



Epidemiology Monthly Surveillance Report

Florida Department of Health in Orange County

May 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

Epidemiology

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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](#)
- [Measles Outbreak, Information for Healthcare Providers](#)
- [CDC Safety Alert: E. coli O26 Outbreak Linked to Flour](#)
- [CDC Investigation Notice: Multistate Outbreak of Salmonella Infections Linked to Contact with Live Poultry](#)
- [CDC Investigation Notice: CDC Foodborne Outbreak Investigations Updates: Raw Oysters and Raw Tuna](#)
- [CDC Foodborne Outbreak Updates: Tahini and Pre-Cut Melons](#)

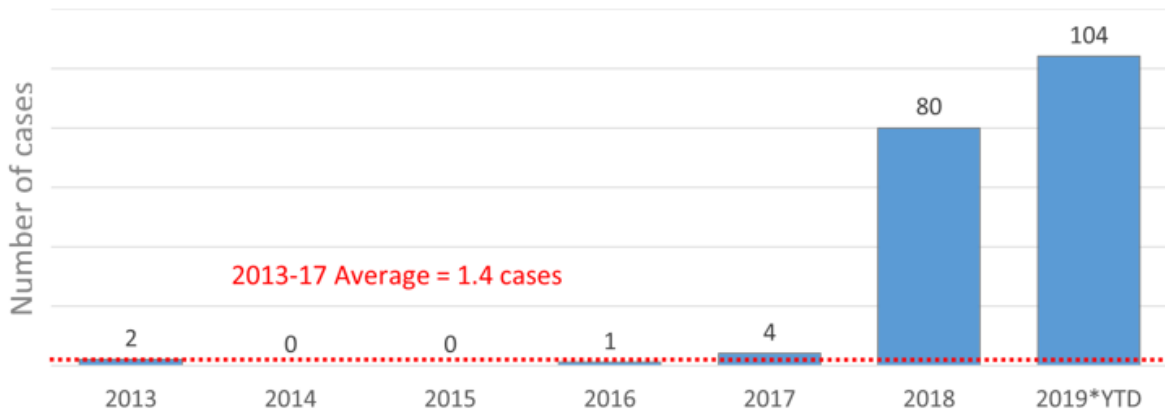
CDC Travel Notices: Travel notices are designed to inform travelers and clinicians about current health issues related to specific international destinations

- [Ebola in Democratic Republic of the Congo \(update\)](#)
- [Global Measles Outbreak Notice](#)
- [Monkeypox in Nigeria](#)



Orange County Hepatitis A Update

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



Source: DOH-Orange Epidemiology Program, as of 6/3/2019

Deaths: 2

Hospitalized: 83% (n=184)

Age range: 2-81 years

Median = 37 years

Sex: 68% male (n=184)

Non-Hispanic: 88% (n=184)

White: 76% (n=184)

Secondary cases (contact of previously known case) = 18

Risk factors (where data are known):

MSM = 13% (n=157)

DU (IV and non-IV) = 59% (n=172)

Homeless = 31% (n=159)

Hep B/C co-infected = 38% (n=179)

Incarcerated = 18% (n=99)

Healthcare workers: n=4

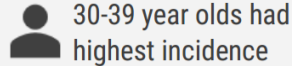
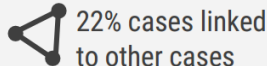
Childcare/school age children: n=2

Food service workers/facilities: n=6

Florida Hepatitis A Update

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

2018-To-Date Key Points



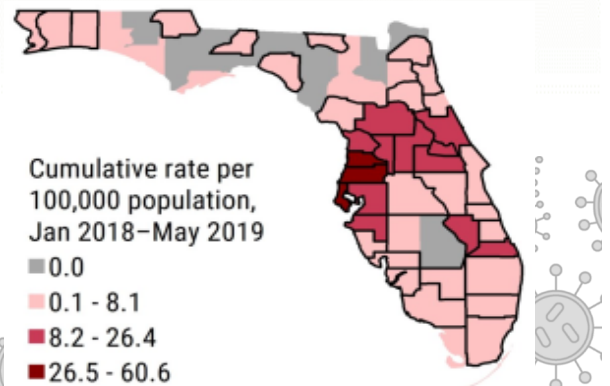
Top 5 Impacted Counties in Florida

CONFIRMED, PROBABLE, SUSPECT CASES OF HEPATITIS A WITH REPORT DATE 1/1/2018 to 6/3/2019

County	2018	2019 *YTD	TOTAL
Pinellas	113	262	375
Pasco	66	256	322
Orange	93	113	206
Volusia	5	100	105
Hillsborough	84	99	183
TOTAL	361	830	1191

