



# Epidemiology Monthly Surveillance Report

Florida Department of Health in Orange County

## Orange County, FL Takes on Antimicrobial Resistance

The Florida Department of Health Orange County (DOH-Orange) invites you to participate in a planning and networking session around the topic of antimicrobial resistance (AR) in Orange County, FL. We are looking for your local expertise to identify strengths, weaknesses, opportunities and threats in our regional community's approach to antimicrobial resistance.

**January 18, 2017**  
**8:30a.m-12:30p.m. ET**

Florida Department of Health in Orange County  
Auditorium  
6101 Lake Ellenor Drive  
Orlando, FL 32809

Please register by email to Heyda Rodriquez at [heyda.rodriquez@flhealth.gov](mailto:heyda.rodriquez@flhealth.gov)



**Training Opportunity: Elements of Stewardship**

**of Outpatient Antibiotic**

On November 15, 2016, the Centers for Disease and Control and Prevention (CDC) conducted a webinar on Elements of Outpatient Antibiotic Stewardship. The webinar informed listeners on the framework for implementing antibiotic stewardship in an outpatient setting that was published in a recent Morbidity and Mortality Weekly Report. To view the MMWR and recorded webinar please visit the CDC Webinar Series at <https://www.cdc.gov/hai/prevent/safe-healthcare-webinars.html>.

November 2016

Volume 7, Issue 11

**Points of Interest:**

- Antibiotic Resistance Stewardship Program
- Global Highly Pathogenic Avian Influenza

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**Resources**

- [MMWR](#)
- [CDC Webinar Series](#)

## Influenza Surveillance (data from Florida Flu Review)

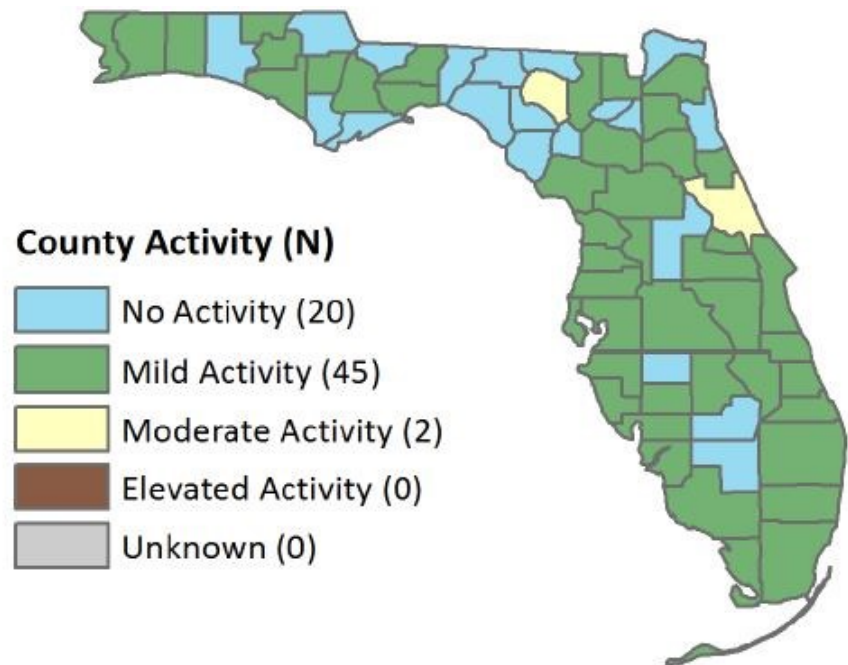
### Florida

- ⇒ Influenza activity during the '15-'16 influenza season has increased slightly, but has remained at low levels across the state.
- ⇒ In recent weeks, emergency department and urgent care center ILI visits reported into ESSENCE-FL (Florida's syndromic surveillance system) increased and are similar to levels observed in previous seasons.

