



# Epidemiology Yearend Surveillance Report

Florida Department of Health in Orange County

Volume 5, Issue 12

## 2015: Yearend Overview

Outbreaks Investigated by the Florida Department of Health in Orange County during 2015, by Mode of Transmission and Pathogen Type.

Mode of Transmission	Pathogen Type	Count
Foodborne	Viral	2
	Bacterial	2
	Marine Toxin	2
	Unknown	10
Waterborne	Parasitic	1
Person-to-Person (Enteric)	Viral	4
	Unknown	2
Person-to-Person	Mite	4
Person-to-Person (Respiratory)	Viral	8
	Unknown	1
<b>Total</b>		<b>36</b>

<b>Total Foodborne Illness Complaints</b>	<b>175</b>
Florida Department of Business and Professional Regulation	145
Florida Department of Agriculture and Consumer Services	30

## Reportable Disease Table 1 of 3

Disease	Orange County		Florida	
	2015	Mean (2010 - 2014)	2015	Mean (2010 - 2014)
Amebic Encephalitis	0	0	1	0.8
Anthrax	0	0	0	0.2
Arboviral Disease: Other	0	0	0	0
Arsenic Poisoning	2	0	16	8.2
Botulism: Foodborne	0	0	0	0
Botulism: Infant	0	0	0	0.6
Botulism: Other	0	0	1	0
Botulism: Wound	0	0	0	0
Brucellosis	1	0.6	11	9.6
California Serogroup Virus Neuroinvasive Disease	0	0	1	0.4
California Serogroup Virus Non-Neuroinvasive Disease	0	0	0	0
Campylobacteriosis	137	115.6	3720	2400
Carbon Monoxide Poisoning	13	7.8	270	152.2
Chikungunya Fever	3	11.8	126	96.8
Cholera (Vibrio cholerae Type O1)	2	0.4	4	6.4
Ciguatera Fish Poisoning	2	1.6	59	45.6
Creutzfeldt-Jakob Disease (CJD)	1	0.8	26	20.6
Crimean-Congo Hemorrhagic Fever	0	0	0	0
Cryptosporidiosis	50	37.4	874	730.4
Cyclosporiasis	2	3	33	45.8
Dengue Fever	2	11.8	88	138.4
Dengue Fever: Severe	0	0	0	1
Diphtheria	0	0	0	0
Eastern Equine Encephalitis Neuroinvasive Disease	0	0	0	1.8
Eastern Equine Encephalitis Non-Neuroinvasive Disease	0	0	0	0
Ebola Hemorrhagic Fever	0	0	0	0
Ehrlichiosis/Anaplasmosis (Ehrlichia ewingii)	0	0	0	0
Ehrlichiosis/Anaplasmosis: HGA (Anaplasma phagocytophilum)	0	0.2	7	5.8
Ehrlichiosis/Anaplasmosis: HME (Ehrlichia chaffeensis)	0	0.6	21	20
Ehrlichiosis/Anaplasmosis: Undetermined	0	0	1	0.2
Ehrlichiosis: Human - Expired on 2/15/2001	0	0	0	0
Encephalitis (Other) - Expired on 8/5/2008	0	0	0	0
Encephalitis (Other: Non-Arboviral) - Expired 6/4/2014	0	0.2	0	11.6
Escherichia coli: Shiga Toxin-Producing (STEC) Infection	22	16.4	464	413.8
Giardiasis: Acute	74	73	1055	1360.4
Glanders (Burkholderia mallei)	0	0	0	0
Guanarito Hemorrhagic fever	0	0	0	0
Haemophilus influenzae Invasive Disease	15	14.2	249	241.2
Hansen's Disease (Leprosy)	3	0.4	32	10.6
Hantavirus Infection: Non-Pulmonary Syndrome	0	0	0	0
Hantavirus Pulmonary Syndrome	0	0	0	0
Hemolytic Uremic Syndrome (HUS)	1	0.6	5	6.8
Hepatitis A	3	7.2	136	132.8
Hepatitis B: Acute	18	12.4	528	328.2
Hepatitis B: Chronic	499	395.6	5471	4418.6
Hepatitis B: Perinatal	0	0.2	0	1
Hepatitis B: Surface Antigen in Pregnant Women	60	60.4	460	469.2

