November 2012

EpiNotes

EPI NOTES

Hillsborough County Health Department Disease Surveillance Newsletter November 2012

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Epidemiology Program Update

By Kevin Baker, CHES

The Hillsborough County Health Department's (HCHD) Epidemiology Program is responsible for monitoring and reporting over 50 reportable diseases, as well as outbreaks. Through the end of September, our program has been notified of over 3,000 cases of reportable illnesses. This past month, we have had a variety of special cases and outbreaks in our community that will be discussed in this article.

Flu reporting for the 2012-2013 season started on September 30, 2012. So far, we are observing mild flu activity in the county. However, our Emergency Department data (ESSENCE) indicates a marked increase in influenza-like illness visits over the past week.

During September, there was a noticeable rise in salmonellosis cases among infants in Citrus County. We found that Hillsborough County was also seeing a rise in infant salmonellosis cases. Because of this increase, interviews of *Salmonella* illness in infants were focused more on infant exposures, but no links between those cases were identified.

Pertussis (Whooping Cough) cases continue to be reported throughout the county. From January 1, 2012 through September 30, 2012, 93 cases have been reported. During the same time in 2011, only 27 cases were reported.

We have investigated three suspect norovirus outbreaks in public schools in the last few weeks, though none were laboratory confirmed. Another recently reported outbreak of hand, foot, and mouth disease in a childcare facility was investigated by our staff. Education was provided to the childcare facility and to the parents in order to reduce the risk of future infection.

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Using our ESSENCE system, a cluster of three cases of bloody diarrhea and vomiting were detected. After further investigation, it was found to be a family outbreak. Two of the cases were children who attend childcare and the third was their parent who is a healthcare worker. Two of the cases provided stool samples and both tested positive for *Shigella sonnei*.

We have also investigated a couple of mosquito-borne illness cases of note. We reported an imported case of Dengue Fever who had traveled to Haiti during the exposure period. Two to three weeks after returning to the U.S., the case became symptomatic. The case reported being bitten by mosquitoes while abroad, as well as here in Hillsborough County. The case tested IgG and IgM positive for Dengue Fever. We also reported an imported case of Dengue Hemorrhagic Fever. The case had travel history to the US Virgin Islands. The case slept in open housing with no mosquito nets. Laboratory testing was PCR positive for Dengue Virus Type 1. This strain of Dengue is known to cause hemorrhagic fever.

Our Epidemiology Program staff works to not only monitor these diseases, but also educate our cases on ways they can prevent themselves from becoming infected or infecting others in the future. Through our work, we fulfill the Florida Department of Health's mission, which is to protect, promote, and improve the health of all people in Florida through integrated state, county, and community efforts.

Food Safety for the Holidays

By Kiley Workman

While the holidays are a time of celebration, the stress involved in food preparation can be overwhelming—and potentially dangerous—if food safety is not taken into consideration. According to the Centers for Disease Control and Prevention, 1 in 6 Americans get sick from foodborne illnesses each year. So before you plan your holiday meal, the Hillsborough County Health Department would like to offer a few tips to help keep you and your loved ones safe this holiday season.

Keep it clean

Safe food preparation starts with clean hands. Washing your hands before preparation, in between handling raw ingredients, and after you've finished cooking will reduce your risk of being exposed to harmful bacteria.

Your kitchen should also be kept clean. Kitchen surfaces that need to be cleaned include water faucets, stovetops, countertops, and cutting boards. To clean these surfaces properly, use hot water and soap followed by a bleach and water solution or a commercial kitchen-cleaning agent. Whichever product you use, remember to follow the product directions.

Wash all fresh produce with water in order to remove existing bacteria and minimize any bacterial contamination. Any produce with a firm skin (such as potatoes and apples) should be rubbed, or scrubbed with a clean brush, under running water. Even produce with an inedible skin, such as melon, should be scrubbed and rinsed before preparing them. By cutting unwashed produce you can introduce bacteria from the skin to the part that you eat. You should also rinse packaged fruits and vegetables labeled "ready to eat" or "washed".