Source: Florida Merlin

May Map of Hepatitis A Cases noted in 38 counties, outlined in black (N=385)



Source: Hepatitis A Surveillance Report

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

Influenza Surveillance

(MMWR Weeks 21-22: May 19– June 1, 2019)
Summer Season 2019

Statewide Activity

Geographic Spread:
Sporadic



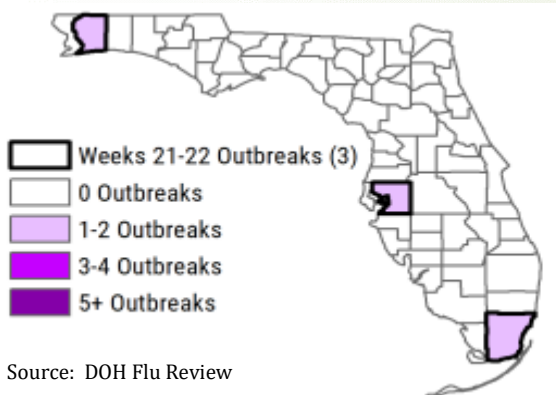
Predominant Strain²:
A (H3)



ILI Activity Trend:
Stable



Respiratory Outbreaks by County, Week 21-22



Source: DOH Flu Review

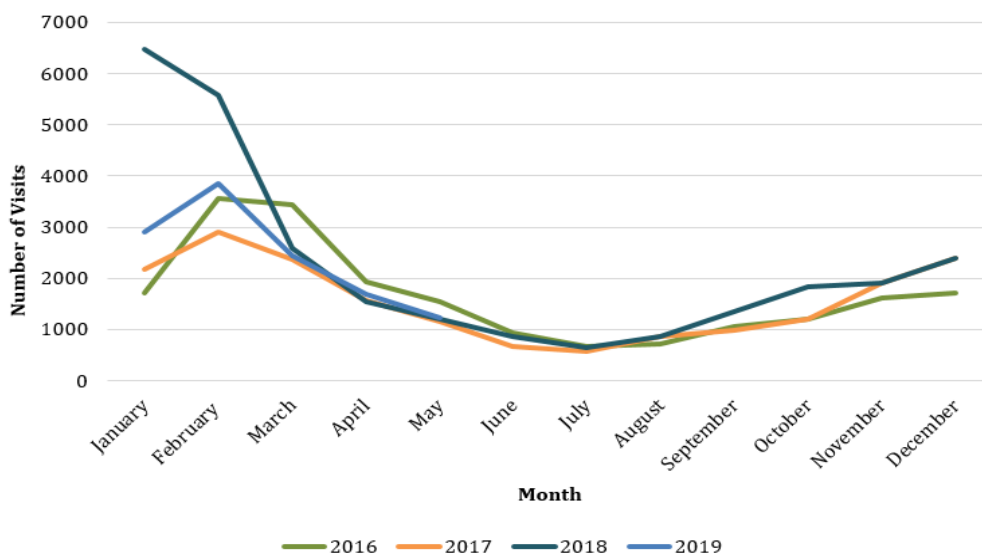
- In weeks 21-22, ILI activity was relatively stable . Levels were similar to those observed at this time in past years.
- Influenza continues to circulate at low levels.
- Three respiratory outbreaks from various counties were reported in week 21-22.
- No new influenza-associated pediatric deaths were reported in week 21-22. Four influenza-associated pediatric deaths have been reported so far this season, all in unvaccinated children.

The 2018-2019 influenza season has come to a close. Florida Department of Health will distribute an abbreviated flu report on a biweekly basis.

