

EPI GRAM July, 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.



Public Health
Prevent. Promote. Protect.

Monthly Highlight: Hepatitis B – Increases in Stark County

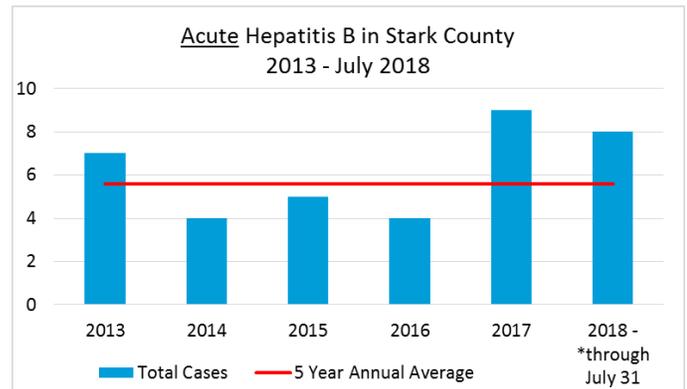
At a time when Ohio is experiencing a state-wide community outbreak of hepatitis A (<https://www.odh.ohio.gov/hepa>) among high-risk populations, and many jurisdictions are increasing prevention and testing initiatives for hepatitis C, hepatitis B is also increasing among similar high risk populations, even though the mode of transmission is more inline with hepatitis C (bloodborne).

The hepatitis B virus is spread when blood, semen or other body fluid infected with the hepatitis B virus enters the body of a person who is not infected. Hepatitis B virus is not spread through food or water, sharing eating utensils, breastfeeding, hugging, kissing, hand holding, coughing or sneezing. The best way to prevent hepatitis B is by getting vaccinated. The hepatitis B vaccine is safe and effective. Completing the series of shots is needed for full protection. For more disease information, visit:

<https://www.cdc.gov/hepatitis/hbv/index.htm>

Hepatitis B in Stark County –

Acute - Stark County historically sees 5-6 cases of acute hepatitis B per year based on 2013 – 2017 data. In 2017, Stark County reported 9 cases of acute hepatitis B. Through July 31, 2018, Stark County has recorded 8 cases of hepatitis B, with a cluster of 3 cases in July. None of the July cases could be linked, although each case did identify a risk factor for exposure. Distribution of cases before that were one case per month. Conservatively, if this trend continues, we could end the year with 13-15 cases of acute hepatitis B, which would be higher than any previous year.



Chronic – Stark County historically sees 45 cases of chronic hepatitis B per year based on 2013 – 2017 data. In 2017, Stark County reported 66 cases of hepatitis B. Average monthly case counts of newly diagnosed chronic hepatitis B cases have increased every year, with 2017 reporting 5.5 cases per month across the county. Through July 31, 2018, the monthly average case count is 7.6 cases, representing a 42% increase from 2017. Conservatively, if this trend continues through the end of 2018, Stark County would record 91 cases for the year, which is a rate 2x that of the 5 year annual average.

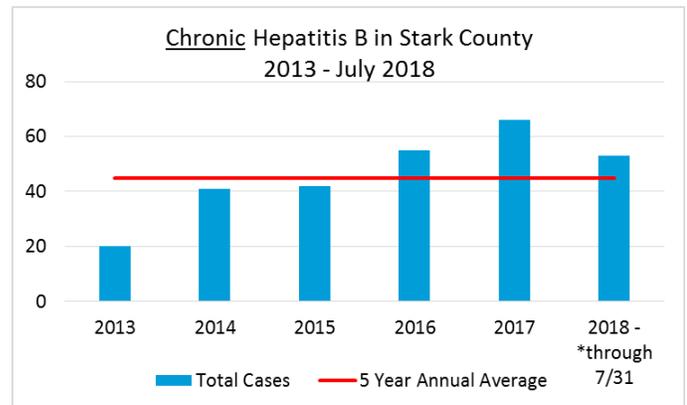


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	May 2018				June 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	17	1	9	N/A	75	5	15	N/A
Mold Count	5350	1080	2805	Good (0)	6100	990	2385	Good (0)
Air Quality Index	101	39	57	Unhealthy for sensitive groups (1)	74	35	53	Moderate (9)

