

# EPI GRAM December, 2016

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

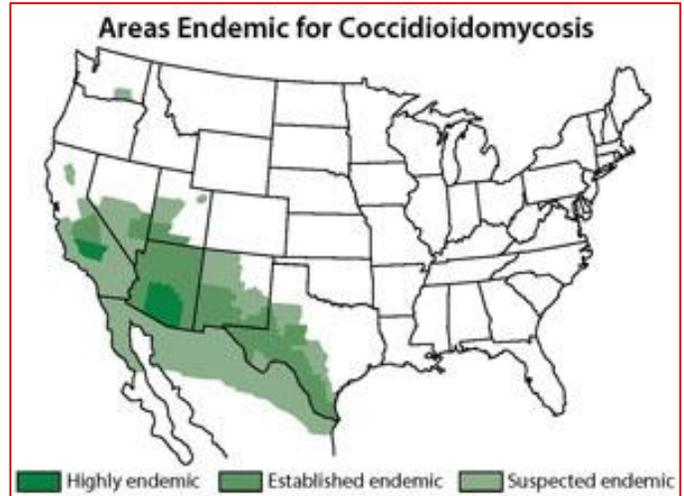
EPI Gram is a monthly publication of the Stark County Public Health Infrastructure Coalition. It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for Stark County, Ohio. Some reportable conditions may be under investigation and, 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](mailto:Wagnerj@starkhealth.org), or Amanda Archer at 330.489.3327 or [aarcher@cantonhealth.org](mailto:aarcher@cantonhealth.org).



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

### Monthly Highlight: *Coccidioidomycosis (Valley Fever)*

During 2016, Stark County received a case of *Coccidioidomycosis*, also known as Valley Fever. This is the third case reported in the county since 2010. As can be seen in the map of endemic areas with this fungal disease, Ohio is not one of those locations. However, cases do occur in non-endemic regions due to travel. It should be noted that over 65% of the cases occurring in the United States occur in Arizona.



Valley Fever is caused by either *Coccidioides immitis* or *Coccidioides posadasii*. They are thought to grow best in the soil after heavy rainfall and then disperse in the air during hot dry weather conditions. The peak season for the blowing dust to carry the spores is in the early summer and then again in the late fall. Valley Fever is contracted through inhaling the spores and in general cannot be transmitted from person to person. It may take up to three weeks before symptoms begin. In 40% of those who contract Valley Fever, flu-like symptoms will result and most will recover on their own. This leaves 60% that become infected remain asymptomatic. Of those who do become symptomatic, about 5% will develop a skin condition with reddening of the skin along with joint pain. In less than 1% the infection spreads from the lungs to the rest of the body causing meningitis and other infections of the joints and bones. Treatment is available if needed.

Though there is no vaccine available, measures can be taken to reduce the risk of contracting Valley Fever when in areas where the fungus is prevalent. It should be noted however, that the risk of contracting this disease is low, even if traveling to an area where it is endemic. During dust storms people should stay indoors and ensure that their windows are closed. Air filtration systems can also be used inside to help reduce the risk of any spores that may have come in through the cracks or when using the door. If an individual has to be outside with a lot of blowing dust like at a construction or excavation site, a mask should be worn. Usually, if an individual becomes infected their immune system will be able to build up protection and the individual will not contract it again.

➤ For more information please see <https://www.cdc.gov/fungal/diseases/coccidioidomycosis/index.html>.

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

	December 2016				January 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.				Data collected seasonally and currently not available.			
Mold Count	Data collected seasonally and currently not available.				Data collected seasonally and currently not available.			
Air Quality Index	58	15	25	3	55	6	15.5	1

\*\*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**

	Dec. 2016	YTD 2016	2015
Live Births	143	4,001	4,314
Births to Teens	4	230	308
Deaths	375	4,383	4,362

