

# "Improving Public Health in Our Community Through Cooperation"

Alachua County Health Department (352) 334-7900

To report a disease, phone or fax the appropriate office below:

Administrator Paul Myers, MS (352) 334-8892

Environmental Health Director Anthony Dennis (352) 334-7931

### **HIV/AIDS**

Richard Willis, Surveillance (352) 334-7968 Fax (352)334-8867

Martha Buffington, Ryan White (352) 334-7967

Epidemiology/Hepatitis Nadia Kovacevich, MPH, CPH (352) 334-7981 Fax (352) 955-6464 If you would like to receive the Epi InvestiGator by email or fax, please contact us at the following email address: Nadia.Kovacevich@flhealth.gov,

Or phone: (352) 334 - 7981.

### Immunizations

Michael Smith, RN (352) 334-7950 Fax: (352) 334-7943

**Sexually Transmitted Disease** George Gibbs (352) 334-7900 ext 3470 Fax: (352) 334-8818

Tuberculosis Geneva Saulsberry, RN (352) 334-7988 Fax(352) 955-6464

After Hours: (352)-334-7900

**Editor** Sheila Griffis





## Influenza Surveillance

Submitted by: Joseph Brew, Epidemiologist

Influenza is a disease of enormous public health significance but

is not reportable. The Alachua County Disease Control Unit relies on communication with multiple institutions for the real-time surveillance of flu and flu-like illness in our area. These sources, when combined with one another, allow epidemiologists to paint an accurate picture of the magnitude and severity of the flu season in real time. This is important information for both local practitioners as well as State- and National-level surveillance reports. The four main sources of flu data are:

- 1. The Health Department's clinic (a CDC "sentinel" provider)
- 2. The public schools
- 3. The Florida Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE)
- 4. Local practitioners and facility managers who report unusual activity or case clusters.

All of these data sources are imperfect, but the combination of them is a powerful tool for public health practice. When a school nurse, an emergency room physician and general practitioners suspect a trend based on their small patient load, they might be unaware that others are experiencing the same trend at the same time. The Disease Control Unit compiles and disseminates this information, informing public health practice so as to best prevent and

### treat flu.

Surveillance of this year's flu season suggests that, as with the 2012-13 flu season, peak flu will be in mid/late January. The polygon plot, right, shows the cumulative weekly incidence of flulike illness in local schools; the \*green line shows the weekly incidence of emergency cases for ILI among all Alachua residents.

Flu is unpredictable, and some flu seasons have multiple periods of peak activity.

The best way to protect ourselves and our community from flu is by getting the immunization. **It's not too late!** \*View color version at: <u>floridahealth.gov/</u> chdalachua/



### **Disease Control Unit Welcomes CDC Associate**

The Disease Control family is pleased to welcome our new CDC Public Health Associate, Anthwan (Omar) Braumuller. Omar graduated from Emory University with an Associate of Arts in Biology and a Bachelor of Arts in History with concentrations in Pre-Medicine/Law. Omar has been working in the Epidemiology program since the fall and will transition to Environmental Health for his second year. Omar enjoys singing, playing the piano, epigenetic research, and coaching high school sports. He has already contributed greatly to our team, and we look forward to the year ahead! Omar says, "I aspire to use the experiences I develop here with all of you to pursue a career in Public Health Policy very soon."

By: Nadia Kovacevich, MPH Alachua County Health Dept.



Condensed by N. Kovacevich, MPH

By: Omar Braumuller, AA,BA CDC PHAP Associate

### The Lone Star Tick and its STARI Complications

Alachua County is home to a variety of tick species, all of which can pose harm to us and the animals we keep as pets. One in particular, the lone star tick (*Amblyomma americanum*), has an affinity for

human blood, coupled with a rather aggressive temperament. These little blood-feeding parasites may pose a greater threat to us than just minor irritation. They are easily identified by a single white dot (hence the name "Lone Star") on their backs as adults. They are found primarily in the southeastern United States but can span as far west as the borders of Texas and as far north as Maine. They are also the most prominent humanbiting tick in Florida and anything from hiking to camping and other outdoor activities can increase the risk of a bite from these ticks.

Within the past decade, lone star ticks have been considered the carrier of a currently unknown pathogenic agent that causes Southern Tick-Associated Rash Illness, also known as (STARI) or Masters Disease. It has been identified in people with a rash and other symptoms similar to those in Lyme disease that did not have evidence of infection with *Borrelia burgdorferi*. A related bacterium, *Borrelia lonestari*, has been identified and may be the cause of the illness but is not confirmed. There is still much to learn about this unpleasant illness in regards to what causes it and its epidemiological characteristics.

Simple precautions can be taken to prevent exposure to tick bites. While engaging in outdoor activities, walk in the center of a trail, avoiding contact with vegetation. Repellents containing at least 20% DEET and no more than 50% should be used appropriately according to the manufacturer's directions. Make sure to spray your clothing and exposed skin, concentrating your feet, ankles, and legs. Wear appropriate outdoor garments and footwear.

