

EpiCenter

2013

FLORIDA HEALTH PALM BEACH COUNTY EPIDEMIOLOGY PROGRAM, DIVISION OF EPIDEMIOLOGY AND COMMUNICABLE DISEASES

Raccoons Testing Positive for Rabies in Record Numbers

In the first five months of this tests for rabies have been found year, Florida Department of Health / Palm Beach County Division of Epidemiology and Communicable Diseases has reported 7 positive tests for rabies in animals. This was the highest number of cases per quarter recorded in Palm Beach County since the first quarter of 2005. Since 2005, 80% of the animal testing was done due to an exposure that had occurred to either a person or another animal. 10% of the testing done was for surveillance purposes and another 10% was unknown.

All of the 2013 cases so far have been found in raccoons. While raccoon cases have always counted for the highest number by far, positive

in bats, bobcats, foxes, and otters, as well as in cats and dogs in Palm Beach County. A 60 day alert was ordered after 3 infected animals were found in one area within a short period of time. Flyers and news releases were issued in the other areas affected.



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EPI CHANGES

The Division of Epidemiology has a new name. We are now the Division of Epidemiology and Communicable Diseases at the Florida Department of Health, Palm Beach County. You may have also noticed the new logo we are using. The changes in our name reflect changes at the state and local level. Our new organizational structure joins the Epidemiology Program with the STD, TB and HIV programs, under the leader-

ship of our new Division Director, Dr. Robert Parkes. While these programs have always worked together in the past, we look forward to developing even closer working relationships in the future and developing a more coordinated and efficient means of interacting with our community partners. Dr. Parkes, Director, Medical Epidemiologist and Senior Physician for the Division of Epidemiology and Communicable Diseases, Florida



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Dr. Alina Alonso, M.D. Director. FDOH / Palm Beach County Dr. Robert Parkes, M.D. Director. **Division of Epidemiology and Communicable Diseases**

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To Report a Disease: Weekdays 561-671-4184 Fax: 561-837-5330 Weekends/Evenings: 561-840-4500

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Raccoon and skunk sharing a meal given to them by people



Raccoons Testing Positive for Rabies in Record Numbers Cont'd

According to the CDC, there are several things you can do to protect yourself and your pets from rabies.

First, visit your veterinarian with your pet on a regular basis and keep rabies vaccinations up-to-date for all cats, ferrets, and dogs.

Second, maintain control of your pets by keeping cats and ferrets indoors and keeping dogs under direct supervision.

Third, spay or neuter your pets to help reduce the number of unwanted pets that may not be properly cared for or vaccinated regularly.

Finally, call animal control to remove all stray animals from your neighborhood since these animals may be unvaccinated or ill.

In the event of an animal bite exposure, please follow these steps for reporting and accessing rabies vaccine.

- All animal bites need to be reported to Animal Care and Control at 561-233-1200. In addition, all possible rabies exposures need to be re ported to the Epidemiology Program of the Florida Department of Health Palm Beach County, phone 561-671-4184, fax 561-837-5330.
- Post-exposure vaccine is provided on an appointment only basis. Appointments can be scheduled by calling the Epidemiology Program at 561-671-4184.
- A sliding fee scale or insurance reimbursement will be applied to the cost of providing these vaccines.

stray and/or wild animals"

"Never feed

Epi Changes Cont'd

Department of Health, Palm Beach County, did his undergraduate studies in Medicine at the University of the West Indies between 1991 and 1996. After internship he did his residency in Internal Medicine at the University of the West Indies. He practiced as an Attending Physician at the Kingston Public Hospital for 8 years. After migration to the USA in 2008, he did one year of internship in Internal Medicine and then transferred to the Preventive Medicine and Public Health Residency program at FDOH Palm Beach County . He completed his residency in 2012. Dr Parkes is Board Certified in Preventive Medicine and Public Health. He also holds a Masters in Public Health (summa cum laude) from Nova Southeastern University. Dr. Parkes is a faculty member in the Palm Beach County Health Department Preventive Medicine and Public Health Residency Program.

He has authored two books and published several scientific papers on chronic and communicable diseases in peer reviewed journals.



Dr. Parkes relaxing at JoEllen Alvarez's retirement celebration

What's New with Novel Viruses?

Middle East Respiratory Syndrome Coronavirus (MERS-CoV)

A novel coronavirus called "Middle East Respiratory Syndrome Coronavirus" (MERS-CoV) was identified in 2012 as the cause of respiratory illness in people. Cases have been seen in the following countries: France, Germany, Jordan, Qatar, Saudi Arabia, Tunisia, the United Kingdom and the United Arab Emirates (UAE).

