



# Epidemiology Monthly Surveillance Report

Florida Department of Health in Orange County

## September 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.

## Health Advisories, News, & Alerts:

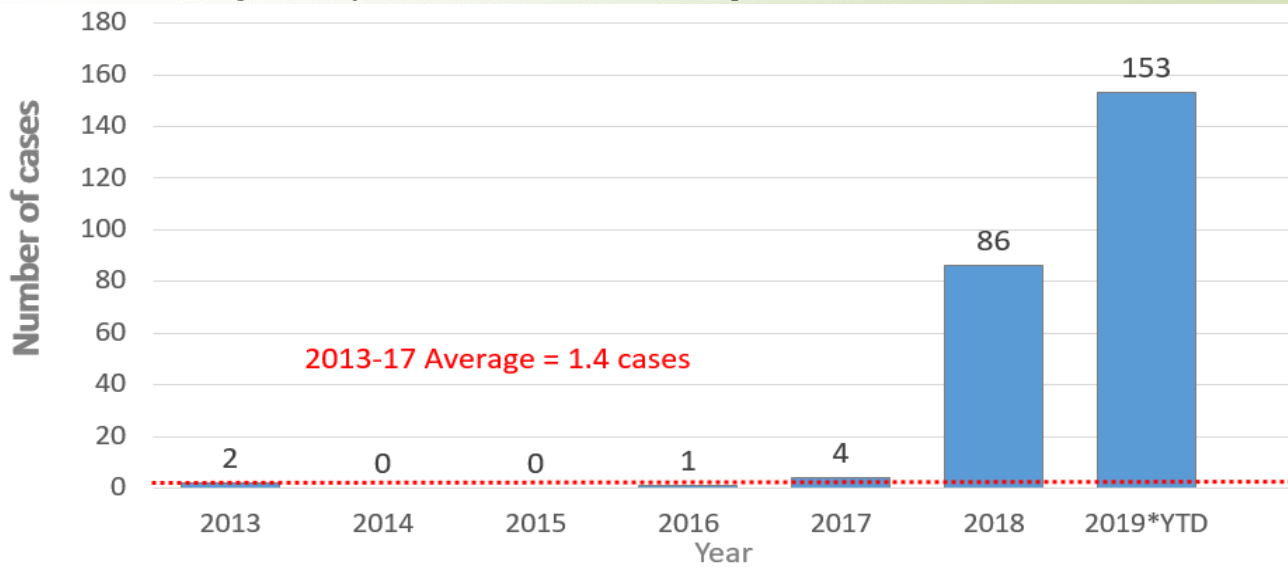
- [\*\*Florida Surgeon General Scott A. Rivkees Issues Public Health Emergency in Response to Hepatitis A Outbreak. Click here for Health Care Provider Information\*\*](#)
- [Progress Toward Poliovirus Containment Implementation — Worldwide, 2018–2019](#)
- [Impact of Public Health Interventions on Drinking Water–Associated Outbreaks of Hepatitis A — United States, 1971–2017](#)
- [Severe Pulmonary Disease Associated with Electronic-Cigarette–Product Use — Interim Guidance](#)
- [Notes from the Field: Interventions to Reduce Measles Virus Exposures in Outpatient Health Care Facilities — New York City, 2018](#)

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

- [XDR Typhoid Fever in Pakistan](#)
- [Dengue in Africa and the Middle East](#)

# Orange County Hepatitis A Update

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



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

Hospitalized: 84% (n=235)

Age range: 2-81 years

Median = 37.5 years

Sex: 68% male (n=235)

Non-Hispanic: 85% (n=234)

White: 76% (n=233)

Secondary cases (contact of previously known case) = 23

Risk factors (where data are known):

DU (IV and non-IV) = 57% (n=215)

Hep B/C co-infected = 39% (n=227)

Homeless = 31% (n=203)

Incarcerated = 18% (n=138)

MSM = 20% (n=204)