After a period of outdoor activities in high-risk areas, conduct a full body tick check by using a mirror to inspect your entire body. Make sure to also examine your clothes and any other gear to ensure ticks do not ride on them into your home. If you do find ticks on clothing, you can tumble dry them on high heat for an hour to kill them. Finally, inspect your household pets for ticks; and if you are indeed bitten, closely

monitor your health, and see a physician as soon as possible if symptoms do arise.

Baylisascaris Procyonis Confirmed in Alachua County

### **References:**

Fritz, C. L. (March 2009). Emerging tick-borne diseases. Veterinary Clinics of North America: Small Animal Practice, 39(2), 265-268. Retrieved from http://www.sciencedirect.com/science/article/pii/S0195561608001927

Masters, E. J., Grigery, C. N., & Masters, R.W. (June 2008). STARI or Masters Disease: Lone star tick-vectored Lyme-like illness. Infectious Disease Clinics of North America, 22(2), 361-376. Retrieved from http://www.sciencedirect.com/science/article/pii/S0891552007001286

For additional scientific/clinical resources on STARI, please visit the following sites:

Centers for Disease Control and Prevention: http://www.cdc.gov/stari/.

Florida Department of Health: http://www.floridahealth.gov/diseases-and-conditions/tick-and-insect-borne-diseases/stari.html.

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Submitted By: Nadia Kovacevich, Epidemiologist

*Baylisascaris procyonis*, also known as the raccoon roundworm, is a parasite that is commonly found in raccoons. The parasite was considered to be absent or rare in Florida raccoons until recently when *Baylisascaris* infections were identified in wild raccoons. Counties with confirmed B. procyonis now include: Alachua, Bay, Broward, Escambia, Hernando, Hillsborough, Leon, Orange, Pinellas, Volusia, and Wakulla. The infection in people is severe but rare even in endemic areas, and the infection most often involves young children or those with developmental handicaps (Florida Department of Health [FDOH], 2013).

Raccoons are the primary or definitive host and shed eggs in large quantities in their feces. Fecal material that is left in the environment for more than 11 days may be infectious. The eggs can survive for years in the environment and are resistant to most disinfectants. However, eggs can be inactivated with heat. People who accidentally swallow material contaminated with eggs (fecal-oral exposure) can be infected. Infections in people can result in parasite cyst formation. Symptoms may include fever, nausea, unusual tiredness, loss of coordination, inability to focus attention, loss of muscle control, muscle aches or pain, vision impairment, and respiratory signs (FDOH, 2013). Testing for suspected human cases is available through the Centers for Disease Control and Prevention (CDC).

**Reference:** http://www.floridahealth.gov/diseases-and-conditions/diseases-fromanimals/\_documents/baylisascaris.pdf

### For additional information:

CDC Baylisascaris Infection: http://www.cdc.gov/parasites/baylisascaris/index.html CDC Baylisascaris in pools:

http://www.cdc.gov/healthywater/swimming/pools/animals/raccoons-and-pools.html FL DOH Diseases Infectious from Animals to People (Zoonotic Diseases):

http://www.doh.state.fl.us/Environment/medicine/arboviral/Zoonoses/Zoonotic-index.html



