EpiNotes June 2013

EpiNotes

Florida Department of Health - Hillsborough County
Disease Surveillance Newsletter
June 2013

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Enhanced Hepatitis Surveillance Project 2013

Background

Florida has seen an increase in the number of chronic hepatitis C cases in young adults (18-30 years) over the past several years (perhaps starting as early as 2005). While the statewide rate of chronic hepatitis C has shown an overall decline, during that same time period there has been an increase in the statewide incidence rate among young adults infected with hepatitis C, with rates doubling in the last eight years (~50 cases per 100,000 to ~100 cases per 100,000).

In late 2011, the Florida Department of Health (FDOH) received funds from the Centers for Disease Control and Prevention (CDC) to conduct enhanced surveillance of this population to identify their risk factors for acquiring hepatitis C. The Bureau of Epidemiology (DCBE) organized an enhanced surveillance project and 14 county health departments (CHDs) volunteered to participate from March through July 2012. Following the successful investigations conducted by CHD staff participating in the project, FDOH applied for additional hepatitis surveillance funding and was one of seven health departments nationally to receive funding through CDC-RFA-PS13-1303 Viral Hepatitis Prevention and Surveillance cooperative agreement. Funds have been awarded for the November 1, 2012-October 31, 2013 grant year to support a Chronic Hepatitis Surveillance Project. The grant is a three-year cooperative agreement with yearly renewals. Funding for subsequent years is dependent on performance during the initial grant year.

Purpose

The Hepatitis Surveillance Project has three main goals. The first goal is to collect risk factor information for all newly identified cases of acute and chronic hepatitis B and C that fall within the selection criteria. A more detailed case report form (CRF) will be used in chronic hepatitis C case investigations for those cases meeting inclusion criteria for the project.



Rick Scott

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The second goal of the project is to identify cases of hepatitis C that may have been misclassified as chronic infection when they were in fact acute infections. The majority of hepatitis cases are identified by FDOH through electronic laboratory reporting (ELR). These laboratory reports do not contain symptom information and because most cases are never interviewed or investigated, it is unknown if the patient was symptomatic at the time of testing. Without this information, it is possible that many acute hepatitis cases are being misreported as chronic infections. The CRF that will be used during the project is designed to collect symptom information from patients at the time of his/her hepatitis test. The additional information will be used to estimate the number of acute hepatitis C cases in those aged 18-30 that are misclassified as chronic cases.

The third goal of the project is to improve the accuracy of chronic hepatitis reporting in Florida_. Investigators participating in the project will ensure that all cases that meet inclusion criteria are in fact Florida residents and that cases had not been previously reported to FDOH or other state health departments.

Data collected through enhanced surveillance efforts will be analyzed by the project coordinator at the DCBE. Reports on collected surveillance data will be produced quarterly. Reports will be shared with CHDs and the Florida Viral Hepatitis Council (VHC) for action plans. Surveillance data will be shared through publications in Epi Update and a Grand Rounds presentation to DCBE and CHDs. Data will also be included with press releases to publicize the Hepatitis Prevention Section's outreach activities, such as Hepatitis Testing Day and World Hepatitis Day.

The project will allow DCBE to complete the following performance measures for the Viral Hepatitis Surveillance Grant:

- Increase the percentage of chronic hepatitis B and C cases among those aged less than 30 years that are interviewed or investigated to 75% in the participating counties (baseline 45%).
- Increase the percentage of acute hepatitis B and C cases that are interviewed or investigated to 95% (baseline 91%).
- Increase the percentage of cases of chronic hepatitis C among those aged 18-30 years for which symptom information (present or absent) is recorded to 90% (baseline 85%).
- Increase the percentage of cases of chronic hepatitis C among those aged 18-30 years for which risk factor information (present or absent) is recorded to 90% (baseline 85%).
- 100% of cases that are interviewed or investigated will have data entry completed into the statewide surveillance system, Merlin.
- Increase the percentage of cases of chronic hepatitis C among those aged 18-30 years for which demographic information is recorded to 100%.

