

EPI GRAM November, 2016

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 Julia Wagner at 330.493.9914 or Wagnerj@starkhealth.org or Amanda Archer at 330.489.3327 or aarcher@cantonhealth.org.**



Monthly Highlight: Syphilis

The bacterium *Treponema pallidum* is responsible for causing Syphilis, a sexually transmitted disease that is passed from person-to-person through direct contact with a chancre, or painless ulcer, mainly seen on the external genitals, vagina, anus, in the rectum and/or on the lips and in the mouth. Pregnant women can also transmit the disease through the placenta to the fetus or at the time of birth to their infant.

In Stark County, our 5 year average incidence of syphilis in any stage is 10.4 cases per year, with a rate of 2.8 per 100,000. Although this is far below the national rate, Stark County has recorded 17 cases of syphilis for 2016 (to date; an 8 year high, only beaten in 2006 and 2008. The increase in cases corresponds to a rate of 4.5 cases per 100,000 in Stark County for YTD 2016.

Symptoms of syphilis vary depending on the stage of the disease, and symptoms may not present for years. Without treatment, the disease will continue to progress from the primary stage through late stages of the disease.

In the Primary Stage, a single, painless sore (chancre) may appear at the location where syphilis entered the body within 10 to 90 days from exposure. Multiple sores may develop. With the sore(s) being painless, it can easily go unnoticed and be present for 3 to 6 weeks. Regardless of treatment, the sore(s) will heal but the patient is still highly infectious.

In the Secondary Stage, skin rashes and/or sores in the mouth, vagina or anus can develop. The rash appears rough, red or reddish-brown, does not cause itching and can develop on both palms of the hands and/or bottoms of the feet. The rash can be indistinguishable from other rashes/diseases when present on other parts of the body. Sores appear large, raised, gray or white and tend to develop in warm, moist areas, such as the mouth, underarm or groin region. Other symptoms include fever, swollen lymph glands, sore throat, patchy hair loss, headaches, weight loss, muscles aches and fatigue. Symptoms of secondary syphilis will go away with or without treatment. The patient is still highly infectious.

Late and Latent Stages begin when symptoms from the earlier stages disappear. This “hidden” stage can last for years, and although syphilis is still present in the body, those who never seek treatment can develop late stage syphilis 10 to 30 years after infection. Symptoms of late stage syphilis include difficulty coordinating muscle movements, paralysis, numbness, gradual blindness, dementia and even death. The patient is potentially infectious in the early latent phase but not the late latent or late stage.

It is recommended for people who test positive for HIV and other STDs to get tested for syphilis, since transmission of HIV is enhanced by syphilis and other STDs. Contact identification and examination is essential to the control of syphilis. Identified contacts can be prophylactically treated. Prevention includes the use of latex male condoms, abstinence from sexual activity or being in a long-term monogamous relationship with a partner who has been tested and is known to be uninfected. Men who have sex with men is a population disproportionately affected by syphilis, with 75% of cases in 2012 reporting this as their risk factor.

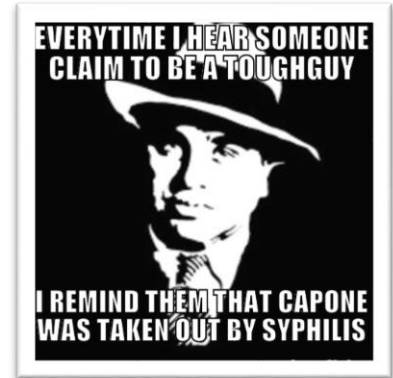


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	November 2016				December 2015			
	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	55	5	38	5 (Moderate)	60	5	11.5	1 (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

	Nov 2016	YTD 2016	2015
Live Births	410	3855	4,314
Births to Teens	26	226	308
Deaths	335	4033	4362

* Birth and death data may include non county residents.