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

3,235 cases

22% cases linked to other cases

30-39 year olds had highest incidence

24% co-infected with hepatitis B or C

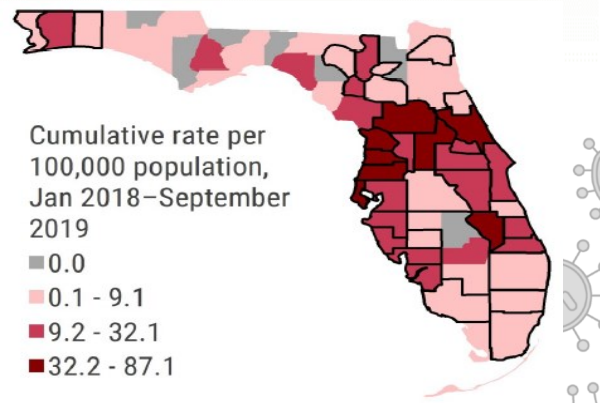
### Top 5 Impacted Counties in Florida

TRAVEL AND NON-TRAVEL ASSOCIATED CONFIRMED, PROBABLE, SUSPECT CASES OF HEPATITIS A WITH REPORT DATE 1/1/2018 to 9/30/2019

County	2018	2019 *YTD	TOTAL
Pinellas	113	368	481
Pasco	66	394	460
Orange	93	166	259
Volusia	5	242	247
Hillsborough	84	144	288
<b>TOTAL</b>	<b>361</b>	<b>1314</b>	<b>1675</b>

