

EPI GRAM November, 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: 1918 Pandemic and Media Coverage

Lessons To Be Learned from the 1918 Pandemic and Media Coverage

With the centenary of the horrible “Spanish Flu” that killed millions worldwide in 1918-1919, the media has been awash with coverage of that event. And this week’s “On the Media” radio show from National Public Radio took a very well researched and in-depth look into infections over the past 100 years and how public health officials and governmental agencies have recorded responses raging from dismal failures to incredible successes. A key point is that a Pew Research Center study from last year placed the level of trust Americans have in public health officials at only 55 percent. That might seem low, until you realize that Americans trust government, media and politicians far less.

For anyone who cares about public health and our response to pandemics (and potential pandemics) this is an interesting story, and we encourage you to take a listen: <https://www.npr.org/podcasts/452538775/on-the-media> (Scroll down December 14th and Plague of Suspicion podcast). Enjoy!!

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

	November 2018				December 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	Data collected seasonally and currently				Data collected seasonally and currently			
Mold Count	not available				not available			
Air Quality Index	75	16	32	(5) Moderate	72	18	39.5	(7) 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> <http://www.aaaai.org/global/nab-pollen-counts/reading-the-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

	Nov 2018	YTD 2018	2017
Live Births	333	3717	4014*
Births to Teens	23	213	271*
Deaths	334	3913	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.



Alliance City Health Department
cityofalliance.com/health



Canton City Public Health
cantonhealth.org



Massillon City Health Department
massillonohio.com/health



Stark County Health Department
starkhealth.org

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County, OH (Provisional Data)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Nov	YTD	Nov	YTD	Nov	YTD	Nov	YTD	Nov	YTD
Amebiasis	0	0	0	0	0	1	0	0	0	1
Babesiosis	0	0	0	0	0	0	0	1	0	1
Brucellosis	0	0	0	1	0	0	0	0	0	1
Campylobacteriosis	1	5	5	26	0	2	6	52	12	85
Chlamydia infection	9	113	51	743	8	180	66	650	134	1686
Creutzfeldt-Jakob Disease	0	1	0	0	0	0	1	1	1	2
Cryptosporidiosis	0	3	0	2	0	3	1	19	1	27
Cyclosporiasis	0	0	0	0	0	0	0	2	0	2
E. coli	0	0	0	1	0	1	1	9	1	11
Giardiasis	0	2	2	3	0	1	1	12	3	18
Gonococcal infection	3	20	30	305	2	38	16	140	51	503
Haemophilus influenzae (invasive disease)	0	0	0	2	0	0	0	6	0	8
Hepatitis A	0	1	0	0	0	1	0	7	0	9
Hepatitis B - Perinatal Infection	0	0	0	0	0	0	0	3	0	3
Hepatitis B - acute	0	2	0	2	0	2	0	1	0	7
Hepatitis B - chronic	0	2	1	19	0	4	2	33	3	58
Hepatitis C - acute	0	0	1	2	0	0	0	0	1	2
Hepatitis C - chronic	1	28	14	102	6	34	16	122	37	286
Immigrant Investigation	0	0	0	0	0	0	0	1	0	1
Influenza-associated hospitalization	3	21	2	83	3	26	16	180	24	310
Legionellosis - Legionnaires' Disease	0	1	1	6	0	0	0	8	1	15
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	2	0	5	0	1	2	19	2	27
Meningitis - aseptic/viral	2	2	1	14	0	2	2	23	5	41
Meningitis - bacterial	0	0	0	1	0	1	0	0	0	2
Mumps	0	0	0	1	0	1	0	1	0	3
Pertussis	0	2	1	6	0	0	0	9	1	17
Q fever, chronic	0	0	0	0	0	0	0	1	0	1
Salmonellosis	0	4	1	4	0	0	4	31	5	39
Shigellosis	0	0	6	10	0	0	1	3	7	13
Spotted Fever Rickettsiosis,including RMSF	0	0	0	1	0	1	0	4	0	6
Streptococcal - Group A -invasive	0	0	2	5	0	2	2	13	4	20
Streptococcal - Group B - in newborn	0	0	0	0	0	0	0	1	0	1
Streptococcus pneumoniae - inv antibiotic resistance unknown or non-resistant	1	3	0	7	0	4	0	18	1	32
Streptococcus pneumoniae - inv antibiotic resistant/intermediate	0	2	0	5	0	4	1	3	1	14
Syphilis, Total	1	3	0	12	0	1	0	9	1	25
Syphilis, Primary, Secondary and Early Latent	0	1	0	7	0	2	0	2	0	12
Tuberculosis	0	0	0	1	0	0	1	2	1	3
Varicella	0	1	0	3	0	3	0	7	0	14
Vibriosis (not cholera)	0	0	0	0	0	0	0	2	0	2
West Nile virus disease (also current infection)	0	0	0	0	0	0	0	1	0	1
Yersiniosis	0	0	1	2	0	0	0	7	1	9
Total	20	218	124	1378	20	314	141	1405	297	3282

