

EPI GRAM March, 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: Multistate Outbreak of Salmonella Carrau Linked to Pre-cut Melons

On April 12, 2019, Caito Foods LLC recalled external pre-cut watermelon, honeydew melon, cantaloupe, and pre-cut fruit medley products due to epidemiologic and traceback evidence indicating that this produce is the likely source a multistate outbreak of *Salmonella carrau*. The products were distributed in Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, New York, North Carolina, Ohio, Pennsylvania, Tennessee, West Virginia, and Wisconsin. As of April 24, 2019, 117 cases have been identified, with Ohio reporting the highest incidence (n=31). The first case was identified on March 4, 2019 and the outbreak is ongoing, even though the product has been recalled as of April 12, 2019. Thirty-two (27%) of cases have been hospitalized. Most of the cases are adults over 50 years of age.

Salmonella carrau is a rare type of Salmonella, but has been historically seen in imported melons. Most people infected with Salmonella carrau develop diarrhea, fever, and stomach cramps 12 to 72 hours after being exposed to the bacteria. The illness usually lasts 4 to 7 days, and most people recover without treatment. In some people, the illness may be so severe that the patient needs to be hospitalized. Salmonella infection may spread from the intestines to the bloodstream and then to other places in the body. Children younger than 5 years, adults older than 65 years, and people with weakened immune systems are more likely to have a severe illness.

For more information: <https://www.cdc.gov/salmonella/carrau-04-19/index.html>

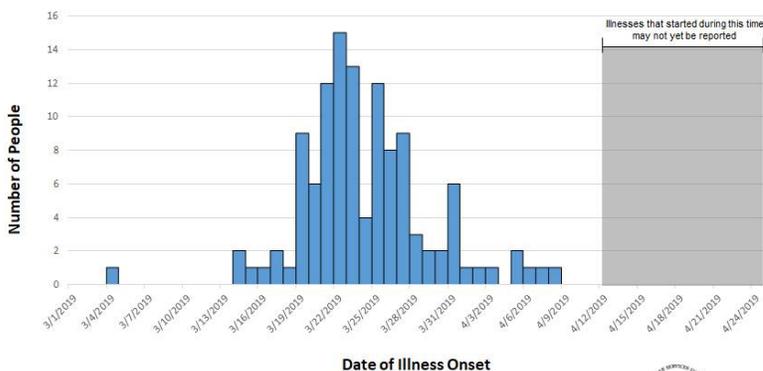


Figure 1: Timeline of illness onset
Source: CDC

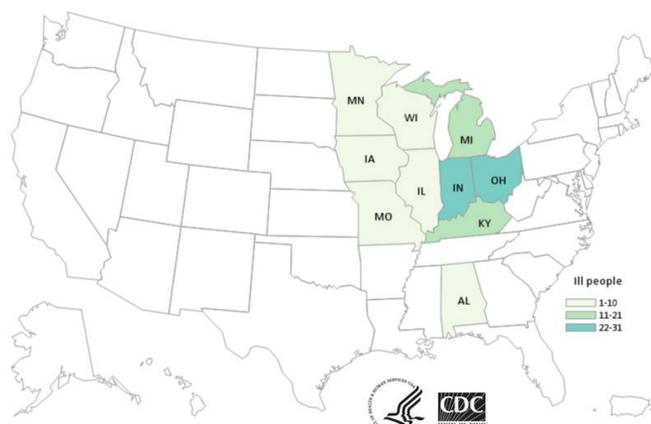


Figure 2: Distribution of cases among states
Source: CDC

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

	March 2019				April 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				116	0	9	N/A
Mold Count	Data collected seasonally and currently not available				1492	0	230	Low
Air Quality Index	61	41	47	(6) Moderate	77	34	45	(6) 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

