

# EPI GRAM February, 2017

## A Monthly Publication of the Stark Public Health Infrastructure Coalition

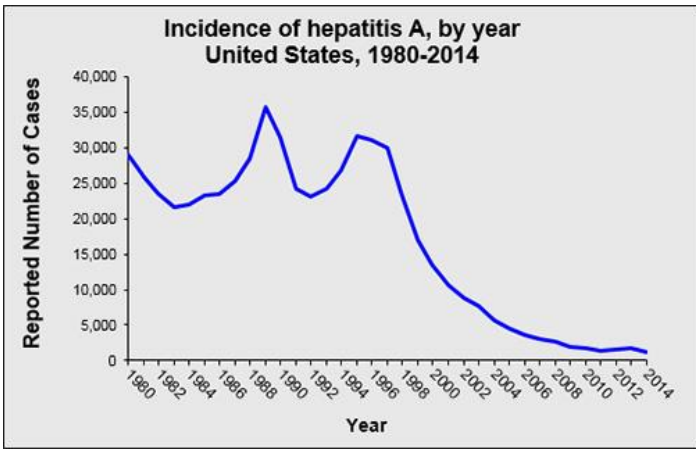
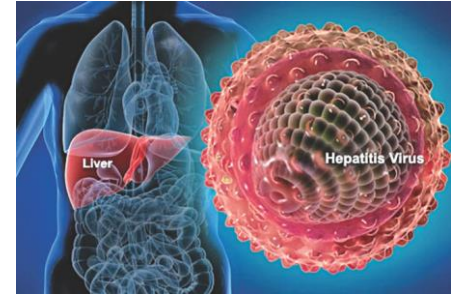


**Public Health**  
Prevent. Promote. Protect.

*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 Julia Wagner at 330.493.9914 or [Wagnerj@starkhealth.org](mailto:Wagnerj@starkhealth.org), or Amanda Archer at 330.489.3327 or [aarcher@cantonhealth.org](mailto:aarcher@cantonhealth.org).**

### Monthly Highlight: Hepatitis A

Hepatitis A is a viral infection causing inflammation of the liver. It presents itself through nausea, fever, abdominal pain, jaundice, and elevated liver enzymes. The infection can be confirmed through a positive serologic test for the Hepatitis A immunoglobulin (IgM) antibody that the body produces when it is fighting off the viral infection. On average it takes 28 days before the symptoms become evident after an individual is infected. In addition, of the children that become infected with the virus, most those under the age of six will never show any signs or symptoms. In general, symptoms can last less than two months. Though some may have a relapse an individual will not chronically have this virus.



As can be seen in the graph to the left, according to the Centers for Disease Control and Prevention (CDC) the incidence of hepatitis A has declined by 95% since the vaccine was first made available in 1995. The 2014 Annual Summary of Infectious Diseases Ohio reported that the state had a total of 27 new cases that year. So far in the first two months of this year, Stark County has reported three new cases. This would be almost half of the cases expected to be reported in Stark County this year according to the five year annual average. The five year annual average estimates six cases a year for Stark County.

Transmission occurs when an individual consumes either undercooked or contaminated food or water. Transmission can occur person to person from an infected close contact or sexual partner. New York City Health Department has issued an notice of increased cases among men who have sex with men. Vaccination with the complete two doses is the best form of prevention. Good hand hygiene along with environmental cleaning is also an effective way to prevent the spread of this virus. The virus can survive outside the human body for months. High heat or adequate chlorination can kill this virus. The CDC recommends using a solution of 1:100 dilution of household bleach for cleaning purposes.

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

	February 2017				March 2016			
	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.				430	3	32.5	N/A
Mold Count	Data collected seasonally and currently not available.				1,410	50	270	0 (Low)
Air Quality Index	73	17	34	6 (Moderate)	114	37	47.5	6 (Unhealthy for sensitive groups)

\*\*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](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. 2017	YTD 2017	2016
Live Births	273	608	4,190
Births to Teens	16	44	263
Deaths	267	703	4,356

\* Birth and death data may include non-county residents.

**Table 3 Stark County Crude Birth Rate and Death Rates**

	2011	2012	2013	2014	2015
Birth	10.8	10.9	11.2	12.0	12.3
Death	11.3	11.4	11.3	11.4	11.6

\*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population.