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## Reportable Disease Table 2 of 3

Disease	Orange County		Florida	
	2015	Mean (2010 - 2014)	2015	Mean (2010 - 2014)
Hepatitis C: Acute	9	10.4	214	157.6
Hepatitis C: Chronic	2042	1663.8	36779	27795.4
Hepatitis D	0	0	1	0.4
Hepatitis E	1	0.2	6	2.8
Hepatitis G	0	0.2	0	0.4
Herpes B Virus: Possible Exposure	0	0	5	6.2
Influenza A: Novel or Pandemic Strains	0	2.4	0	30.6
Influenza-Associated Pediatric Mortality	0	0.2	2	4.2
Junin Hemorrhagic Fever	0	0	0	0
Lassa Fever	0	0	0	0
Lead Poisoning	31	26	988	879.8
Legionellosis	19	21	351	241.4
Leptospirosis	0	0.6	5	1.6
Listeriosis	3	3	45	43.4
Lujo Virus	0	0	0	0
Lyme Disease	5	4	310	142.6
Machupo Hemorrhagic Fever	0	0	0	0
Malaria	6	9.4	56	87.8
Marburg Fever	0	0	0	0
Measles (Rubeola)	0	1.4	11	3.8
Melioidosis (Burkholderia pseudomallei)	0	0.2	0	0.2
Meningitis: Bacterial or Mycotic	0	9.2	126	172
Meningococcal Disease	0	1.2	26	57.2
Mercury Poisoning	0	0.2	28	10.6
Middle East Respiratory Syndrome (MERS)	0	0.2	0	0.2
Mumps	0	0.8	19	17
Neurotoxic Shellfish Poisoning	0	0	0	0
Pertussis	13	30.8	349	536.4
Pesticide-Related Illness and Injury: Acute	0	3.6	54	45.2
Plague: Bubonic	0	0	0	0
Plague: Pneumonic	0	0	0	0
Poliomyelitis: Nonparalytic	0	0	0	0
Poliomyelitis: Paralytic	0	0	0	0
Psittacosis (Ornithosis)	0	0	1	0.2
Q Fever - Expired on 12/31/2007	0	0	0	0
Q Fever: Acute (Coxiella burnetii)	0	0	2	2.2
Q Fever: Chronic (Coxiella burnetii)	0	0	0	0
Rabies: Animal	0	0	0	0
Rabies: Human	0	0	0	0.2
Rabies: Possible Exposure	89	90.6	3397	2547
Ricin Toxin Poisoning	1	0	4	0.2
Rocky Mountain Spotted Fever - Expired 7/15/2014	0	0.2	0	16.6
Rocky Mountain Spotted Fever and Spotted Fever Rickettsiosis	2	0.4	47	7.2
Rubella	0	0	1	0
Rubella: Congenital Syndrome	0	0	0	0
Sabia-Associated Hemorrhagic Fever	0	0	0	0

