



# Epidemiology Monthly Surveillance Report

Florida Department of Health in Orange County

## October 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 pursuant to Chapter 381, Florida Statutes.

Data is 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

### Epidemiology

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### Hepatitis Program

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### Environmental Health

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### HIV/AIDS Surveillance

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### Tuberculosis

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### Sexually Transmitted Diseases

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Fax: 407-845-6134

### Healthy Start

Ph: 407-858-1472

## Health Advisories, News, & Alerts:

- **Florida's Increase in Travel-Associated Dengue Fever Cases. Providers are reminded to report Dengue Fever cases upon suspicion. [Dengue Fever Information can be found here.](#)**
- [National Update on Measles Cases and Outbreaks — United States, January 1–October 1, 2019](#)
- [Update: Influenza Activity — United States and Worldwide, May 19–September 28, 2019, and Composition of the 2020 Southern Hemisphere Influenza Vaccine](#)

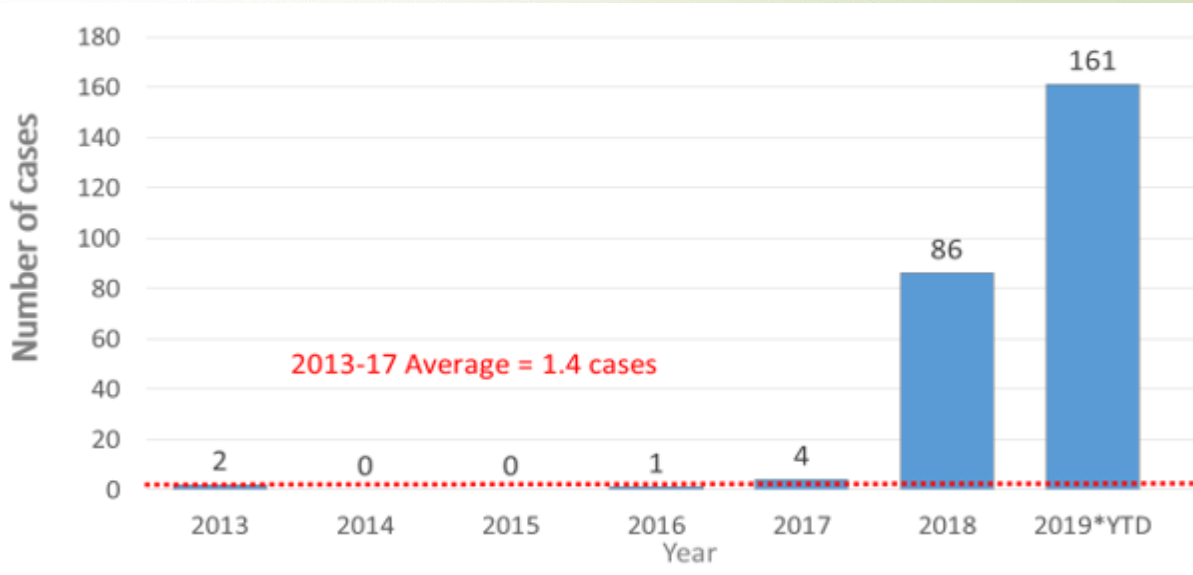
**CDC Travel Notices:** Travel notices are designed to inform travelers and clinicians about current health issues related to specific international destinations

- [Polio in the Philippines](#)
- [Ebola in Democratic Republic of the Congo](#)
- [Dengue in the Americas](#)
- [Dengue in Mediterranean Region](#)
- [Dengue in Asia and the Pacific Islands](#)



# Orange County Hepatitis A Update

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



Deaths: **3 (n=233)**

Hospitalized: 84% (n=242)

Age range: 2-81 years

Median = 37 years

Sex: 69% male (n=244)

Non-Hispanic: 83% (n=244)

White: 75% (n=244)

Secondary cases (contact of previously known case) = 24

Risk factors (where data are known):

DU (IV and non-IV) = 57% (n=223)

Hep B/C co-infected = 39% (n=235)

Homeless = 30% (n=211)

Incarcerated = 17% (n=146)

MSM = 11% (n=211)

Healthcare workers: n=5

Childcare/school age children: n=2

Food service workers/facilities: n=8

## Florida Hepatitis A Update

[Florida Department of Health Hepatitis A Surveillance Report](#)