**Table 4: Jurisdictional Summary of Reportable Diseases in Stark County**

	Alliance City		Canton City		Massillon City		Stark County		Total	
	Feb.	YTD	Feb.	YTD	Feb.	YTD	Feb.	YTD	Feb.	YTD
Amebiasis	0	0	0	0	0	1	0	0	0	1
Campylobacteriosis	0	0	1	5	0	0	0	3	1	8
Chlamydia infection	12	23	59	146	23	40	59	120	153	329
Coccidioidomycosis	0	0	0	0	0	0	0	0	0	0
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	0	0	0
Cryptosporidiosis	0	0	1	1	0	0	0	0	1	1
Cyclosporiasis	0	0	0	0	0	0	0	0	0	0
E. coli, Shiga Toxin-Producing	0	0	1	1	0	0	0	0	1	1
Giardiasis	0	0	0	0	0	1	1	2	1	3
Gonococcal infection	2	3	31	60	3	7	20	31	56	101
Haemophilus influenzae	0	0	0	0	0	0	0	2	0	2
Hepatitis A	0	0	0	0	0	1	1	2	1	3
Hepatitis B – acute	1	1	0	0	0	0	0	0	1	1
Hepatitis B - chronic	0	0	3	4	1	1	6	8	10	13
Hepatitis B - perinatal	0	0	0	0	0	0	0	2	0	2
Hepatitis C - acute	0	0	0	0	0	0	0	0	0	0
Hepatitis C - chronic	6	9	12	29	3	9	13	31	34	78
Hepatitis E	0	0	0	0	0	0	0	0	0	0
Influenza-associated hospitalization	7	11	28	49	12	17	59	112	106	189
Influenza-associated pediatric mortality	0	0	0	0	0	0	0	0	0	0
LaCrosse Virus Disease	0	0	0	0	0	0	0	0	0	0
Legionellosis	0	1	0	1	0	0	0	0	0	2
Listeriosis	0	0	0	0	0	0	0	0	0	0
Lyme Disease	0	0	0	0	0	0	1	3	1	3
Malaria	0	0	0	0	0	0	0	0	0	0
Measles - indigenous to Ohio	0	0	0	0	0	0	0	0	0	0
Meningitis - aseptic/viral	0	0	0	2	0	0	0	4	0	6
Meningitis-bacterial (not N. meningitides)	0	0	0	0	0	0	0	0	0	0
Mumps	0	0	1	1	0	0	0	0	1	1
Pertussis	0	0	0	0	0	0	0	1	0	1
Q fever, acute	0	0	0	0	0	0	0	0	0	0
Salmonellosis	0	0	0	2	0	0	1	2	1	4
Shigellosis	0	0	0	1	0	0	0	0	0	1
Staphylococcal aureus	0	0	0	0	0	0	0	0	0	0
Streptococcal-Group A, invasive	0	0	1	1	0	0	2	5	3	6
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	1	2	5	0	1	1	4	3	11
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	1	0	1	0	1	0	0	0	3
Streptococcal toxic shock syndrome	0	0	0	0	0	0	0	0	0	0
Syphilis, Total	0	0	0	0	0	0	2	3	2	3
> Primary, Secondary and Early Latent	0	0	0	0	0	0	1	1	1	1
Tuberculosis	0	0	0	0	0	0	0	0	0	0
Varicella	0	0	0	1	0	0	0	0	0	1
Vibriosis (not cholera)	0	0	0	0	0	0	1	1	1	1
Yersiniosis	0	0	0	1	0	0	2	5	2	6
Zika Virus Disease	0	0	0	0	0	0	1	1	1	1
<b>Total</b>	<b>28</b>	<b>50</b>	<b>140</b>	<b>311</b>	<b>42</b>	<b>79</b>	<b>172</b>	<b>344</b>	<b>382</b>	<b>784</b>

Source: Ohio Disease Reporting System, downloaded 3/8/2017.