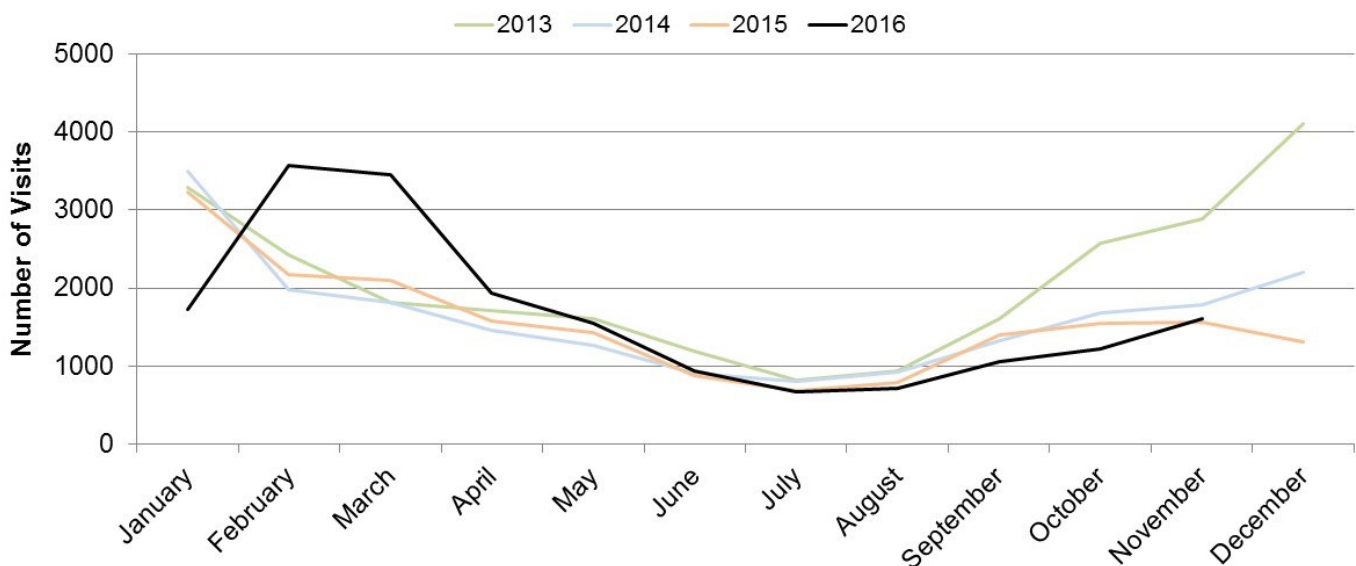
### Orange County

- ⇒ No influenza outbreaks were reported in Orange County during November 2016.
- ⇒ Influenza-like illness is at similar levels observed in previous seasons in Orange County during November 2016.

### Influenza Activity Level, by county for week 47, 2016



### Influenza-like Illness from Emergency Department Visits in Orange County, 2013 to 2016



### Influenza Resources:

[Florida Department of Health Weekly Influenza Activity Report](#)

[Center for Disease Control and Prevention Weekly Influenza Activity Report](#)

## Zika Virus Surveillance

### National

- ⇒ The CDC has issued travel recommendations concerning the Zika virus. The latest travel recommendations can be viewed [here](#).
- ⇒ Differences in case counts can be attributed to surveillance reporting speeds between agencies.

### Florida

- ⇒ **The Miami Beach area has been cleared of ongoing active Zika transmission.**
  - **No areas in Florida have ongoing active Zika transmission.**
- ⇒ 37 counties are currently under a declared state of emergency due to identification of travel-related Zika infections.
- ⇒ As of December 16, there have been 193 pregnant women with lab-evidence of Zika infection.

### Orange County

- ⇒ No local transmission of Zika has been identified in Orange County.

### Clinician Guidance

Clinicians that suspect a patient has a Zika virus infection should:

- 1) Test for Dengue and Chikungunya viruses due to similar geographic spread of diseases and clinical presentation;
- 2) Contact their local county health department to report the disease upon suspicion. The local health department will be able to provide consultation for laboratory testing recommendations. Local health department contact information is available [here](#).