### 2018-To-Date Key Points

3,510 cases

23% cases linked to other cases

30-39 year olds had highest incidence

24% co-infected with hepatitis B or C

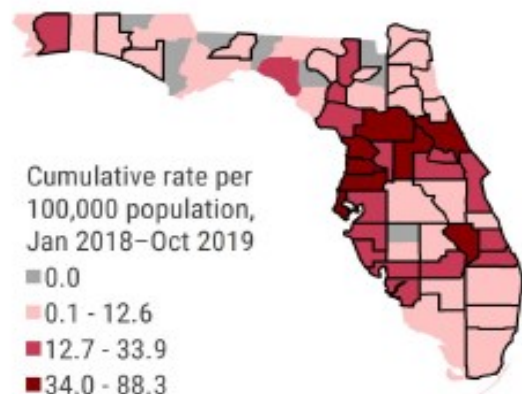
### Top 5 Impacted Counties in Florida

TRAVEL AND NON-TRAVEL ASSOCIATED CONFIRMED, PROBABLE, SUSPECT CASES OF HEPATITIS A WITH REPORT DATE 1/1/2018 to 10/28/2019

County	2018	2019 *YTD	TOTAL
Pinellas	113	374	487
Pasco	66	398	464
Orange	93	176	269
Volusia	5	262	267
Hillsborough	84	151	235
<b>TOTAL</b>	<b>361</b>	<b>1361</b>	<b>1722</b>

Source: Florida Merlin

272 Hepatitis A Cases in October were reported in 42 counties, outlined in black



Source: Hepatitis A Surveillance Report

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



# Influenza Surveillance

(MMWR Week 43: October 20– October 26, 2019)  
Influenza Season 2019-2020

## Statewide Activity

Geographic Spread:  
**Sporadic**



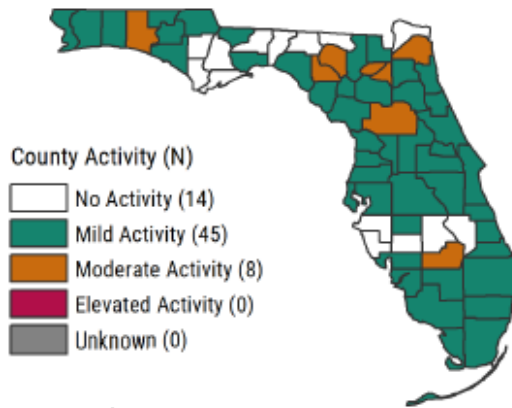
Predominant Strain:  
**B Victoria lineage**