Table 3 Stark County Crude Birth Rate and Death Rates

	2010	2011	2012	2013	2014
Birth	10.8	10.8	10.9	11.2	12.0
Death	10.9	11.3	11.4	11.3	11.4

*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	
	Nov	YTD	Nov	YTD	Nov	YTD	Nov	YTD	Nov	YTD
Anaplasmosis	0	0	0	0	0	0	0	1	0	1
Campylobacteriosis	0	1	1	22	0	7	3	49	4	79
Chlamydia infection	13	115	77	819	12	165	47	606	149	1705
Coccidioidomycosis	0	0	0	0	0	0	0	1	0	1
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	1	0	1
Cryptosporidiosis	0	4	0	7	0	3	3	31	3	45
Cyclosporiasis	0	0	0	1	0	0	0	3	0	4
E. coli, Shiga Toxin-Producing	0	0	0	2	0	1	1	12	1	15
Giardiasis	0	2	1	6	1	1	0	15	2	24
Gonococcal infection	7	43	40	407	2	40	14	138	63	628
Haemophilus influenzae	0	0	0	2	0	0	0	2	0	4
Hepatitis A	0	0	0	1	0	0	0	1	0	2
Hepatitis B – acute	0	0	0	1	0	0	1	3	1	4
Hepatitis B - chronic	0	2	0	17	1	3	3	26	4	48
Hepatitis B - perinatal	0	0	0	0	0	0	0	5	0	5
Hepatitis C - acute	1	1	1	4	0	1	0	3	2	9
Hepatitis C - chronic	2	27	9	102	6	45	17	124	34	298
Hepatitis E	0	0	0	0	0	0	0	1	0	1
Influenza-associated hospitalization	0	7	0	47	0	24	0	81	0	159
LaCrosse Virus Disease	0	0	0	0	0	0	0	1	0	1
Legionellosis	0	1	2	4	0	0	0	11	2	16
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	1	0	3	0	3	4	20	4	27
Malaria	0	0	0	0	0	1	0	0	0	1
Measles - indigenous to Ohio	0	0	0	0	0	0	0	1	0	1
Meningitis - aseptic/viral	0	0	1	6	0	0	2	23	3	29
Meningitis-bacterial (not N. meningitides)	0	0	1	2	0	0	0	3	1	5
Meningococcal disease - Neisseria meningitidis	0	0	1	1	0	0	0	0	1	1
Mumps	0	0	0	1	0	0	0	1	0	2
Mycobacterial Disease- other than tb	0	2	0	3	0	0	0	22	0	27
Pertussis	0	5	0	3	0	5	2	18	2	31
Q fever, acute	0	0	0	0	0	0	0	1	0	1
Salmonellosis	1	2	0	10	0	3	2	35	3	50
Shigellosis	0	1	0	2	0	0	0	1	0	4
Streptococcal-Group A, invasive	0	0	0	5	0	0	0	3	0	8
Streptococcal-Group B- in newborn	0	0	1	2	0	0	0	2	1	4
Streptococcal toxic shock syndrome	0	0	0	1	0	0	0	0	0	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	2	0	10	0	4	1	15	1	31
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	6	0	1	1	9	1	16
Syphilis, Total	0	3	1	10	0	2	1	2	2	17
➤ Primary, Secondary and Early Latent	0	2	1	7	0	0	1	1	2	10
Tuberculosis	0	0	0	1	0	0	0	1	0	2
Varicella	0	1	0	6	1	4	2	22	3	33
Vibriosis (not cholera)	0	0	0	1	0	0	1	3	1	4
Yersiniosis	0	1	0	3	0	0	0	5	0	9
Zika Virus Disease	0	0	0	1	0	0	1	4	1	5
Total	24	223	137	1527	23	313	107	1310	291	3373

Source: Ohio Disease Reporting System, downloaded 12/12/2016.