Methods

FDOH will work with select counties to attempt to interview all reported cases (suspect, probable, and confirmed) of acute and chronic hepatitis B and C among those aged 18-30 with a CHD notified date between January 1, 2013 and October 31, 2013. Participating counties will submit weekly reports with investigation updates to the project coordinator. Investigators will also attend monthly conference calls with the project coordinator to evaluate the effectiveness of the CRF and to monitor progress in completing grant performance measures.

Ngan Lam and Patrick Rodriguez – Investigators for FDOH-Hillsborough County
They can be reached at 813-307-8010

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Florida Arbovirus Surveillance (January 1 - June 22, 2013)

Arbovirus surveillance in Florida includes endemic mosquito-borne viruses such as West Nile virus (WNV), Eastern equine encephalitis virus (EEEV), St. Louis encephalitis virus (SLEV), and Highlands J virus (HJV) and exotic viruses such as dengue virus (DENV) and California encephalitis group viruses (CEV). Malaria, a non-viral mosquito-borne disease is also included. During the period of June 16 - 22, 2013 the following arboviral activity was recorded in Florida:

DENV activity: No locally acquired dengue cases have been reported in 2013.

EEEV activity: No human cases of EEEV infection were reported this week. Two horses with EEEV infection were reported this week in Bradford County. Two sentinel chickens tested positive for antibodies to EEEV this week in Nassau and St. Johns Counties. In 2013, positive samples from two humans, three birds, 11 equines, and 37 sentinel chickens have been received from 19 counties.

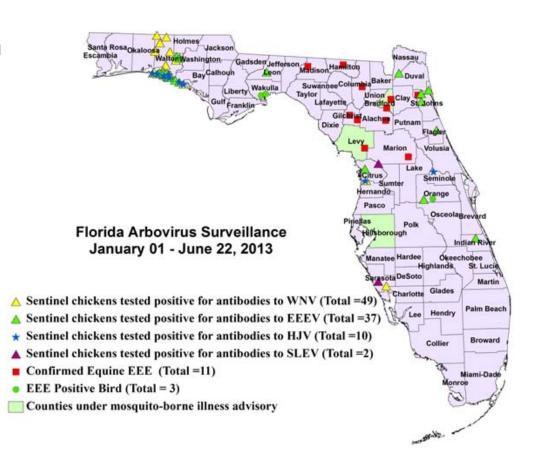
WNV activity: No human cases of WNV infection have been reported in 2013. No horse cases of WNV infection were reported this week. No sentinel chickens tested positive this week for antibodies to WNV. In 2013, positive samples from 49 sentinel chickens have been received from four counties.

SLEV activity: No sentinel chickens tested positive for antibodies to SLEV this week. In 2013, two positive samples have been received from two counties.

HJV activity: No sentinel chickens tested positive for antibodies to HJV this week. In 2013, 10 positive samples have been received from four counties.

Advisories/Alerts:

Bradford, Hillsborough, and Levy counties are currently under a mosquito-borne illness advisory. No other counties are currently under mosquito-borne illness advisory or alert.