ILI Activity Trend:  
**Increasing**



### County Influenza Activity, Week 43



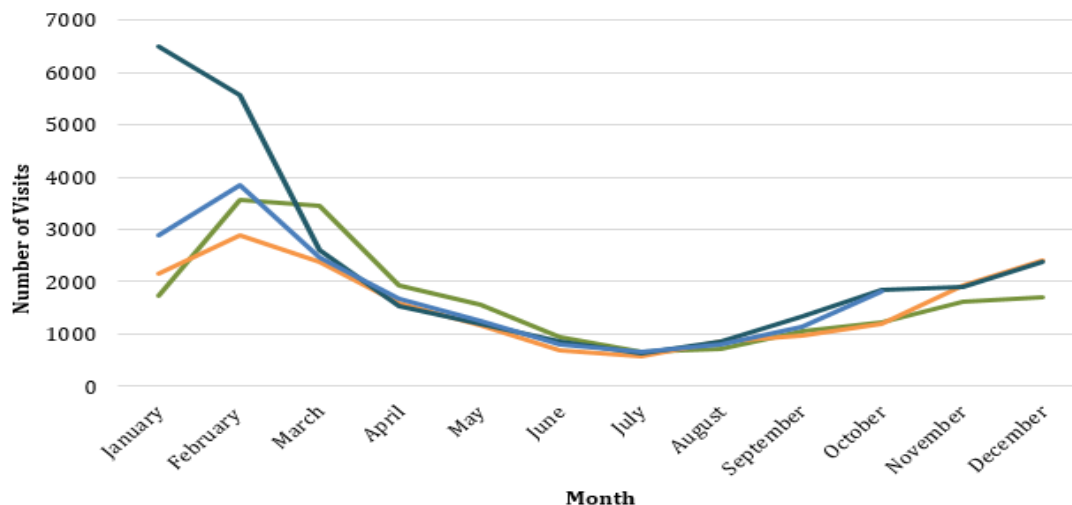
Source: DOH Flu Review

- In week 43, ILI activity increased but did not exceed expected levels for the seasonal trend. Influenza activity remained low overall in week 43.
- Four new respiratory disease outbreaks were reported in week 43.
- No influenza-associated pediatric deaths were reported in week 43.
- During the last four weeks, influenza B Victoria lineage was the most common subtype identified at the Bureau of Public Health Laboratories.
- The percent of specimens testing positive for rhinovirus remained higher than other respiratory viruses under surveillance, including influenza.

## Orange County Activity

One influenza outbreak was reported in Orange County for the month of October.

### ILI Emergency Department Visits in Orange County, 2016 to 2019



Source: ESSENCE

2016 2017 2018 2019

Flu Level:

**Mild**



Flu Trend:

**Increasing**



#### 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](#)

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# Arboviral Surveillance

(MMWR Week 43: October 20-26, 2019)

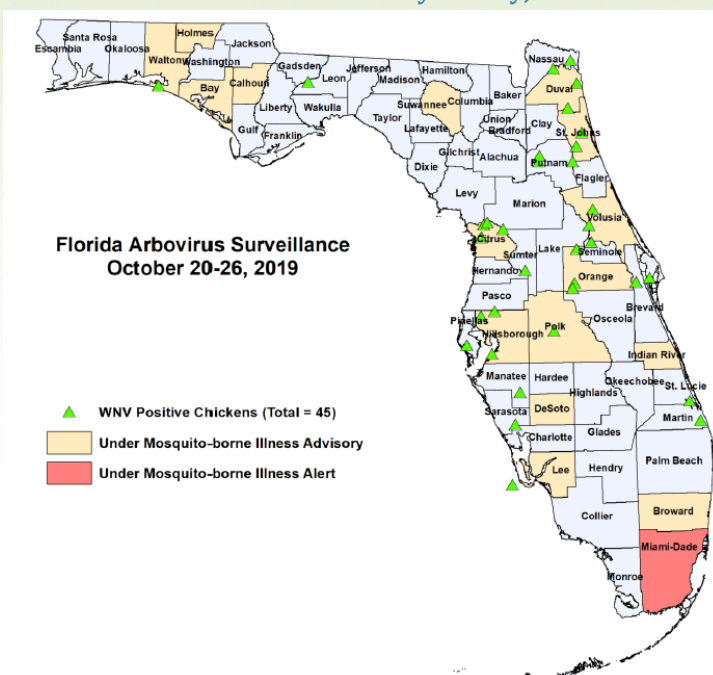
## International

- There is a Level 2 Travel Health Notice for Nigeria related to the transmission of yellow fever virus.
- There are also Level 1 Travel Health Notices for Central and South America, Mexico, the Caribbean, Asia, the Pacific Islands, Africa, the Middle East, France, and Spain related to the transmission of dengue virus, for Burundi related to malaria transmission, and for Ethiopia related to chikungunya transmission. Additional information on travel health notices can be found [here](#).

## Florida

- Twenty-five cases of **dengue fever** were reported in persons with international travel in week 43. In 2019, 12 locally acquired cases and 314 travel-associated cases and have been reported.
- No cases of **chikungunya fever** were reported in week 43 in persons with international travel. In 2019, five travel-associated cases and no locally acquired cases have been reported.
- No human cases of **West Nile virus (WNV)** were reported in week 43. In 2019, positive samples from one human, one blood donor, eight horses, one eagle, and 525 sentinel chickens have been reported from 30 counties.
- No human cases of **Eastern equine encephalitis virus (EEEV)** infection were reported in week 43. In 2019, positive samples from 28 horses, one emu, one eagle, and 110 sentinel chickens have been reported from 31 counties.
- No cases of **Zika fever** were reported in week 43 in persons who had international travel. In 2019, 36 travel-associated cases and no locally acquired cases have been reported.
- Bay, Broward, Calhoun, Citrus, DeSoto, Duval, Hillsborough, Holmes, Indian River, Lee, Orange, Polk, St. Johns, Suwannee, Volusia, and Walton counties are currently under a **mosquito-borne illness advisory**. Miami-Dade County is currently under a **mosquito-borne illness alert**.

