.5
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	0	4	6	8	1	6	6	10	6	8	6	8
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Other Communicable Diseases													
Anaplasmosis ²	7 days	0	0	0	0	0	0	NR	NR	NR	NR	0	0
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	1	1	0	0	0	0
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	NR	NR	NR	NR	0	0
Cholera	24 hrs	0	0	0	0	1	1	0	0	0	0	0	0
Creutzfeldt-Jakob disease	7 days	0	0	0	0	0	0	NR	NR	1	1	0	0
Cryptosporidiosis	7 days	2	4	3	4	1	2	2	5	7	9	3	4.5
Cyclosporiasis	7 days	0	0	1	1	0	0	0	0	0	0	0	0
Dengue fever ³	7 days	0	2	2	4	0	0	1	1	2	2	2	1.5
Ehrlichiosis ²	7 days	0	0	0	0	0	0	1	1	1	2	0	0.5
Enteric E. coli infections ⁴	24 hrs	1	15	8	11	14	21	7	7	7	8	8	9.5
Giardiasis	7 days	8	36	29	40	46	57	58	68	28	47	36	52
Glomerulonephritis ⁵	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	0	1	1	0	0	0	0	0	0
Hepatitis C (cases & carriers)	7 days	7	122	170	221	184	261	215	301	185	272	184	266.5
Hepatitis D	7 days	0	0	0	0	0	0	NR	NR	NR	NR	0	0
Histoplasmosis	7 days	0	3	1	2	4	6	3	6	1	1	3	4
Influenza A, novel virus	3 hrs	0	11	49	181	0	0	NR	NR	NR	NR	11	90.5
Legionellosis	7 days	2	9	7	13	2	5	8	13	7	9	7	11
Leprosy	7 days	0	0	1	1	0	0	0	0	1	1	0	0.5
Leptospirosis	7 days	0	0	0	0	0	0	1	1	0	0	0	0
Listeriosis	7 days	1	3	2	3	0	1	1	1	1	6	1	2
Lyme disease ²	7 days	2	15	16	18	14	17	15	16	9	10	15	16.5
Malaria	7 days	1	2	4	4	5	5	6	7	3	6	4	5.5
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 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
Rabies, potential exposure	24 hrs	21	45	13	15	41	46	46	52	27	28	41	37
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ²	24 hrs	0	0	0	0	0	0	0	0	1	1	0	0
Rocky Mountain spotted fever ²	7 days	0	0	0	0	0	0	0	0	1	1	0	0
Salmonellosis	7 days	13	98	64	91	75	108	106	140	71	103	75	105.5
Severe Acute Respiratory Syndrome	3 hrs	0	0	0	0	0	0	NR	NR	NR	NR	0	0
Shigellosis	7 days	2	263	9	13	22	28	13	18	20	27	20	22.5
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	NR	NR	NR	NR	0	0
St. Louis encephalitis ³	7 days	0	0	0	0	0	0	NR	NR	NR	NR	0	0
Staphylococcus aureus, methicillin resistant (MRSA), in those < 61 days old	24 hrs	2	7	5	6	0	3	NR	NR	NR	NR	5	4.5
Staphylococcus aureus, methicillin resistant (MRSA), community cluster ⁷	24 hrs	0	1	1	1	1	4	NR	NR	NR	NR	1	2.5
Staphylococcus aureus (vancomycin-resistant)	24 hrs	0	1	0	0	0	0	1	1	0	0	0	0
Streptococcal infections, group A invasive disease ⁸	24 hrs	1	14	10	15	11	16	9	11	16	18	11	15.5
Toxic shock syndrome ⁸	7 days	0	0	0	0	1	1	1	2	1	1	1	1
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	2	20	18	29	29	43	23	27	31	44	23	36
Tularemia	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	0	2	4	5	1	3	2	7	2	2	2	4
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Vibriosis (non-cholera)	7 days	1	1	1	2	0	0	1	1	1	2	1	1.5
West Nile disease ³	7 days	5	5	0	0	1	1	5	10	31	43	5	5.5
Yersiniosis	7 days	0	0	3	4	1	1	1	1	0	0	1	1
STDs, HIV and AIDS													
AIDS ¹⁰ (April - June)	7 days	10	16	15	20	11	22	12	20	20	32	15	21
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	103	925	1047	1362	1022	1587	858	1522	904	1346	925	1442
Gonorrhea	7 days	18	142	146	198	177	268	136	251	125	192	142	224.5
HIV infection ¹⁰ (April - June)	7 days	7	23	21	35	12	23	10	22	18	25	18	24
Syphilis	7 days	1	13	21	33	11	18	11	18	16	24	13	21

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) 682-7979, ext. 7522

STDs
(630) 682-7979, ext. 7553

HIV/AIDS:
(630) 682-7400

- ¹ Provisional cases, based on date of onset
 - ² Listed in CD Rules and Regulations under "Tickborne Disease"
 - ³ Listed in CD Rules and Regulations under "Arboviral Infections"
 - ⁴ O157:H7, STEC, EIEC, ETEC, EPEC
 - ⁵ Listed in CD Rules and Regulations under "Streptococcal infections, group A invasive disease sequelae"
 - ⁶ Q fever case in 2004 not related to any suspected bioterrorism threat or event
 - ⁷ Two or more laboratory-confirmed cases of community onset MRSA infection during a 14 day period
 - ⁸ Includes streptococcal toxic shock syndrome and necrotizing fasciitis
 - ⁹ Due to *Staphylococcus aureus*
 - ¹⁰ 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

IDPH:
www.idph.state.il.us

DuPage:
www.dupagehealth.org

Archived issues of *CD Review* are available at:
www.dupagehealth.org/publications