Reportable Disease Surveillance Data

Annual Totals Year-to-date **Disease Category** 3 Year Jan-May Jan-May Average **Vaccine Preventable Diseases** 0.00 Diphtheria Measles 0.00 Mumps 0.67 Pertussis 60.33 Poliomyelitis 0.00 Rubella 0.00 0.00 Smallpox **Tetanus** 0.33 Varicella 46.33 **CNS Diseases & Bacteremias** Creutzfeldt-Jakob Disease 1.00 Haemophilus influenzae (Invasive Disease) 11.67 In Children 5 Years or Younger 2.00 Listeriosis 2.00 Meningitis (Bacterial, Cryptococcal, Mycotic) 18.00 Meningococcal Disease 1.67 Staphylococcus aureus (VISA, VRSA) 1.00 Streptococcal Disease, Group A (Invasive 18.33 Disease) Streptococcus pneumoniae (Invasive Disease) 86.67 **Drug Resistant** 47.67 **Drug Susceptible** 39.00 **Enteric Infections** Campylobacteriosis 100.33 Cholera 0.00 Cryptosporidiosis 42.67 2.00 Cyclospora Escherichia coli, Shiga toxin-producing (STEC) 20.00 78.33 Hemolytic Uremic Syndrome 0.67 Salmonellosis 327.67 Shigellosis 182.67 Typhoid Fever 0.33 Viral Hepatitis Hepatitis A 5.00 Hepatitis B (Acute) 38.00 Hepatitis C (Acute) 15.00 Hepatitis +HBsAg in Pregnant Women 42.67 Hepatitis D, E, G 0.33

June 2013

Reportable Disease Surveillance Data

Annual Totals Year-to-date **Disease Category** 3 Year Jan-May Jan-May Average Vectorborne, Zoonoses Dengue 5.33 Eastern Equine Encephalitis 0.67 Ehrlichiosis/Anaplasmosis 1.00 Leptospirosis 0.00 Lyme Disease 7.00 Malaria 6.33 Plague 0.00 **Psittacosis** 0.00 Q Fever (Acute and Chronic) 0.00 Rabies (Animal) 3.67 Rabies (Human) 0.00 Rabies (Possible Exposure) 80.00 Rocky Mountain Spotted Fever 1.67 St. Louis Encephalitis 0.00 Toxoplasmosis 2.00 Trichinellosis 0.00 Tularemia 0.00 Typhus Fever (Epidemic and Endemic) 0.67 Venezuelan Equine Encephalitis 0.00 West Nile Virus 0.33 0.00 Western Equine Encephalitis Yellow Fever 0.00 Others Anthrax 0.00 Botulism, Foodborne 0.00 Botulism, Infant 0.00 Brucellosis 0.33 Glanders 0.00 Hansen's Disease (Leprosy) 1.00 Hantavirus Infection 0.00 Legionellosis 9.00 Melioidosis 0.00 Vibriosis 11.33

Reportable Disease Surveillance Data

	Annual Totals				Year-to-date	
Disease Category	2010 2011 2012		3 Year Average	Jan-May 12	Jan-May 13	
Chemicals/Poisoning						
Arsenic	0	0	0	0.00	0	0
Carbon Monoxide	7	13	4	8.00	2	0
Lead	247	193	330	256.67	144	42
Mercury	1	0	0	0.33	0	0
Pesticide	4	15	4	7.67	2	1
Influenza						
Influenza, Pediatric Associated Mortality	0	0	0	0.00	0	1
Influenza, Novel or Pandemic Strain	7	7	0	4.67	0	0
HIV/AIDS						
AIDS	193	192	172	185.67	68	94
HIV Infection	346	318	327	330.33	111	175
STDs						
Chlamydia	7012	7288	7124	7141.33	3086	3011
Gonorrhea	1951	2343	2160	2151.33	957	825
Syphilis, Congenital	7	3	6	5.33	5	1
Syphilis, Latent (Late)	145	134	129	136.00	51	67
Syphilis, Early	82	91	117	96.67	55	50
Syphilis, Infectious	118	124	155	132.33	62	61
Tuberculosis						
ТВ	86	46	51	61.00	NA	NA
Food and Waterborne Illness Outbreaks						
Food and Waterborne Cases	147	13	74	78.00	NA	NA
Food and Waterborne Outbreaks	10	3	4	5.67	NA	NA



Creutzfeldt-Jakob disease (CJD)

Florida Department of Health - Hillsborough County

Division of Community Health • Office of Epidemiology P.O. Box 5135

Tampa, FL 33675-5135

PHONE: (813) 307-8010 • FAX: (813) 276-2981 After Hours Reporting All Diseases - (813) 307-8000