Orange County Activity

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

ILI Emergency Department Visits in Orange County, 2016 to 2019



Source: ESSENCE

Flu Level:

Mild



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 22: May 26-June 1, 2019)

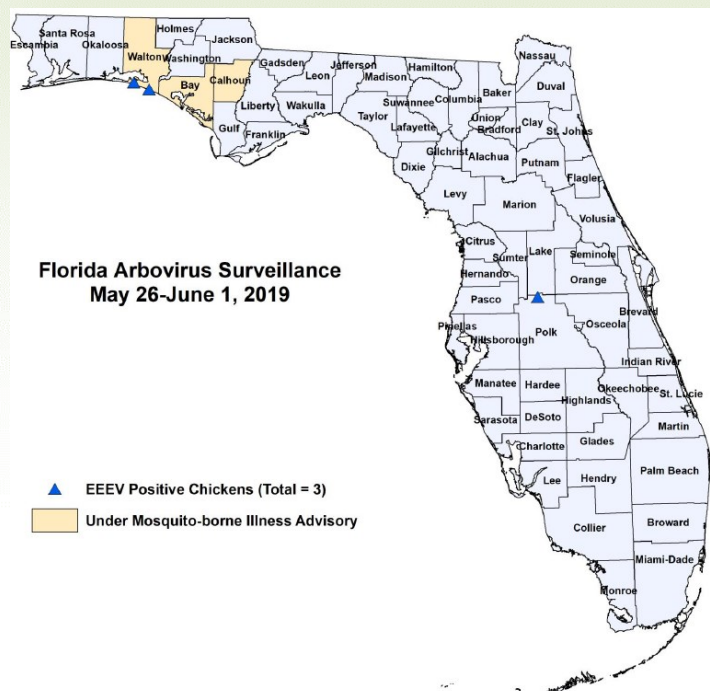
International

- There are Level 2 Travel Health Notices for Brazil and Nigeria related to the transmission of yellow fever virus. Additional information on travel health notices can be found [here](#).

Florida

- One case of **dengue fever** was reported in week 22 in an individual with international travel. In 2019, 30 travel-associated cases and no locally acquired cases have been reported.
- No cases of **chikungunya fever** were reported this week in persons who had international travel. In 2019, two travel-associated cases and no locally acquired cases have been reported.
- No human cases of **West Nile virus (WNV)** infection were reported in week 22. In 2019, one horse and 13 sentinel chickens have been reported from nine counties.
- No human cases of **Eastern equine encephalitis virus (EEEV)** infection were reported this week. In 2019, 12 horses, one emu, and 32 sentinel chickens have been reported from 15 counties.
- One case of **Zika fever** was reported in week 22 in a person who had international travel. In 2019, 20 travel-associated cases and no locally acquired cases have been reported.
- Bay, Calhoun, and Walton counties are currently under a **mosquito-borne illness advisory**. No other counties are currently under mosquito-borne illness advisory or alert.

Arbovirus Surveillance by County, Week 22



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 new case of **Zika fever** was reported in May 2019. Our total count as of week 22 is 4 cases.
- **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](#)

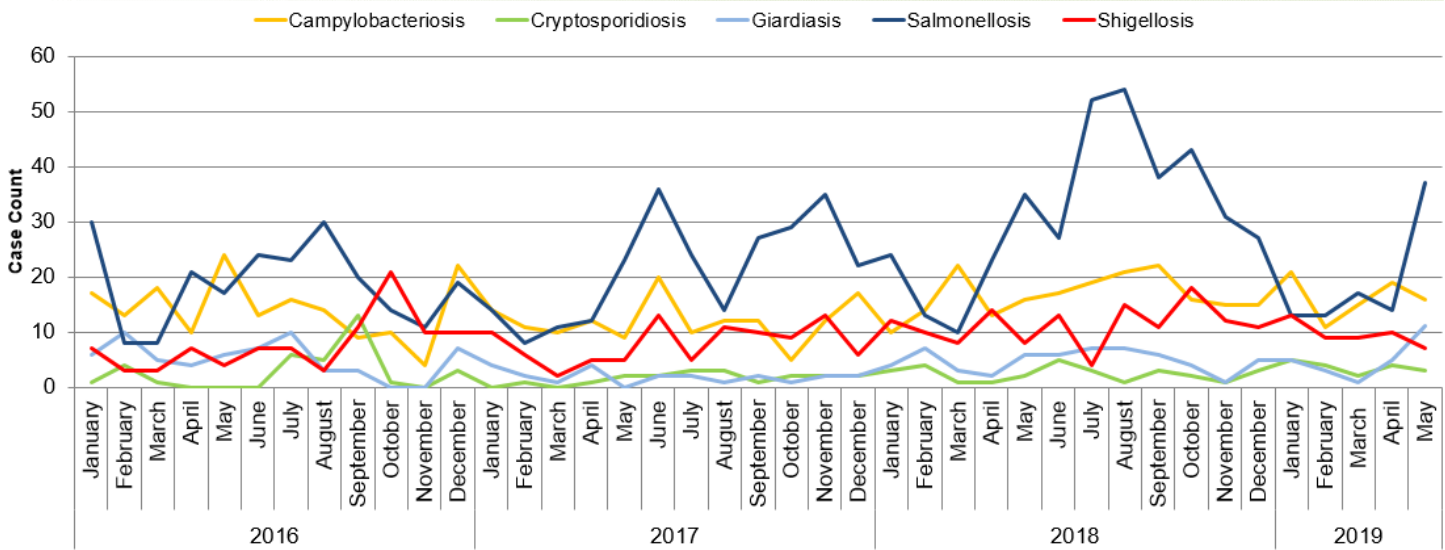
[Florida Department of Health Mosquito-Borne Disease Education Materials](#)