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

	Feb. 2017	Feb. 2016	YTD 2017	YTD 2016	All of 2016	5 Yr Annual Average	5 Yr. Annual Rate
Amebiasis	0	0	1	0	0	0.2	0.053
Babesiosis	0	0	0	0	0	0.2	0.053
Brucellosis	0	0	0	0	0	0.2	0.053
Campylobacteriosis	1	6	8	10	83	69.4	18.499
Chlamydia	153	167	329	332	1,899	1,611.4	429.518
Coccidioidomycosis	0	0	0	0	1	0.6	0.160
Creutzfeldt-Jakob Disease	0	0	0	0	2	0.6	0.160
Cryptosporidiosis	1	2	1	4	47	35.4	9.436
Cyclosporiasis	0	0	0	0	4	1.2	0.320
Dengue	0	0	0	0	0	0.2	0.053
Ehrlichiosis/ Anaplasmosis	0	0	0	0	1	0.4	0.107
Escherichia coli, Shiga Toxin-Producing	1	0	1	1	16	9.6	2.559
Giardiasis	1	1	3	2	25	28.6	7.623
Gonorrhea	56	62	101	112	678	594.8	158.544
Haemophilus influenzae , Invasive	0	0	2	1	5	6.8	1.813
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.053
Hepatitis A	1	0	3	0	3	6.2	1.653
Hepatitis B, Perinatal	0	0	2	0	4	1.6	0.426
Hepatitis B, Acute	1	0	1	1	4	4.8	1.279
Hepatitis B, Chronic	10	4	13	10	55	39.2	10.449
Hepatitis C, Acute	0	1	0	2	8	7.0	1.866
Hepatitis C, Chronic	34	23	78	51	328	279.0	74.367
Hepatitis E	0	0	0	0	1	0.2	0.053
Influenza-associated hospitalization	106	25	189	29	196	273.8	72.981
Influenza-associated pediatric mortality	0	0	0	0	0	0.2	0.053
LaCrosse virus disease	0	0	0	0	1	0.4	0.107
Legionellosis	0	2	2	2	16	15.6	4.158
Listeriosis	0	0	0	0	1	1.2	0.320
Lyme Disease	1	1	3	2	26	16.4	4.371
Malaria	0	1	0	1	1	0.6	0.160
Measles (indigenous to Ohio)	0	0	0	1	1	2.0	0.533
Meningitis, Aseptic	0	1	6	4	30	28.4	7.570
Meningitis, Other Bacterial	0	1	0	1	5	3.8	1.013
Meningococcal Disease	0	0	0	0	0	1.0	0.267
Mumps	1	0	1	1	2	2.4	0.640
Pertussis	0	1	1	2	31	37.4	9.969
Q fever, acute	0	0	0	0	0	0.4	0.107
Salmonellosis	1	1	4	7	51	44.8	11.941
Shigellosis	0	0	1	0	8	35.6	9.489
Spotted Fever Rickettsiosis	0	0	0	0	0	0.00	0.00
Staphylococcal aureaus	0	0	0	0	1	0.2	0.053
Streptococcal Dis, Group A, Invasive	3	1	6	1	10	12.8	3.412
Streptococcal Dis, Group B, in Newborn	1	0	1	0	4	1.8	0.480
Streptococcal Toxic Shock Syndrome	0	0	0	0	1	1.0	0.267
Streptococcus pneumo. – inv. antibiotic resistance unknown or non-resistant	3	4	11	12	37	36.0	9.596
Streptococcus pneumo. – inv. antibiotic resistant/intermediate	0	1	3	6	16	17.8	4.745
Syphilis, Total	2	5	3	6	21	12.0	3.195
> Syphilis, Primary, Secondary and Early Latent	1	2	1	3	15	7.6	2.024
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.8	0.213
Tuberculosis	0	0	0	0	2	1.2	0.320
Thyphoid Fever	0	0	0	0	0	0.4	0.107
Varicella	0	8	1	13	35	29.4	7.837
Vibriosis - other (not cholera)	1	0	1	0	4	1.8	0.480
Vibriosis parahaemolyticus	0	0	0	0	0	0.2	0.053
West Nile Virus	0	0	0	0	0	0.6	0.160
Yersiniosis	2	0	6	1	9	4.6	1.226
Zika Virus Disease	1	2	1	2	5	1.0	0.267

Source: Ohio Disease Reporting System, downloaded 3/8/17. Rates are per 100K population and based on 5 yr average incidence '12-'16.



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