



Epidemiology Monthly Surveillance Report

Florida Department of Health in Orange County

February 2019

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The Epidemiology Program conducts surveillance and investigates, controls, and prevents occurrences of acute infectious diseases and outbreaks that are reported to the program.

Surveillance is conducted primarily through required reporting from health care providers, facilities, and clinical labs, and other required reporters as required by Chapter 381, Florida Statutes.

Data are collected and analyzed to track disease trends, and identify outbreaks and unusual occurrences for response and mitigation, and to identify targets for prevention and reduction efforts.

The Epidemiology Program conducts syndromic and influenza-like-illness surveillance activities through voluntary reporting from emergency departments and urgent care centers across Orange County. Syndromic surveillance is a method of determining activities in the community that could be early indicators of outbreaks and bioterrorism.

County Program

Contacts

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Hepatitis Program

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HIV/AIDS Surveillance

Ph: 407-858-1437

Tuberculosis

Ph: 407-858-1446
Fax: 407-245-0047

Sexually Transmitted Diseases

Ph: 407-858-1445
Fax: 407-845-6134

Healthy Start

Ph: 407-858-1472

Health Advisories, News, & Alerts:

- [DOH-Orange Recommends Prevention and Vaccination for Hepatitis A](#)
- [CDC Health Advisory CDCHAN-00417 “Third Case of Rifampin/Penicillin-Resistant Strain of RB51 Brucella from Consuming Raw Milk”](#)
- Appendix: Health Care Provider Update “Continued Need for Proactive Vaccination of At-Risk Adults During Sustained Increases in Locally Acquired Hepatitis A Infections in Orange County (February 28, 2019)”

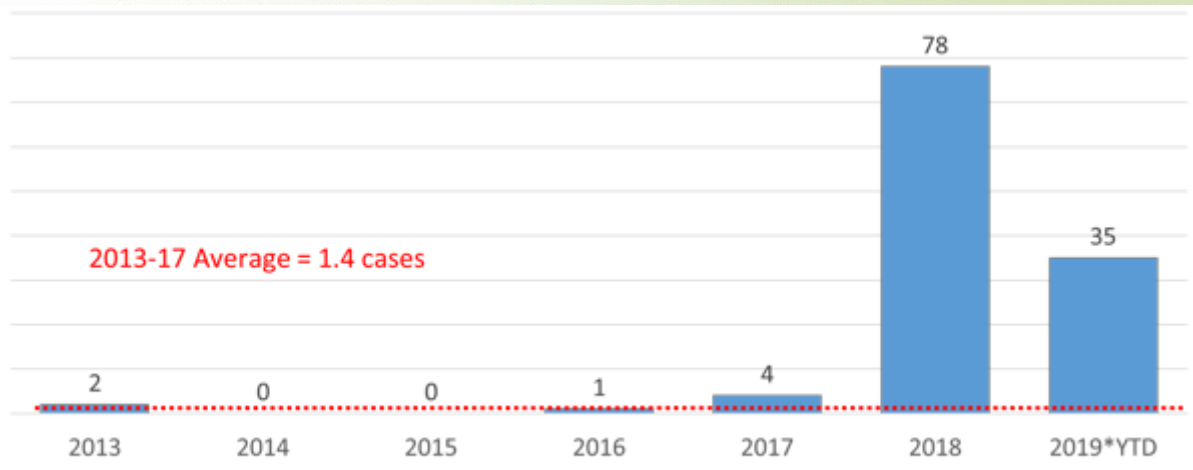
CDC Travel Notices: Travel notices are designed to inform travelers and clinicians about current health issues related to specific international destinations

- [Enhanced surveillance for displaced Venezuelans](#)
- [Ebola in Democratic Republic of the Congo](#)
- [Polio in Indonesia](#)
- [Zika Virus in India](#)
- [Drug –Resistant Infection in Mexico](#)



Hepatitis A County Update

Orange County Non-Travel Associated Hepatitis A Cases, 2013-2019 *YTD



Source: DOH-Orange Epidemiology Program, as of 02/25/2019

Deaths: 1

Hospitalized: 84% (n=113)

Age range: 2-71 years

Median = 35 years

Sex: 66% male (n=113)

Non-Hispanic: 90% (n=113)

White: 80% (n=113)

Secondary cases (contact of previously known case) = 14

Risk factors (where data are known):

MSM = 18% (n=102)

DU (IV and non-IV) = 54% (n=104)

Homeless = 29% (n=101)

Hep B/C co-infected = 38% (n=111)

Incarcerated = 26% (n=46)