Eight clusters of illnesses have been reported by six countries (France, Italy, Jordan, Saudi Arabia, Tunisia, and UK). These clusters provide clear evidence of human-to-human transmission of MERS-CoV. The reservoir and route of transmission of MERS-CoV are still being investigated. Genetic sequencing to date has determined the virus is most closely related to coronaviruses detected in bats. The Centers for Disease Control and Prevention (CDC) is continuing to collaborate with the World Health Organization (WHO) and affected countries to better characterize the epidemiology of MERS-CoV infection in humans.

So far, there are no reports of anyone in the U.S. getting infected and sick with MERS-CoV. Additional information about MERS-CoV regarding the evaluation of patients, testing for MERS-CoV, infection control, and management of contacts is available at the CDC website, http://www.cdc.gov/coronavirus/mers/index.html



Avian Influenza A (H7N9) Virus

As of June 7, 2013, the Centers for Disease Control and Prevention (CDC) has reported 132 cases of human infection with a novel strain of avian influenza A (H7N9) virus. Thirty-seven cases have died. The cases have been seen in the eastern Chinese municipalities and provinces, as well as a single exported case in Taiwan. While mild illness in human cases has been seen, most patients have had severe respiratory illness. So far, there is no evidence of ongoing human-to-human transmission. No cases of H7N9 outside of China have been reported. Because influenza viruses constantly change, leading to the possibility that this virus could become able to spread between people and trigger a pandemic, CDC is following this situation closely and coordinating with domestic and international partners. The H7N9 virus has genetic changes that have been associated with making bird flu viruses spread better and more easily to mammals, causing more severe disease and causing disease to progress more quickly. CDC has issued a health alert for public health officials and clinicians in the United States to look for flu symptoms in travelers who are returning from countries with H7N9 bird flu. Additional information about Avian Influenza A (H7N9) is available on the CDC website at http://www.cdc.gov/flu/avianflu/h7n9virus.htm and includes guidance regarding use of antivirals, infection control, diagnosis and testing and information for laboratorians.

For people traveling to China, the CDC has issued these recommendations:

- Do not touch birds, pigs, or other animals. Avoid markets or farms with live poultry or other live animals.
- Eat food that is fully cooked, in cluding meat, poultry, and eggs. Don't eat food from street vendors.
- Practice hygiene and cleanliness.Wash your hands often. Don't touch your eyes, nose, or mouth.Avoid close contact, with people who are sick.
- See a doctor right away if you be come sick with fever, coughing, or shortness of breath, during or after travel to China.





MERS-CoV particles as seen by negative stain electrons microscopy (CDC)



Influenza A H7N9 a viewed through an electron microscope (CDC)

Influenza Season Surveillance Summary Palm Beach County, 2012-2013

- The percentage of ILI emergency room (ER) visits increased from week ending Dec.8, 2012 through March 23, 2013.
- The highest percentage of ILI ER visits was recorded in week ending Jan. 12, 2013. The morbidity trend decreased from that point but remained higher as compared to the previous two flu seasons.
- The lowest percentage of ILI was recorded during week ending May 4, 2013
- Total of 3 outbreaks reported.
- No Pediatric influenza deaths were reported.



Novel Viruses Continued

Highly Pathogenic Avian Influenza (H5N1)

More than 600 human HPAI H5N1 cases have been reported to the World Health Organization (WHO) from 15 countries in Asia. Africa, the Pacific, Europe and the Near East since November 2003. Approximately 60% of the cases have died. Indonesia, Vietnam and Egypt have reported the highest number of human HPAI H5N1 cases to date. Of the few avian influenza A viruses that have crossed the species barrier to infect humans, HPAI H5N1 virus has caused the largest number of detected cases of severe disease and death in humans. Despite the high mortality, human cases of HPAI H5N1 remain rare to date, even among persons exposed to infected sick or dead poultry.