As of a December 16, 2016:

Top 3 States	Case Count
Florida	969
New York	944
California	383

As of December 16, 2016:

Infection Type	Infection Count
<b>Total Count</b>	<b>1,262</b>
Travel-Related Infections of Zika	992
Locally Acquired Infections of Zika	251
Undetermined	16

As of December 16, 2016:

County	Case Count
Miami-Dade	312
Broward	162
Orange	145
Palm Beach	55
Hillsborough	38
Osceola	35
Seminole	24
Collier	22
Pinellas	20
Brevard	15

## Zika Virus Resources:

[Florida Department of Health](#)

[Orange County Mosquito Control](#)

[Centers for Disease Control and Prevention](#)

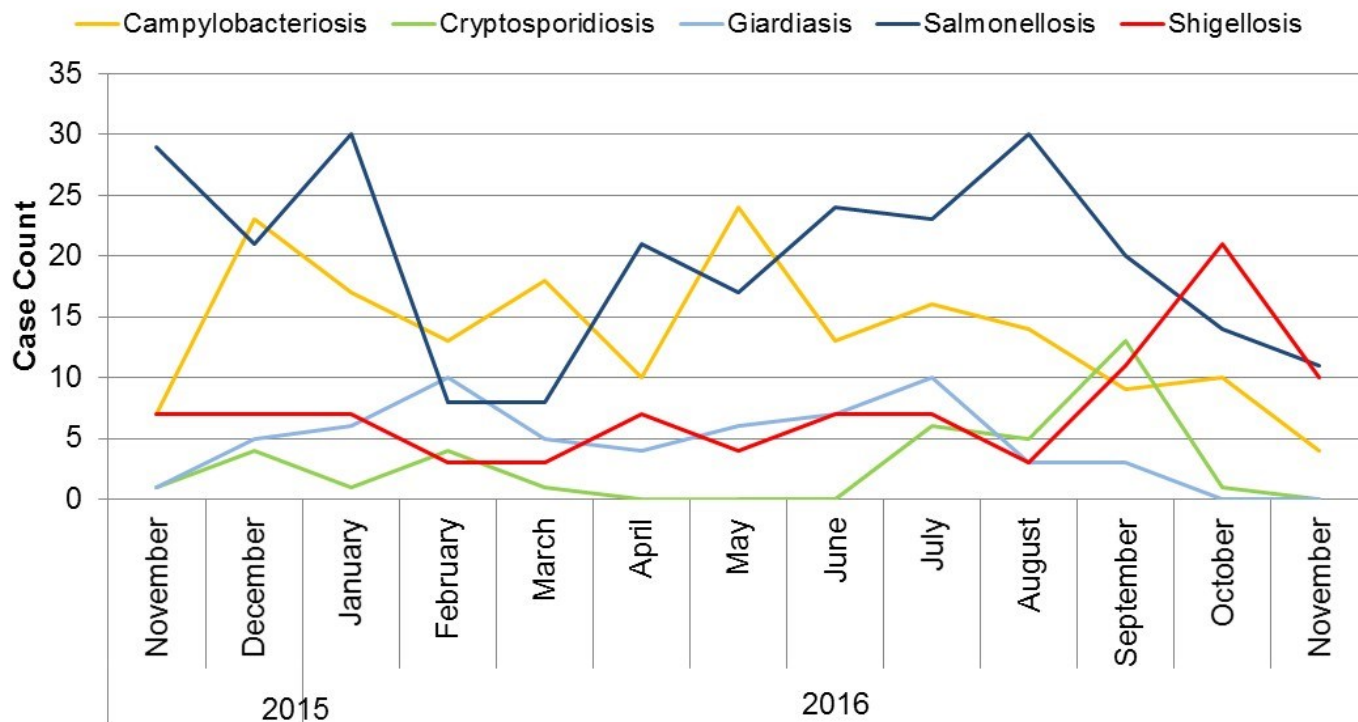
[Latest Travel Notices](#)

[CDC Healthcare Guidance](#)

[Local Health Department Contact Information](#)

## Gastrointestinal Illness Surveillance

Select Reportable Enteric Diseases in Orange County, Florida, November 2015 to November 2016



### Gastrointestinal Illness Points of Interest:

- ⇒ Enteric reportable diseases cases remain within seasonally expected levels.
- ⇒ One foodborne outbreak of unknown etiology was reported during November 2016.
- ⇒ One case of Ciguatera Fish Poisoning was reported during November 2016.
- ⇒ No waterborne disease outbreaks were identified in November 2016.