Separate

Cross contamination can occur easily in the kitchen if you are not diligent about preventing it. Make sure to keep raw meat, poultry, and seafood separate from the rest of your food preparation area. This includes washing your hands, knives, forks, cutting boards, etc between raw and ready-to-eat food preparation.

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Check the temperature

The appearance of food can be misleading and should not be used to determine whether or not an item is done. For example, ground beef tends to turn brown before it reaches 160° F. To be confident that your food is safe, use a meat thermometer and make sure that all the food you put on the table meets the minimum internal temperature requirements shown below.



USDA Food Safety and Inspection Service

Fresh beef and pork need to rest at room temperature for 3 minutes before you take the temperature. For all other items, the temperature can be taken immediately after removing it from the heat source. Additionally, stuffing, whether cooked alone or in a turkey, needs to be heated to at least 165° F. All leftovers should also be reheated to at least 165° F before being consumed.

Refrigerate

All leftovers should be put in the refrigerator within 2 hours of preparation. This is to keep food out of the "danger zone", which is between 40 ° F and 140 ° F. Storing food in the "danger zone" creates an ideal environment for bacteria to grow. Using an appliance thermometer, you can verify that your refrigerator is at or below 40 ° F to discourage bacterial growth.

Defrost your turkey properly

Turkeys must be kept at a safe temperature while defrosting. If the bird is thawed at any temperature above 40 ° F, dangerous bacteria that were present upon freezing can grow again. For that reason, you should never defrost the turkey on your kitchen counter. Instead, you can thaw your turkey in the refrigerator or in cold water. Frozen turkeys take about 24 hours per 5 pounds to defrost in the refrigerator. To defrost it in water, you may immerse it in your sink or in a large container filled with cold water. Expect it to take about 30 minutes per pound. There are many additional resources on holiday food safety.

The USDA Meat and Poultry Hotline (1-888-MPHotline) is available on weekdays year round—including holidays.

Have a wonderful holiday season!

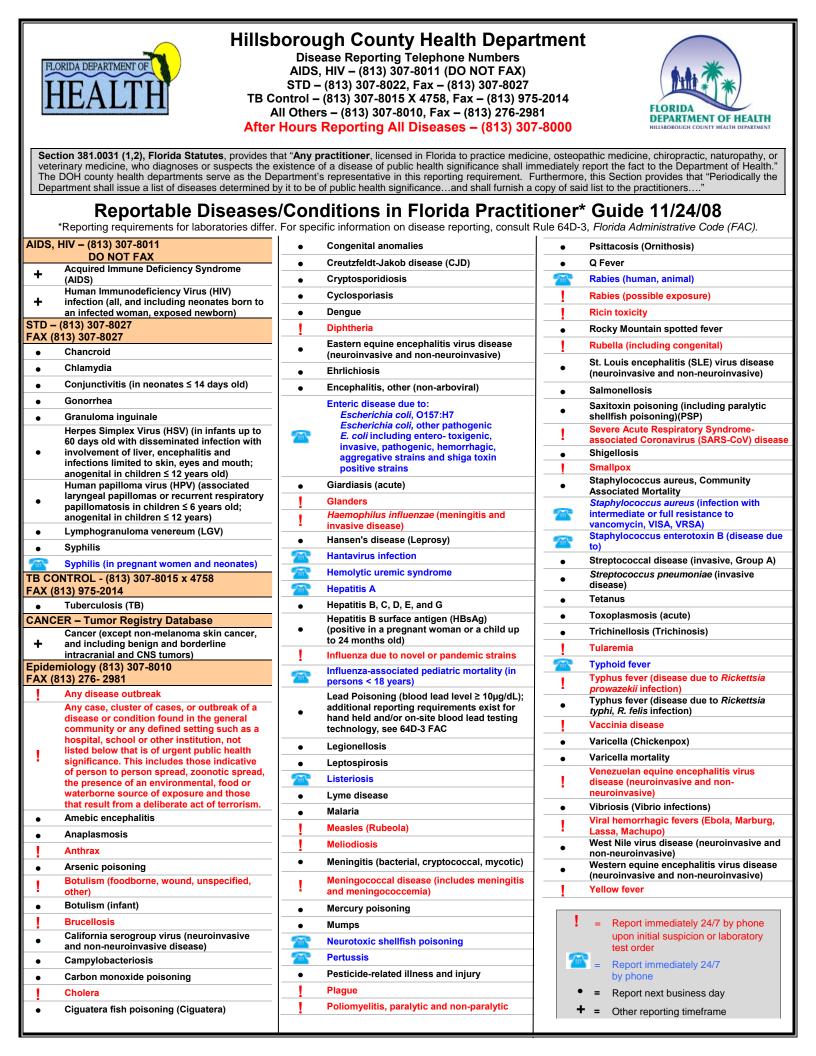
Additional Web Sources: http://www.foodsafety.gov/ http://cdc.gov/foodsafety/ http://www.holidayfoodsafety.org/