Colorized transmission electron micrograph of Avian Influence A H5N1 viruses

ESSENCE Report Week 22



GASTROINTESTINAL SYNDROME



Reference Corner

http://www.who.int/ith/updates/20100421/en/index.html - International Infectious Diseases

> <u>http://www.doh.state.fl.us/disease_ctrl/epi/</u> - State of Florida Bureau of Epidemiology

<u>http://www.cdc.gov/mmwr/mmwr_wk.html</u> -CDC, Morbidity and Mortality Weekly Report

http://www.fda.gov/Food/FoodSafety/default.htm -FDA, Food Safety & Bad Bug Book

PALM BEACH COUNTY HEALTH DEPARTMENT PAGE 5 REPORTED COMMUNICABLE DISEASES FROM THE DIVISION OF EPIDEMIOLOGY & DISEASE CONTROL

	-		
WEEK 22, 2013 (Period from:06/02/13 to 06/08/13)	This Week	This Year	Same Time Last Year
CENTRAL NERVOUS SYSTEM AND INVASIVE DISEASES:			
Haemophilus influenzae invasive disease	2	13	11
Meningococcal disease	0	0	4
Listeriosis	0	2	1
Streptococcus pneumoniae invasive disease, drug-resistant	1	19	11
Streptococcus pneumoniae invasive disease, susceptible	2	25	16
Streptococcal disease, invasive Group A	0	13	4
Meningitis: bacterial, cryptococcal, mycotic	0	4	2
Encephalitis, other (non-arboviral)	0	0	0
Creutzfeldt-Jakob Disease (CJD)	0	0	0
Influenza A, novel or pandemic strains	0	0	0
VACCINE PREVENTABLE DISEASES:			
Mumps	0	0	0
Pertussis	0	18	11
Tetanus	0	0	0
Varicella	2	14	21
	-	14	21
			2
Hepatitis A	0	<u> </u>	3
Hepatitis B, acute	0	5	1
Hepatitis B, chronic	1	183	90
Hepatitis B, (HBSAg+) in pregnant women	4	30	17
Hepatitis C, acute	0	0	<u> </u>
ENTEDIC DISEASES:	37	936	497
		07	
Giardiasis	1	27	28
	4	01	57
Snigellosis	2	1	24
Salmonellosis	12	149	154
Cryptosporidiosis	0	8	17
Cyclosporiasis	0	0	0
Typhoid fever	0	0	1
Escherichia coli, Shiga toxin producing	1	20	18
Vibrio fluvialis	0	0	0
Vibrio alginolyticus	0	0	4
Vibrio vulnificus	0	0	0
Vibrio parahaemolyticus	0	1	0
Vibrionaceae, other	0	0	0
OTHER DISEASES:	-		
Human exposure to a potentially rabid animal	3	79	68
Animal rabies	0	7	2
Monkey bite	0	1	2
Brucellosis	0	0	2
Carbon monoxide poisoning	1	18	7
Dengue fever	0	6	0
Hansen's disease (Leprosy)	0	U	U
Hemolytic uremic syndrome (HUS)	0	U	U
Lead poisoning	0	22	11
		5	8
Lyme alsease	0	1	2
Ivialaria Mercumumoi coming	0	3	3
Posticido rolotod illacos er inium	U 4	U	1 2
Texenlogmenia		3	<u>ک</u>
roxopiasmosis	U	∠	U