Source: Florida Merlin

270 Hepatitis A Cases in September were reported in 36 counties, outlined in black



Source: Hepatitis A Surveillance Report

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

# Influenza Surveillance

(MMWR Week 40: September 29- October 5, 2019)  
Influenza Season 2019-2020

## Statewide Activity

Geographic Spread:  
**Sporadic**



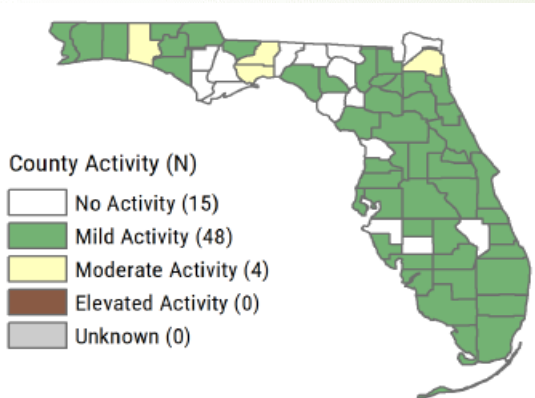
Predominant Strain:  
**A (H3)**



ILI Activity Trend:  
**Increasing**



### County Influenza Activity, Week 40



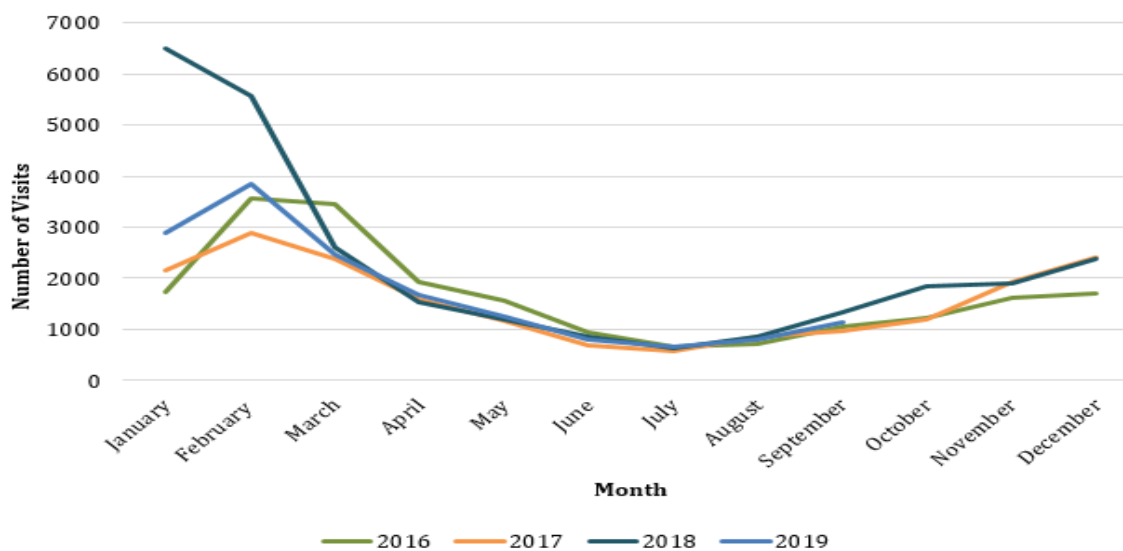
Source: DOH Flu Review

- In week 40, influenza and ILI activity remained at low levels in Florida. Influenza and ILI activity are expected to increase in the coming weeks as the season progresses.
- Seven new respiratory disease outbreaks were reported in week 40.
- No new influenza-associated pediatric deaths were reported in week 40.
- Since March 2019, the percent of specimens testing positive for rhinovirus remained higher than other respiratory viruses under surveillance, including influenza.
- During the last four weeks, influenza A (H3), influenza A 2009 (H1N1), and influenza B Victoria lineage viruses were identified as circulating in FL. It is still too early to say what strain will predominate during 2019-2020 influenza season.

## Orange County Activity

One influenza or influenza-like illness outbreak was reported in Orange County for the month of September.

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



Flu Level:

**Mild**



Flu Trend:

**Stable**



Source: ESSENCE

#### 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 39: September 22-28, 2019)

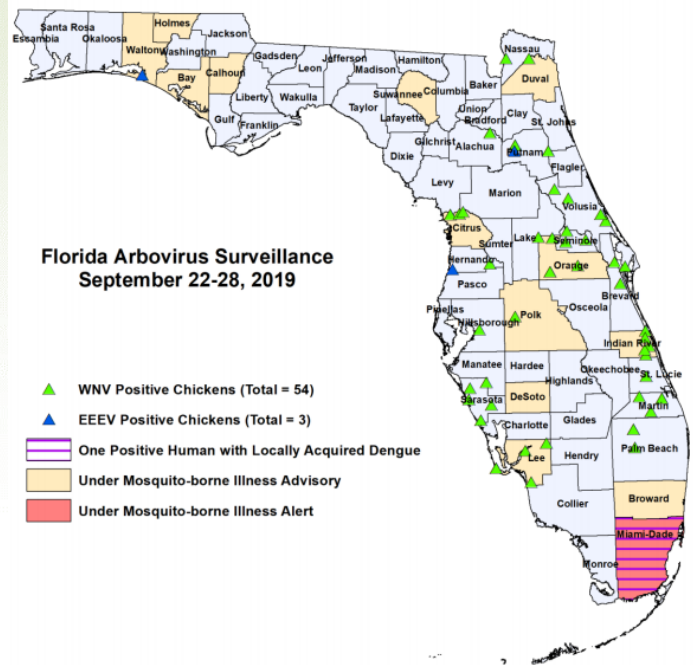
## International

- 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, and the Middle East related to the transmission of dengue virus and for Burundi related to Malaria transmission. Additional information on travel health notices can be found [here](#).

## Florida

- Twenty-two cases of **dengue fever** were reported in persons with international travel and one case of locally acquired dengue in week 39. In 2019, six locally acquired cases and 235 travel-associated cases and have been reported.
- No cases of **chikungunya fever** were reported in week 39 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 39. In 2019, positive samples from one human, one blood donor, four horses, one eagle, and 323 sentinel chickens have been reported from 29 counties.
- No human cases of **Eastern equine encephalitis virus (EEEV)** infection were reported in week 39. In 2019, positive samples from 26 horses, one emu, one eagle, and 106 sentinel chickens have been reported from 30 counties.
- One case of **Zika fever** was reported in week 39 in a person who had international travel. In 2019, 34 travel-associated cases and no locally acquired cases have been reported.
- Bay, Broward, Calhoun, Citrus, DeSoto, Duval, Holmes, Indian River, Lee, Orange, Polk, Suwannee, 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 39