Section 381.0031 (1,2), Florida Statutes, provides that "Any practitioner, licensed in Florida to practice medicine, osteopathic medicine, chiropractic, naturopathy, or veterinary medicine, who diagnoses or suspects the existence of a disease of public health significance shall immediately report the fact to the Department of Health." The DOH county health departments serve as the Department's representative in this reporting requirement. Furthermore, this Section provides that "Periodically the Department shall issue a list of diseases determined by it to be of public health significance...and shall furnish a copy of said list to the practitioners...

	Reportable Diseases *Reporting requirements for laboratories difference of the control of the co		ditions in Florida Practit		
	HIV – (813) 307-8011		Cryptosporidiosis		Ricin toxicity
120,	DO NOT FAX		Cyclosporiasis	- 	Rocky Mountain spotted fever
+	Acquired Immune Deficiency Syndrome (AIDS)		Dengue		Rubella (including congenital)
	Human Immunodeficiency Virus (HIV)	 	Diphtheria	-	St. Louis encephalitis (SLE) virus disease
+	infection (all, and including neonates born to an infected woman, exposed newborn)	-	Eastern equine encephalitis virus disease	•	(neuroinvasive and non-neuroinvasive)
STD -	(813) 307- 8022	•	(neuroinvasive and non-neuroinvasive)	•	Salmonellosis
	Fax (813) 307-8027	•	Ehrlichiosis	•	Saxitoxin poisoning (including paralytic
•	Chancroid	•	Encephalitis, other (non-arboviral)		shellfish poisoning)(PSP) Severe Acute Respiratory Syndrome-
•	Chlamydia		Enteric disease due to: Escherichia coli, O157:H7	<u> </u>	associated Coronavirus (SARS-CoV) disease
•	Conjunctivitis (in neonates ≤ 14 days old)		Escherichia coli, other pathogenic		Shigellosis
•	Gonorrhea		E. coli including entero- toxigenic, invasive, pathogenic, hemorrhagic,		Smallpox Staphylococcus aureus (infection with
•	Granuloma inguinale Herpes Simplex Virus (HSV) (in infants up to		aggregative strains and shiga toxin	711	intermediate or full resistance to
	60 days old with disseminated infection with		positive strains		vancomycin, VISA, VRSA) Staphylococcus enterotoxin B (disease due
•	 involvement of liver, encephalitis and infections limited to skin, eyes and mouth; 		Giardiasis (acute)		to)
	anogenital in children ≤ 12 years old)		Glanders Haemophilus influenzae (meningitis and	•	Streptococcal disease (invasive, Group A)
_	Human papilloma virus (HPV) (associated laryngeal papillomas or recurrent respiratory	!	invasive disease)	•	Streptococcus pneumoniae (invasive disease)
•	papillomatosis in children ≤ 6 years old;	•	Hansen's disease (Leprosy)	•	Tetanus
	anogenital in children ≤ 12 years) Lymphogranuloma venereum (LGV)	2111	Hantavirus infection	•	Toxoplasmosis (acute)
	Syphilis	2111	Hemolytic uremic syndrome	•	Trichinellosis (Trichinosis)
