

***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.*

Monthly Highlight: Legionella

In February, the Centers for Disease Control and Prevention reviewed and updated the Clinicians Legionella webpage found at: <http://www.cdc.gov/legionella/clinicians.html>. The page provides "The Top 10 Things Clinicians Need To Know Regarding Legionellosis".

The site provides a quick reference to diagnosing and testing for Legionellosis, including who to test, specificity and sensitivity of types of tests, treatment and epidemiological data. Also contained within the top 10 items is a statement regarding the importance of obtaining a respiratory specimen or culture. It is through culture results that outbreaks of Legionella are identified and possible sources are confirmed or ruled out and measures to prevent additional cases can be implemented.

Four Stark county residents have been confirmed with Legionellosis this month and a 5th case, an out of state resident, had potential exposure here. Although not considered an outbreak due to a lack of epidemiological linkages between the cases, the large number within such a concentrated time period is atypical of the seasonal pattern normally observed for Legionellosis and is highly suspicious. Additionally, in the month of February, Stark county is the only county within Ohio that has had more than one case confirmed. See map above. This again highlights the unusual cluster of cases, and the need to have a high level of suspicion when treating patients. Below is a list provided by the CDC of who to test:



- Patients who have failed outpatient antibiotic therapy
- Patients with severe pneumonia, in particular, those requiring intensive care
- Immunocompromised host with pneumonia
- Patients with pneumonia in the setting of a legionellosis outbreak
- Patients with a travel history [Patients who have traveled away from their home within two weeks of the onset of illness.]
- Patients suspected of healthcare-associated pneumonia

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

	February 2013				March 2012			
	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	Reported seasonally, not currently available				Reported seasonally, not currently available			
Mold Count								
Air Quality Index	30	19	23	All Good	60	12	22	2 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 Summaries of Select Vital Statistics for Stark County

	February 2013	YTD 2013	2012
Live Births	567	567	4058
Births to Teens	53	53	365
Deaths	849	849	4110

Birth and Death Data is reported by the 4 health districts and may include non county residents.

Table 3 Stark County Crude Birth and Death Rates

	2006	2007	2008	2009	2010
Birth	1191*	1190*	1166*	1139	1085
Death	1000*	1035*	1055*	1072	1094

*Source: Ohio Department of Health Data Warehouse. Rates are per 100,000 population.

If you have any questions, including how to receive copies of this report, please contact Christina Henning at 330.489.3327 or Chenning@cantonhealth.org or Lauren Drinkard at 330.493.9928 or Drinkardl@starkhealth.org.

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County, OH

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD
Campylobacteriosis		0	1	3		0	1	4	2	7
Chlamydia infection	12	23	49	113	11	18	49	96	121	250
Cryptosporidiosis		0	1	3		0	2	2	3	5
Giardiasis		0	1	2	1	2	2	7	4	11
Gonococcal infection	5	12	23	52	7	12	16	28	51	104
Haemophilus influenzae (invasive disease)	1	1		0		0		1	1	2
Hepatitis B - Perinatal Infection		0		0		0	1	1	1	1
Hepatitis B (including delta) - acute		0	1	1		0		1	1	2
Hepatitis B (including delta) - chronic		0		0		0	2	4	2	4
Hepatitis C - acute		1	3	3		0		0	3	4
Hepatitis C - chronic	1	3	3	10	5	8	6	13	15	34
Influenza-associated hospitalization	1	7	20	78	7	27	25	129	53	241
Legionellosis - Legionnaires' Disease		0		0	1	1	2	3	3	4
Listeriosis		0	1	1		0		0	1	1
Lyme Disease		0		0		0	2	2	2	2
Meningitis - aseptic/viral		0	1	1		0	1	1	2	2
Meningitis - bacterial (Not N. meningitidis)		0		0		0		1	0	1
Mycobacterial disease - other than tuberculosis		0	1	1		0	1	2	2	3
Pertussis	1	1		0		0		2	1	3
Salmonellosis		0	1	1	1	1	2	3	4	5
Shigellosis		0	1	3	1	1	1	1	3	5
Streptococcal - Group A -invasive		0		0		0	2	3	2	3
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant		0	1	2		1	2	7	3	10
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate		0		6		0		3	0	9
Toxic shock syndrome (TSS)		0		0		0	2	2	2	2
Varicella		0		0		0	2	3	2	3
Yersiniosis		0		1		0		0	0	1

Source: Ohio Disease Reporting System, downloaded 3/20/2013.