### Arbovirus Surveillance by County, Week 43



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.
- No new cases of **Zika fever** were reported in October 2019. As of week 43, there have been four cases in persons with international travel.
- **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.**

### 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](#)

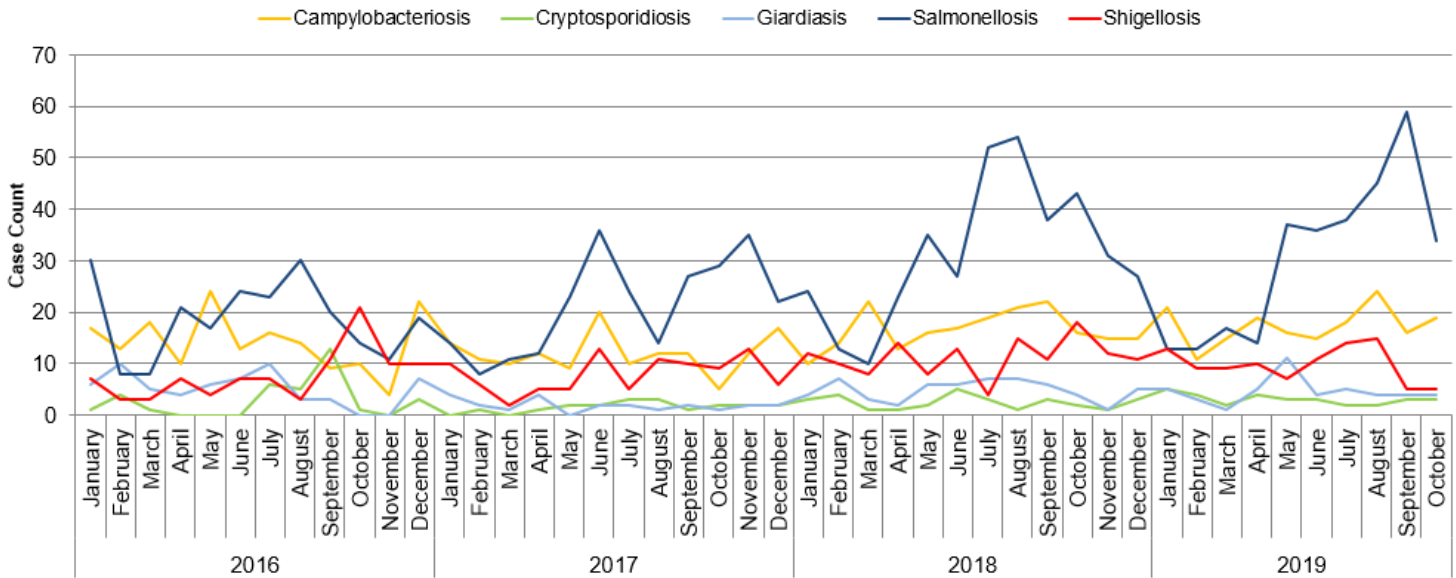
[Florida Department of Health Mosquito-Borne Disease Education Materials](#)



# Gastrointestinal Illness Surveillance

- The total count for enteric reportable disease cases were lower compared to September and were within normal seasonal trend.
- In October, 14 foodborne illness complaints were investigated by DOH-Orange 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 October 2019



Source: ESSENCE

### Fruit and Vegetable Safety at Home

**Get fruits & vegetables home and in the fridge in 2 hours or less**

**Wash**

- Wash your hands before and after preparing fruits and vegetables.
- Wash or scrub all fruits and vegetables under running water before eating, cutting, or cooking.
- Fruits and vegetables labeled “prewashed” do not need to be washed again at home.

**Keep Cold**

- Refrigerate cut, peeled, or cooked fruits and vegetables as soon as possible, or within 2 hours.
- Use a refrigerator thermometer to make sure the temperature stays at 40°F or below.

**Separate**

- Store fruits and vegetables away from, and not next to or below, raw meat, poultry, and seafood. These items can drip juices that may have germs.
- Use a separate cutting board for fruits and vegetables that is never used for cutting or preparing raw meats, poultry, or seafood.
- Wash cutting boards, counter tops, and utensils with hot, soapy water before and after preparing fruits and vegetables.