Healthcare workers: n=4

Childcare/school age children: n=2

Food service workers/facilities: n=4

CONFIRMED, PROBABLE, SUSPECT CASES OF HEPATITIS A WITH REPORT DATE 1/1/2018 to 2/25/2019

Top 5 Impacted Counties in Florida

County	2018	2019 *YTD	TOTAL
Pinellas	113	88	201
Pasco	65	65	130
Orange	93	44	137
Hillsborough	84	37	121
Seminole	30	12	42
TOTAL	385	246	631

Source: Florida Merlin

****ALL DATA ARE PRELIMINARY****

Influenza Surveillance

(MMWR Week 8: February 17-23, 2019)

Statewide Activity

Geographic Spread:
Widespread



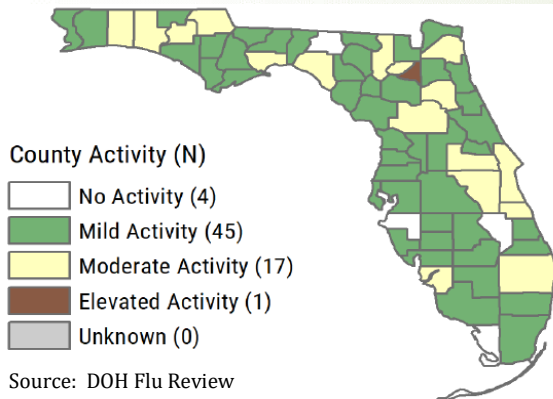
Predominant Strain:
A 2009 (H1N1)



ILI Activity Trend:
Decreasing



Influenza activity by County, Week 8

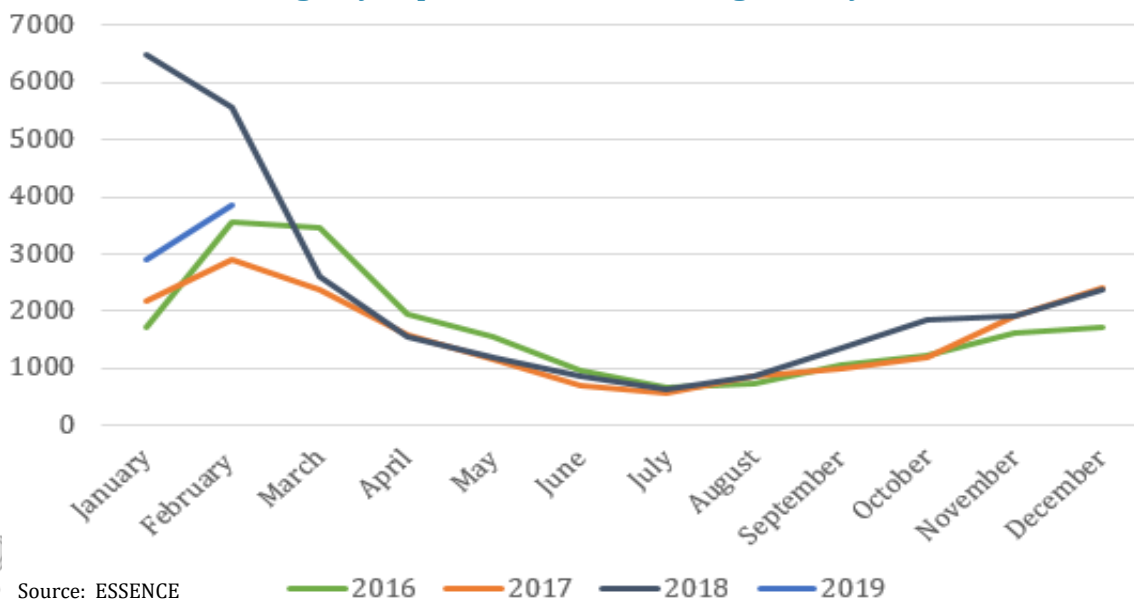


- In week 8, influenza and ILI activity decreased slightly statewide and was similar to peak levels observed during the 2015-16 season.
- 17 counties reported moderate influenza activity (down from 26 counties in week 7).
- No new influenza-associated pediatric deaths were reported in week 8. Three influenza-associated pediatric deaths have been reported so far this season, all in unvaccinated children.

Orange County Activity

- Three influenza outbreaks and two influenza-like illness outbreaks were reported in Orange County for week 8.