Gastrointestinal Illness Surveillance

Points of Interest:

- The counts for enteric reportable disease cases were slightly elevated compared to April, but is within normal seasonal trend.
- In May, 40 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 May 2019



Source: ESSENCE

People with a higher risk of FOOD POISONING



Adults aged 65 and older

Children younger than 5 years

People with weakened immune systems

Pregnant women

Choose and prepare food carefully to help prevent food poisoning.

Source: [CDC Food Safety- Food Poisoning](#)

A Public Health Message about Food Poisoning:

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](#)

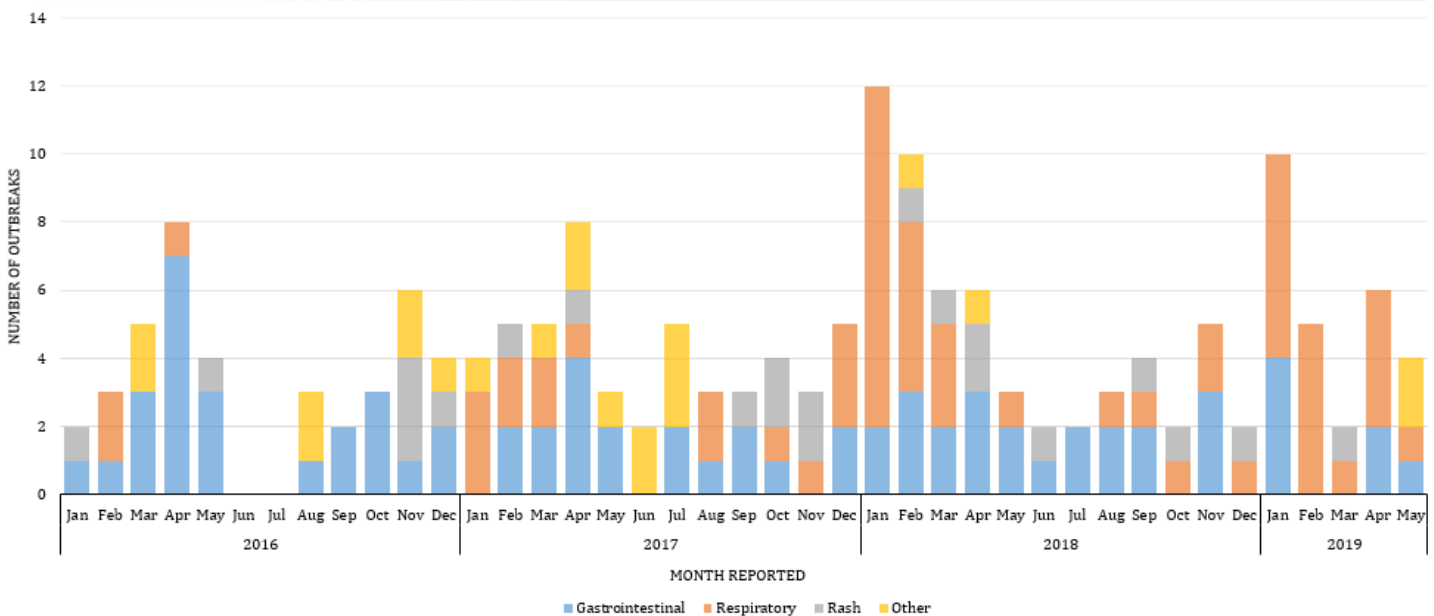
[Florida Department of Health - Norovirus Resources](#)