Sector	Florida De Florida De Florida De TB All Others E (561 on 381.0031 (1.2), Florida Statutes, provides th	STD - Contro PI - (50) 840-4	ment of Health Palm Bea se Reporting Telephone Numbers AIDS, HIV - (561) 840-0144 (561) 803-7326, Fax - (561) 840-0144 of - (561) 803-7342, Fax - (561) 840-0 61) 671-4184, Fax - (561) 837-5330 M 1500 Evenings after 5PM and Week practitioner, licensed in Florida to practice medic	B D171 A-F 8AM ends ine, osteo	OUNTY M-5PM pathic medicine, chiropractic, naturopathy, or
veteri The D	nary medicine, who diagnoses or suspects the e IOH county health departments serve as the De tment shall issue a list of diseases determined b	partment wit to be	of a disease of public health significance shall in 's representative in this reporting requirement. F of public health significance, and shall furnish a	unthermol copy of sa	y report the fact to the Department of Health." re, this Section provides that "Periodically the aid list to the practitioners"
1	Reportable Diseases	/Con	ditions in Florida Practit	ioner Rule 64D	* Guide 11/24/08
NDS.	HIV - (561) 840-0144		Cyclosporiacis		Risin taxioty
+	Acquired immune Deficiency Syndrome		Dengue		Rooky Mountain spotted fever
	(AIDS) Human Immunodeficiency Virus (HIV)	1	Diphinerta	1	Rubella (Including ocegenital)
+	Infection (all, and including neonates born to an infected woman, exposed newborn)		Eastern equine encephalitis virus disease		St. Louis encephalitis (SLE) virus disease
TD -	(561) 803-7326	-	Etrichiosis	_	(neuroinvasive and non-neuroinvasive)
	Chanorold	-	Encephalitis, other (non-arboviral)	-	Sauthonine poisoning finaluting paralutin
•	Chiamydia		Enterio dicease due to:	•	chelifich poisoning) (PSP)
•	Conjunctivitis (in neonates ≤ 14 days old)		Escherichia coli, 0157:H7	1	Severe Acute Respiratory Syndrome-
•	Gonorrhea	50	E coli including entero-toxigenio	1.11	Shigeliock
•	Granuloma Inguinale		Invacive, pathogenic, hemorrhagio,	1	Smalipox
•	Herpes Simplex Virus (HSV) (in Infants up to 80 days old with disseminated Infection with		positive strains	1.1	Staphylococcus aureus, community associated mortality
	Involvement of liver, encephalitis and		Glardiasis	-	Staphylococcus aurous (infection with
	Infections limited to skin, eyes and mouth; anogenital in children \$ 12 years old)	1	Glanders	1	Intermediate or full resistance to
	Human papillioma virus (HPV) (associated	1	Hasmophilus influenzae (meningitic and	-	Staphylococous enferotoxin B (disease due
	laryngeal papillomas or recurrent respiratory papillomatosis in children ≤ 8 years old;		Hansen's disease (Leprocy)	-	to)
-	anogenitai in ohlidren ≤ 12 years)	-	Hantavirus Intention		Streptosocoal disease (invasive, Group A)
•	Lymphogranuloma venereum (LGV)		Hemolytic uremic syndrome		disease)
•	Syphilis	-	Heraltite A		Tetanus
<u> </u>	Syphilis (in pregnant women and neonates)		Henalitie B. C. D. F. and G.		Toxoplasmosis (acute)
BCC	NTROL - (561) 803-7342	10	Hepatitis B surface antigen (HBsAg)	•	Triohineliosis (Triohinosis)
ANC	ER (205) 242 4600		(positive in a pregnant woman or a onlid up to 24 months old)	1	Tularemia
Anc	Canoer (except non-melanoma skin cancer.	1	Influenza due to novel or pandemio strains	8	Typhold fever
+	and including benign and borderline	-	influenza-associated pediatric mortality (in	1.1	prowazekil Infection)
11.0	THEDS EDL (564) 671,4194	- 205	percons < 18 years)		Typhus fever (disease due to Rickettsla
	Any disease outbreak		Lead Poisoning (blood lead level 2 10µg/dL); additional reporting requirements exist for	-	typhi, R. felis infection)
	Any case, cluster of cases, or outbreak of a		hand held and/or on-site blood lead testing		Variaella (Chickennort)
1.1	disease or condition found in the general		technology, see 84D-3 FAC		Variaella mortality
	community or any defined setting such as a hospital, school or other institution, not	•	Legionellocis	-	Venezuelan equine enceghalitis virus
	licted below that is of urgent public health	•	Leptospirosis	1	disease (neuroinvacive and non-
	of person to person spread, zoonotic spread.	200	Listeriosis		Vibriosis (Vibrio Infrational
1.11	the presence of an environmental, food or	•	Lyme disease	-	Viral hemorrhagio fovers (Ebola, Marburn,
	that result from a deliberate and of terrorism.		Malaria	10	Lasta, Machupo)
	Ameblo encephalitic		Measles (Rubeola)		west Nile virus disease (neuroinvasive and non-neuroinvasive)
•	Anaplasmosis	-	Metiodiosis		Western equine encephalitis virus disease
1	Anthrax		Meningitis (baoterial, oryptococcai, mycotic)	-	(neuroinvasive and non-neuroinvasive)
•	Arsenio polsoning	1	Meningococcal disease (includes meningitis and meningococcemia)	-	
	other)		Meroury poisoning	1	- Report Importants DAT he share
	Botulium (Intant)	-	Mumos		upon initial suspicion or taboratory
) (Brucellock		Neurotoxie shellfish poleoning		test order
	California serogroup virus (neuroinvasive and non-neuroinvasive disease)	2	Pertussis	13	 Report Immediately 34/7
	Campylobacteriosis		Pesticide-related liness and injury	1000	Depend and Dependence day
	Carbon monoxide polsoning	1	Plague		- report next outliness day
1.7.6	Cholera	11	Pollomyeiltic, paralytic and non-paralytic	+	 Other reporting timeframe
	Ciguatera fich poisoning (Ciguatera)		Pettaoosis (Omithosis)		
	Congenital anomalies		Q Fever		
	Creutzfeidt-Jakob disease (CJD)	-	Rables (human, animal)	_	
_			Public Income in a language		