ILI Emergency Department Visits in Orange County, 2016 to 2019



Flu Level:

Moderate



Flu Trend:

Stable



Influenza Resources:

[Florida Department of Health Influenza](#)

[CDC: Influenza \(Health Professionals\)](#)

[CDC: Weekly US Influenza Surveillance Report](#)

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

****ALL DATA ARE PRELIMINARY****

Arboviral Surveillance

(MMWR Week 8: February 17-23, 2019)

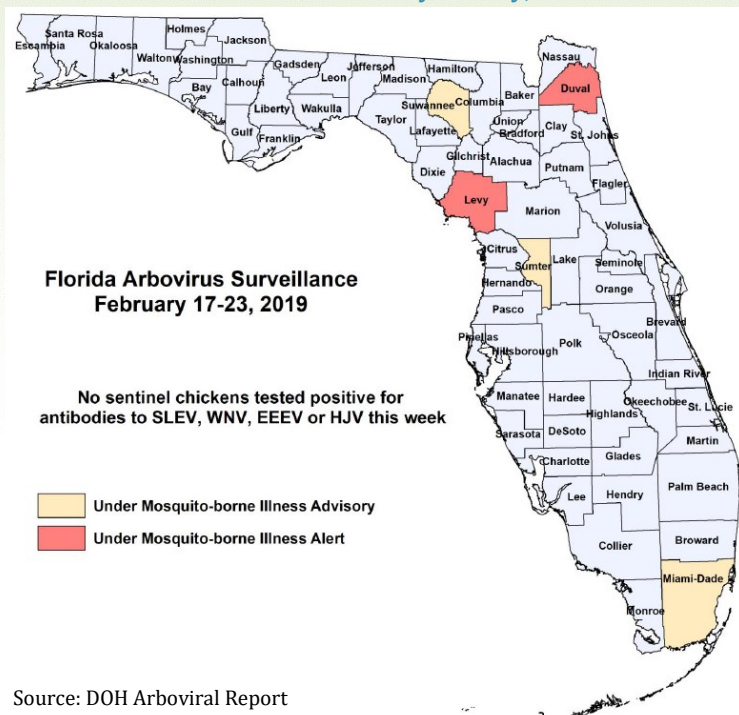
International

- There is a Level 2 (Alert) Travel Health Notice from the CDC for multiple countries in Africa, the Caribbean, Central and South America, India, Southeast Asia, and Pacific Islands related to Zika virus transmission and an association with poor pregnancy outcomes. Pregnant women should consider postponing travel to these areas.
- There is a Level 1 (Watch) Travel Health Notice in Senegal related to dengue virus transmission. There are also Level 2 Travel Health Notices for Brazil and Nigeria related to the transmission of yellow fever virus.

Florida

- Five cases of **dengue fever** were reported in week 8 in individuals with international travel. In 2019, 16 travel-associated cases have been reported.
- No cases of **chikungunya fever** were reported this week in persons that had international travel. In 2019, one travel-associated case has been reported.
- No human cases of **West Nile virus (WNV)** infection were reported in week 8. In 2019, nine sentinel chickens have been reported from five counties.
- No human cases of **Eastern equine encephalitis virus (EEEV)** infection were reported in week 8. In 2019, three sentinel chickens have been reported from one county.
- One case of **Zika fever** was reported in week 8 in a person that had international travel. In 2019, two travel-associated cases have been reported.
- Miami-Dade, Sumter, and Suwannee counties are currently under a **mosquito-borne illness advisory**. Duval and Levy counties are currently under a **mosquito-borne illness alert**. No other counties are currently under mosquito-borne illness advisory or alert.

Arbovirus Surveillance by County, Week 8



Source: DOH Arboviral 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 in 2019.
- One case of **Zika fever** has been reported in a person with international travel February 2019.
- **We are no longer offering free Zika testing at DOH-Orange for insured pregnant women. Testing for Zika may be ordered through commercial labs. Please notify DOH-Orange of symptomatic patients with a history of travel. Please refer to the following [letter](#) regarding updates on Zika virus testing at BPHL.**

Arboviral Resources:

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

[Orange County Mosquito Control](#)

Additional Resources:

[Florida Department of Health Zika](#)

[Florida Department of Health Mosquito-Borne and Other Insect-Borne Diseases Information](#)