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 September 2019. As of week 39, 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](#)

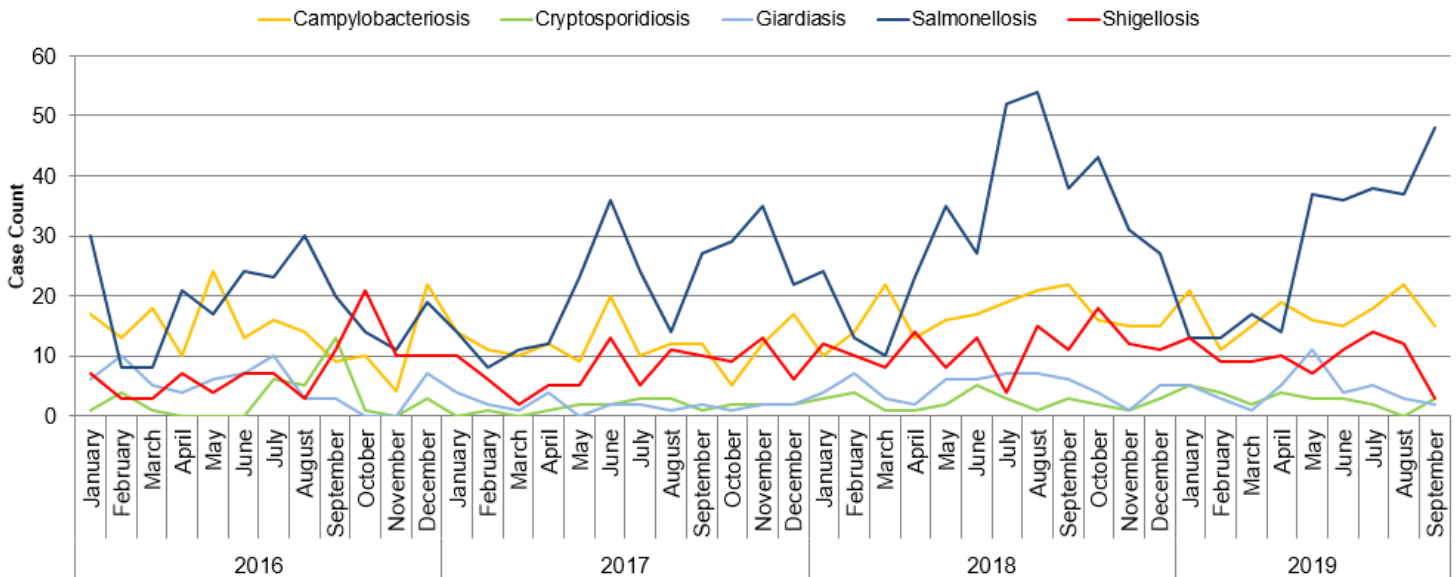
[Florida Department of Health Mosquito-Borne and Other Insect-Borne Diseases Information](#)

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

# Gastrointestinal Illness Surveillance

- The total count for enteric reportable disease cases were slightly higher compared to August, but was within normal seasonal trend.
- In September, 10 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 September 2019





Source: ESSENCE

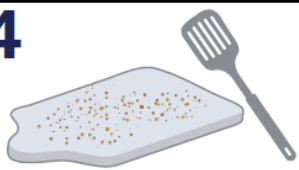
## The Raw Story: Some frozen chicken entrees look like they're cooked- but they're not!


