

EPI GRAM February, 2019

A Monthly Publication of the Stark Public Health Infrastructure Coalition

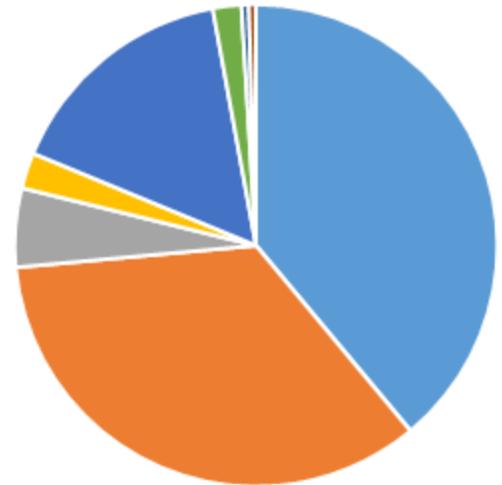
EPI Gram is a monthly publication of the Stark County Public Health Infrastructure Coalition. It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for Stark County, Ohio. Some reportable conditions may be under investigation and, at any given time, data may fluctuate from month to month for a specific category. **If you have any questions please contact Avinash Joseph at 330.493.9914 or josepha@starkhealth.org, or Amanda Archer at 330.489.3327 or aarcher@cantonhealth.org.**



Monthly Highlight: Campylobacter

Campylobacteriosis is a gastrointestinal disease caused by the bacteria Campylobacter. The symptoms of this disease include diarrhea (often containing blood), fever, tiredness, and nausea, and can persist for up to 2 weeks. Treatment involves rehydration, electrolyte replacement, rest, and occasionally antibiotic use, and affected persons are to be excluded from food handling or child care.

Transmission of campylobacteriosis normally occurs via ingestion of contaminated food and/or the fecal-oral route. Campylobacter is found in animals, particularly beef and poultry, so consumption of raw or undercooked meat is one of the most common pathways of transmission for campylobacteriosis. Consumption of unpasteurized dairy products is another potential method of transmission. Campylobacter transmission can be prevented by practicing proper infection control at all stages of the food chain, from farm to kitchen, and by only consuming pasteurized dairy products.



Etiology of foodborne Campylobacter outbreaks, 2010-2015, via CDC

Campylobacteriosis prevalence tends to be the highest during the summer months. However, Stark County has seen a large number of cases to begin this year. There have been 21 cases of campylobacteriosis through February of this year; last year at the same time 4 cases were reported. Recent multi-state and local outbreaks related to pet stores and other dog exposures could be playing a role in increased transmission. Local, statewide, and national surveillance of campylobacter is necessary to prevent outbreaks from occurring and worsening.

Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	February 2019				March 2018			
	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category
Pollen Count	Data collected seasonally and currently not available				Data collected seasonally and currently not available			
Mold Count	Data collected seasonally and currently not available				Data collected seasonally and currently not available			
Air Quality Index	64	17	38	7 (Moderate)	58	34	41	1 (Moderate)

**See the following websites for updated Air Quality Index and mold index terminology and color coding: <http://www.airnow.gov/index.cfm?action=aqibasics.aqi> https://pollen.aaaai.org/nab/index.cfm?p=reading_charts. Data source for this table is the Air Quality Division of the Canton City Health Department.

Table 2 Select Vital Statistics for Stark County

	FEB 2019	YTD 2019	2018
Live Births	257	622	4052*
Births to Teens	14	41	230*
Deaths	313	734	4230*

* Birth and death data is preliminary

Table 3 Stark County Crude Birth Rate and Death Rates

	2014	2015	2016	2017	2018*
Birth	11.3	11.2	11.3	10.7	10.9
Death	11.4	11.6	11.7	11.9	11.4

*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population. 2018 data is preliminary.

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County, OH (Provisional Data)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD
Campylobacteriosis	0	0	3	5	2	2	11	14	16	21
Chlamydia infection	11	24	64	137	12	27	60	118	147	306
Cholera	0	0	0	0	0	1	0	0	0	1
CP-CRE	0	0	1	1	1	1	0	0	2	2
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	2	0	2
Cryptosporidiosis	0	1	0	1	0	0	4	6	4	8
E. coli, Shiga Toxin-Producing	0	0	0	0	2	2	1	2	3	4
Giardiasis	0	0	0	0	0	1	0	3	0	4
Gonococcal infection	2	5	33	58	8	9	13	25	56	98
Haemophilus influenzae (invasive disease)	0	0	0	0	0	0	0	1	0	1
Hepatitis A	0	0	2	2	0	0	0	0	2	2
Hepatitis B (including delta) - acute	0	0	0	0	0	0	0	0	0	0
Hepatitis B (including delta) - chronic	0	0	4	5	2	2	3	5	9	12
Hepatitis C - acute	0	0	0	0	0	0	0	0	0	0
Hepatitis C - chronic	2	3	13	28	2	5	15	31	32	67
Influenza-associated hospitalization	2	3	36	43	11	20	81	107	130	173
Legionellosis - Legionnaires' Disease	0	0	1	1	1	1	1	1	3	3
Listeriosis	0	0	0	0	0	0	0	0	0	0
Lyme Disease	0	0	0	0	0	0	0	2	0	2
Meningitis - aseptic/viral	0	0	0	0	0	0	0	0	0	0
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	0	0	0	0
Mumps	0	0	0	0	0	0	0	0	0	0
Pertussis	1	2	0	7	0	2	2	10	3	21
Salmonellosis	0	0	0	1	0	0	0	2	0	3
Shigellosis	0	0	0	0	0	0	0	3	0	3
Streptococcal - Group A -invasive	0	0	0	1	0	0	2	3	2	4
Streptococcal – Group B – in newborn	0	0	0	0	0	0	1	1	1	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	0	0	0	0	0	0	1	0	1
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	1	1	0	0	0	1	0	1	1	3
Syphilis, Total	1	1	0	0	0	0	0	1	1	2
Syphilis, Primary, Secondary and Early Latent	1	1	0	0	0	0	0	1	1	2
Tuberculosis	0	0	0	1	0	0	0	0	0	1
Varicella	0	0	0	0	0	0	2	5	2	5
Yersiniosis	0	0	0	0	0	0	0	1	0	1
Total	21	42	157	291	41	74	198	346	417	753

Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)	Feb-19	Feb-18	YTD 2019	YTD 2018	All of 2018	5 Yr Annual Average	Rate
Amebiasis	0	0	0	0	0	0.4	0.107
Anaplasmosis	0	0	0	0	2	0.6	0.161
Babesiosis	0	0	0	0	2	0.8	0.214
Brucellosis	0	0	0	0	0	0.2	0.054
Campylobacteriosis	16	1	21	4	85	77.6	20.761
Chlamydia	147	143	306	298	1713	1720.0	460.169
CP-CRE	2	0	2	0	27	24.0	6.421
Coccidioidomycosis	0	0	0	0	0	0.4	0.107
Creutzfeldt-Jakob Disease	0	0	2	0	1	1.2	0.321
Cryptosporidiosis	4	0	8	4	33	33.8	9.043
Cyclosporiasis	0	0	0	0	8	3.0	0.803
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	3	1	4	2	17	14.0	3.746
Giardiasis	0	3	4	4	23	21.8	5.832
Gonorrhea	56	46	98	93	643	580.2	155.227
Haemophilus influenzae , Invasive	0	0	1	1	4	6.4	1.712
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.054
Hepatitis A	2	1	2	1	11	7.6	2.033
Hepatitis B, Perinatal	0	0	0	0	1	1.8	0.482
Hepatitis B, Acute	0	1	0	1	11	6.4	1.712
Hepatitis B, Chronic	9	4	12	12	85	57.6	15.410
Hepatitis C, Acute	0	1	0	2	5	6.2	1.659
Hepatitis C, Chronic	32	26	67	52	313	313.0	83.740
Hepatitis C-Perinatal Infection	0	0	0	0	4	4.0	1.070
Hepatitis E	0	0	0	0	0	0.2	0.054
Influenza-associated hospitalization	130	135	173	446	595	379.0	101.398
LaCrosse virus disease	0	0	0	0	4	1.0	0.268
Legionellosis	3	0	3	1	34	18.0	4.816
Listeriosis	0	0	0	0	1	1.0	0.268
Lyme Disease	0	1	2	2	38	24.0	6.421
Malaria	0	0	0	0	0	0.4	0.107
Measles (indigenous to Ohio)	0	0	0	0	0	2.0	0.535
Meningitis, Aseptic	0	2	0	7	46	34.6	9.257
Meningitis, Other Bacterial	0	0	0	1	4	3.4	0.910
Meningococcal Disease	0	0	0	0	0	1.0	0.268
Mumps	0	1	0	1	2	3.2	0.856
Pertussis	3	5	21	13	54	50.4	13.484
Q fever, chronic	0	0	0	0	0	0.2	0.054
Salmonellosis	0	7	3	10	61	47.8	12.788
Shigellosis	0	3	3	11	25	26.2	7.010
Spotted Fever Rickettsiosis	0	0	0	0	5	2.2	0.589
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	0	0	0.2	0.054
Streptococcal Dis, Group A, Invasive	2	1	1	4	25	15.2	4.067
Streptococcal Dis, Group B, in Newborn	1	0	1	0	2	1.6	0.428
Streptococcal Toxic Shock Syndrome	0	0	0	0	0	0.8	0.214
Streptococcus pneumoniae – inv. antibiotic resistance unknown or non-resistant	0	2	1	7	29	30.6	8.187
Streptococcus pneumo – inv. antibiotic resistant/intermediate	1	3	3	3	10	13.4	3.585
Syphilis, Total	1	3	2	3	33	19.4	5.190
Syphilis, Primary, Secondary and Early Latent	1	2	2	2	19	11.8	3.157
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.2	0.054
Tuberculosis	0	0	1	0	5	2.4	0.642
Varicella	2	3	5	3	16	24.2	6.474
Vibriosis - other (not cholera)	0	0	0	0	1	2.2	0.589
Vibrio parahaemolyticus infection	0	0	0	0	0	0.0	0.000
West Nile Virus	0	0	0	0	8	2.2	0.589
Yersiniosis	0	1	1	1	3	6.4	1.712
Zika virus infection	0	0	0	0	0	1.0	0.268

Source: Ohio Disease Reporting System, downloaded 3/2019. Rates are per 100K population and based on 5 yr average incidence '14 – '18.