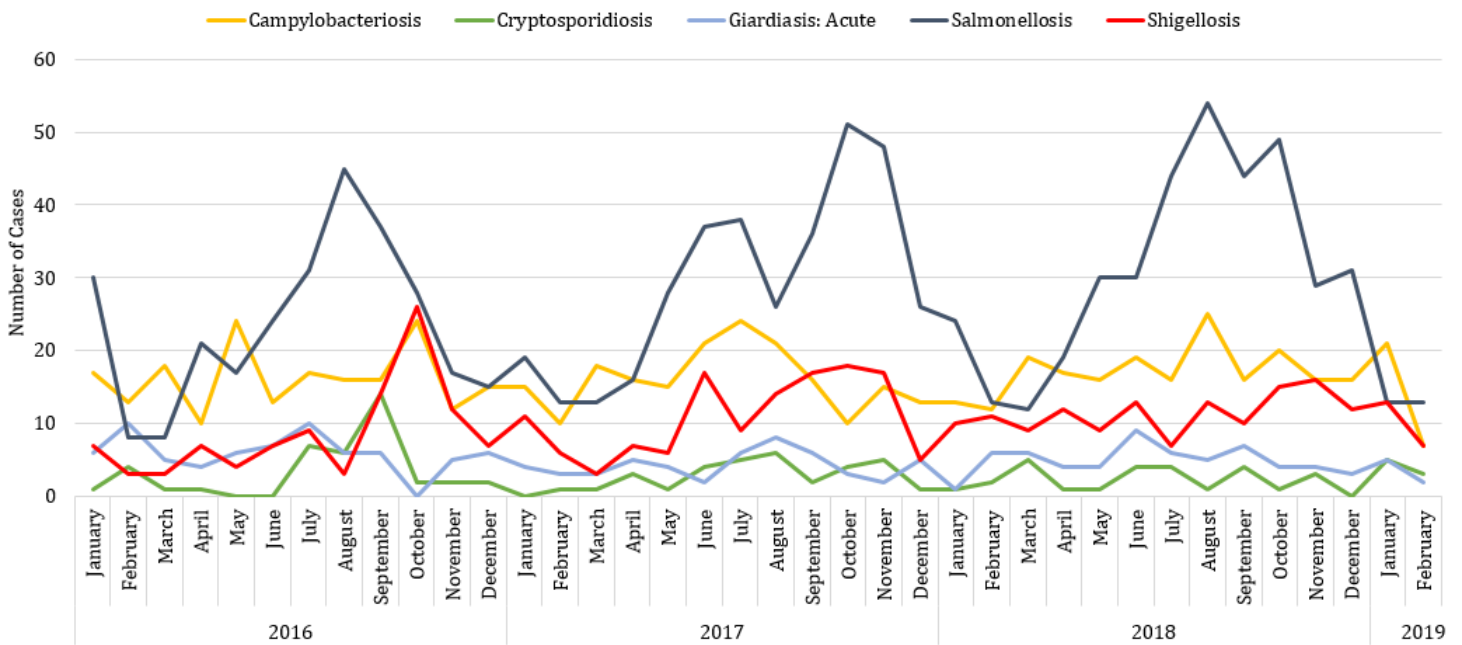
[Florida Department of Health Mosquito-Borne Disease Education Materials](#)

Gastrointestinal Illness Surveillance

Points of Interest:


- Enteric reportable disease cases were normal for the month of February.
- In February, 21 foodborne illness complaints were investigated by DOH Orange County from various sources such as direct reporting, online reporting, social media, Department of Health, and crowd-sourced web-based reporting.

Select Reportable Enteric Diseases in Orange County, Florida, January 2016 to February 2019




Source: ESSENCE


A Public Health Message for Healthier Swimming this Spring Break:




Stay out of the water if you have diarrhea.



Don't pee or poop in the water.



Shower before you get into the water.



Don't swallow the water.

Source: [CDC Healthy Swimming](https://www.cdc.gov/healthy-swimming/)

Gastrointestinal Illness Resources:

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

[CDC: Healthy Water](#)

[Florida Food and Waterborne Disease Program](#)

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

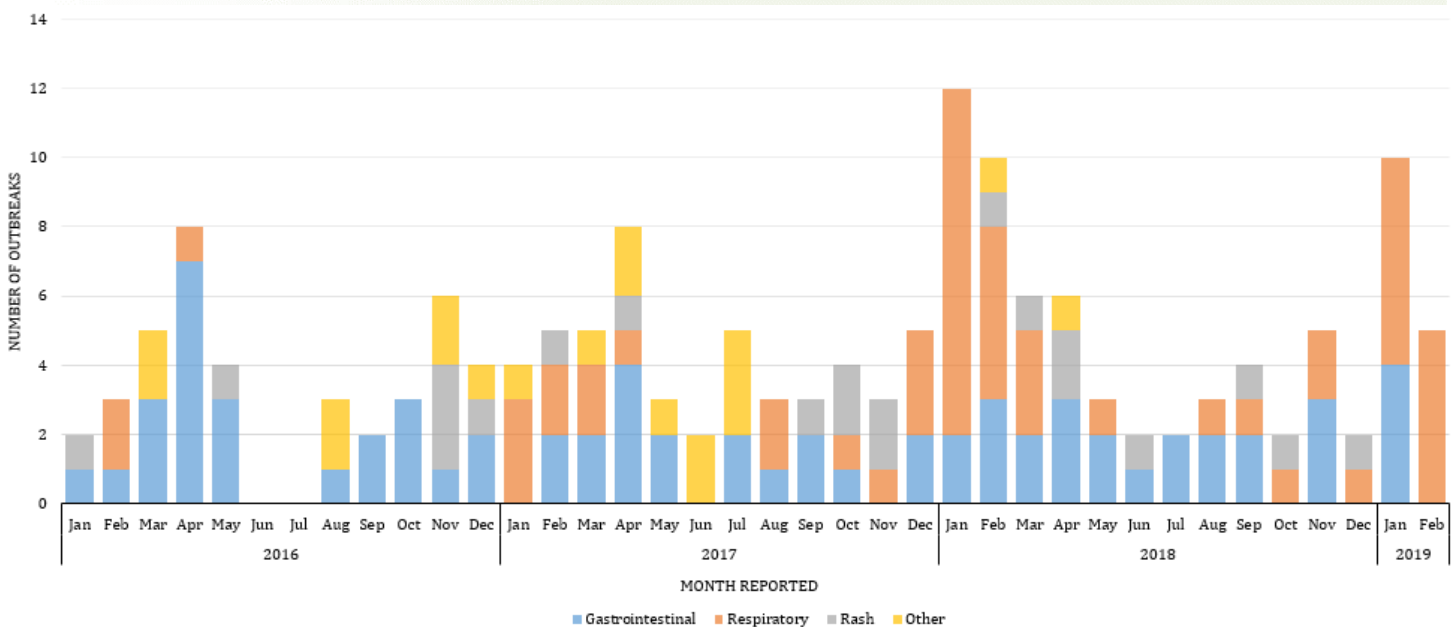
[Florida Department of Health - Norovirus Resources](#)