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

Outbreaks in Orange County

- In May 2019, the following outbreaks were investigated:
 - One gastrointestinal illness outbreak in a restaurant
 - One influenza outbreak in a long-term care facility
 - One health care-associated infection outbreak in a long-term care facility
 - One health care-associated infection outbreak in an acute care hospital

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

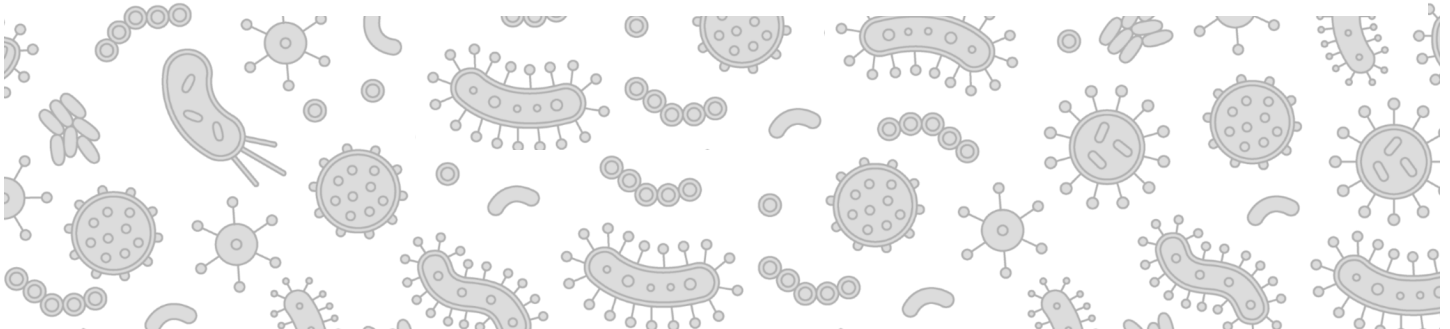


Source: DOH-Orange Epidemiology Program

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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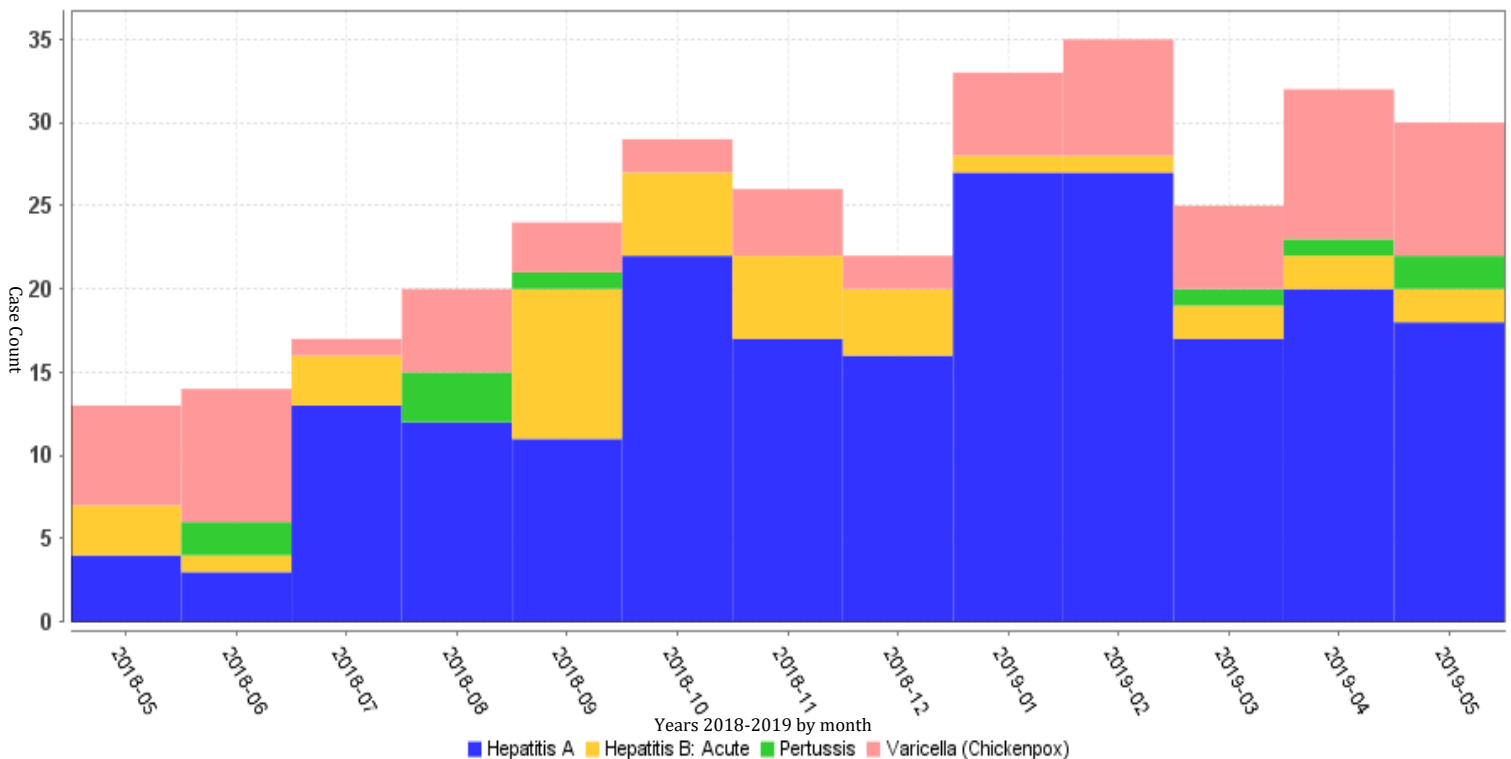
Food Recalls