Reportable Disease Surveillance Data

				3 Year	Ian Oct	Ian Oat
Disease	2009	2010	2011		Jan-Oct 2011	Jan-Oct 2012
		100	100	Average		
AIDS	253	193	192	212.7	160	119
AMEBIC ENCEPHALITIS	1	0	0	0.3	0	0
ANIMAL BITE, PEP RECEIVED	72	55	95	74.0	81	82
ANTHRAX	0	0	0	0.0	0	0
ARSENIC	1	0	0	0.3	0	0
BOTULISM, FOODBORNE	0	0	0	0.0	0	0
BOTULISM, INFANT	1	0	0	0.3	0	0
BRUCELLOSIS	2	0	1	1.0	1	0
CALIFORNIA SEROGROUP, NEUROINVASIVE	0	0	0	0.0	0	0
CAMPYLOBACTERIOSIS	69	76	120	88.3	110	97
CARBON MONOXIDE POISONING	0	7	13	6.7	9	2
CHLAMYDIA	6611	7012	7288	6970.3	6217	6104
CIGUATERA	0	0	0	0.0	0	0
CREUTZFELDT-JAKOB DISEASE	1	0	0	0.3	0	3
CRYPTOSPORIDIOSIS	38	14	38	30.0	35	73
CYCLOSPORIASIS	2	3	1	2.0	0	2
DENGUE	3	7	4	4.7	4	4
DIPHTHERIA	0	0	0	0.0	0	1
EHRLICHIOSIS, HUMAN GRANULOCYTIC	0	1	0	0.3	0	0
EHRLICHIOSIS, HUMAN MONOCYTIC	0	1	0	0.3	0	0
EHRLICHIOSIS/ANAPLASMOSIS, UNDETER.	1	1	0	0.7	0	0
ENCEPHALITIS, CALIFORNIA/LACROSSE	0	0	0	0.0	0	0
ENCEPHALITIS, HERPES	0	0	0	0.0	0	0
ENCEPHALITIS, NON-ARBOVIRAL	0	0	0	0.0	0	0
ENCEPHALITIS, OTHER	0	0	0	0.0	0	0
ENCEPHALITIS, EEE	0	2	0	0.7	0	0
ENCEPHALITIS, SLE	0	0	0	0.0	0	0
ENCEPHALITIS, WN	0	0	0	0.0	0	0
ENTEROHEMORRHAGIC E. COLI (0157:H7)	0	0	0	0.0	0	0
E. COLI SHIGA TOXIN + NOT SEROGROUP	0	0	0	0.0	0	0
E. COLI SHIGA TOXIN + NON 0157:H7	0	0	0	0.0	0	0
E. COLI SHIGA TOXIN PRODUCING - 0800	11	13	24	16.0	21	21
FOOD AND WATERBORNE CASES	86	147	13	82.0	NA	NA
FOOD AND WATERBORNE OUTBREAKS	12	10	3	8.3	NA	NA
GIARDIASIS	101	100	81	94.0	64	48
GONORRHEA	2015	1951	2343	2103.0	1924	1826
H. INFLUENZAE PNEUMONIA	0	0	0	0.0	0	0
H-FLU, PRIMARY BACTEREMIA, INVASIVE	13	11	16	13.3	13	6
H-FLU, SEPTIC ARTHRITIS	0	0	0	0.0	0	0
HANSEN'S DISEASE (LEPROSY)	1	1	0	0.7	0	2
HANTAVIRUS	0	0	0	0.0	0	0
HEMOLYTIC UREMIC SYNDROME	0	1	0	0.3	0	1
HEPATITIS A, ACUTE	13	6	6	8.3	3	2
HEPATITIS B, ACUTE	29	49	27	35.0	18	34
HEPATITIS B, MATERNAL (HBsAg+ PREGNANT)	65	40	49	51.3	42	32
HEPATITIS B, PERINATAL ACUTE	0	1	0	0.3	0	0
HEPATITIS B, CHRONIC	317	279	316	304.0	243	271
HEPATITIS C, ACUTE	14	12	7	11.0	6	24
HEPATITIS C, CHRONIC	1391	1699	1628	1572.7	1299	1396
HEPATITIS D	1	0	0	0.3	0	0