Handle raw frozen chicken – including frozen meals, entrees, and appetizers – the same way you handle raw fresh chicken to prevent foodborne illness:

- 

**1** Read the package carefully.
- 

**2** Follow cooking instructions exactly as written.
- 

**3** Use a food thermometer to check doneness (165°F for chicken).
- 

**4** Clean and disinfect any surfaces and utensils that touched the raw product.
- 

**5** Wash your hands with soap and water after handling the raw product.

Source: [CDC Food Safety- Frozen Chicken Entrees](#)

### 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](#)

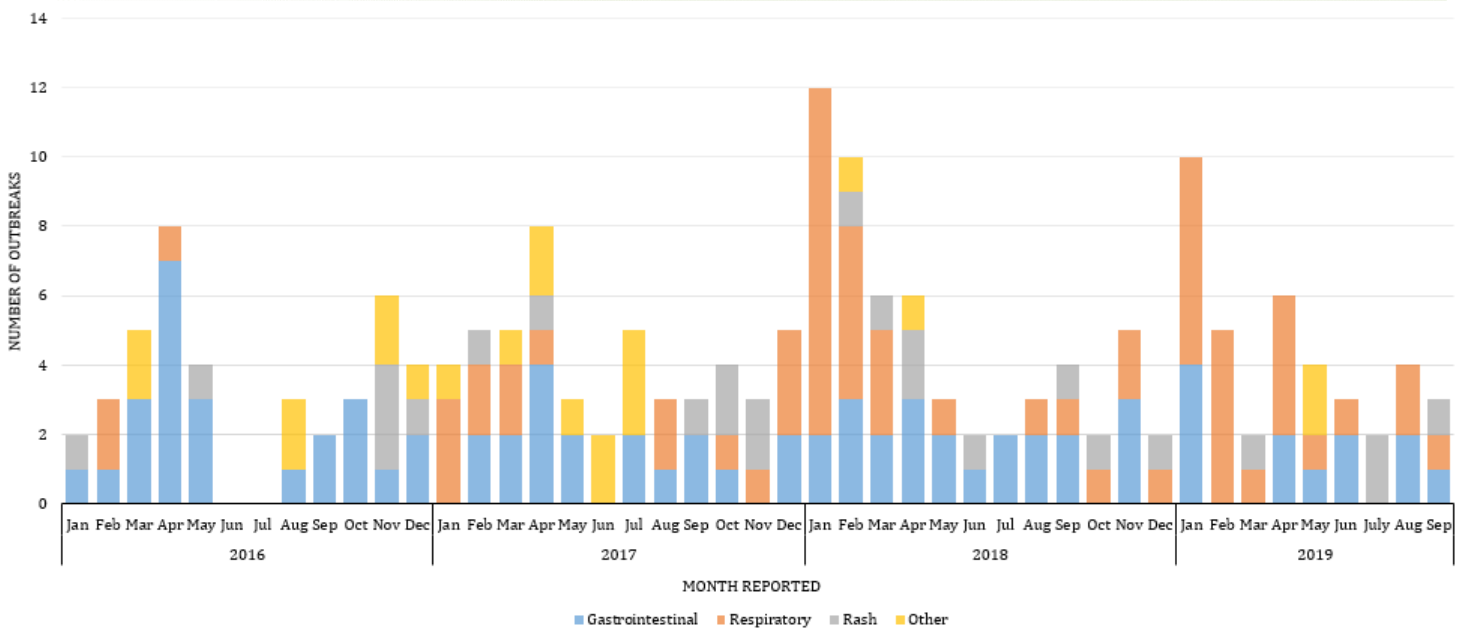
**\*\*ALL DATA ARE PRELIMINARY\*\***

# Outbreaks in Orange County

In September 2019, the following outbreaks were investigated:

- One rash illness outbreak in a daycare
- One respiratory illness outbreak in a long-term care facility
- One gastrointestinal illness outbreak in a daycare