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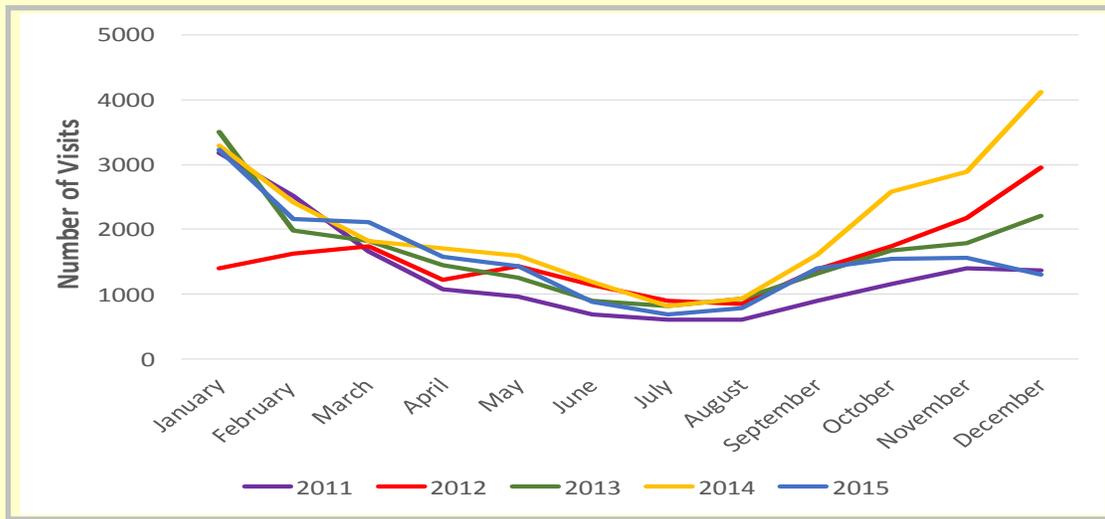
## Reportable Disease Table 3 of 3

Disease	Orange County		Florida	
	2015	Mean (2010 - 2014)	2015	Mean (2010 - 2014)
Salmonellosis	339	328.8	6513	6367
Saxitoxin Poisoning (Paralytic Shellfish Poisoning)	0	0	0	0.6
Severe Acute Respiratory Syndrome (SARS)	0	0	0	0
Shigellosis	79	140.2	2034	1871.4
Smallpox	0	0	0	0
St. Louis Encephalitis Neuroinvasive Disease	0	0	0	0.4
St. Louis Encephalitis Non-Neuroinvasive Disease	0	0	0	0
Staphylococcal Enterotoxin B Poisoning	0	0	0	0.2
Staphylococcus aureus Infection: Intermediate Resistance to Vancomycin	0	0	4	4.4
Staphylococcus aureus Infection: Resistant to Vancomycin (VRSA)	0	0	0	0
Staphylococcus aureus: Community-Associated Mortality	0	0	0	10.6
Strep pneumoniae Invasive Disease: Drug-Resistant	18	33.4	177	573.2
Strep pneumoniae Invasive Disease: Drug-Susceptible	26	23	289	582.2
Streptococcal Invasive Disease (Group A)	0	12.8	0	252.4
Tetanus	0	0	4	4
Toxoplasmosis	0	0.6	0	9
Trichinellosis (Trichinosis)	0	0	0	0
Tularemia (Francisella tularensis)	0	0	0	0.4
Typhoid Fever (Salmonella Serotype Typhi)	0	1.2	6	13.4
Typhus Fever	0	0	0	0
Typhus Fever: Endemic (Rickettsia typhi)	0	0	0	0.4
Typhus Fever: Epidemic (Rickettsia prowazekii)	0	0	0	0
Vaccinia Disease	0	0	1	0.2
Varicella (Chickenpox)	18	28.6	758	781.4
Venezuelan Equine Encephalitis Neuroinvasive Disease	0	0	0	0
Venezuelan Equine Encephalitis Non-Neuroinvasive Disease	0	0	0	0
Vibriosis (Grimontia hollisae)	0	0	1	1.8
Vibriosis (Other Vibrio Species)	0	0.2	19	8.8
Vibriosis (Vibrio alginolyticus)	2	1.4	56	53
Vibriosis (Vibrio cholerae Type Non-O1)	0	0.4	9	12.4
Vibriosis (Vibrio fluvialis)	0	0	15	7.6
Vibriosis (Vibrio mimicus)	0	0	11	5.2
Vibriosis (Vibrio parahaemolyticus)	0	0.6	48	40.4
Vibriosis (Vibrio vulnificus)	0	0.4	48	35.2
Viral Hemorrhagic Fever	0	0	0	0
West Nile Virus Neuroinvasive Disease	0	0.8	13	20.2
West Nile Virus Non-Neuroinvasive Disease	0	0.2	0	7.6
Western Equine Encephalitis Neuroinvasive Disease	0	0	0	0
Western Equine Encephalitis Non-Neuroinvasive Disease	0	0	0	0
Yellow Fever	0	0	0	0
<b>Total</b>	<b>3613</b>	<b>3224.8</b>	<b>66492</b>	<b>54552.8</b>