Brand Name	Food/Food Product	Date of Recall	Health Risk	
The Village Company	La Bella Extreme Sport Hair Product	24-May-19	Bacterial Contamination	Details
Brodz Zenatti Holding, LLC	Karawan & SoCo Brand Tahini	22-May-19	Salmonella	Details
ALDI, ADM Milling Co.	Bakers Corner All Purpose Flour	22-May-19	E. coli	Details
Seven Seas International, LLC	Biltmore Smoked Sockeye Salmon	14-May-19	Listeria	Details
Mecox Bay Dairy, LLC	Mecox Sunrise Cheese	9-May-19	Listeria	Details
Life Rising Corporation	Life Rising, HoliCare Dietary Supplements	2-May-19	Lead	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, May 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		
	May 2019	Cumulative (YTD) 2019	2018	May 2019	Cumulative (YTD) 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)	1	1	1	2	2	20
Arboviral Disease, Other	0	0	0	0	0	1
Arsenic Poisoning	0	0	0	1	5	16
Babesiosis	0	0	0	0	1	19
Botulism, Infant	0	0	0	0	0	1
Brucellosis	0	0	0	0	3	15
California Serogroup Virus Neuroinvasive Disease	0	0	0	0	0	3
Campylobacteriosis	16	83	205	421	2068	4733
Carbon Monoxide Poisoning	4	14	7	20	101	238
Chikungunya Fever	0	0	1	0	2	5
Ciguatera Fish Poisoning	1	1	3	1	36	69
Creutzfeldt-Jakob Disease (CJD)	0	0	0	0	5	19
Cryptosporidiosis	3	17	27	60	268	586
Cyclosporiasis	0	1	8	4	11	76
Dengue Fever	0	0	4	10	43	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	5	12	45
Escherichia coli, Shiga Toxin-Producing (STEC) Infection	3	29	63	68	338	860
Flavivirus Disease and Infection	0	0	0	0	3	6
Giardiasis, Acute	11	25	59	91	485	1100
Haemophilus influenzae Invasive Disease	2	5	22	38	181	311
Hansen's Disease (Leprosy)	0	0	1	2	9	20
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	2	8
Hepatitis A	21	119	93	360	1502	555
Hepatitis B, Acute	4	8	36	90	387	771
Hepatitis B, Chronic	35	172	463	517	2312	4906
Hepatitis B, Perinatal	0	0	0	0	1	2
Hepatitis B, Pregnant Women	2	30	28	18	161	391
Hepatitis C, Acute	2	9	19	116	416	406
Hepatitis C, Chronic	138	746	1760	1830	9016	21304
Hepatitis C, Perinatal	0	0	1	5	16	46
Hepatitis D	0	0	1	0	1	5
Hepatitis E	0	0	0	0	3	7
Influenza-Associated Pediatric Mortality	0	0	0	1	3	9