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

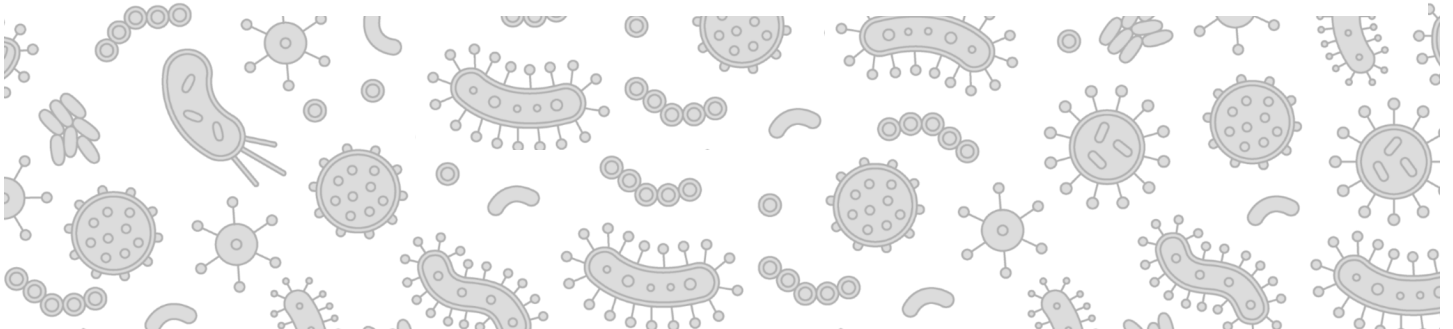


Source: DOH-Orange Epidemiology Program

**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](#)



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

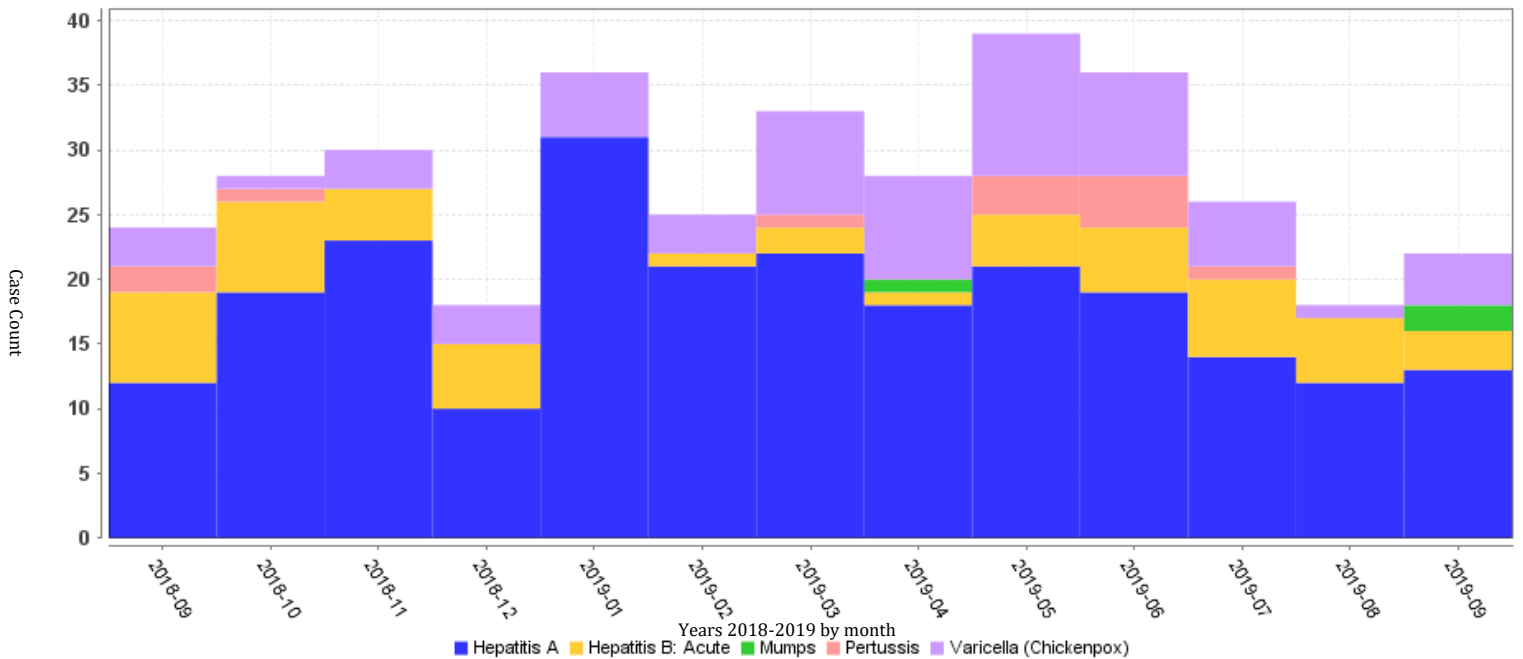
# Food Recalls

Brand Name	Food/Food Product	Date of Recall	Health Risk	
Whole Foods Market	Dorset cheese	30-Sep-19	<i>Listeria monocytogenes</i>	<a href="#">Details</a>
Captain K	Salmon slightly salted pieces	24-Sep-19	<i>Listeria monocytogenes</i>	<a href="#">Details</a>
Roland	Red Lumpfish Caviar and Black Lumpfish Caviar	20-Sep-19	<i>Clostridium botulinum</i>	<a href="#">Details</a>
Gold Medal	Unbleached All Purpose Flour	16-Sep-19	<i>E.coli</i> O26	<a href="#">Details</a>
Urban Remedy	Salads and Wraps	13-Sep-19	<i>E.coli</i>	<a href="#">Details</a>
MDH	MDH SAMBAR MASALA	11-Sep-19	<i>Salmonella</i>	<a href="#">Details</a>
Alfa International Seafood, Inc.	Refrigerated, wild caught yellowfin tuna loins	11-Sep-19	Elevated histamine	<a href="#">Details</a>
Major Pharmaceuticals	Milk of Magnesia Oral Suspension 2400 mg/30ml	9-Sep-19	Microbial Contamination	<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, September 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: September	Orange: Jan- Sept		All Counties: September	All Counties: Jan- Sept	
	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	1	17	18
Arboviral Disease: Other	0	0	0	0	0	1
Arsenic Poisoning	0	0	0	1	11	11
Botulism: Foodborne	0	0	0	1	2	0