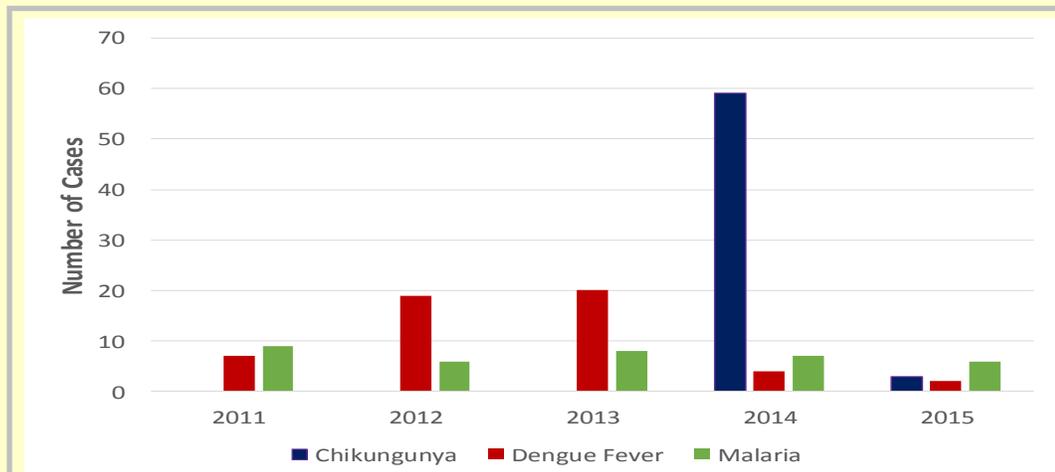
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## Select Disease Trends

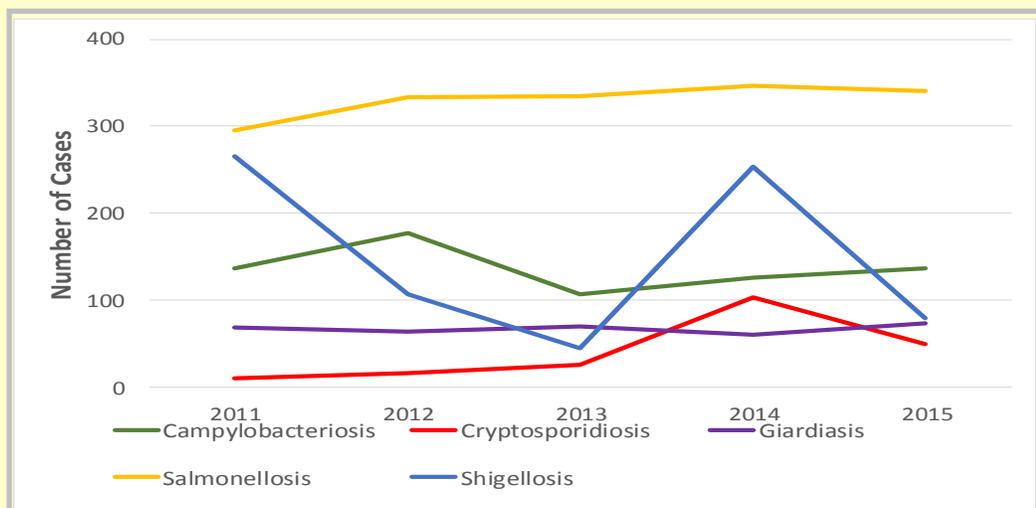
**Influenza-like Illness, Emergency Department/Urgent Care Visits, Orange County, Florida, 2011-2015, by Month**



