

First  
Quarter  
2013

# Florida Department of Health in Volusia County



## Office of Disease Control and Health Protection

# EPI-LOG

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### To report a disease or outbreak:

Phone: 386-274-0634 M-F, 8 a.m.-5 p.m.  
Fax: 386-274-0641  
After hours: 386-316-5030  
P.O. Box 9190, Bin #111  
Daytona Beach, FL 32120-9190



\*when source was identified

**This Issue:**  
Think Pertussis P.1  
Perinatal Hepatitis B P.2  
HIV/ AIDS P.2  
Norovirus P.2  
Disease Activity P.3  
Influenza P.4

## THINK PERTUSSIS

By Michelle Nash, MPH

Pertussis is a highly communicable, vaccine-preventable disease that lasts for many weeks and is typically manifested in children with paroxysmal spasms of severe coughing, whooping, and posttussive vomiting. Adults can present with milder symptoms. Pertussis is one of the most lethal diseases of infants and young children in non-immunized populations.

Consider pertussis in your differential diagnosis for persistent cough illnesses. As a result of waning immunity, a history of immunization does not preclude the possibility of pertussis. To test suspected cases of pertussis, obtain nasopharyngeal aspirate or swab prior to treatment to be sent for *Bordetella pertussis* polymerase chain reaction (PCR) and/or culture at a commercial laboratory.



According to the Centers for Disease Control and Prevention (CDC), the incidence of pertussis has increased steadily in the United States (U.S.) since the 1980s. In the first quarter of 2013, there have been 11 cases reported in Volusia County compared to eight in all of 2012.



Vaccination should be recommended according to Advisory Committee on Immunization Practices (ACIP) criteria.

Mission: To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.



## Report Perinatal Hepatitis B Infections Now!

*By Michelle Nash, MPH*

Hepatitis B is a contagious liver disease that results from infection with the Hepatitis B virus (HBV). HBV infection in pregnant women poses a serious risk to their infants because the Hepatitis B virus can spread from mother to baby during childbirth. The Centers for Disease Control and Prevention (CDC) estimates that between 454 and 751 Hepatitis B surface antigen (HBsAg) positive Florida women give birth each year and without proper precautions 45-100 infants could become infected with HBV.

Fortunately, 90 to 95 percent of perinatal HBV infections can be prevented by identifying HBV-infected (i.e., HBsAg positive) pregnant women and providing Hepatitis B immune globulin and Hepatitis B vaccine to their infants within 12 hours of birth. The goal of the Florida Department of Health in Volusia County is to eliminate perinatal HBV transmission by complying with national guidelines which call for the following:



- Universal screening of pregnant women for HBsAg during each pregnancy
- Case management of HBsAg-positive mothers and their infants
- Provision of immunoprophylaxis for infants born to infected mothers, including Hepatitis B vaccine and Hepatitis B immune globulin
- Routine vaccination of all infants with the Hepatitis B vaccine series, with the first dose administered at birth

In 2012, two cases of perinatal Hepatitis B were reported in Volusia County compared to six in 2011. The Epidemiology Program is asking providers to help reduce the rate of perinatal Hepatitis B in Florida by reporting all cases of Hepatitis B surface antigen (HBsAg)-positive in pregnant women by the next business day following suspicion or diagnosis. Please support us in eliminating HBV in Florida!

For further information please visit:

[www.doh.state.fl.us/Disease\\_ctrl/immune/hep\\_b/index.htm](http://www.doh.state.fl.us/Disease_ctrl/immune/hep_b/index.htm).

*The Perinatal HBV Program at the Florida Department of Health in Volusia County can be reached at 386-274-0634 or by fax at 386-274-0641.*



## HIV/AIDS Program Update

*By Patrick Forand, MPH*

After providing care and treatment for HIV/AIDS patients for many years, the Florida Department of Health in Volusia County has made the decision to transition out of providing that service. All of the patients have been notified of this change. We have begun to transition the patients to other providers in Volusia County. Our last day of service provision was Tuesday, March 26, 2013.

The Florida Department of Health in Volusia County will continue to offer the AIDS Drug Assistance Program, assistance with filing for pharmaceutical assistance programs, HIV/AIDS prevention education, counseling and testing, surveillance and investigation of cases, and program oversight.

*For any questions regarding this program or the changes, please contact Patrick Forand at 386-274-0585.*

## Norovirus

*By Michelle Nash, MPH*

Noroviruses are the leading cause of gastroenteritis in the United States. In 2012, a new GII.4 norovirus was identified in Australia named GII.4 Sydney. Nationally, a statistically significant number of outbreaks have been caused by this new strain as identified through CDC's CaliciNet, and it has been found across Florida.