Botulism: Infant	0	0	0	0	0	1
Brucellosis	1	1	0	2	8	11
California Serogroup Virus Neuroinvasive Disease	0	0	0	0	0	3
Campylobacteriosis	17	168	163	362	3685	3769
Carbon Monoxide Poisoning	2	27	5	8	172	171
Chikungunya Fever	0	1	1	5	12	3
Ciguatera Fish Poisoning	0	1	3	7	69	60
Creutzfeldt-Jakob Disease (CJD)	0	0	0	2	18	19
Cryptosporidiosis	3	28	23	70	517	465
Cyclosporiasis	1	15	8	9	544	80
Dengue Fever	3	13	1	90	295	33
Dengue Fever: Severe	0	0	0	2	6	2
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	3	33	37
Ehrlichiosis/Anaplasmosis: Undetermined	0	0	0	0	0	1
Escherichia coli: Shiga Toxin-Producing (STEC) Infection	3	67	50	40	647	726
Flavivirus Disease and Infection	0	0	0	1	3	3
Giardiasis: Acute	4	42	48	77	850	862
Haemophilus influenzae Invasive Disease	1	12	18	25	310	256
Hansen's Disease (Leprosy)	0	0	0	2	19	15
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	2	9
Hepatitis A	11	174	46	290	2792	267
Hepatitis B: Acute	4	29	23	73	704	610
Hepatitis B: Chronic	33	273	338	438	3825	3660
Hepatitis B: Perinatal	0	0	0	0	0	1
Hepatitis B: Surface Antigen in Pregnant Women	2	45	23	18	296	312
Hepatitis C: Acute	7	31	23	110	814	434
Hepatitis C: Chronic	135	1223	1280	1853	15849	16591
Hepatitis C: Perinatal	0	0	1	3	25	36
Hepatitis D	0	0	0	0	2	3
Hepatitis E	0	0	0	2	6	4
Herpes B Virus: Possible Exposure	0	0	0	0	9	13
Influenza-Associated Pediatric Mortality	0	0	0	0	4	8
Lead Poisoning	10	72	104	138	1518	3374
Legionellosis	8	40	37	83	609	514
Leptospirosis	0	3	0	0	7	7
Listeriosis	0	1	3	7	30	44
Lyme Disease	0	6	5	27	155	159