EpiNotes					November 2012		
Disease	2009	2010	2011	3 Year Average	Jan-Oct 2011	Jan-Oct 2012	
HEPATITIS E, NON-A, NON-B, ACUTE	0	0	0	0.0	0	1	
HEPATITIS G	0	0	0	0.0	0	0	
HEPATITIS UNSPECIFIED, ACUTE	0	0	0	0.0	0	0	
HIV INFECTION NFLUENZA-ASSOCIATED PEDIATRIC MORTALITY	355	346	318	339.7 0.0	256	275	
NFLUENZA-ASSOCIATED PEDIATRIC MORTALITY NFLUENZA-A, NOVEL OR PANDEMIC STRAINS	0 321	0 7	0 7	111.7	0	0	
LEAD POISONING	77	249	199	175.0	179	313	
LEGIONELLOSIS	8	7	12	9.0	10	7	
LEPTOSPITOSIS	0	0	0	0.0	0	0	
LISTERIOSIS	2	2	3	2.3	3	1	
LYME DISEASE	11	4	8	7.7	6	8	
MALARIA	2	5	7	4.7	7	6	
MEASLES	0	0	0	0.0	0	0	
IENINGITIS, GROUP B STREP	0	0	0	0.0	0	0	
IENINGITIS, H-FLU	0	0	0	0.0	0	0	
MENINGITIS, LISTERIA MONOCYTOGENES	0	0	0	0.0	0	0	
MENINGITIS BACTERIAL CYPTOCOCCAL	28	28	21	25.7	21	N/A	
MENINGITIS, STREP, PNEUMONIAE	0	0	0	0.0	0	0	
MENINGOCOCCAL DISEASE	1	1	1	1.0	1	3	
MERCURY POISONING	0	1	0	0.3	0	0	
MUMPS	2	1	1	1.3	1	0	
NEUROTOXIC SHELLFISH POISONING	0	0	0	0.0	0	0	
PERTUSSIS	25	30	31	28.6	28	109	
PESTICIDE RELATED ILLNESS	0	4	16	6.7	15	4	
POLIO, PARALYTIC	0	0	0	0.0	0	0	
PSITTACOSIS	0	0	0	0.0	0	0	
2 FEVER	0	0	0	0.0	0	0	
RABIES ANIMAL	5	4	2	3.7	2	4	
ROCKY MOUNTAIN SPOTTED FEVER	0	4	1	1.7	0	1	
RUBELLA	0	0	0	0.0	0	0	
SALMONELLOSIS	337	302	353	330.7	280	296	
SHIGELLOSIS	21	134	377	177.3	362	36	
SMALLPOX	0	0	0	0.0	0	0	
STAPH AUREUS, COM. ASSOC. MORTALITY	2	0	0	0.7	0	2	
STAPH AUREUS, VISA/VRSA	0	0	1 17	0.3 16.0	0 13	2	
STREP DISEASE, INVASIVE GROUP A STREP PNEUMO, INVASIVE DRUG RESIST.	14 54					23	
STREP PNEUMO, INVASIVE DRUG RESIST.	34	60 45	54 46	56.0 42.0	43 40	23	
SYPHILIS, CONGENITAL	3	43	3	42.0	3	6	
SYPHILIS, EARLY	135	82	91	103	70	95	
SYPHILIS, INFECTIOUS	100	118	124	103	91	131	
SYPHILIS, LATENT	181	145	134	153	134	87	
TETANUS	0	145	0	0.3	0	0	
COXOPLASMOSIS	0	4	1	1.7	0	1	
TUBERCULOSIS	84	86	46	72	31	36	
THPHOID FEVER	0	1	0	0.3	0	0	
YPHUS FEVER, ENDEMIC (MURIN)	2	0	2	0.7	2	0	
ARICELLA	28	48	47	41.0	36	43	
IBRIO ALGINOYTICUS	1	2	5	2.7	5	4	
/IBRIO CHOLERA NON-01	0	0	0	0.0	0	1	
/IBRIO FLUVIALIS	2	0	0	0.7	0	0	
/IBRIO HOLLISAE	1	0	0	0.3	0	0	
IBRIO PARAHAEMOLYTICUS	2	4	1	2.3	1	3	
/IBRIO VULNIFICUS	0	4	2	2.0	2	3	
/IBRIO, OTHER	1	2	0	1.0	0	0	
WEST NILE	0	0	0	0.0	0	1	
YELLOW FEVER	0	0	0	0.0	0	0	