****ALL DATA ARE PRELIMINARY****

Outbreaks in Orange County

- In February 2019, the following outbreaks were investigated:
 - Three respiratory outbreaks in schools
 - Two respiratory outbreaks in long term care facilities

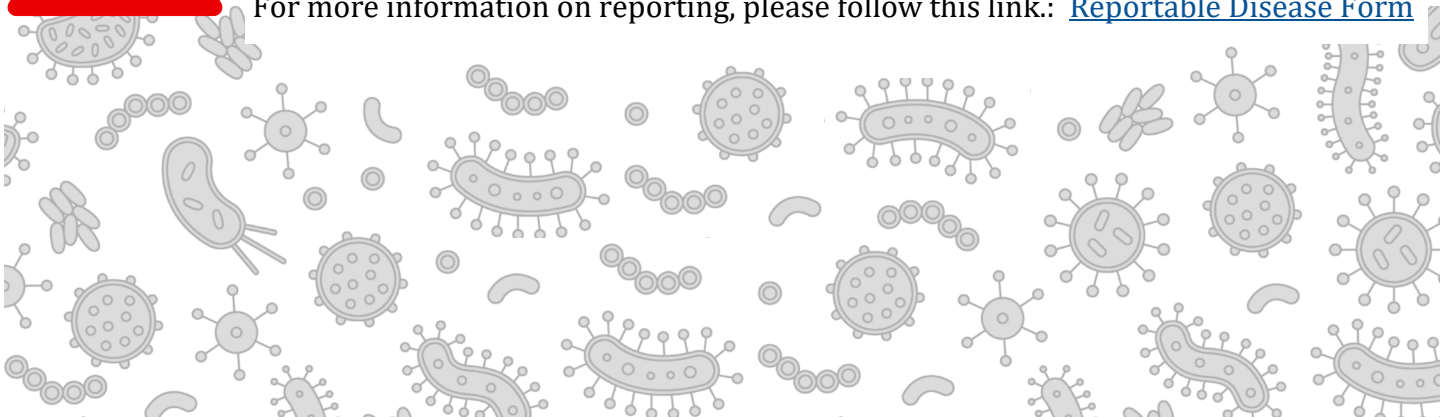
Number of Outbreaks Reported in Orange County, FL, by Month from 2016-2019



Source: DOH-Orange Epidemiology Program

Reminder: Outbreaks of any disease, any case, cluster of cases, or exposure to an infectious or non-infectious disease, condition, or agent found in the general community or any defined setting (e.g., hospital, school, or other institution) not listed here of urgent public health significance should be reported.

For more information on reporting, please follow this link: [Reportable Disease Form](#)