	Syphilis (in pregnant women and neonates)	2111	Hepatitis A	!	Tularemia
тв со	NTROL - (813) 307-8015 x 4758	•	Hepatitis B, C, D, E, and G		Typhoid fever
	Fax- (813) 975-2014	•	Hepatitis B surface antigen (HBsAg) (positive in a pregnant woman or a child up	!	Typhus fever (disease due to <i>Rickettsia</i> prowazekii infection)
•	Tuberculosis (TB)	l	to 24 months old)	•	Typhus fever (disease due to Rickettsia
CANC	ER – Tumor Registry Database Cancer (except non-melanoma skin cancer,	<u>!</u>	Influenza due to novel or pandemic strains		typhi, R. felis infection) Vaccinia disease
+	and including benign and borderline	2111	Influenza-associated pediatric mortality (in persons < 18 years)		Varicella (Chickenpox)
EPIDE	intracranial and CNS tumors) MIOLOGY – (813) 307-8010		Lead Poisoning (blood lead level ≥ 10μg/dL);		Varicella (offickeripox)
	Fax (813) 276-2981	•	additional reporting requirements exist for		Venezuelan equine encephalitis virus
!	Any disease outbreak		technology, see 64D-3 FAC	!	disease (neuroinvasive and non- neuroinvasive)
	Any case, cluster of cases, or outbreak of a disease or condition found in the general	•	Legionellosis	•	Vibriosis (Vibrio infections)
	community or any defined setting such as a	•	Leptospirosis	-	Viral hemorrhagic fevers (Ebola, Marburg,
	hospital, school or other institution, not listed below that is of urgent public health	2111	Listeriosis	- -	Lassa, Machupo) West Nile virus disease (neuroinvasive and
1	significance. This includes those indicative of person to person spread, zoonotic spread, the presence of an environmental, food or		Lyme disease	•	non-neuroinvasive)
			Malaria	•	Western equine encephalitis virus disease (neuroinvasive and non-neuroinvasive)
	waterborne source of exposure and those that result from a deliberate act of terrorism.	!	Measles (Rubeola)		Yellow fever
•	Amebic encephalitis	_ !	Melioidosis		
•	Anaplasmosis	•	Meningitis (bacterial, cryptococcal, mycotic)		
!	Anthrax	!	Meningococcal disease (includes meningitis	! :	Report immediately 24/7 by phone
•	Arsenic poisoning	ļ	and meningococcemia)		upon initial suspicion or laboratory test order
	Botulism (foodborne, wound, unspecified,	•	Mercury poisoning	~~	Report immediately 24/7
•	other) Botulism (infant)	<u>*************************************</u>	Mumps Neurotoxic shellfish poisoning		by phone
	Brucellosis		Pertussis	• =	Report next business day
•	California serogroup virus (neuroinvasive	•	Pesticide-related illness and injury	+ =	Other reporting timeframe
	and non-neuroinvasive disease)		Plague		
-	Carpon monovido poisoning		Poliomyelitis, paralytic and non-paralytic		
	Carbon monoxide poisoning Cholera	 	Psittacosis (Ornithosis)		
-		-	Q Fever		
	Ciguatera fish poisoning (Ciguatera) Congenital anomalies	- This	Rabies (human, animal)		
-	Congenital anomalies		Dabias (massible superus)		