### Gastrointestinal Illness Resources:

[Florida Online Foodborne Illness Complaint Form - Public Use](#)

[Florida Food and Waterborne Disease Program](#)

[Florida Food Recall Searchable Database](#)

[Florida Department of Health - Norovirus Resources](#)

[CDC: A-Z Index for Foodborne Illness](#)

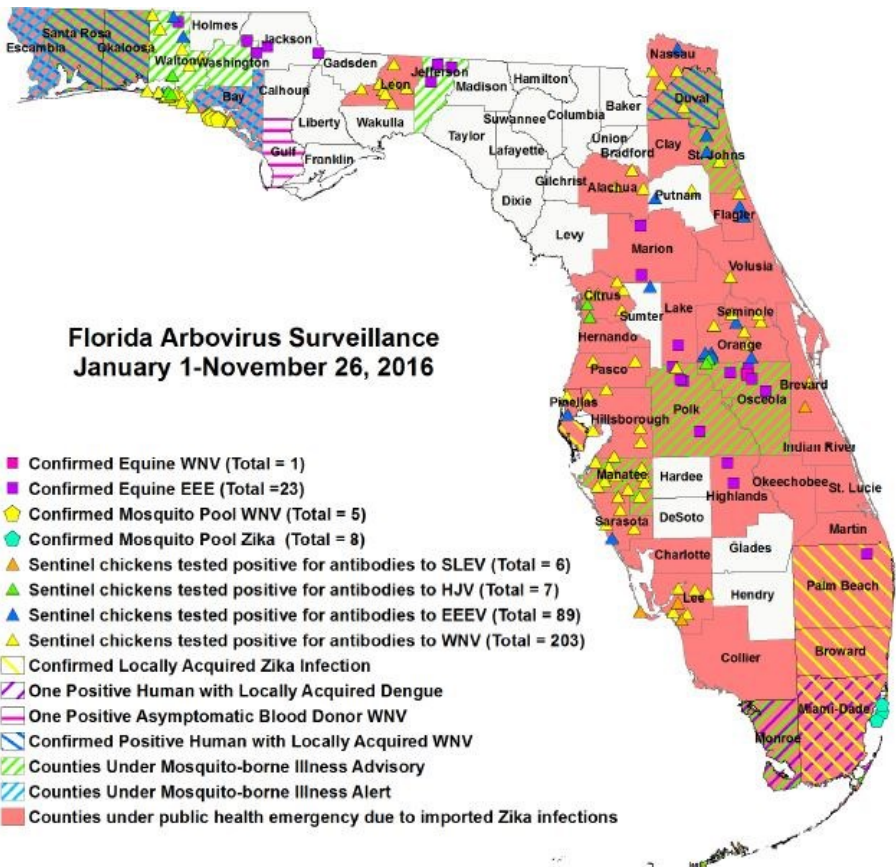
[CDC: Healthy Water](#)

**REPORT  
FOODBORNE  
ILLNESS  
ONLINE**

## Arboviral Surveillance

### Florida

- ⇒ Four cases of locally acquired West Nile Virus were reported in Florida during 2016.
- ⇒ One case of locally acquired Dengue was reported in Florida during 2016.
- ⇒ Imported cases of Dengue, Malaria, and Chikungunya virus have been reported in Florida during 2016.
- ⇒ More details available below with link to: [Weekly Florida Arboviral Activity Report](#).



### Orange County

- ⇒ No locally acquired cases of Zika Virus, West Nile Virus, Dengue Virus, Chikungunya Virus, St. Louis Encephalitis Virus, or Eastern Equine Encephalitis Virus have been identified in Orange County during 2016.
- ⇒ In 2016, sentinel chickens tested positive for West Nile Virus (WNV) Highlands J Virus, and Eastern Equine Encephalitis (EEE) in Orange County.

## Arboviral Resources:

[Weekly Florida Arboviral Activity Report \(Released on Mondays\)](#)

[Orange County Mosquito Control](#)

## Chikungunya Resources

[Florida Department of Health Chikungunya Information](#)

[CDC Chikungunya Information](#)

[CDC Chikungunya MMWR](#)



