

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 Highlights: Norovirus

Norovirus is a highly contagious viral disease and the leading cause of all acute gastroenteritis cases worldwide. Though common throughout the year, it is most prevalent during the months of November through April and presents with symptoms of non-bloody diarrhea, vomiting, nausea and stomach pain. Some patients may also experience fever, headaches and body aches. Symptoms arise within 12 to 48 hours of exposure, and usually last from 1 to 3 days. Common routes of transmission occur through contaminated food and water sources, person to person contact, and contact with contaminated fomites.



There is no vaccine to prevent Norovirus, but the cycle of transmission can be interrupted with various control measures including:

- proper hand hygiene,
- carefully washing fresh fruits and vegetables and cooking shellfish before consumption,
- cleaning hard surfaces with an EPA-approved disinfectant,
- thoroughly washing laundry that has been contaminated with vomit or feces and
- excluding ill patients for 48 hours after symptoms resolve.

Norovirus is a Class C reportable disease in the state of Ohio. If you suspect a Norovirus outbreak in the community or treat any number of patients that may be related due to a particular event, location, group of people or food item, report your findings to your ICP or local Health Department by the end of the next business day. Your assistance and the information that you provide to your ICP or HD is invaluable in terms of disease tracking, exclusion of ill patients, and prevention of a community-wide outbreak of Norovirus.

And although healthcare staff are well aware of the importance and benefits of handwashing, patients may need a reminder. Help your patients stop the spread of Norovirus and promote Global Handwashing Day by taking a moment to discuss proper handwashing techniques with your patients.

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

	September 2016				October 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	135	1	25	N/A	5	1	3	N/A
Mold Count	6970	1680	3945	1 Moderate	4090	2230	3640	0 Good
Air Quality Index	75	18	42	5 Moderate	47	21	35.5	0 Good

**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

	Sept 2016	YTD 2016	2015
Live Births	336	2394	4,314
Births to Teens	26	182	308
Deaths	396	3396	4,362

Birth and Death Data is reported by the 4 health districts and 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.

If you have any questions, including how to receive copies of this report, please contact Julia Wagner at 330.493.9904 or Wagnerj@starkhealth.org or Amanda Archer at 330.489.3327 or aarcher@cantonhealth.org.

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County
(provisional data)

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Sept	YTD	Sept	YTD	Sept	YTD	Sept	YTD	Sept	YTD
Anaplasmosis-Anaplasma phagocytophilum	0	0	0	0	0	0	1	1	1	1
Campylobacteriosis	0	1	2	18	2	5	8	44	12	68
Chlamydia infection	15	89	67	671	14	136	52	498	148	1394
Coccidioidomycosis	0	0	0	0	0	0	1	1	1	1
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	1	0	1
Cryptosporidiosis	2	4	2	7	0	2	7	25	11	38
Cyclosporiasis	0	0	0	1	0	0	1	3	1	4
Dengue	0	0	0	0	0	0	0	0	0	0
E. coli, Shiga Toxin-Producing	0	0	1	2	0	1	2	10	3	13
Giardiasis	0	2	0	5	0	0	0	14	0	21
Gonococcal infection	4	32	33	324	4	32	15	118	56	506
Haemophilus influenzae	0	0	0	2	0	0	0	2	0	4
Hepatitis A	0	0	1	2	0	0	0	0	1	2
Hepatitis B - Perinatal Infection	0	0	0	0	0	0	0	4	0	4
Hepatitis B – acute	0	0	0	1	0	0	0	2	0	3
Hepatitis B – chronic	1	2	2	14	0	2	2	23	5	41
Hepatitis C – acute	0	0	1	3	0	1	0	3	1	7
Hepatitis C – chronic	3	25	8	88	7	31	14	100	32	244
Hepatitis E	0	0	0	0	0	0	0	1	0	1
Immigrant Investigation	0	0	0	1	0	0	0	2	0	3
Influenza - ODH Lab Results	0	0	0	0	0	0	0	0	0	0
Influenza-associated hospitalization	0	7	0	47	0	24	1	81	1	159
LaCrosse virus disease (other California serogroup virus disease)	0	0	0	0	0	0	0	1	0	1
Legionellosis - Legionnaires' Disease	0	1	1	1	0	0	3	11	4	13
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	1	1	3	1	2	3	14	5	20
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	2	5	0	0	2	13	4	18
Meningitis - bacterial (Not N. meningitidis)	0	0	0	1	0	0	0	3	0	4
Mumps	0	0	0	1	0	0	0	1	0	2
Mycobacterial disease - other than tuberculosis	0	1	0	3	0	0	0	6	0	10
Pertussis	2	3	0	3	0	5	0	12	2	23
Q fever, chronic	0	0	0	0	0	0	0	1	0	1
Salmonellosis	0	1	3	10	0	3	9	31	12	45
Shigellosis	0	1	0	1	0	0	0	1	0	3
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	1	0	0	0	0	0	0
Streptococcal - Group A –invasive	0	0	0	4	0	0	0	3	0	7
Streptococcal - Group B - in newborn	0	0	1	1	0	0	0	1	1	2
Streptococcal toxic shock syndrome (STSS)	0	0	0	1	0	0	0	0	0	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	1	0	10	0	4	0	14	0	29
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	1	6	0	1	0	8	1	15
Syphilis, Total	0	3	1	8	0	1	1	1	2	13
➤ Syphilis, Primary, Secondary and Early Latent	0	2	1	6	0	0	0	0	1	8
Tuberculosis	0	0	0	1	0	0	0	1	0	2
Varicella	0	1	0	6	0	3	2	17	2	27
Vibriosis (not cholera)	0	0	0	1	0	0	1	2	1	3
Yersiniosis	0	1	1	3	0	0	2	4	3	8
Zika virus disease	0	0	0	1	0	0	2	4	2	5
Total	27	178	129	1263	28	254	129	1084	310	2758

Source: Ohio Disease Reporting System, downloaded 10/10/2016.