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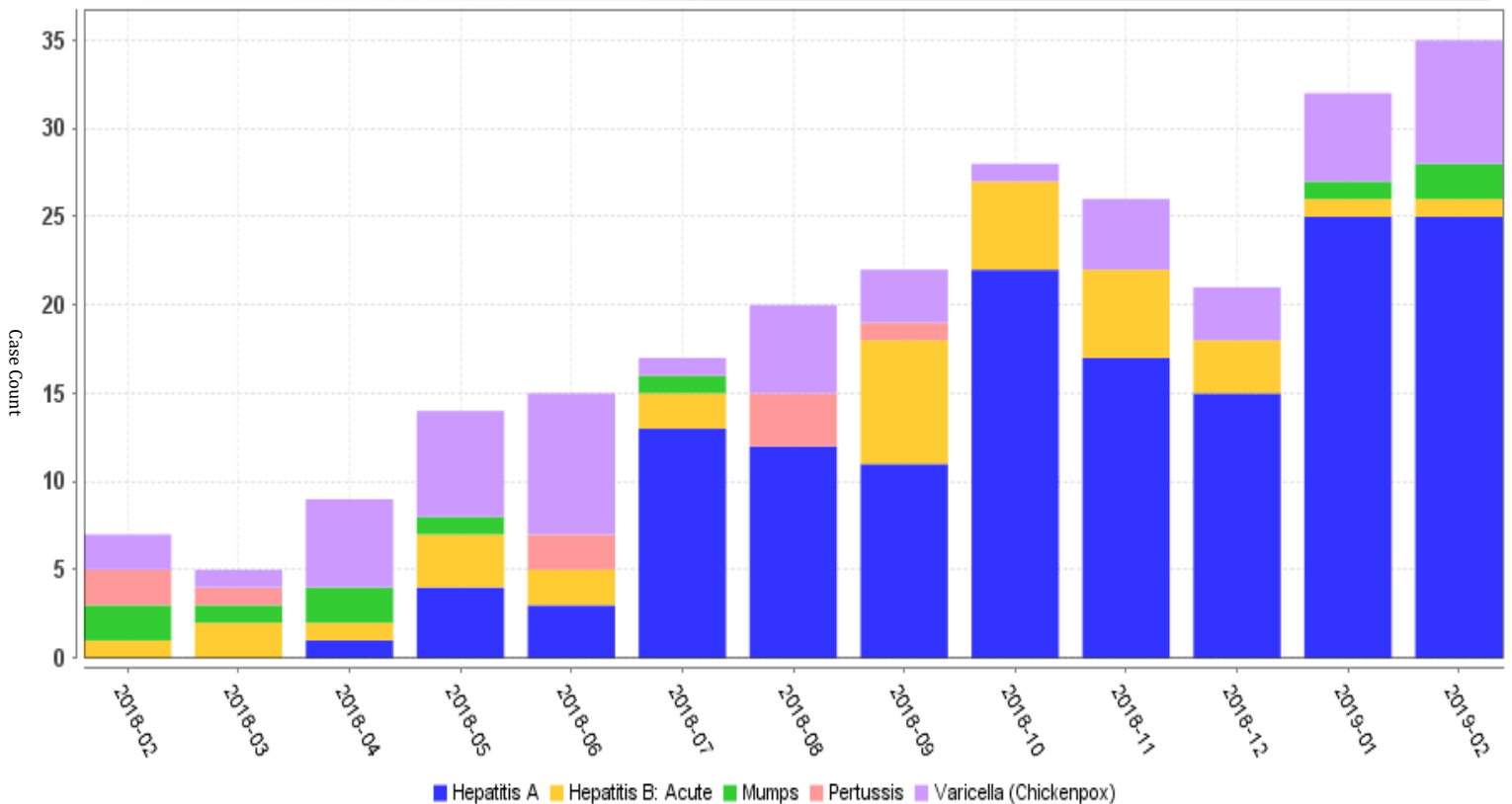
Food Recalls

Brand Name	Food/Food Product	Date of Recall	Health Risk	
TV Food LLC	Siluriformes Products	22-Feb-19	Without Benefit of Inspection	Details
Lean Culinary Services, LLC	Ready to Eat Chicken Salad Products	19-Feb-19	Listeria	Details
Richwell Group, Inc.	Siluriformes Products	5-Feb-19	Without Benefit of Import Inspection	Details
Oskri Organics Corporation	All Nut Butters	28-Jan-19	Listeria	Details
Thrive Market, Inc.	Thrive Market-branded nut butters	24-Jan-19	Listeria	Details
General Mills Recalls	Five Pound Bags of Gold Medal Unbleached Flour	23-Jan-19	Salmonella	Details
Satur Farms	Baby Spinach and Mesclun	23-Jan-19	Salmonella	Details

Source: U.S. Food & Drug Administration

Vaccine Preventable Disease Surveillance

Orange County top 5 vaccine preventable disease cases by illness to include confirmed, probable and suspect cases, counted monthly 2018-2019



Source: ESSENCE

Resources:

[U.S. Food and Drug Administration Recalls](#)

[Florida Department of Health- Vaccine Preventable Diseases](#)