	March 2019	YTD 2019	2018
Live Births	354	1019	4052*
Births to Teens	35	79	230*
Deaths	357	1110	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	
	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD
Campylobacteriosis	0	0	0	5	0	2	3	17	3	24
Chlamydia infection	10	34	70	206	15	44	54	172	149	456
CP-CRE	0	0	0	1	1	2	0	0	1	3
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	2	0	2
Cryptosporidiosis	0	1	0	1	0	0	0	6	0	8
E. coli, Shiga Toxin-Producing	0	0	0	0	0	2	0	2	0	4
Giardiasis	0	0	1	1	0	1	0	3	1	5
Gonococcal infection	2	8	35	93	9	18	14	39	60	158
Haemophilus influenzae (invasive disease)	0	0	0	0	0	0	0	1	0	1
Hepatitis A	0	0	0	2	1	1	1	1	2	4
Hepatitis B (including delta) - acute	0	0	1	1	0	0	0	0	1	1
Hepatitis B (including delta) - chronic	0	0	3	7	0	2	5	10	8	19
Hepatitis C - acute	0	0	1	1	0	0	0	0	1	1
Hepatitis C - chronic	3	6	12	38	1	6	13	43	29	93
Hepatitis E	0	0	0	0	0	0	0	1	0	1
Influenza-associated hospitalization	9	12	54	98	9	29	114	220	186	359
Legionellosis - Legionnaires' Disease	0	0	0	1	0	1	1	2	1	4
Listeriosis	0	0	0	0	0	0	1	1	1	1
Lyme Disease	0	0	0	0	0	0	1	3	1	3
Meningitis - aseptic/viral	0	0	0	0	0	1	0	0	0	1
Mumps	0	0	0	0	0	0	1	1	1	1
Pertussis	0	2	0	7	0	2	0	10	0	21
Salmonellosis	0	0	0	1	0	0	1	3	1	4
Shigellosis	0	0	1	1	0	0	0	3	1	4
Streptococcal - Group A -invasive	0	0	0	1	1	1	2	5	3	7
Streptococcal - Group B - in newborn	0	0	0	0	0	0	0	1	0	1
Streptococcus pneumoniae - inv antibiotic resistance unknown or non-resistant	0	0	2	2	0	0	4	5	6	7
Streptococcus pneumoniae – inv antibiotic resistant/intermediate	0	1	1	1	0	1	1	2	2	5
Syphilis, Total	0	1	0	0	0	0	1	2	1	3
➤ Syphilis, Primary, Secondary & Early Latent	0	1	0	0	0	0	1	2	1	3
Tuberculosis	0	0	0	1	0	0	0	0	0	1
Varicella	0	0	0	0	0	0	2	7	2	7
Vibriosis (not cholera)	0	0	0	0	0	1	0	0	0	1
Yersiniosis	0	0	0	0	0	0	0	1	0	1
Total	24	65	181	469	37	114	219	563	461	1211

Source: Ohio Disease Reporting System, downloaded 05/04/2019



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Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)

	Mar-19	Mar-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	1	0	1	2	0.8	0.214
Brucellosis	0	0	0	0	0	0.2	0.054
Campylobacteriosis	3	4	24	8	85	77.6	20.761
Chlamydia	149	139	456	437	1711	1720.0	460.169
CP-CRE	1	1	3	1	26	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	0	2	8	6	33	33.8	9.043
Cyclosporiasis	0	0	0	0	8	3.0	0.803
E. coli, Shiga Toxin-Producing	0	0	4	2	17	14.0	3.746
Giardiasis	1	2	5	6	23	21.8	5.832
Gonorrhea	60	48	158	141	642	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	0	4	1	11	7.6	2.033
Hepatitis B, Perinatal	0	0	0	0	1	1.8	0.482
Hepatitis B, Acute	1	1	1	2	11	6.4	1.712
Hepatitis B, Chronic	8	6	19	18	84	57.6	15.410
Hepatitis C, Acute	1	0	1	2	6	6.2	1.659
Hepatitis C, Chronic	29	32	93	83	306	313.0	83.740
Hepatitis E	0	0	1	0	0	0.2	0.054
Influenza-associated hospitalization	186	74	359	521	595	379.0	101.398
LaCrosse virus disease	0	0	0	0	4	1.0	0.268
Legionellosis	1	0	4	1	33	18.0	4.816
Listeriosis	1	0	1	0	1	1.0	0.268
Lyme Disease	1	0	3	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	4	1	11	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	1	0	1	1	2	3.2	0.856
Pertussis	0	5	21	18	54	50.4	13.484
Q fever, chronic	0	0	0	0	0	0.2	0.054
Salmonellosis	1	4	4	15	61	47.8	12.788
Shigellosis	1	6	4	18	25	26.2	7.010
Spotted Fever Rickettsiosis	0	0	0	0	5	2.2	0.589
Staphylococcal aureus - (VISA)	0	0	0	0	0	0.2	0.054
Streptococcal Dis, Group A, Invasive	3	4	7	8	25	15.2	4.067
Streptococcal Dis, Group B, in Newborn	0	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	6	6	7	13	29	30.6	8.187
Streptococcus pneumo - inv antibiotic resistant/intermediate	2	0	5	3	10	13.4	3.585
Syphilis, Total	1	5	3	7	33	19.4	5.190
➤ Syphilis, Primary, Secondary and Early Latent	1	4	3	5	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	1	7	4	16	24.2	6.474
Vibriosis - other (not cholera)	0	0	1	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	0	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 05/04/2019 Rates are per 100K population and based on 5 yr average incidence '14 – '18.