# FLORIDA REPORTABLE DISEASES Alachua County 2 year activity

Disease Activity	2013	2012	Disease Activity Con'td.	2013	2012	
-	Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec	ק
AIDS	35	35	Lyme Disease (06959)	0	3	reser
Animal Bites to Humans (07101)	59	65	Lymphogranuloma Venereum	0	0	Any o
Anthrax	0	0	Malaria (08460)	2	2	disec of a d
Arsenic Poisoning (98080)	0	I	Measles (05590)	0	0	<b>1seas</b> Iiseas
Botulism	0	0	Meningitis, Group B Strep (32040)	0	0	se ou
Brucellosis	0	0	Meningitis other (32090)	I	2	tbre
Campylobacteriosis (03840)	30	18	Meningitis Strep Pneumoniae (32020)	0	0	(e.g. ak. A
Carbon Monoxide Poisoning (98600)	0	2	Meningococcal (Neisseria Meningitidis)03630	I.	0	ll cas
Chlamydia trachomitis	1831	1883	Mercury Poisoning	0	0	the c ses s
Cholera	0	0	Monkey Bite (07103)	0	0	uspe
Ciguatera	0	0	Mumps	0	0	tted
Creutzfeldt-Jakob Disease (CJD)	0	0	Neurotoxic Shellfish Poisoning	0	0	y, hc and
Cryptosporidiosis (13680)	5	10	Pertussis (03390)	4	2	conf
Cyclosporiasis (00720)	4	I	Pesticide-Related Illness or Injury	0	2	îrme
Dengue (06100)	2	0	Plague	0	0	ed ar
Diphtheria	0	0				e inc
Encephalitis	0	0	Psittacosis	0	0	lude
Eastern Equine	0	0	Q fever	0	0	d in
Non-arboviral	0	0	Rabies Animal (07102)	6	5	; or this
Other arboviral	0	0	Ricin Toxin	0	0	repc
St. Louis	0	0	Rocky Mountain Spotted Fever (08200)	3	3	ort.
West Nile	0	0	Rubella	0	0	le ol
Western Equipo	0	0	SARS	0	0	rwa
F coli 0157:H7 (41401)	0	0	Salmonellosis (00300)	79	105	terb
Endichiosis/anablasmosis HCE A Phag	0	20	Saxitoxin poisoning psp	0	0	orne
	U	20	Shigellosis (00490)	7	10	Ă
ocytopnium (06361)	0	2	Smallpox	0	0	ny g
Enflictiosis/anaplasmosis, inflé é chalj. 08382	0	2	Stabbylococcus aureus VRSA	0	0	rout
Escriencina Coli, Sniga Toxin Producing 00800	4	0	Stabhylococcus antonotoxin B	0	0	oing
Ciandiacia (a suta) (00710)	17	0	Streptococcas enterotoxin B		6	or c
Glardiasis (acute) (00710)	17	21	Streptococcal Disease grp A linea (05400)		0	luste
Gonorrnea	644	659	Strep pneumoniae invasive Disease, Drug	7	7	ering
H. Influenzae Pneumonia (48220)	0	0	resistant (04823)			ofp
Haemophilus influenzae, inv disease(03841)	3	/	Strep pneumoniae invasive Disease, suscep-	12	19	atier
Hansen's Disease (Leprosy)	0	0	tible (04830)			רts h
Hantavirus infection	0	0	Syphilis	30	19	avin
	0	0	Syphilis in pregnant women & peopates	٥	0	sim
	0	1	Tetanus	0	0	iilar
Hepatitis B (+HBSAG in preg women or child $\leq 24$ months (07039)	8	8	Toxoplasmosis (acute)	U I	0	dis ea
	0	0	Trichinosis	0	0	ses,
Hepatitis B Fernatai (07744)	0	0	Tuberculosis	5	2	symp
Hepatitis B Acute (07030)	1	0		5	2	otom
Hepatitis B Chronic (07032)	57	66	Typhold Fever	0	1	sor
Hepatitis C Acute (07051)	0	3	Typhus Fever	0	0	synd
Hepatitis C Chronic (07054)	296	354	Vaccinia Disease	0	0	from
Hepatitis E (07053)	0	0	varicella (US270) Vibrio Parabaomoluticus (00540)	11	104	les ti
Herpes Simplex Virus in < 6mo of age	0	0	V shalaraa Sana sana 01/	1		nat n
HIV	52	56	v. criolerae Serogroup UI/ non UI	1	1	nay i
Human Papillomavirus (HPV) <12 yrs	0	0	Vidriosis (Vidrio mimicus) 00197	I	0	ndica
Influenza A, Novel or Pandemic Strains	0	0	Vibriosis (Vibrio vulnificus) 00199	0	I.	ate th
Load Poisoning (94990)	E	Λ	West Nile Virus Neuroinvasive Dis. 06630	I	0	le
	2	4		•	Ŭ	
Legionellosis (48280)	0	I _				

# The Alachua County Health Department VINTER QUARTER 2013 "Improving Public Health in Our Community Through Cooperation

### Vaccine Information Statements Are you current?

Does your facility have the most current Vaccine Information Statements available to provide to your client? VISs contain the most up to date information on all vaccines administered and are required to be given to each vaccine recipient/recipient's parent or guardian prior to the vaccination. This process is mandated by the **National Childhood Vaccine Injury Act** [NCVIA]. These statements are published by the *Centers For Disease Control and Prevention* providing the recipient with helpful, informative material regarding:

- Why get vaccinated?
- Who should get the vaccine and when?
- What are the risks from the vaccine?
- What if there is a serious reaction?
- The National Vaccine Injury Compensation
  Program
- How can I learn more?

To the right is the most recent list of current VISs available as of 1/17/14. VISs not only are written in English, but many other common languages. If your office/facility does not have the most current VIS, they can be located online at two websites:

•www.cdc.gov/vaccines/pubs

•<u>www.immunize.org/vis/</u>

Chicken Pox (Varicella)	03/13/08
DTaP	05/17/07
Hepatitis A	10/25/11
Hepatitis B	02/02/12
HiB	12/16/98
HPV	05/17/13
Meningococcal	10/14/11
MMR	04/20/12
MMRV	05/21/10
Multi-Vaccine	11/16/12
PCV	02/27/13
PPSV	10/06/09
Polio	11/08/11
Rabies	10/06/09
Rotovirus	08/26/13
Shingles	10/06/09
Td	01/24/12
TDaP	05/09/13
Japanese Encephalitis	12/07/11
Typhoid	05/29/12
Yellow Fever	03/30/11
Influenza	07/26/13

Submitted By: Michael Smith, RN

Date

Vaccine



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