****ALL DATA ARE PRELIMINARY****

Disease	Orange			All Counties		
	February 2019	Cumulative (YTD) 2019	Cumulative 2018	February 2019	Cumulative (YTD) 2019	Cumulative 2018
Amebic Infections (Acanthamoeba)	0	0	0	0	0	1
Amebic Infections (Balamuthia mandrillaris)	0	0	0	0	0	3
Anaplasmosis, HGA (Anaplasma phagocytophilum)	0	0	1	0	0	20
Arboviral Disease, Other	0	0	0	0	0	1
Arsenic Poisoning	0	0	0	1	3	16
Babesiosis	0	0	0	0	0	19
Botulism, Infant	0	0	0	0	0	1
Brucellosis	0	0	0	3	3	15
California Serogroup Virus Neuroinvasive Disease	0	0	0	0	0	3
Campylobacteriosis	7	33	205	318	825	4733
Carbon Monoxide Poisoning	10	10	7	26	63	238
Chikungunya Fever	0	0	1	0	1	5
Ciguatera Fish Poisoning	0	0	3	2	15	69
Creutzfeldt-Jakob Disease (CJD)	0	0	0	1	1	19
Cryptosporidiosis	3	8	27	36	107	586
Cyclosporiasis	0	1	8	0	1	76
Dengue Fever	0	0	4	5	22	84
Dengue Fever, Severe	0	0	0	0	0	4
Eastern Equine Encephalitis Neuroinvasive Disease	0	0	0	0	0	3
Ehrlichiosis, HME (Ehrlichia chaffeensis)	0	0	1	2	2	45
Escherichia coli, Shiga Toxin-Producing (STEC) Infection	1	8	63	46	120	860
Flavivirus Disease and Infection	0	0	0	0	1	6
Giardiasis, Acute	2	7	59	78	197	1100
Haemophilus influenzae Invasive Disease	0	2	22	23	63	311
Hansen's Disease (Leprosy)	0	0	1	2	3	20
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	1	8
Hepatitis A	22	58	93	231	520	555
Hepatitis B, Acute	1	3	36	58	136	771
Hepatitis B, Chronic	37	73	463	373	933	4906
Hepatitis B, Perinatal	0	0	0	0	0	2
Hepatitis B, Pregnant Women	8	10	28	33	65	391
Hepatitis C, Acute	0	0	19	14	30	406
Hepatitis C, Chronic	143	314	1760	1748	4043	21304
Hepatitis C, Perinatal	0	0	1	0	6	46
Hepatitis D	0	0	1	0	0	5
Hepatitis E	0	0	0	1	2	7
Influenza-Associated Pediatric Mortality	0	0	0	0	1	9
Lead Poisoning	1	5	132	118	286	4111
Legionellosis	0	3	48	40	119	656
Leptospirosis	0	1	0	0	2	7
Listeriosis	0	0	5	1	3	53
Lyme Disease	0	0	4	11	21	197
Malaria	0	0	3	1	4	59
Measles (Rubeola)	0	0	0	0	1	15
Meningitis, Bacterial or Mycotic	0	0	3	8	13	112
Meningococcal Disease	0	1	4	3	5	18
Mercury Poisoning	0	0	0	3	5	38
Mumps	2	3	7	15	25	178
Neurotoxic Shellfish Poisoning	0	0	0	0	0	1
Pertussis	0	0	10	22	62	327
Pesticide-Related Illness and Injury, Acute	0	1	4	2	5	51
Q Fever, Acute (Coxiella burnetii)	0	0	0	0	0	1
Q Fever, Chronic (Coxiella burnetii)	0	0	0	0	0	1
Rabies, Possible Exposure	7	22	68	261	707	4071
Ricin Toxin Poisoning	0	0	0	0	0	4
Rocky Mountain Spotted Fever and Spotted Fever Rickettsiosis	0	0	0	5	6	38
Salmonella Paratyphi Infection	1	1	0	1	1	0
Salmonella Typhi Infection	0	1	19	8	18	176
Salmonellosis	17	33	379	305	752	7262
Saxitoxin Poisoning (Paralytic Shellfish Poisoning)	0	0	0	0	0	4
Scombroid Poisoning	0	0	1	5	8	32
Shigellosis	8	21	137	124	309	1513
Staphylococcus aureus Infection, Intermediate Resistance to Vancomycin	0	0	0	0	0	2
Strep pneumoniae Invasive Disease, Drug-Resistant	4	8	21	29	62	205
Strep pneumoniae Invasive Disease, Drug-Susceptible	6	10	20	45	106	370
Tetanus	0	0	0	0	1	1
Tularemia (Francisella tularensis)	0	0	0	0	0	2
Varicella (Chickenpox)	3	12	42	71	196	867
Vibriosis (Grimontia hollisae)	0	0	0	1	1	7
Vibriosis (Other Vibrio Species)	0	0	1	6	18	64
Vibriosis (Vibrio alginolyticus)	0	0	2	1	1	70
Vibriosis (Vibrio cholerae Type Non-O1)	0	0	0	2	3	5
Vibriosis (Vibrio fluvialis)	0	0	0	0	0	12
Vibriosis (Vibrio mimicus)	0	0	0	1	2	0
Vibriosis (Vibrio parahaemolyticus)	0	0	1	2	6	43
Vibriosis (Vibrio vulnificus)	0	0	0	0	1	42
West Nile Virus Neuroinvasive Disease	0	0	0	0	1	34
West Nile Virus Non-Neuroinvasive Disease	0	0	0	0	0	11
Zika Virus Disease and Infection, Congenital	0	0	0	0	0	1
Zika Virus Disease and Infection, Non-Congenital	0	2	43	5	22	172
Total	283	651	3757	4097	9936	57481

