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Human Cases of H1N1 flu Updates

June 30, 2009

U.S.

- 27,717 cases
- 127 deaths
- 53 states and territories, including DC, Virgin Islands and Puerto Rico

Worldwide

- 70,893 cases
- 311 deaths
- 70 + countries

Missouri

- 55 cases
- 1 death

West Nile Virus: Increased Risk of Human Disease in Missouri

News Release—June 30, 2009

Human cases of West Nile Virus (WNV) typically surface in July in Missouri and can continue through October. Though the number of Missouri cases has decreased over the past six years, the virus still poses the risk of serious illness, debilitation and even death, said Dr. Howard Pue, the public health veterinarian for Missouri.



Incidence of WNV

A total of 15 cases were reported in Missouri in 2008, which was a record low in the seven years the virus has been present in Missouri. But Dr. Pue warned that the drop in 2008 likely resulted from cool early summer temperatures and frequent rainfall, which had the effect of flushing out many mosquito breeding locations.

Nearly 450 Missourians have become ill and 24 have died from West Nile Virus since the virus was first reported in the state in 2002. Many cases are not reported, so the true number of WNV-related illnesses is certainly higher. It is clear that West Nile Virus is now well established in Missouri and across the United States, Pue said. One in five persons infected with WNV will develop symptoms, although most will have only a mild, flu-like disease. For most, illness lasts a few days. But the illness can last several weeks, even in otherwise healthy people.

Symptoms can include:

- Fever,
- Headache,
- Body aches,
- Nausea,
- Vomiting, and
- Sometimes swollen lymph glands or
- Skin rash.



Dr. Pue warned that some people, particularly those over 50 years and those with underlying medical conditions, can develop severe disease with life-altering consequences. The virus can cause polio-like paralysis or encephalitis and meningitis. These two conditions can cause inflammation around the brain, thus causing neurological damage and can be fatal.

Prevention & Control of risks of WNV

- Use insect repellents with DEET, picaridin, or oil of lemon eucalyptus when outdoors. Re-apply if needed.
- Wear long sleeves and pants when the mosquitoes are most active; between dusk and dawn;
- Fix or install window and door screens;
- Eliminate potential mosquito breeding sites by emptying standing water.

Locally, 5 cases of Neuro-invasive and one non-neuro invasive West Nile Virus were reported in Joplin and McDonald County in 2007. One Neuro -invasive WNV was reported in Jasper County in 2008. No reported cases in 2009.

Adapted from Missouri Department of Health and Senior Services. Pictures: Eastern Idaho PH

Communicable Diseases Report

Table 1

Cumulative Cases From January Through End of June 2009, By Local Jurisdiction (2008 & 2009) (Includes confirmed, probable and suspect cases)														
CONDITION / YEAR BY LPHA	JOPLIN		JASPER		BARTON		DADE		MCDONALD		VERNON		NEWTON	
	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009
ANIMAL BITES	69	88	48	75	1	0	2	0	4	9	2	0	14	7
CAMPYLOBACTERIOSIS	3	4	12	12	1	0	2	0	1	0	3	4	4	2
COCCIDIOIDOMYCOSIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0
CRYPTOSPORIDIOSIS	0	0	1	0	0	1	0	0	1	1	6	2	2	4
E. COLI SHIGA TOXIN	1	0	8	3	0	0	0	0	0	0	0	0	0	1
E. COLI O157 H7	0	0	0	0	0	0	1	0	1	1	0	0	0	1
EHRlichia CHAFFEENSIS	0	1	1	2	2	0	0	0	1	1	1	0	2	1
GIARDIASIS	1	0	0	2	0	0	1	0	0	0	2	0	0	0
HAEMOPHILUS INFLUENZAE	0	0	0	1	0	0	0	0	0	0	0	0	0	0
HEPATITIS A ACUTE	0	0	0	1	0	0	0	0	0	1	0	0	0	1
HEPATITIS B PREGNANCY	0	2	2	1	0	0	0	0	0	0	0	0	1	0
HEPATITIS B ACUTE	2	5	2	1	0	0	2	1	0	1	0	1	3	1
HEPATITIS B CHRONIC	5	1	2	3	1	0	0	0	0	0	2	2	2	1
HEPATITIS C ACUTE	0	3	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS C, CHRONIC IN	49	33	27	32	4	4	1	3	19	12	13	13	33	19
LEGIONELLOSIS	0	1	1	0	0	2	0	1	0	0	0	0	0	0
MOTT	4	1	2	1	1	0	0	0	0	0	0	0	2	2
MUMPS	0	0	0	0	0	0	0	0	1	1	0	0	0	0
PERTUSSIS	0	1	0	14	0	0	0	0	0	0	0	1	0	6
Q FEVER (ACUTE)	0	0	0	1	0	0	0	0	0	0	0	0	0	0
RABIES POST EXPO PROPHY	0	0	0	0	0	0	0	0	0	0	0	0	1	6
ROCKY MOUNTAIN SPOTTED FEV	1	5	2	8	0	0	0	1	0	0	1	1	10	6
SALMONELLOSIS	10	7	5	3	1	0	0	0	3	1	3	1	5	2
STREP DISEASE, GROUP	1	0	0	0	0	0	0	0	0	0	1	0	0	0
STREP PNEUMONIAE, DRUG RES	0	0	0	0	0	0	1	0	0	0	0	1	0	1
TB DISEASE	0	2	0	0	0	0	0	0	0	0	0	0	1	0
TB INFECTION	10	10	19	15	2	0	0	0	5	7	1	1	4	1
TOXIC SHOCK (STAPH) SYNDRO	0	1	0	0	0	1	0	0	0	0	0	0	0	0
VARICELLA (CHICKENPOX)	0	0	9	17	0	0	0	1	0	2	0	0	6	6
Total Cases Per Year To-Date	161	165	144	192	14	8	11	7	36	37	35	27	90	68