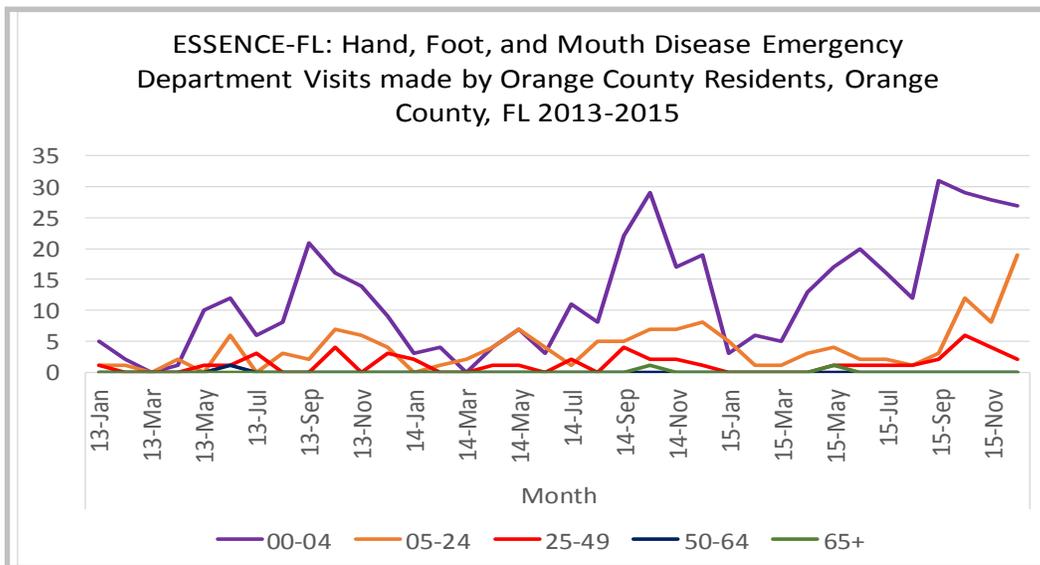
**Arboviral Illnesses, Orange County, Florida, 2011-2015**



**Gastrointestinal Illness, Orange County, Florida 2011-2015, by Year**



## Select Disease Trends Continued...



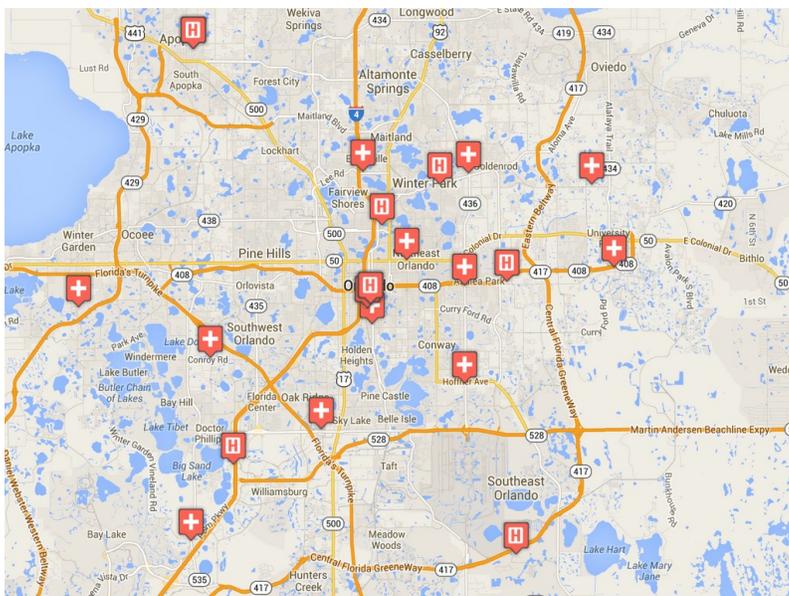
## Other Disease Resources

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 [Orange County](#).



## 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), 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 past seven 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 207 emergency departments and 36 urgent care centers (Florida Hospital Centra Care) reporting to ESSENCE-FL for a total of 243 facilities.

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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.*

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