Source: Ohio Disease Reporting System, downloaded 12/17/2018.

Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)	Nov-18	Nov-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
Brucellosis	0	0	0	1	1	0.2	0.054
Campylobacteriosis	7	12	84	85	88	74.0	19.807
Chlamydia	149	132	1588	1684	1803	1666.6	446.078
CP-CRE	1	0	19	0	0	-	-
Coccidioidomycosis	0	0	0	0	0	0.4	0.107
Creutzfeldt-Jakob Disease	1	1	1	2	3	1.2	0.321
Cryptosporidiosis	2	1	33	27	30	32.4	8.672
Cyclosporiasis	0	0	8	2	2	1.6	0.428
E. coli, Shiga Toxin-Producing	2	1	16	11	12	11.0	2.944
Giardiasis	1	3	19	18	18	24.6	6.584
Gonorrhea	57	51	581	503	542	574.0	153.635
Haemophilus influenzae , Invasive	0	0	3	8	9	7.0	1.874
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.054
Hepatitis A	0	0	10	9	10	7.0	1.874
Hepatitis B, Perinatal	0	0	1	0	0	1.8	0.482
Hepatitis B, Acute	1	0	10	8	9	5.6	1.499
Hepatitis B, Chronic	4	3	74	58	66	45.0	12.045
Hepatitis C, Acute	0	0	5	1	1	6.6	1.767
Hepatitis C, Chronic	30	32	303	281	303	295.4	87.363
Hepatitis E	0	0	0	0	0	0.2	0.054
Influenza-associated hospitalization	1	24	585	310	413	326.4	87.363
Influenza-associated pediatric mortality	0	0	0	0	0	0.2	0.054
LaCrosse virus disease	0	0	4	0	0	0.2	0.054
Legionellosis	5	1	32	15	15	15.4	4.122
Listeriosis	0	0	1	1	1	1.2	0.321
Lyme Disease	1	1	36	26	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	7	5	43	41	43	30.2	8.083
Meningitis, Other Bacterial	0	0	4	2	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	3	1	44	17	41	42.8	11.456
Q fever, acute	0	0	0	0	0	0.4	0.107
Q fever, chronic	0	0	0	1	1	0.2	0.054
Salmonellosis	3	5	58	39	39	44.8	11.991
Shigellosis	0	7	25	13	23	38.6	10.332
Spotted Fever Rickettsiosis	0	0	5	6	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	0	4	24	20	22	13.0	3.480
Streptococcal Dis, Group B, in Newborn	0	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/non-resistant	4	1	25	32	33	31.2	8.351
Streptococcus pneumo - inv antibiotic resistant/intermediate	2	1	9	14	16	16.8	4.497
Syphilis, Total	2	1	32	27	31	15.4	4.122
Syphilis, Primary, Secondary and Early Latent	2	0	19	14	14	9.6	2.570
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.8	0.214
Tuberculosis	1	1	3	3	3	1.4	0.375
Thyphoid Fever	0	0	0	0	0	0.2	0.054
Varicella	1	0	14	14	20	25.6	6.852
Vibriosis - other (not cholera)	0	0	1	2	2	2.2	0.589
Vibrio parahaemolyticus infection	0	0	0	0	0	0.2	0.054
West Nile Virus	0	0	8	1	1	0.6	0.161
Yersiniosis	0	1	3	9	9	6.0	1.606
Zika virus infection	0	0	0	0	0	1.0	0.268

Source: Ohio Disease Reporting System, downloaded 12/17//2018. Rates are per 100K population and based on 5 yr average incidence '13 – '17.