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

	Sep-16	Sep-15	YTD 2016	YTD 2015	All of 2015	5 Yr Annual Average	Rate
Amebiasis	0	0	0	1	1	0.2	0.053
Anaplasmosis	1	0	1	0	0	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	12	8	68	46	58	61.0	16.241
Chlamydia	148	148	1394	1167	1651	1539.0	409.760
Coccidioidomycosis	1	0	1	0	0	0.4	0.107
Creutzfeldt-Jakob Disease	0	0	1	0	0	0.6	0.160
Cryptosporidiosis	11	6	38	20	30	29.2	7.775
Cyclosporiasis	1	0	4	1	1	0.4	0.107
Dengue	0	0	0	0	0	0.6	0.160
Escherichia coli , STP, Not O157:H7	3	2	13	14	17	4.4	1.172
Escherichia coli O157:H7	0	0	0	0	0	2.2	0.586
Escherichia coli , STP, Unk Serotype	0	0	0	0	0	0.2	0.053
Ehrlichiosis/Anaplasmosis	0	0	1	0	0	0.2	0.053
Giardiasis	0	4	21	21	28	36.2	9.638
Gonorrhea	56	53	506	371	511	586.8	156.236
Haemophilus influenzae , Invasive	0	0	4	7	8	7.4	1.970
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0	0.2	0.053
Hepatitis A	1	0	2	3	5	5.8	1.544
Hepatitis B, Perinatal	0	0	4	3	3	3.4	0.905
Hepatitis B, Acute	0	0	3	3	4	5.0	1.331
Hepatitis B, Chronic	5	4	41	34	43	33.6	8.946
Hepatitis C, Acute	1	1	7	13	13	7.8	2.077
Hepatitis C, Chronic	32	44	244	282	365	275.8	73.432
Hepatitis E	0	0	1	0	0	0.2	0.053
Influenza-associated hospitalization	1	0	159	281	284	263.6	70.184
Influenza-associated pediatric mortality	0	0	0	0	0	0.2	0.053
LaCrosse virus disease	0	0	1	0	0	0.4	0.107
Legionellosis	4	2	13	17	19	14.2	3.781
Listeriosis	0	0	1	0	1	1.4	0.373
Lyme Disease	5	2	20	15	18	13.6	3.621
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	4	6	18	21	30	35.2	9.372
Meningitis, Other Bacterial	0	1	4	3	3	3.4	0.905
Meningococcal Disease	0	0	0	3	3	1.2	0.320
Mumps	0	0	2	3	4	2.0	0.533
Mycobacterial disease - Not TB	0	1	10	7	9	31.0	8.254
Other arthropod-borne disease	0	0	0	0	0	0.2	0.053
Pertussis	2	1	23	33	45	34.6	9.212
Q fever, acute	0	0	0	0	0	0.4	0.106
Q fever, chronic	0	0	1	0	0	0.4	0.000
Salmonellosis	12	6	45	36	50	41.6	11.076
Shigellosis	0	0	3	5	6	34.4	9.159
Spotted Fever Rickettsiosis	0	0	0	0	0	0.6	0.160
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	0	0	0.2	0.000
Streptococcal Dis, Group A, Invasive	0	0	7	8	9	15.2	4.047
Streptococcal Dis, Group B, in Newborn	1	0	2	0	0	1.6	0.426
Streptococcal Toxic Shock Syndrome	0	0	1	1	1	1.2	0.320
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	2	29	17	27	36.8	9.800
Streptococcus pneumo - inv antibiotic resistant/intermediate	1	1	15	13	16	17.8	4.739
Syphilis, Total	2	2	13	7	7	10.4	2.769
➤ Syphilis, Primary, Secondary and Early Latent	1	1	8	5	5	6.6	1.757
Toxic Shock Syndrome (TSS)	0	1	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	0.107
Typhus Fever	0	0	0	0	0	0.2	0.053
Varicella	2	1	27	17	26	29.2	7.775
Vibriosis - other (not cholera)	1	0	3	3	3	1.2	0.320
Vibrio parahaemolyticus infection	0	0	0	0	0	0.2	0.053
West Nile Virus	0	0	0	0	1	0.6	0.160
Yersiniosis	3	1	8	5	8	2.8	0.746
Zika virus disease	2	0	5	0	0	0.2	0.052

Source: Ohio Disease Reporting System, downloaded 10/10/16. Rates are per 100K population and based on 5 yr average incidence 09-13.*08-12 from ODH Stats pg.