Florida Department of Health in Orange County

Epidemiology Program
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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

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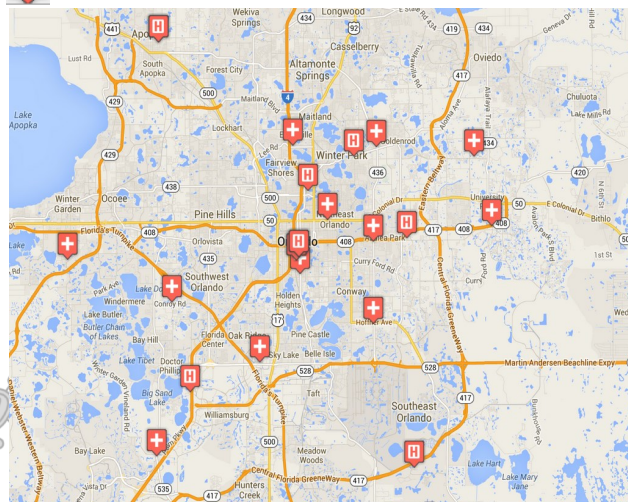
Epidemiologist

Michelle Persaud, MPH

Epidemiologist

 Hospital linked to ESSENCE

 AdventHealth Centra Care Clinic linked to ESSENCE



Florida Department of Health: ESSENCE

Since 2007, the Florida Department of Health has operated the Electronic Surveillance System for 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 via ESSENCE. Florida currently has 228 emergency departments and 35 urgent care centers reporting to ESSENCE-FL for a total of 263 facilities.

****ALL DATA ARE PRELIMINARY****

Mission:

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.



Ron DeSantis
Governor

Vision: To be the **Healthiest State** in the Nation

February 28, 2019

Health Care Provider Update

Continued Need for Proactive Vaccination of At-Risk Adults During Sustained Increases in Locally Acquired Hepatitis A Infections in Orange County

Over the past year, multiple counties in Florida have reported an increasing number of hepatitis A (HAV) infections. Since January 2018, 739 cases of HAV infection have been reported statewide. The counties most impacted are Pinellas, Orange, Pasco, Hillsborough, and Seminole. Over 90% of these cases do not have international travel exposures. Although infections have occurred across all demographic groups from what information that has been obtained, 65% of the cases are male, and 77% are white and non-Hispanic. The median age of cases is 38 years. Fifty-two percent of cases had a history of any drug use and 33% of cases reported injection drug use. Twenty-four percent have a history of chronic hepatitis B or C infections. Recent homelessness was documented for 15% of cases.

The Florida Department of Health recommends that health care providers offer hepatitis A vaccine to all persons at risk of hepatitis A infection who have not been vaccinated or do not know their vaccination status.

Hepatitis A is transmitted person-to-person through the fecal-oral route or percutaneously, which may include some types of sexual contact, poor hand hygiene after going to the bathroom or changing diapers, and/or sharing intravenous needles. Hepatitis A can also be spread through food or water contaminated with fecal matter. While most patients with hepatitis A will fully recover, >70% of recent cases in Florida have required hospitalization.

The Advisory Committee on Immunization Practices (ACIP) recommends hepatitis A vaccination for the following people:

- All children at age 1 year
- Travelers to countries where hepatitis A is common
- People who are experiencing homelessness
- Family and caregivers of adoptees from countries where hepatitis A is common
- Men who have sexual encounters with other men
- Users of recreational drugs, whether injected or not
- People with chronic or long-term liver disease, including hepatitis B or hepatitis C
- People with clotting-factor disorders
- People with direct contact with others who have hepatitis A
- Any person wishing to obtain immunity (protection)

Although routine vaccination of health care workers who do not fall under the above categories is not recommended (1), they may choose to seek vaccination to obtain immunity.

Persons who are uninsured and are in a high-risk group may contact the Florida Department of Health in Orange County, at 407-858-1420, to receive vaccination against hepatitis A at no cost.

Please immediately report all cases of hepatitis A to the Epidemiology Program at the county health department epidemiology program, at 407-858-1420, to ensure a prompt public health response to prevent disease among close contacts.

1. Centers for Disease Control and Prevention. Prevention of Hepatitis A Through Active or Passive Immunization: Recommendations of the Advisory Committee on Immunization Practices. *MMWR*. May 19, 2006 / 55(RR07);1-23.