Source: [CDC Fruit and Vegetable Safety at Home](https://www.cdc.gov/foodsafety/vegetable-safety-at-home)

### Gastrointestinal Illness Resources:

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

[CDC: Healthy Water](#)

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

[Florida Food and Waterborne Disease Program](#)

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

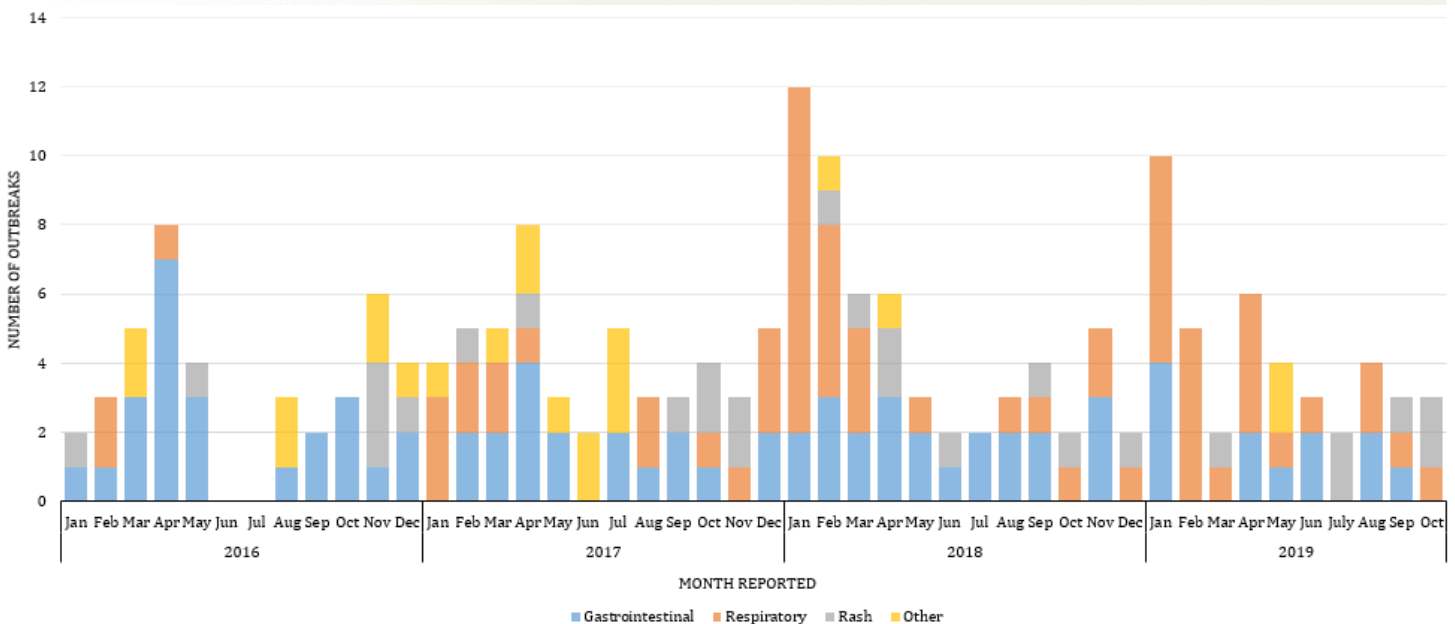
**\*\*ALL DATA ARE PRELIMINARY\*\***

# Outbreaks in Orange County

In October 2019, the following outbreaks were investigated:

- One rash illness outbreak in a daycare
- One respiratory illness outbreak in a school
- One rash illness outbreak in a school