Disease	Orange: September	Orange: Jan- Sept		All Counties: September	All Counties: Jan- Sept	
	2019	2019	2018	2019	2019	2018
Malaria	1	7	3	6	58	52
Measles (Rubeola)	0	1	0	0	4	15
Meningitis: Bacterial or Mycotic	0	0	3	5	72	80
Meningococcal Disease	0	1	3	1	17	21
Mercury Poisoning	0	0	0	0	12	37
Mumps	2	3	9	13	187	143
Neurotoxic Shellfish Poisoning	0	0	0	0	0	1
Paratyphoid Fever (Salmonella Serotypes Paratyphi A B C)	0	3	0	1	18	1
Pertussis	0	10	10	20	310	248
Pesticide-Related Illness and Injury: Acute	0	1	4	1	23	47
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	5	84	56	301	3346	3191
Ricin Toxin Poisoning	0	0	0	0	2	4
Rocky Mountain Spotted Fever and Spotted Fever Rickettsiosis	1	2	0	14	41	22
Salmonellosis	62	290	290	851	5439	5180
Saxitoxin Poisoning (Paralytic Shellfish Poisoning)	0	0	0	0	0	4
Scombroid Poisoning	1	2	0	3	50	20
Shigellosis	5	103	94	84	1153	1124
Staphylococcus aureus Infection: Intermediate Resistance to Vancomycin (VISA)	0	0	0	0	0	2
Strep pneumoniae Invasive Disease: Drug-Resistant	0	16	17	18	251	203
Strep pneumoniae Invasive Disease: Drug-Susceptible	2	25	19	43	414	314
Tetanus	0	0	0	0	4	0
Tularemia (Francisella tularensis)	0	0	0	0	0	3
Typhoid Fever (Salmonella Serotype Typhi)	3	12	13	8	134	119
Varicella (Chickenpox)	5	66	36	82	811	638
Vibriosis (Grimontia hollisae)	0	0	0	0	2	5
Vibriosis (Other Vibrio Species)	0	1	1	8	73	44
Vibriosis (Vibrio alginolyticus)	0	2	3	1	60	62
Vibriosis (Vibrio cholerae Type Non-O1)	0	1	0	1	13	4
Vibriosis (Vibrio fluvialis)	0	0	0	1	10	10
Vibriosis (Vibrio mimicus)	0	0	0	0	3	0
Vibriosis (Vibrio parahaemolyticus)	0	2	1	3	40	43
Vibriosis (Vibrio vulnificus)	0	0	0	7	26	37
West Nile Virus Neuroinvasive Disease	0	0	0	0	3	17
West Nile Virus Non-Neuroinvasive Disease	0	0	0	1	2	5
Zika Virus Disease and Infection- Congenital	0	0	1	0	1	3
Zika Virus Disease and Infection- Non-Congenital	0	4	42	7	71	177
Total	336	2917	2810	5286	46584	44477

# Florida Department of Health in Orange County

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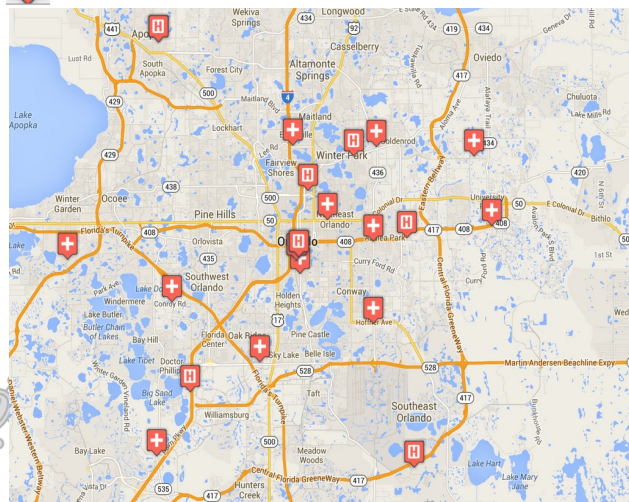
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## Florida Department of Health: ESSENCE

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\*\***