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.)

Patient Information:							DH2136,10/06		
				_			Please check here if you would		
				Ļ		1	like more copies of the form		
Last Name		Area	Code	: +	Phone Number				
First Name				D	ate of Birth (MMDDYYYY)	Soc	ial Security Number (no dashes)		
					г				
Address	_				Gender:		Male Ethnicity:		
				1			Female Non-Hispanic		
City		State			Zip Code	_	Unknown		
Disease Specific Information	on:	State		1	Zip Code				
Date of Onset:		— —		F	Pregnancy Status:	R	ace: Black		
Patient	Disease Fatal? Yes No			Not Pregnant					
Hospitalized? Yes No D	ischar	rge Date:		۱r	Pregnant		Asian		
				١			American Indian/AlaskaNativ		
Hospital Name:					Number of Months		Native Hawaiian/Pacific Islan		
Medicaid Number or Insurance:									
				1					
Disease or Condition Reporting: For HIV/AIE nd HIV exposed newborns please report	DS								
er forms indicated in F.A.C. 64D-3.		Enteric disease due to Escheric	ichia [Legionellosis		Severe acute respiratory		
eport immediately upon:		coli O157:H7, 🕾			Leptospirosis		syndrome (SARS)		
Initial suspicion 24/7 by phone		Enteric disease due to other p	path- [ב	Listeriosis 🖅		Shigellosis		
Diagnosis 24/7 by phone		ogenic Escherichia coli 🚈			Lyme disease		Smallpox 🔊 🖀 📱		
		Giardiasis (acute)	C		Lymphogranuloma Venereum		Staphylococcus aureus, intermediate		
Anthrax 🚈 🛛		Glanders 📌 🖬 Gonorrhea	F	-	(LGV) Malaria		or full resistance to vancomycin se Staphylococcus enterotoxin B		
Botulism, foodborne		Granuloma inguinale			Measles (Rubeola)		Streptococcal disease, invasive		
 Botulism, infant Botulism, other/wound/unspecified 2 		Haemophilus influenzae, mening			Melioidosis	-	Group A		
Brucellosis 2 1		and invasive disease 🚈 🛽			Meningitis, bacterial, cryptococcal,				
California serogroup virus disease		Hansen's disease			other mycotic		disease		
Campylobacteriosis		Hantavirus infection			Meningococcal disease		Syphilis		
Chancroid		Hemolytic uremic syndrome			Mercury poisoning		Syphilis, pregnancy or neonate		
Chlamydia		Hepatitis, acute A 2 Hepatitis, acute B, C, D, E, G			Mumps Neurotoxic shellfish poisoning		Tetanus Toxoplasmosis, acute		
 ☐ Cholera x I ☐ Ciguatera fish poisoning 		Hepatitis, chronic B, C	- 19E	Pertussis 2			Trichinellosis (Trichinosis)		