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

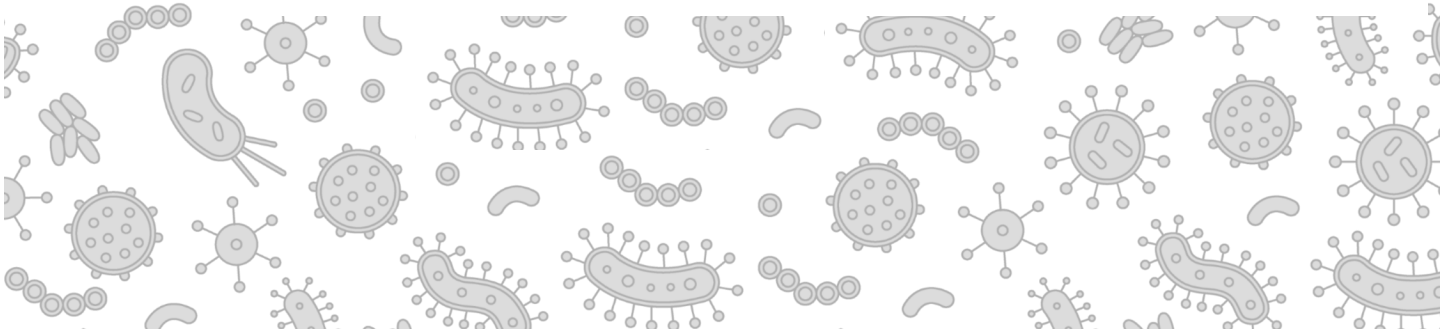


Source: DOH-Orange Epidemiology Program

**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 of urgent public health significance should be reported.



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



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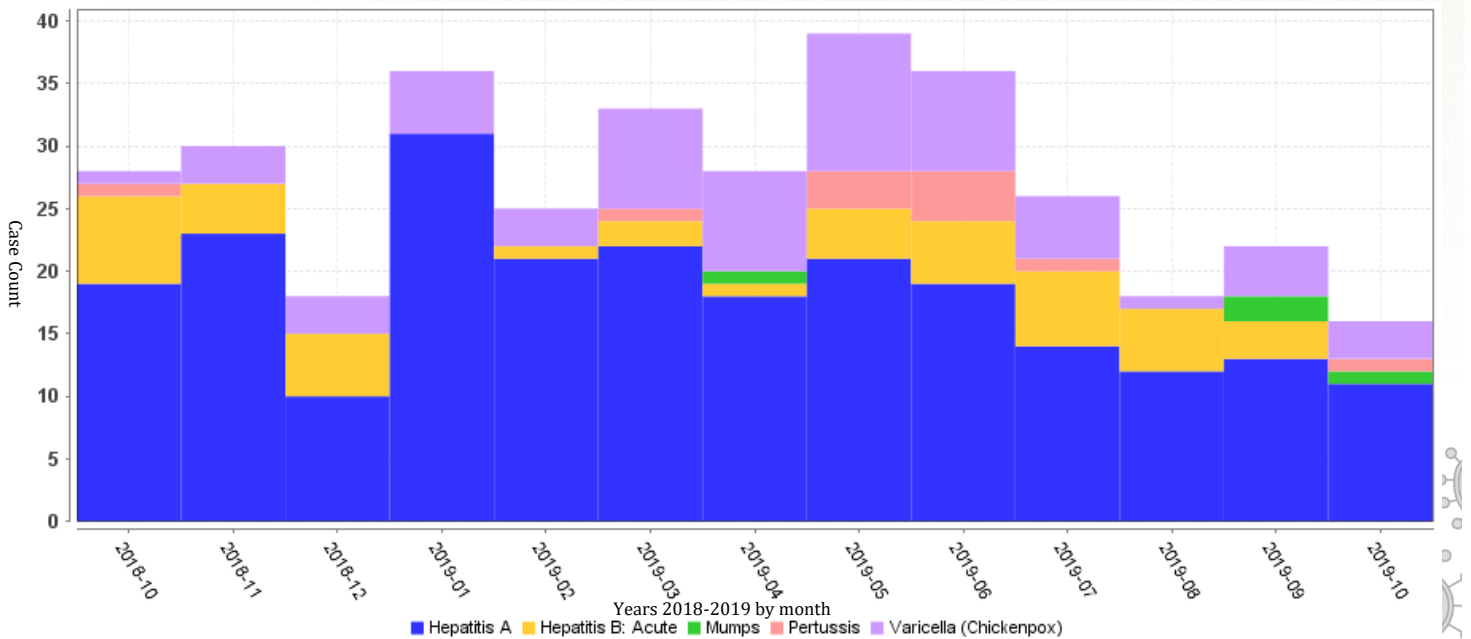
# Food Recalls