**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

	May 2018	YTD 2018	2017
Live Births	336	2366	4014*
Births to Teens	23	139	271*
Deaths	306	2582	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	
	Jul	YTD	Jul	YTD	Jul	YTD	Jul	YTD	Jul	YTD
	Anaplasmosis	0	0	0	1	0	0	1	1	1
Babesiosis	0	0	0	0	0	0	0	2	0	2
Campylobacteriosis	0	0	4	13	2	7	12	29	18	49
Chlamydia infection	10	71	48	418	10	91	63	400	131	980
CP-CRE	0	0	0	4	0	0	3	4	3	8
Cryptosporidiosis	3	3	1	5	0	1	3	9	7	18
Cyclosporiasis	0	0	0	0	0	0	6	7	6	7
E. coli, Shiga Toxin-Producing	0	0	1	4	0	1	2	5	3	10
Giardiasis	1	2	0	5	0	1	1	3	2	11
Gonococcal infection	6	21	33	188	7	26	11	93	57	328
Haemophilus influenzae (invasive disease)	0	0	0	1	0	0	0	1	0	2
Hepatitis A	0	0	0	1	0	0	0	2	0	3
Hepatitis B - acute	0	0	3	7	0	0	0	1	3	8
Hepatitis B - chronic	0	3	4	15	1	4	5	31	10	53
Hepatitis C - acute	1	1	0	3	0	0	0	0	1	4
Hepatitis C - chronic	4	15	12	79	4	22	19	85	39	201
Immigrant Investigation	0	1	0	0	0	1	0	0	0	2
Influenza - ODH Lab Results	0	0	0	0	0	0	0	1	0	1
Influenza-associated hospitalization	0	23	0	150	0	44	0	363	0	580
LaCrosse virus disease	0	0	0	0	0	0	1	2	1	2
Legionellosis - Legionnaires' Disease	0	0	0	6	0	1	3	6	3	13
Lyme Disease	0	0	0	1	0	1	11	19	11	21
Meningitis - aseptic/viral	0	3	1	3	0	2	3	14	4	22
Meningitis - bacterial (Not N. meningitidis)	0	0	1	2	0	1	0	0	1	3
Mumps	0	0	0	1	0	0	0	1	0	2
Pertussis	3	8	1	2	0	5	1	16	5	31
Salmonellosis	1	1	0	1	1	4	6	26	8	32
Shigellosis	0	0	1	8	0	4	0	10	1	22
Spotted Fever Rickettsiosis, including RMSF	0	0	0	0	0	0	1	3	1	3
Streptococcal - Group A -invasive	0	1	0	8	0	0	0	13	0	22
Streptococcal - Group B - in newborn	0	0	1	1	0	0	0	0	1	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	2	1	5	0	0	0	12	1	19
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	1	0	3	0	4
Syphilis, Total	0	1	0	4	0	1	0	8	0	14
Syphilis, Primary, Secondary and Early Latent	0	0	0	2	0	1	0	3	0	6
Tuberculosis	0	0	0	0	0	0	0	1	0	1
Varicella	0	0	0	2	0	0	2	7	2	9
Yersiniosis	0	1	0	0	0	0	0	0	0	1
Total	29	157	112	940	25	219	154	1181	320	2497

Source: Ohio Disease Reporting System, downloaded 08/09/2018.



Alliance City Health
Department
cityofalliance.com/health



Canton City Health
Department
cantonhealth.org



Massillon City Health
Department
massillonohio.com/health



Stark County Health
Department
starkhealth.org

Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)	Jul-18	Jul-17	YTD 2018	YTD 2017	All of 2017	5 Yr Annual Average	Rate
Amebiasis	0	0	0	1	1	0.4	0.107
Anaplasmosis	1	0	2	0	0	0.4	0.107
Babesiosis	0	0	2	1	1	0.4	0.107
Brucellosis	0	0	0	0	1	0.2	0.054
Campylobacteriosis	18	16	49	45	88	74.0	19.807
Chlamydia	131	138	980	1094	1803	1666.6	446.078
CP-CRE	3	0	8	0	0	-	-
Coccidioidomycosis	0	0	0	0	0	0.4	0.107
Creutzfeldt-Jakob Disease	0	1	0	1	3	1.2	0.321
Cryptosporidiosis	7	2	18	12	30	32.4	8.672
Cyclosporiasis	6	1	7	2	2	1.6	0.428
E. coli, Shiga Toxin-Producing	3	4	10	7	12	11.0	2.944
Giardiasis	2	2	11	11	18	24.6	6.584
Gonorrhea	57	38	328	318	542	574.0	153.635
Haemophilus influenzae , Invasive	0	0	2	7	9	7.0	1.874
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.054
Hepatitis A	0	1	3	6	10	7.0	1.874
Hepatitis B, Perinatal	0	0	0	0	0	1.8	0.482
Hepatitis B, Acute	3	1	8	6	9	5.6	1.499
Hepatitis B, Chronic	10	3	53	36	66	45.0	12.045
Hepatitis C, Acute	1	0	4	1	1	6.6	1.767
Hepatitis C, Chronic	39	14	201	185	306	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	2	0	0	0.2	0.054
Legionellosis	3	4	13	10	15	15.4	4.122
Listeriosis	0	0	0	0	1	1.2	0.321
Lyme Disease	11	4	21	16	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	4	4	22	20	43	30.2	8.083
Meningitis, Other Bacterial	1	0	3	0	3	3.6	0.964
Meningococcal Disease	0	0	0	0	0	1.0	0.268
Mumps	0	1	2	3	3	2.8	0.749
Pertussis	5	0	31	8	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	8	6	32	22	39	44.8	11.991
Shigellosis	1	0	22	3	23	38.6	10.332
Spotted Fever Rickettsiosis	1	0	3	1	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	0	22	15	22	13.0	3.480
Streptococcal Dis, Group B, in Newborn	1	0	1	1	1	1.6	0.428
Streptococcal Toxic Shock Syndrome	0	0	0	0	0	0.8	0.214
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	2	19	23	33	31.2	8.351
Streptococcus pneumo - inv antibiotic resistant/intermediate	0	0	4	12	16	16.8	4.497
Syphilis, Total	0	1	14	16	31	15.4	4.122
Syphilis, Primary, Secondary and Early Latent	0	1	8	6	14	9.6	2.570
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.8	0.214
Tuberculosis	0	0	1	2	3	1.4	0.375
Thyphoid Fever	0	0	0	0	0	0.2	0.054
Varicella	2	2	9	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	0	0	0	0	1	0.6	0.161
Yersiniosis	0	0	1	6	9	6.0	1.606
Zika virus infection	0	0	0	0	0	1.0	0.268

Source: Ohio Disease Reporting System, downloaded 08/09/2018. Rates are per 100K population and based on 5 yr average incidence '13 – '17.