January through June 2009

Animal bite cases in 2009 to-date in Jasper County were the highest in the last 4 years. Joplin City and McDonald County similarly had more cases in 2009 than reported in 2008.

Pertussis cases in Jasper County increased to 14 by end of June. Other cases were reported in Joplin City (1), McDonald (1), Vernon (1) and Newton County(6).

Varicella (Chicken pox) cases in Jasper County exceeded those reported in 2008 by 8 cases by end of June.

Rocky Mountain spotted fever continued to rise in Joplin City(5), Dade (1) and Jasper County (8). Joplin, McDonald and Dade Counties also reported an increase in **Acute Hepatitis B** compared to 2008 during this period.

TB disease (2 cases) were reported in Joplin City in June. *Read more on TB on page 3*

Sexually Transmitted Diseases: Monthly Updates, May 2009

Chlamydia

McDonald County had the highest rate* of Chlamydia cases (46.1) in May, followed by Jasper County 45.1 and Joplin 39.6. Similarly, McDonald County had the highest increase of Chlamydia cases from April (i.e. from 1 to 10 cases) and also when compared with 2008 (2 cases) by end of May.

Gonorrhea

Joplin city had the highest rate* of gonorrhea cases (11), followed by Jasper 7.8 and Newton County at 6.3. (*Rates were based on city/counties population per 100,000 population).

In Joplin, more females than males had Chlamydia, but more male than females had gonorrhea.

More blacks than other races had Chlamydia while more whites than other races had gonorrhea in Joplin. Ages 20-24 years had the highest incidence of Chlamydia and gonorrhea in Joplin City.

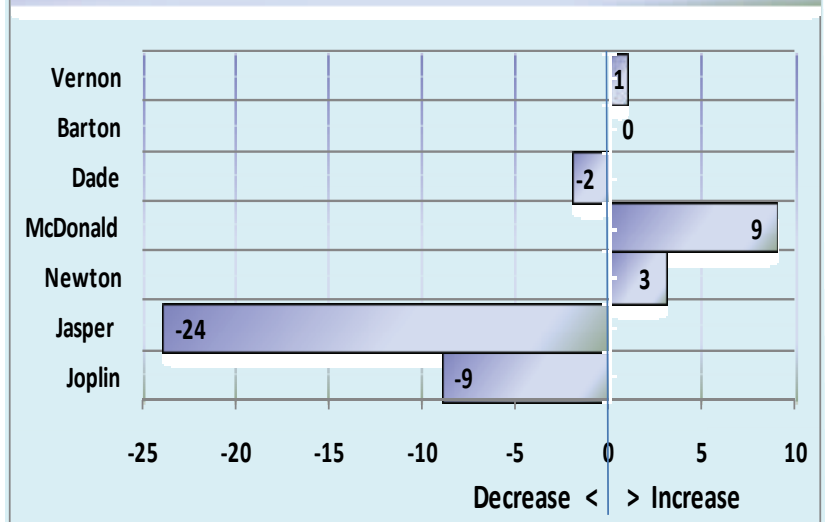
No cases of syphilis have been reported since February.

Source: MO DHSS



Figure 1

Change of Monthly No. of STD Cases from April to May 2009, by Jurisdiction



Jasper County had the most decrease in the total reported STD cases from April to May 2009 i.e. from 58 in April to 34 cases in May, while McDonald County had the most increase (from one case in April to 10 cases in May). There was no change in Barton County. *See figure 1*

Tuberculosis (TB)

Tuberculosis (TB) is a disease caused by germs that are spread from person to person through the air. TB usually affects the lungs, but it can also affect other parts of the body, such as the brain, the kidneys, or the spine. A person with TB can die if they do not get treatment.

Symptoms of TB

The general symptoms of active TB disease include; Unexplained weight loss, loss of appetite, night sweats, fever, fatigue, chills. Other symptoms are coughing for 3 weeks or longer, coughing up blood, and/or chest pain.