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

	Feb 2013	Feb 2012	YTD 2013	YTD 2012	5 Yr annual average	Rate
Brucellosis		0	1	1	0.2	0.053
Campylobacteriosis	2	7	3	65	52.8	14.058
Chlamydia	121	250	263	1529	1327.4	353.421
Coccidioidomycosis		0	1	1	0.2	0.053
Creutzfeldt-Jakob Disease					1.6	0.426
Cryptosporidiosis	3	5	0	45	25.2	6.71
Cytomegalovirus, Congenital					0.4	0.107
Dengue		0	1	1	0.8	0.213
Ehrlichiosis					0.2	0.053
Escherichia coli , STP, Not O157:H7		0	0	1	1.2	0.32
Escherichia coli O157:H7		0	0	3	2.2	0.586
Escherichia coli , STP, Unk Serotype		0	0	1	1.4	0.373
Giardiasis	4	11	4	38	51.8	13.792
Gonorrhea	51	104	110	647	539.6	143.669
Haemophilus influenzae , Invasive	1	2	1	8	8.2	2.183
Hemolytic Uremic Syndrome (HUS)					0.4	0.107
Hepatitis A		0	1	6	2.6	0.692
Hepatitis B, Acute	1	2	0	4	3.6	0.959
Hepatitis B, Chronic	2	4	2	37	34	9.053
Hepatitis C, Acute	3	4	0	10	6	1.598
Hepatitis C, Chronic	15	34	40	223	227.4	60.545
Hepatitis E					0.2	0.053
Herpes, Congenital					0.4	0.107
Influenza A - novel virus infection					0.4	0.107
Influenza-associated hospitalization	53	241	2	150	123.5*	32.882
LaCrosse virus disease		0	0	1	0.8	0.213
Legionellosis	3	4	1	16	15.6	4.154
Listeriosis	1	1	0	1	2.2	0.586
Lyme Disease	2	2	1	14	7	1.864
Malaria					1.2	0.32
Meningitis, Aseptic	2	2	0	34	35.8	9.532
Meningitis, Other Bacterial		1	2	4	3.2	0.852
Meningococcal Disease					1	0.266
Mumps		0	0	1	1	0.266
Mycobacterial disease - Not TB	2	3	0	25	24.8	6.603
Pertussis	1	3	1	14	36.4	9.692
Rheumatic Fever					0.2	0.053
Rocky Mountain Spotted Fever					0.6	0.16
Salmonellosis	4	5	6	39	37.2	9.905
Shigellosis	3	5	0	8	50.4	13.419
Streptococcal Dis, Group A, Invasive	2	3	4	21	13.4	3.568
Streptococcal Dis, Group B, in Newborn		0	0	2	3.2	0.852
Streptococcal Toxic Shock Syndrome		0	0	1	0.8	0.213
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	3	10	14	58	36	9.585
Streptococcus pneumo - inv antibiotic resistant/intermediate		9	3	21	20	5.325
Syphilis, Total	1	1	1	12	11.6	3.089
Syphilis, Primary and Secondary	0	0	0	3	4.2	1.118
Toxic Shock Syndrome (TSS)	2	2	0	0	0.6	0.16
Tuberculosis		0	0	2	2.6	0.692
Typhoid Fever		0	0	1	0.2	0.053
Varicella	2	3	9	39	46.8	12.461
Vibriosis - other (not cholera)					0.25	0.067
West Nile Virus		0	0	1	0.2	0.053
Yersiniosis		1	1	2	0.8	0.213

Source: Ohio Disease Reporting System, downloaded 3/12/2013. Rates are per 100,000 population and based on 5 year average. *Average based on 4 years of data.