

EPI GRAM August, 2018

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: Influenza

Each year beginning in the fall, the United States experiences a nationwide epidemic of influenza. Influenza, commonly known as the flu, is a viral respiratory illness that is prevalent worldwide. Influenza presents with normal respiratory symptoms such as fever, cough, runny nose, fatigue, body ache, chills, etc. However, severe complications can result from influenza infection; each year an estimated 10-80,000 people die from influenza-related complications in the United States. The flu is spread when aerosolized droplets coughed, sneezed, or otherwise spread by an infected person come into contact with another person. In rare cases, variant strains of influenza can be passed from animal hosts such as swine or birds to humans.

The 2017-2018 influenza season was one of the most severe in recent memory. An estimated 80,000 Americans, including 180 children, died from influenza-related complications and over 900,000 were hospitalized during this season, all of which exceed previously maintained records. This season was also marked by high severity across all age groups. With the influenza season looming, the best way those in Stark County can protect themselves against the flu is by getting the seasonal flu vaccine. Each year the influenza vaccine has its components adjusted to best protect against the viral strains most likely to be circulating during the following season. High uptake of vaccination in a local population will not only reduce flu incidence among healthy people but also protect vulnerable groups such as infants, pregnant women, and those who cannot get vaccinated for medical reasons. Regular, thorough hand washing and remaining home from work/school while ill are additional actions that everyone can take to stop the spread of influenza. Although last year showed how deadly the annual flu epidemic can be, by taking collective action we can reduce the scope and severity of influenza incidence in our community.

TAKE 3 STEPS TO #FIGHTFLU

1 #GETVACCINATED AGAINST FLU EACH YEAR

An annual flu vaccine is recommended for everyone 6 months and older

A flu vaccine can help reduce:

flu illness

missed work, school, or other activities/events

hospitalizations and death

2 PRACTICE HEALTHY HABITS

Wash your hands often with soap and water or use alcohol-based hand sanitizer

Cover your coughs and sneezes

Stay home if you are sick and try to avoid contact with sick people

3 TAKE FLU ANTIVIRAL DRUGS IF PRESCRIBED

If you do get the flu, call a healthcare professional as soon as possible, as flu antivirals may be prescribed to treat your illness

Antiviral drugs can make illness milder, shorten the time you are sick, and may also prevent serious flu-related complications

Image via National Foundation for Infectious Diseases

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

	August 2018				August 2017			
	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	163	1	42	N/A	75	5	15	N/A
Mold Count	6,680	2,220	4,100	1 (Moderate)	6,100	990	2,385	23 (Low)
Air Quality Index	71	36	51	12 (Moderate)	74	35	53	14 (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

	AUG 2018	YTD 2018	2017
Live Births	356	2871	4014*
Births to Teens	22	208	271*
Deaths	273	2964	4475*

* Birth and death data is preliminary

Table 3 Stark County Crude Birth Rate and Death Rates

	2013	2014	2015	2016	2017*
Birth	11.3	11.3	11.2	11.3	10.7
Death	11.3	11.4	11.6	11.7	11.9

*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population. 2017 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	
	AUG	YTD	AUG	YTD	AUG	YTD	AUG	YTD	AUG	YTD
Anaplasmosis	0	0	0	1	0	0	0	1	0	2
Babesiosis	0	0	0	0	0	0	0	2	0	2
Campylobacteriosis	1	1	2	15	0	7	8	37	11	60
Chlamydia infection	6	77	63	480	12	103	62	462	143	1122
CP-CRE	0	0	0	8	3	3	0	4	3	15
Cryptosporidiosis	0	3	2	7	0	1	4	13	6	24
Cyclosporiasis	0	0	0	0	0	0	1	8	1	8
E. coli, Shiga Toxin-Producing	0	0	0	4	0	1	2	7	2	12
Giardiasis	0	2	0	5	0	1	5	8	5	16
Gonococcal infection	1	22	37	225	7	33	15	108	60	388
Haemophilus influenzae (invasive disease)	0	0	0	1	0	0	1	2	1	3
Hepatitis A	0	0	1	2	0	0	1	3	1	5
Hepatitis B (including delta) – acute	0	0	0	6	0	0	0	1	0	7
Hepatitis B (including delta) - chronic	0	3	0	16	1	5	5	36	6	60
Hepatitis C - acute	0	0	2	5	0	0	1	1	3	6
Hepatitis C – chronic	4	20	6	84	8	29	11	96	29	229
Influenza-associated hospitalization	0	23	0	150	0	44	0	363	0	580
LaCrosse virus disease	0	0	1	1	0	0	0	2	1	3
Legionellosis - Legionnaires' Disease	0	0	3	9	1	2	0	6	4	17
Lyme Disease	0	0	0	1	2	3	8	27	10	31
Meningitis - aseptic/viral	0	3	3	6	0	2	6	20	9	31
Meningitis - bacterial (Not N. meningitidis)	0	0	0	2	0	1	0	0	0	3
Mumps	0	0	0	1	0	0	0	1	0	2
Pertussis	0	8	0	2	0	5	2	18	2	33
Salmonellosis	0	1	0	1	1	5	3	29	4	36
Shigellosis	0	0	1	9	1	5	0	10	2	24
Spotted Fever Rickettsiosis, including RMSF	0	0	0	0	0	0	0	3	0	3
Streptococcal - Group A -invasive	0	1	0	8	1	1	0	13	1	23
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	2	2	7	0	0	0	12	2	21
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	1	1	4	1	5
Syphilis, Total	0	1	2	7	0	1	0	10	2	19
Syphilis, Primary, Secondary and Early Latent	0	0	2	6	0	2	0	3	2	11
Tuberculosis	0	0	0	0	0	0	1	2	1	2
Varicella	0	0	2	4	0	0	1	7	3	11
Yersiniosis	0	1	0	0	0	0	0	0	0	1
Total	11	169	106	1074	27	255	105	1326	249	2824

Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)	AUG-18	AUG-17	YTD 2018	YTD 2017	All of 2017	5 Yr Annual Average	Rate
Amebiasis	0	0	0	1	1	0.4	0.107
Anaplasmosis	0	0	2	0	0	0.4	0.107
Babesiosis	0	0	2	1	1	0.4	0.107
Bruceellosis	0	0	0	0	1	0.2	0.054
Campylobacteriosis	11	8	60	53	88	74.0	19.807
Chlamydia	143	157	1122	1251	1804	1666.6	446.078
Coccidioidomycosis	0	0	0	0	0	0.4	0.107
Creutzfeldt-Jakob Disease	0	0	0	1	3	1.2	0.321
Cryptosporidiosis	6	7	24	19	30	32.4	8.672
Cyclosporiasis	1	0	8	2	2	1.6	0.428
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	2	1	12	8	12	11.0	2.944
Giardiasis	5	1	16	12	18	24.6	6.584
Gonorrhea	60	42	388	360	542	574.0	153.635
Haemophilus influenzae , Invasive	1	0	3	7	9	7.0	1.874
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.054
Hepatitis A	2	1	5	7	10	7.0	1.874
Hepatitis B, Perinatal	0	0	0	0	1	1.8	0.482
Hepatitis B, Acute	0	0	7	6	8	5.6	1.499
Hepatitis B, Chronic	6	5	60	41	66	45.0	12.045
Hepatitis C, Acute	3	0	6	1	2	6.6	1.767
Hepatitis C, Chronic	29	26	229	211	300	295.4	87.363
Hepatitis E	0	0	0	0	0	0.2	0.054
Influenza-associated hospitalization	0	0	580	284	413	326.4	87.363
Influenza-associated pediatric mortality	0	0	0	0	0	0.2	0.054
LaCrosse virus disease	1	0	3	0	0	0.2	0.054
Legionellosis	4	2	17	12	15	15.4	4.122
Listeriosis	1	0	1	0	1	1.2	0.321
Lyme Disease	10	6	31	22	29	19.4	5.193
Malaria	0	0	0	0	0	0.6	0.161
Measles (indigenous to Ohio)	0	0	0	0	0	2.0	0.535
Meningitis, Aseptic	9	4	31	24	43	30.2	8.083
Meningitis, Other Bacterial	0	0	3	0	3	3.6	0.964
Meningococcal Disease	0	0	0	0	0	1.0	0.268
Mumps	0	0	2	3	3	2.8	0.749
Pertussis	2	5	33	13	41	42.8	11.456
Q fever, acute	0	0	0	0	0	0.4	0.107
Q fever, chronic	0	0	0	0	1	0.2	0.054
Salmonellosis	4	5	36	27	39	44.8	11.991
Shigellosis	2	0	24	3	23	38.6	10.332
Spotted Fever Rickettsiosis	0	3	3	4	6	1.2	0.321
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	0	0	0.2	0.054
Streptococcal Dis, Group A, Invasive	1	1	23	16	22	13.0	3.480
Streptococcal Dis, Group B, in Newborn	1	0	2	1	1	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	2	3	21	26	33	31.2	8.351
Streptococcus pneumo – inv. antibiotic resistant/intermediate	1	0	5	12	16	16.8	4.497
Syphilis, Total	2	4	24	28	29	15.4	4.122
Syphilis, Primary, Secondary and Early Latent	2	3	11	11	13	9.6	2.570
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.8	0.214
Tuberculosis	1	0	2	2	3	1.4	0.375
Typhus Fever	0	0	0	0	0	0.2	0.054
Varicella	3	0	11	7	20	25.6	6.852
Vibriosis - other (not cholera)	0	0	0	2	2	2.2	0.589
Vibrio parahaemolyticus infection	0	0	0	0	0	0.2	0.054
West Nile Virus	1	0	1	0	1	0.6	0.161
Yersiniosis	0	2	1	8	9	6.0	1.606
Zika virus infection	0	0	0	0	0	1.0	0.268

Source: Ohio Disease Reporting System, downloaded 05/16/2018. Rates are per 100K population and based on 5 yr average incidence '13 – '17.