Other symptoms depend on the part of the body that is affected.

Transmission

TB is spread through air when a person with TB disease coughs, sneezes, speaks, or sings. The germs can stay in the air for hours, depending on the environment.

Latent TB Infection vs. Disease

Latent TB infection occurs when TB germs in your body are not active. The inactive germs cannot be passed on to anyone else. However, if these germs become active, you will get TB disease.

TB disease occurs when TB germs are active. The germs usually attack the lungs, but can also attack other parts of the body, such as the kidneys, brain, or spine. TB disease will make you sick.

Those with TB disease may spread the germs to others.

If you have been around someone who has TB disease, you should go to your doctor or your local health department for tests.

Testing for TB infection

- TB Skin test
- Special TB blood test

Testing for TB disease

- Chest x-ray
- Sample of sputum

Treatment

TB disease can be treated by taking drugs for 6 to 12 months. It is very important that patients take the drugs exactly as prescribed.

Two cases of TB disease were reported in Joplin City in June 2009. Surveillance & investigations continues for the contacts.

For more information, contact your local health department

Source: www.cdc.gov

Health Department Administrators

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Jasper County: Tony Moehr
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Questions/Comments,

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TRAININGS

Principles of Epidemiology Course— July 29-30 & October 21-22, 2009. Contact *Rose.Kawieski.dhss.mo.gov* or call 573-751-6113 for more information about registration.

UPCOMING EVENTS

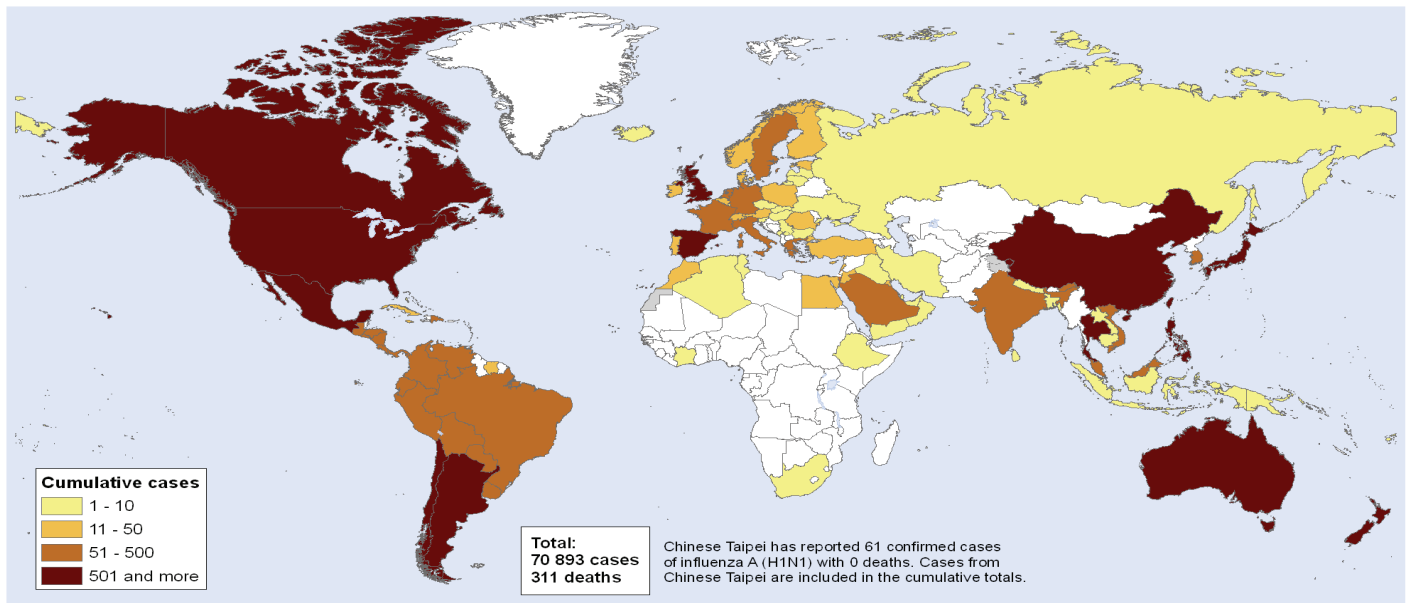
Resistant Coalition Meeting (ROC INC.) Meeting on July 22, 2009 at Panera Bread Meeting room (2401 E. 32nd St., Joplin, MO) at 8:00 am. ROC INC. is a collaborative effort of local area hospitals, city/county public health agencies and healthcare providers, aiming to reduce the incidence of multi-drug resistant organisms by increasing awareness and education in the community.



Global Impact of H1N1 Virus

New Influenza A (H1N1),
Number of laboratory confirmed cases as reported to WHO

Status as of 29 June 2009
09:00 GMT



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization
Map Production: Public Health Information and Geographic Information Systems (GIS)
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