Lead Poisoning	3	30	132	158	747	4111
Legionellosis	3	13	48	41	274	656
Leptospirosis	0	1	0	0	3	7
Listeriosis	0	0	5	4	11	53
Lyme Disease	0	1	4	5	33	197
Malaria	2	3	3	10	22	59
Measles (Rubeola)	0	0	0	0	2	15
Meningitis, Bacterial or Mycotic	0	0	3	8	36	112
Meningococcal Disease	0	1	4	1	14	18
Mercury Poisoning	0	0	0	0	8	38
Mumps	0	3	7	38	101	178
Neurotoxic Shellfish Poisoning	0	0	0	0	0	1
Pertussis	3	5	10	31	157	327
Pesticide-Related Illness and Injury, Acute	0	1	4	5	13	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	13	58	68	329	1752	4071
Ricin Toxin Poisoning	0	0	0	0	1	4
Rocky Mountain Spotted Fever and Spotted Fever Rickettsiosis	1	1	0	3	12	38
Salmonella Paratyphi Infection	0	3	0	2	11	0
Salmonella Typhi Infection	1	5	19	12	71	176
Salmonellosis	37	105	379	566	2170	7262
Saxitoxin Poisoning (Paralytic Shellfish Poisoning)	0	0	0	0	0	4
Scombroid Poisoning	0	0	1	6	31	32
Shigellosis	7	47	137	122	662	1513
Staphylococcus aureus Infection, Intermediate Resistance to Vancomycin	0	0	0	1	1	2
Strep pneumoniae Invasive Disease, Drug-Resistant	2	13	21	27	162	205
Strep pneumoniae Invasive Disease, Drug-Susceptible	3	18	20	65	284	370
Tetanus	0	0	0	0	2	1
Tularemia (Francisella tularensis)	0	0	0	0	0	2
Varicella (Chickenpox)	11	37	42	93	462	867
Vibriosis (Grimontia hollisae)	0	0	0	0	2	7
Vibriosis (Other Vibrio Species)	0	0	1	9	43	64
Vibriosis (Vibrio alginolyticus)	0	0	2	8	24	70
Vibriosis (Vibrio cholerae Type Non-O1)	1	1	0	2	5	5
Vibriosis (Vibrio fluvialis)	0	0	0	3	3	12
Vibriosis (Vibrio mimicus)	0	0	0	0	3	0
Vibriosis (Vibrio parahaemolyticus)	1	2	1	9	23	43
Vibriosis (Vibrio vulnificus)	0	0	0	2	5	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	1	1
Zika Virus Disease and Infection, Non-Congenital	0	3	43	4	42	172
Total	331	1611	3757	5224	24587	57481

Florida Department of Health in Orange County

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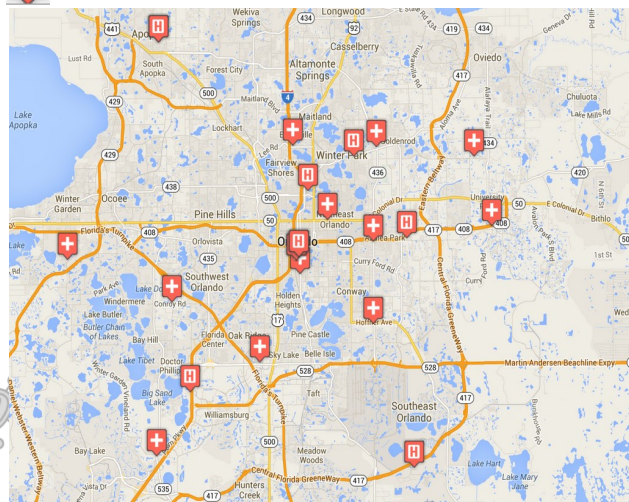
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 Hospital linked to ESSENCE

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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****