Brand Name	Food/Food Product	Date of Recall	Health Risk	
Season's Choice, Raley's	Frozen raspberries, frozen berry mixes	31-Oct-19	Hepatitis A	<a href="#">Details</a>
Tuscan Sun	Chicken salad sandwiches	9-Oct-19	<i>Listeria monocytogenes</i>	<a href="#">Details</a>
Premo and Fresh Grab	Ham and cheese wedge sandwiches	8-Oct-19	<i>Listeria monocytogenes</i>	<a href="#">Details</a>
Cornerstone	Frozen Blackberries	4-Oct-19	Norovirus	<a href="#">Details</a>
Lunch Box; Fresh and Local	Chicken salad sandwiches	4-Oct-19	<i>Listeria monocytogenes</i>	<a href="#">Details</a>
Robin Hood Flour	All-Purpose Flour	4-Oct-19	<i>E.coli</i> O26	<a href="#">Details</a>
King Arthur Flour	Unbleached All-Purpose Flour	3-Oct-19	<i>E.coli</i> O26	<a href="#">Details</a>
Mical Seafood	Yellowfin Tuna	2-Oct-19	Excessive levels of histamine	<a href="#">Details</a>
Coborn's	Chicken containing products	2-Oct-19	<i>Listeria monocytogenes</i>	<a href="#">Details</a>
Deli Express, Market Sandwich, Market Artisan	Sandwiches	2-Oct-19	<i>Listeria monocytogenes</i>	<a href="#">Details</a>
SuperMom's, Hometown Kitchen	Chicken Salad Sandwiches	1-Oct-19	<i>Listeria monocytogenes</i>	<a href="#">Details</a>

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, October 2018-2019



## Resources:

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

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

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



Disease	Orange: October	Orange: Jan- Oct		All Counties: October	All Counties: Jan- Oct	
	2019	2019	2018	2019	2019	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	1	1	0	20	20
Arboviral Disease: Other	0	0	0	0	0	1
Arsenic Poisoning	0	0	0	0	11	13
Botulism: Foodborne	0	0	0	0	2	0
Botulism: Infant	0	0	0	0	0	1
Brucellosis	0	1	0	0	8	13
California Serogroup Virus Neuroinvasive Disease	0	0	0	0	0	3
Campylobacteriosis	22	190	183	323	4016	4158
Carbon Monoxide Poisoning	0	27	6	19	191	218
Chikungunya Fever	0	1	1	8	14	3
Ciguatera Fish Poisoning	0	1	3	3	72	68
Creutzfeldt-Jakob Disease (CJD)	0	0	0	3	23	21
Cryptosporidiosis	6	34	25	62	579	513
Cyclosporiasis	0	15	8	3	547	81
Dengue Fever	2	15	2	63	367	46
Dengue Fever: Severe	0	0	0	2	11	3
Eastern Equine Encephalitis Neuroinvasive Disease	0	0	0	0	0	3
Ehrlichiosis (Ehrlichia ewingii)	0	0	0	0	1	0
Ehrlichiosis - HME (Ehrlichia chaffeensis)	0	0	1	1	36	40
Ehrlichiosis/Anaplasmosis: Undetermined	0	0	0	0	0	1
Escherichia coli: Shiga Toxin-Producing (STEC) Infection	1	68	59	69	720	789
Flavivirus Disease and Infection	0	0	0	1	3	3
Giardiasis: Acute	4	46	52	109	965	962
Haemophilus influenzae Invasive Disease	3	15	20	31	340	278
Hansen's Disease (Leprosy)	0	0	0	2	21	18
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	2	9
Hepatitis A	11	187	65	249	3052	350
Hepatitis B: Acute	2	29	30	88	774	681
Hepatitis B: Chronic	39	309	403	494	4308	4129
Hepatitis B: Perinatal	0	0	0	0	1	2
Hepatitis B: Surface Antigen in Pregnant Women	5	50	25	18	330	343
Hepatitis C: Acute	2	36	25	94	906	452
Hepatitis C: Chronic	132	1349	1421	2076	17908	18420
Hepatitis C: Perinatal	0	0	1	1	27	40
Hepatitis D	0	0	1	0	2	4
Hepatitis E	0	0	0	0	6	5
Herpes B Virus: Possible Exposure	0	0	1	0	9	15
Influenza-Associated Pediatric Mortality	0	0	0	0	4	8
Lead Poisoning	3	75	114	157	1656	3579
Legionellosis	0	40	43	58	668	603
Leptospirosis	0	3	0	0	7	7
Listeriosis	0	1	4	12	42	51
Lyme Disease	0	6	5	13	166	174