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

	Nov 2016	Nov 2015	YTD 2016	YTD 2015	All of 2015	5 Yr Annual Average	5 Yr. Annual Rate
Amebiasis	0	0	0	1	1	0.2	0.053
Anaplasmosis	0	0	1	0	0	0.2	0.053
Babesiosis	0	0	0	1	1	0.2	0.053
Campylobacteriosis	4	6	79	56	58	61.0	16.235
Chlamydia	149	149	1705	1493	1651	1,539.0	409.596
Coccidioidomycosis	0	0	1	0	0	0.4	0.106
Creutzfeldt-Jakob Disease	0	0	1	0	0	0.6	0.160
Cryptosporidiosis	3	1	45	27	30	29.2	7.771
Cyclosporiasis	0	0	4	1	1	0.4	0.106
Dengue	0	0	0	0	0	0.6	0.160
Escherichia coli, Shiga Toxin-Producing	1	3	15	17	17	6.8	1.810
Ehrlichiosis/Anaplasmosis	0	0	1	0	0	0.2	0.053
Giardiasis	2	4	24	27	28	36.2	9.634
Gonorrhea	63	48	628	459	511	586.8	156.173
Haemophilus influenzae , Invasive	0	0	4	7	8	7.4	1.969
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.053
Hepatitis A	0	1	2	5	5	5.8	1.544
Hepatitis B, Perinatal	0	0	5	2	2	3.4	0.905
Hepatitis B, Acute	1	0	4	4	5	5.0	1.331
Hepatitis B, Chronic	4	6	48	40	43	33.6	8.942
Hepatitis C, Acute	2	0	9	13	13	7.8	2.076
Hepatitis C, Chronic	34	31	298	341	362	275.8	73.403
Hepatitis E	0	0	1	0	0	0.2	0.053
Influenza-associated hospitalization	0	3	159	284	284	263.6	70.156
Influenza-associated pediatric mortality	0	0	0	0	0	0.2	0.053
LaCrosse virus disease	0	0	1	0	0	0.4	0.106
Legionellosis	2	0	16	19	19	14.2	3.779
Listeriosis	0	0	1	0	1	1.4	0.373
Lyme Disease	4	1	27	17	18	13.6	3.620
Malaria	0	0	1	0	0	0.6	0.160
Measles (indigenous to Ohio)	0	0	1	0	0	1.8	0.479
Meningitis, Aseptic	3	2	29	28	30	35.2	9.368
Meningitis, Other Bacterial	1	0	5	3	3	3.4	0.905
Meningococcal Disease	1	0	1	3	3	1.2	0.319
Mumps	0	0	2	4	4	2.0	0.532
Mycobacterial disease - Not TB	0	4	27	22	23	31.0	8.250
Pertussis	2	3	31	38	45	34.6	9.209
Q fever, acute	0	0	0	0	0	0.4	0.106
Salmonellosis	3	2	50	44	50	41.6	11.072
Shigellosis	0	0	4	6	6	34.4	9.155
Spotted Fever Rickettsiosis	0	0	0	0	0	0.4	0.106
Staphylococcal aureus	0	0	0	0	0	0.0	0.000
Streptococcal Dis, Group A, Invasive	0	1	8	9	9	15.2	4.045
Streptococcal Dis, Group B, in Newborn	1	0	4	0	0	1.6	0.426
Streptococcal Toxic Shock Syndrome	0	0	1	1	1	1.2	0.319
Streptococcus pneumo. – inv. antibiotic resistance unknown or non-resistant	1	4	31	23	27	36.8	9.794
Streptococcus pneumo. – inv. antibiotic resistant/intermediate	1	1	16	15	16	17.8	4.737
Syphilis, Total	2	0	17	7	7	10.4	2.768
> Syphilis, Primary, Secondary and Early Latent	2	0	10	5	5	6.6	1.757
Toxic Shock Syndrome (TSS)	0	0	0	1	1	0.8	0.213
Tuberculosis	0	0	2	1	1	1.0	0.266
Thyphoid Fever	0	0	0	0	0	0.4	0.106
Varicella	3	3	33	25	26	29.2	7.771
Vibriosis - other (not cholera)	1	0	4	3	3	1.2	0.319
Vibriosis parahaemolyticus	0	0	0	0	0	0.2	0.053
West Nile Virus	0	0	0	1	1	0.6	0.160
Yersiniosis	0	2	9	8	8	2.8	0.745
Zika Virus Disease	1	0	5	0	0	0.2	0.052

Source: Ohio Disease Reporting System, downloaded 12/12/16. Rates are per 100K population and based on 5 yr average incidence '11-'15.



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