Disease	ORANGE				All Counties			
	November		Cumulative (YTD)		November		Cumulative (YTD)	
	2016	Median 5YR	2016	Median 5YR	2016	Median 5YR	2016	Median 5YR
Campylobacteriosis	12	8	182	115	268	196	3392	2498
Carbon Monoxide Poisoning	1	0	10	8	15	11	240	162
Chikungunya Fever	0	0	0	0	0	0	16	0
Ciguatera Fish Poisoning	1	0	2	1	1	0	34	48
Cryptosporidiosis	2	2	38	24	50	32	556	431
Dengue Fever	0	0	5	6	5	11	80	98
Escherichia coli: Shiga Toxin-Producing (STEC)	3	1	30	17	52	33	607	406
Giardiasis: Acute	5	4	65	63	67	86	1047	1028
Haemophilus influenzae Invasive Disease	3	1	13	14	17	12	278	243
Hepatitis A	1	0	8	3	14	8	125	116
Hepatitis B: Acute	3	0	24	10	55	35	634	353
Hepatitis B: Chronic	39	32	424	368	414	341	4695	4082
Hepatitis B: Perinatal	0	0	0	0	0	0	0	1
Hepatitis B: Surface Antigen in Pregnant Women	7	2	41	61	33	31	363	451
Hepatitis C: Acute	1	0	6	7	15	13	276	179
Hepatitis C: Chronic	139	124	1575	1460	2424	2263	29321	27994
Influenza A: Novel or Pandemic Strains	0	0	0	0	0	0	0	0
Influenza-Associated Pediatric Mortality	0	0	1	0	0	0	6	3
Lead Poisoning	4	2	57	21	53	47	1072	739
Legionellosis	3	1	28	20	52	22	364	253
Leptospirosis	0	0	1	0	0	0	2	1
Listeriosis	0	0	2	2	2	3	35	40
Lyme Disease	1	0	6	4	36	13	350	157
Malaria	1	0	10	7	10	3	81	61
Measles (Rubeola)	0	0	0	0	0	0	5	9
Meningitis: Bacterial or Mycotic	0	0	1	8	9	13	108	136
Meningococcal Disease	0	0	0	1	6	5	18	49
Mumps	1	0	2	0	2	2	28	17
Neurotoxic Shellfish Poisoning	0	0	0	0	0	0	0	0
Pertussis	1	2	34	26	16	33	314	554
Rabies: Possible Exposure	6	5	68	81	234	220	3091	2542
Rubella	0	0	0	0	1	0	2	0
Salmonellosis	18	29	269	314	495	630	5949	5945
Shigellosis	12	8	98	99	89	134	901	1944
Strep pneumoniae Invasive Disease: Drug-Resistant	6	2	18	23	19	37	183	427
Strep pneumoniae Invasive Disease: Drug-Susceptible	1	1	16	21	24	35	389	491
Tetanus	0	0	0	0	0	0	4	3
Varicella (Chickenpox)	3	2	16	28	55	40	692	711
Vibriosis (Vibrio parahaemolyticus)	0	0	1	0	2	3	52	42
Vibriosis (Vibrio vulnificus)	0	0	2	0	3	2	47	35

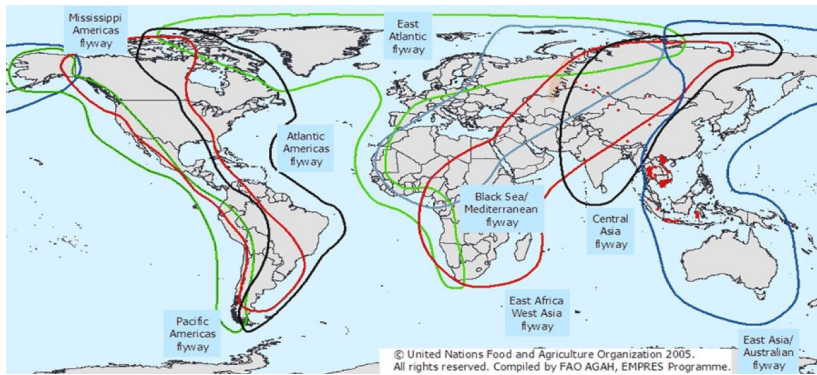
\*\*\* All Data is Preliminary \*\*\*

## Global Highly Pathogenic Avian Influenza H5N8

Since October 17, 2016, there have been numerous reports of several locations in India experiencing sudden bird deaths. Specimens from the dead birds have tested positive for highly pathogenic avian influenza (HPAI) H5N8. Additional reports of H5N8 related bird deaths have been reported in Europe, Middle East, and North Africa. All reports of H5N8 occurred among wild birds and domestic poultry; no human cases have yet to be reported.