Disease	Orange: October	Orange: Jan- Oct		All Counties: October	All Counties: Jan- Oct	
	2019	2019	2018	2019	2019	2018
Malaria	0	7	3	5	63	57
Measles (Rubeola)	0	1	0	1	5	15
Meningitis: Bacterial or Mycotic	0	0	3	6	79	93
Meningococcal Disease	0	1	3	1	18	22
Mercury Poisoning	0	0	0	1	15	37
Mumps	3	6	9	11	198	159
Neurotoxic Shellfish Poisoning	0	0	0	0	0	1
Paratyphoid Fever (Salmonella Serotypes Paratyphi A B C)	0	3	0	1	22	1
Pertussis	1	11	11	21	334	290
Pesticide-Related Illness and Injury: Acute	0	1	4	0	23	48
Psittacosis (Ornithosis)	0	0	0	1	1	0
Q Fever: Acute (Coxiella burnetii)	0	2	0	0	3	1
Q Fever: Chronic (Coxiella burnetii)	0	0	0	0	1	0
Rabies: Possible Exposure	7	91	60	297	3716	3539
Ricin Toxin Poisoning	0	0	0	0	2	4
Rocky Mountain Spotted Fever and Spotted Fever Rickettsiosis	0	2	0	7	48	26
Salmonellosis	47	338	345	771	6212	6170
Saxitoxin Poisoning (Paralytic Shellfish Poisoning)	0	0	0	0	0	4
Scombroid Poisoning	0	2	0	4	54	25
Severe Vaping-Associated Pulmonary Illness (VAPI)	2	8	0	33	97	0
Shigellosis	10	113	109	90	1244	1255
Staphylococcus aureus Infection: Intermediate Resistance to Vancomycin (VISA)	0	0	0	0	0	2
Strep pneumoniae Invasive Disease: Drug-Resistant	0	18	21	18	272	216
Strep pneumoniae Invasive Disease: Drug-Susceptible	0	24	21	50	463	340
Tetanus	0	0	0	0	4	0
Tularemia (Francisella tularensis)	0	0	0	0	0	3
Typhoid Fever (Salmonella Serotype Typhi)	1	13	13	7	143	137
Varicella (Chickenpox)	3	69	37	77	890	692
Vibriosis (Grimontia hollisae)	0	0	0	1	3	5
Vibriosis (Other Vibrio Species)	1	1	1	6	78	56
Vibriosis (Vibrio alginolyticus)	0	2	3	1	62	67
Vibriosis (Vibrio cholerae Type Non-O1)	0	1	0	1	14	4
Vibriosis (Vibrio fluvialis)	0	1	0	2	13	11
Vibriosis (Vibrio mimicus)	0	0	0	0	3	0
Vibriosis (Vibrio parahaemolyticus)	0	2	1	5	45	46
Vibriosis (Vibrio vulnificus)	0	0	0	3	29	41
West Nile Virus Neuroinvasive Disease	0	0	0	2	5	25
West Nile Virus Non-Neuroinvasive Disease	0	0	0	2	3	9
Zika Virus Disease and Infection- Congenital	0	0	1	0	1	3
Zika Virus Disease and Infection- Non-Congenital	0	4	42	9	78	187
Total	307	3220	3186	5393	52056	49723



# Florida Department of Health in Orange County

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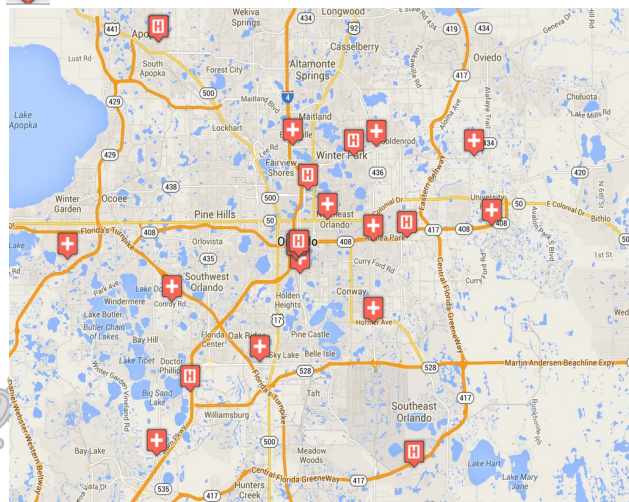
## Editor:

**Ellis Perez, MPH**

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 Hospital linked to ESSENCE

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## 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\*\***