Clostridium perfringens epsilon toxin		Hepatitis B surface antigen			Pesticide-related illness and injury		Tuberculosis (TB)		
☐ Conjunctivitis, in neonatal ≤14 days		positive in pregnant woman or	r [Plague 🖅 📱		Tularemia ⁄ 🖀 🖠		
Creutzfeldt-Jakob disease (CJD)		child up to 24 months			Poliomyelitis		Typhoid fever		
		Herpes simplex virus (HSV) in			Psittacosis (Ornithosis)		Typhus fever, endemic		
Cyclosporiasis		infants up to six months HSV anogenital in children≤12			Q Fever Rabies animal		Typhus fever, epidemic 🖅 🛯 Vaccinia disease 🖅 📱		
 Dengue Diphtheria 2 2 1 		Human papilloma virus (HPV)			□ Rabies, human		Varicella (chickenpox)		
 Eastern equine encephalitis 	_	anogenital in children≤12 yrs			 Rabies possible exposure 		Date of vaccination _/_/		
virus disease		HPV assocated laryngeal papill	llo-		(animal bite) 🚈 🛿		Varicella mortality		
Ehrlichiosis, human granulocytic		mas or recurrent respiratory			Ricin toxicity		Venezuelan equine encephalitis		
(HEG)		papillomatosis in children ≤6 y			Rocky Mountain spotted fever		virus disease 🚈 🛯		
Ehrlichiosis, human monocytic		HPV cancer associated strains Influenza – due to novel or pa			Rubella T St. Louis encephalitis virus disease		Vibriosis, Vibrio infections		
(HME) Ehrlichiosis, human other or		demic strains 2			Salmonellosis		West Nile virus disease		
unspecified species		Influenza – assocated pediatric	c		Saxitoxin poisoning, including		Western equine encephalitis virus		
 Encephalitis, other (non-arboviral) 		mortality in persons <18 yrs			paralytic shellfish poisoning (PSP)		disease		
		Lead poisoning					Yellow fever 🔊 🖬		
□ Any Outbreak, grouping, or clustering	of pati	ents having similar disease, syn	mptom	٦s,	syndromes: 🔊 🖬 📃				
Provider Information:		Med	dical Ir	nfc	prmation: Diagnosis Date:	:			
Jame:									
		Test	t Con	du			ase attach lab		
Address:						reco	ord (if available)		
Lab Nan) Nam	ne:					
City, State, Zip:			Test	Da	ate: Lab	Re	sults:		
	73	1414/07							
Phone: () Provider Fax: ()	Tre	atmer	nt	Provided? Yes No Tes	t Me	ethod:		
Email:									
				Treatment:					
County Health Department Fax		813-276-2981			Madad D. J.M.				
County Health Department Fax CHD After-Hours Phone Numb					Medical Record Number:				