The transmission of H5N8 among the wild birds is hypothesized to be spread along the migratory route. The World Health Organization (WHO), is currently assessing the human risk of H5N8, because it cannot be excluded at this time. For additional information and updates please visit [WHO](http://www.who.int).

Picture 1. Major Migratory Flyways of Migratory Birds



### Other Disease Resources

In the structure of DOH-Orange, tuberculosis, sexually transmitted infections, and human immunodeficiency virus are housed in separate programs from the Epidemiology Program. We recognize the importance of these diseases for our community partners and for your convenience have provided links for surveillance information on these diseases in [Florida](#) and [Area 7 HIV & AIDS Program](#) (Brevard, Orange, Osceola, and Seminole Counties).



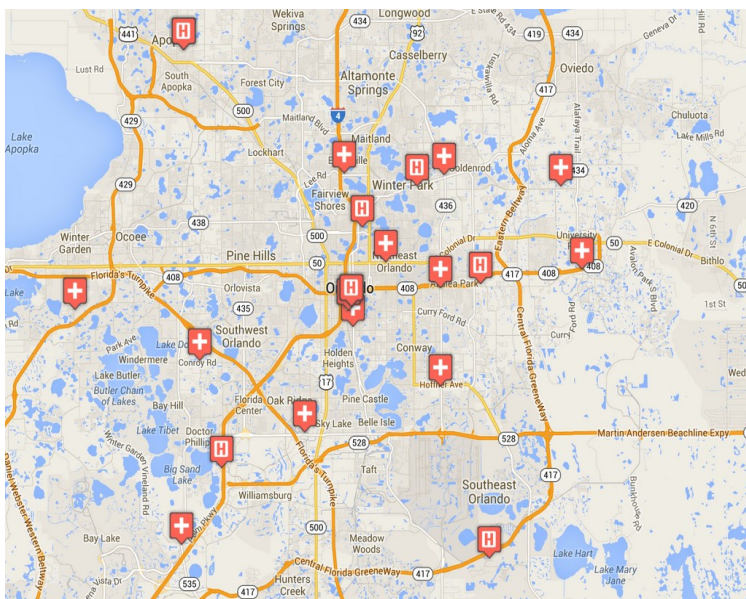
### Florida Department of Health: ESSENCE



Hospital linked to ESSENCE



Florida Hospital Centra Care Clinic linked to ESSENCE



Since 2007, the Florida Department of Health has operated the Early Notification of Community-based Epidemics (ESSENCE-FL), a state-wide electronic bio-surveillance system. The initial scope of ESSENCE was to aid in rapidly detecting adverse health events in the community based on Emergency Department (ED) chief complaints. In the following years, ESSENCE capabilities have continually evolved to currently allow for rapid data analysis, mapping, and visualization across several data sources, including ED record data, Merlin reportable disease data, Florida Poison Information Network consultations, and Florida Office of Vital Statistics death records. The majority of the information presented in this report comes from ESSENCE. Florida currently has 228 emergency departments and 35 urgent care centers reporting to ESSENCE-FL for a total of 263 facilities.

## Florida Department of Health in Orange County

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<http://orange.floridahealth.gov/>

### Sign up for Electronic Health Alerts & Epidemiology Monthly Surveillance Reports

Email Contact Information to:

[CHD48.EPIRegistration@flhealth.gov](mailto:CHD48.EPIRegistration@flhealth.gov)



#### Issue Contributors

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*The Epidemiology Program conducts disease surveillance and investigates suspected occurrences of infectious diseases and conditions that are reported from physician's offices, hospitals, and laboratories.*

*Surveillance is primarily conducted through passive reporting from the medical community as required by Chapter 381, Florida Statutes.*

*Data is collected and examined to determine the existence of trends. In cooperation with the Office of Emergency Operations, the Epidemiology Program conducts syndromic and influenza-like-illness surveillance activities.*

*Syndromic surveillance was added to the disease reporting process as an active method of determining activities in the community that could be early indicators of outbreaks and bioterrorism.*

*Our staff ensures that action is taken to prevent infectious disease outbreaks from occurring in Orange County communities and area attractions. Along with many public and private health groups, we work for the prevention of chronic and long-term diseases in Central Florida.*

**ALL DATA IS PROVISIONAL**