Rabies (possible exposure)

FLORIDA DEPARTMENT OF HEALTH - PRACTITIONER DISEASE REPORT FORM

(Please complete the following information to report the suspect or diagnosis of a disease which is reportable under Florida Administrative Code 64D-3.) DH2136,10/06 Patient Information: ☐ Please check here if you would like more copies of the form Area Code + Phone Number Last Name MI First Name Date of Birth (MMDDYYYY) Social Security Number (no dashes) Hispanic Male Ethnicity: Gender: Address Non-Hispanic Female Unknown City State Zip Code Disease Specific Information: Other:_ Pregnancy Status: Date of Onset: Race: Black Disease Fatal? Yes No Not Pregnant **Patient** Asian Hospitalized? Discharge Date: Pregnant American Indian/AlaskaNative Number of Months_ Hospital Name: Native Hawaiian/Pacific Islander Medicaid Number or Insurance: Unknown Disease or Condition Reporting: For HIV/AIDS and HIV exposed newborns please report per forms indicated in F.A.C. 64D-3. ☐ Enteric disease due to Escherichia ☐ Legionellosis □ Severe acute respiratory syndrome (SARS) Report immediately upon: coli O157:H7 Leptospirosis Enteric disease due to other path- Listeriosis ☐ Shigellosis = Initial suspicion 24/7 by phone ogenic Escherichia coli ☐ Lyme disease = Diagnosis 24/7 by phone Giardiasis (acute) ☐ Lymphogranuloma Venereum Staphylococcus aureus, intermediate Glanders . T (LGV) or full resistance to vancomycin ☐ Anthrax 🗗 🛚 Staphylococcus enterotoxin B ☐ Botulism, foodborne ◢■■ Gonorrhea Malaria Measles (Rubeola) П Granuloma inguinale Streptococcal disease, invasive Botulism, infant Haemophilus influenzae, meningitis Melioidosis 2 1 Group A □ Botulism, other/wound/unspecified 2 ■ and invasive disease Meningitis, bacterial, cryptococcal, Streptococcal pneumoniae, invasive Brucellosis 🗗 📱 П Hansen's disease other mycotic disease П California serogroup virus disease Hantavirus infection Meningococcal disease Syphilis П Campylobacteriosis П Hemolytic uremic syndrome Mercury poisoning Syphilis, pregnancy or neonate □ Chancroid Hepatitis, acute A Chlamydia Mumps Tetanus П Hepatitis, acute B, C, D, E, G Neurotoxic shellfish poisoning Toxoplasmosis, acute Cholera 🗗 🛚 Pertussis 2 Hepatitis, chronic B, C Trichinellosis (Trichinosis) Ciguatera fish poisoning Pesticide-related illness and injury \square Tuberculosis (TB) П Hepatitis B surface antigen ☐ Clostridium perfringens epsilon toxin positive in pregnant woman or Plague F Tularemia F □ Conjunctivitis, in neonatal ≤14 days child up to 24 months Poliomyelitis 2 1 Typhoid fever Creutzfeldt-Jakob disease (CJD) Herpes simplex virus (HSV) in Psittacosis (Ornithosis) Typhus fever, endemic Cryptosporidiosis Typhus fever, epidemic 🖅 🛚 infants up to six months O Fever П Cyclosporiasis Rabies, animal HSV anogenital in children≤12 yrs □ Vaccinia disease П Dengue Diphtheria 🗗 📱 Human papilloma virus (HPV) ☐ Rabies, humanæ ☐ Varicella (chickenpox) Date of vaccination __/_ anogenital in children≤12 yrs □ Rabies possible exposure Eastern equine encephalitis HPV assocated laryngeal papillo-(animal bite) at ! Varicella mortality П virus disease П mas or recurrent respiratory Ricin toxicity: Venezuelan equine encephalitis Ehrlichiosis, human granulocytic virus disease 💵 🛚 Rocky Mountain spotted fever papillomatosis in children ≤6 yrs (HEG) ☐ Rubella ■ HPV cancer associated strains Vibriosis, Vibrio infections Ehrlichiosis, human monocytic ☐ Influenza – due to novel or pan-☐ St. Louis encephalitis virus disease ☐ Viral hemorrhagic fevers 🕿 📱 (HME) demic strains 💵 📱 □ Salmonellosis West Nile virus disease Ehrlichiosis, human other or Influenza - assocated pediatric ☐ Saxitoxin poisoning, including Western equine encephalitis virus unspecified species mortality in persons <18 yrs 25 paralytic shellfish poisoning (PSP) disease ☐ Encephalitis, other (non-arboviral) ☐ Yellow fever ♣ ▮ Lead poisoning Any Outbreak, grouping, or clustering of patients having similar disease, symptoms, syndromes: Medical Information: Provider Information: Diagnosis Date: Name: Please attach lab Test Conducted? record (if available) Address: Lab Name: City, State, Zip: Lab Results: Lab Test Date: Provider Fax: () Test Method: Treatment Provided? Email: Treatment: **County Health Department Fax:** 813-276-2981 Medical Record Number: CHD After-Hours Phone Number: 813-307-8000