Samples from a November 2012 norovirus outbreak in a Volusia County assisted living facility typed by CaliciNet were identified as the new strain. Since the beginning of 2013, there have been eight gastrointestinal outbreaks in Volusia County; one norovirus GI, five norovirus GII, one with no pathogen isolated, and one with no samples collected.

Volusia County Disease Activity*	1st Quarter 2013	1st Quarter 2012	Full Year 2012
<b>Vaccine Preventable</b>			
Pertussis	11	1	8
Varicella	10	1	18
<b>CNS Diseases and Bacteremias</b>			
Creutzfeldt-Jakob disease (CJD)	1	0	1
Encephalitis (non-arboviral)	0	0	0
Haemophilus influenzae (invasive)	1	1	6
Meningitis (bacterial, cryptococcal, mycotic)	2	3	5
Meningococcal disease	0	0	0
Staphylococcus aureus community associated mortality	0	0	0
Staphylococcus aureus (GISA/VISA)	0	0	0
Streptococcal disease, group A, invasive	2	1	9
Streptococcus pneumoniae (invasive disease)	0	0	0
Drug resistant	9	5	24
Drug susceptible	7	7	17
<b>Enteric Infections</b>			
Campylobacteriosis	13	15	76
Cryptosporidiosis	1	1	7
Cyclosporiasis	0	0	3
Escherichia coli, shiga-toxin producing (STEC)	0	4	14
Giardiasis	5	7	16
Listeriosis	0	0	0
Salmonellosis	20	21	177
Shigellosis	0	1	46
Typhoid Fever	0	0	0
<b>Viral Hepatitis</b>			
Hepatitis A	0	0	3
Hepatitis B, acute	3	2	10
Hepatitis B, chronic	18	11	62
Hepatitis C, acute	3	0	10
Hepatitis C, chronic	146	130	830
Hepatitis E	0	0	0
Hepatitis +HBsAg in pregnant women	0	0	2
<b>Vector Borne, Zoonoses</b>			
Ehrlichiosis/Anaplasmosis	0	0	0
Dengue Fever	0	0	2
Lyme disease	0	1	6
Malaria	0	0	2
Monkey bite	0	0	0
Q Fever, acute	0	0	0
Rabies, animal	1	1	2
Rabies (possible exposure)	32	16	109
Rocky Mountain spotted fever	0	0	0
West Nile virus, neuroinvasive	0	0	1
<b>HIV/AIDS†</b>			
HIV	29	25	81
AIDS	14	14	48
<b>STDs†</b>			
Chlamydia	321	463	1,298
Gonorrhea	102	108	292
Syphilis			
Infectious (Primary and Secondary)	4	1	11
Early latent (Infection for <1 year)	1	2	7
Late latent (Tertiary)	5	2	12
Latent, unknown duration	1	2	2
<b>Others</b>			
Carbon monoxide poisoning	0	0	3
Hansen's Disease (leprosy)	0	0	0
Influenza due to novel or pandemic strains	0	0	0
Influenza-associated pediatric mortality	0	0	0
Lead poisoning	0	0	4
Legionellosis	0	1	3
Tuberculosis	3	2	9
Vibriosis	1	0	1
Pesticide related illness or injury	3	0	2

† Includes reported confirmed/probable cases. Data is provisional and subject to change.  
 † Numbers are for Area 12 (Volusia/Flagler)

## Influenza Update

By Michelle Nash, MPH

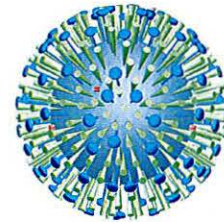
Influenza-like illness (ILI) activity in Volusia County is currently mild. Overall, activity peaked in November and December 2012, with emergency department (ED) visits for ILI as monitored through ESSENCE increasing during this time also. There have been a total of 5,793 ED visits for ILI since the beginning of influenza season on October 8, 2012. Also, 51 out of 170 (30 percent) of isolates tested by the state lab have been positive for influenza this season. 47 percent were positive for influenza A, and 53 percent were positive for influenza B. Statewide influenza and ILI activity is also mild and declining.

On April 1, 2013, the World Health Organization reported human infections due to novel influenza A (H7N9) in China. The virus has not been found outside China, and there has been no evidence of ongoing person-to-person transmission. Clinicians should consider possible infection with this virus among persons with respiratory illness and an appropriate travel or exposure history. Suspect infections should be reported immediately to the Epidemiology Program at 386-274-0634.

### ILINet Sentinel Providers:

#### Thanks to each of our providers:

- April Ferguson, DO
- Daniel Warner, MD
- Family Practice of West Volusia
- Lana Medical Care
- Prime Care
- Stetson University Student Clinic
- Florida Department of Health in Volusia County's Women's Health



4

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