\* 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	
	Dec.	YTD	Dec.	YTD	Dec.	YTD	Dec.	YTD	Dec.	YTD
Anaplasmosis	0	0	0	0	0	0	0	1	0	1
Campylobacteriosis	0	1	2	24	1	8	1	50	4	83
Chlamydia infection	13	128	86	915	16	181	69	676	184	1,900
Coccidioidomycosis	0	0	0	0	0	0	0	1	0	1
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	1	2	1	2
Cryptosporidiosis	0	4	1	8	0	3	1	32	2	47
Cyclosporiasis	0	0	0	1	0	0	0	3	0	4
E. coli, Shiga Toxin-Producing	0	0	1	3	0	1	0	12	1	16
Giardiasis	1	3	0	6	0	1	0	15	1	25
Gonococcal infection	1	44	32	442	3	43	11	148	47	677
Haemophilus influenzae	0	0	1	3	0	0	0	2	1	5
Hepatitis A	0	0	0	1	0	0	0	1	0	2
Hepatitis B – acute	0	0	0	1	0	0	0	3	0	4
Hepatitis B - chronic	0	2	2	19	0	3	5	31	7	55
Hepatitis B - perinatal	0	0	0	0	0	0	0	4	0	4
Hepatitis C - acute	0	1	0	4	0	1	0	3	0	9
Hepatitis C - chronic	3	29	6	108	9	55	15	139	33	331
Hepatitis E	0	0	0	0	0	0	0	1	0	1
Influenza-associated hospitalization	0	7	16	63	3	27	18	99	37	196
Influenza-associated pediatric mortality	0	0	0	0	0	0	0	0	0	0
LaCrosse Virus Disease	0	0	0	0	0	0	0	1	0	1
Legionellosis	0	1	0	4	0	0	0	11	0	16
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	1	0	3	0	3	0	20	0	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	7	0	0	0	23	1	30
Meningitis-bacterial (not N. meningitides)	0	0	0	2	0	0	0	3	0	5
Mumps	0	0	0	1	0	0	0	1	0	2
Pertussis	0	5	0	3	0	5	0	18	0	31
Q fever, acute	0	0	0	0	0	0	0	0	0	51
Salmonellosis	0	2	0	10	0	3	1	36	0	0
Shigellosis	0	1	4	6	0	0	0	1	4	8
Staphylococcal aureus	0	0	0	1	0	0	0	0	0	1
Streptococcal-Group A, invasive	0	0	0	5	0	0	2	5	2	10
Streptococcal-Group B- in newborn	0	0	0	2	0	0	0	2	0	4
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	3	3	13	0	4	2	17	6	37
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	6	0	1	0	9	0	16
Streptococcal toxic shock syndrome	0	0	0	1	0	0	0	0	0	1
Syphilis, Total	0	3	2	11	3	5	0	2	5	21
> Primary, Secondary and Early Latent	0	2	2	9	3	3	0	1	5	15
Tuberculosis	0	0	0	1	0	0	0	1	0	2
Varicella	0	1	0	6	1	5	1	23	2	35
Vibriosis (not cholera)	0	0	0	1	0	0	0	3	0	4
Yersiniosis	0	1	0	3	0	0	0	5	0	9
Zika Virus Disease	0	0	0	1	0	0	0	4	0	5
<b>Total</b>	<b>19</b>	<b>237</b>	<b>157</b>	<b>1,685</b>	<b>36</b>	<b>350</b>	<b>127</b>	<b>1,410</b>	<b>339</b>	<b>3,682</b>

Source: Ohio Disease Reporting System, downloaded 1/9/2017.

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

	Dec. 2016	Dec. 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
Babesiosis	0	0	0	1	1	0.2	0.053
Brucellosis	0	0	0	0	0	0.2	0.053
Campylobacteriosis	4	2	83	58	58	61.0	16.235
Chlamydia	184	158	1,900	1,651	1,651	1,539.0	409.596
Coccidioidomycosis	0	0	1	0	0	0.4	0.106
Creutzfeldt-Jakob Disease	1	0	2	0	0	0.6	0.160
Cryptosporidiosis	2	3	47	30	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
Ehrlichiosis/ Anaplasmosis	0	0	1	0	0	0.4	0.106
Escherichia coli, Shiga Toxin-Producing	1	0	16	17	17	6.8	1.810
Giardiasis	1	1	25	28	28	36.2	9.634
Gonorrhea	47	52	677	511	511	586.8	156.173
Haemophilus influenzae , Invasive	1	1	5	8	8	7.4	1.969
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.053
Hepatitis A	0	0	2	5	5	5.8	1.544
Hepatitis B, Perinatal	0	0	4	2	2	3.4	0.905
Hepatitis B, Acute	0	1	4	5	5	5.0	1.331
Hepatitis B, Chronic	7	3	55	43	43	33.6	8.942
Hepatitis C, Acute	0	0	9	13	13	7.8	2.076
Hepatitis C, Chronic	33	23	331	362	362	275.8	73.403
Hepatitis E	0	0	1	0	0	0.2	0.053
Influenza-associated hospitalization	37	0	196	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	0	0	16	19	19	14.2	3.779
Listeriosis	0	1	1	1	1	1.4	0.373
Lyme Disease	0	1	27	18	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	1	2	30	30	30	35.2	9.368
Meningitis, Other Bacterial	0	0	5	3	3	3.4	0.905
Meningococcal Disease	0	0	0	3	3	1.2	0.319
Mumps	0	0	2	4	4	2.0	0.532
Pertussis	0	7	31	45	45	34.6	9.209
Q fever, acute	0	0	0	0	0	0.4	0.106
Salmonellosis	1	6	51	50	50	41.6	11.072
Shigellosis	4	0	8	6	6	34.4	9.155
Spotted Fever Rickettsiosis	0	0	0	0	0	0.4	0.106
Staphylococcal aureaus	0	0	1	0	0	0.0	0.000
Streptococcal Dis, Group A, Invasive	2	0	10	9	9	15.2	4.045
Streptococcal Dis, Group B, in Newborn	0	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	6	4	37	27	27	36.8	9.794
Streptococcus pneumo. – inv. antibiotic resistant/intermediate	0	1	16	16	16	17.8	4.737
Syphilis, Total	5	0	21	7	7	10.4	2.768
> Syphilis, Primary, Secondary and Early Latent	5	0	15	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	2	1	35	26	26	29.2	7.771
Vibriosis - other (not cholera)	0	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	0	9	8	8	2.8	0.745
Zika Virus Disease	0	0	5	0	0	0.2	0.052

Source: Ohio Disease Reporting System, downloaded 1/9/17. Rates are per 100K population and based on 5 yr average incidence '11-'15.



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