

November 2022

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 Allie Robbins at 330.451.1559 or robbsinsa@starkhealth.org or Kaelyn Boyd at 234.458.5135 or kboyd@cantonhealth.org.



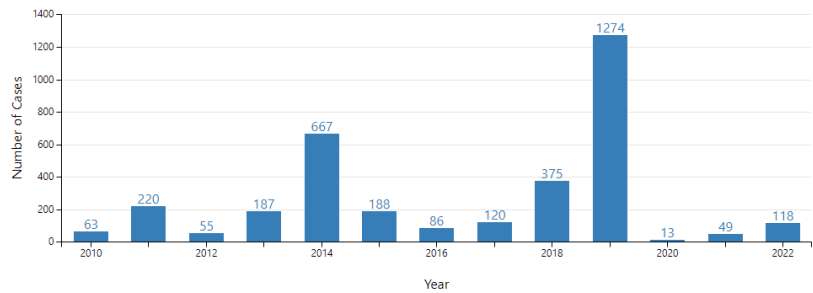
Public Health
Prevent. Promote. Protect.

Monthly Highlight: Central Ohio Measles Outbreak

Measles is an acute viral respiratory disease caused by the measles virus, which is part of the Paramyxoviridae family. It is a highly contagious disease and can be spread through respiratory droplets and small aerosol particles. Exposed persons who are not immune have a 90% chance of contracting measles and those who have measles may go on to infect anywhere from 9-18 others in a susceptible population. The measles vaccine used today was introduced in 1968 and is highly effective at preventing measles. According to the CDC, widespread use of the measles vaccine has led to a greater than 99% reduction in measles cases when compared with pre-vaccine era.

Number of measles cases reported by year

2010-2022* (as of January 5, 2023)



The MMR vaccine is the best way to prevent spread of measles in the community and unfortunately growing vaccine hesitancy and anti-vaccine sentiment in recent years has led to outbreaks across the US. In early November 2022, Columbus Public Health and Franklin County Public Health issued a news release regarding a measles outbreak associated with a local child care facility. It was initially reported that there were four cases in children, all whom were unvaccinated with no travel history. By December 2nd 2022, 50 confirmed cases had been identified, with 20 requiring hospitalization. All 50 cases occurred in unvaccinated children. In a press conference in late November 2022, Dr. Mysheika W. Roberts, Health Commissioner for Columbus Public Health, mentioned that approximately 25% of the area's 2-year olds had not received their first dose of MMR vaccine. Columbus Public Health has created a [dashboard](#) to update the public on this ongoing outbreak. While Stark County has not reported a measles case in 2022, this Ohio outbreak stresses the importance of keeping our community up-to-date with MMR vaccinations.

Table 2: Select Vital Statistics for Stark County

	Nov 2022	YTD 2022	2021
Live Births	298	3,463	3,929
Births to Teens	16	161	214
Deaths	371	4,331	5,409

* Birth and death data is preliminary

Table 3: Stark County Crude Birth Rate and Death Rates

	2017	2018	2019	2020	2021*
Birth	10.7	10.9	11.0	10.5	10.5
Death	12.0	11.8	12.0	14.1	14.5

*Source: Data Ohio. Rates are per 1,000 population. 2021 data is preliminary.

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

	November 2022				December 2021			
	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								
Air Quality Index	85	0	26	Moderate (5)	58	19	41	Moderate (5)

**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/#/pages/reading-the-levels>. Data source for this table is the Air Quality Division of the Canton City Health Department.

Jurisdictional Summary of Reportable Conditions in Stark County, OH (Provisional Data)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Nov	YTD	Nov	YTD	Nov	YTD	Nov	YTD	Nov	YTD
Anaplasmosis-Anaplasma phagocytophilum	0	0	0	0	0	0	0	1	0	1
Babesiosis	0	0	0	0	0	0	0	1	0	1
Campylobacteriosis	0	4	0	10	0	2	1	49	1	65
Chlamydia infection	12	119	63	785	9	138	23	483	107	1525
CP-CRE	0	0	0	0	1	5	1	15	2	20
Coccidioidomycosis	0	0	0	0	0	0	0	2	0	2
Cryptosporidiosis	0	0	1	4	0	1	0	12	1	17
Cyclosporiasis	0	0	0	0	0	0	0	1	0	1
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	0	1	0	0	0	0	0	8	0	9
Ehrlichiosis-Ehrlichia chaffeensis	0	0	0	0	0	0	0	1	0	1
Giardiasis	0	0	0	0	0	0	1	7	1	7
Gonococcal infection	5	78	22	424	3	48	9	156	39	706
Haemophilus influenzae (invasive disease)	1	1	0	2	0	1	0	7	1	11
Hepatitis A	0	0	0	0	0	0	0	1	0	1
Hepatitis B (including delta) - acute	0	0	0	0	0	1	0	1	0	2
Hepatitis B (including delta) - chronic	0	4	2	12	0	4	0	8	2	28
Hepatitis C - acute	0	1	0	2	0	0	0	2	0	5
Hepatitis C - chronic	0	16	5	71	2	14	4	65	11	166
Hepatitis C - Perinatal Infection	0	0	0	0	0	1	0	0	0	1
Influenza - ODH Lab Results	0	0	0	0	0	0	0	3	0	3
Influenza-associated hospitalization	1	8	18	56	10	14	33	100	62	178
LaCrosse virus disease (other California serogroup virus disease)	0	0	0	0	0	0	0	1	0	1
Legionellosis	0	0	0	7	0	0	0	20	0	27
Listeriosis	0	0	0	0	0	0	2	3	2	3
Lyme Disease	0	0	0	1	0	2	4	23	4	26
Malaria	0	0	0	0	0	0	1	2	1	2
Meningitis - aseptic/viral	0	1	1	5	0	2	1	6	2	14
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	1	0	0	0	1
Meningococcal disease - Neisseria meningitidis (call health department immediately)	0	0	0	0	0	0	0	1	0	1
Mpox	0	1	1	1	1	1	2	5	4	8
MIS-C associated with COVID-19 (call health department immediately)	0	1	0	1	0	1	0	2	0	5
Salmonellosis	0	2	0	9	0	2	2	31	2	44
Shigellosis	0	0	0	2	0	0	0	8	0	10
Spotted Fever Rickettsiosis, including Rocky Mountain spotted fever (RMSF)	0	0	0	0	0	0	0	1	0	1
Streptococcal - Group A -invasive	0	0	1	8	0	1	1	8	2	17
Streptococcal - Group B - in newborn	0	0	0	1	0	0	0	0	0	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	1	0	7	0	2	0	7	0	17
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	1	1	5	0	1	0	7	1	14
Syphilis, Total	0	5	2	56	1	7	6	37	9	105
Syphilis, Primary, Secondary and Early Latent	0	4	2	41	1	5	3	27	6	77
Varicella	1	2	0	0	0	0	1	2	2	4
Vibriosis (not cholera)	0	0	0	0	0	0	0	1	0	1
Yersiniosis	0	0	0	1	0	1	0	3	0	5
Total	20	250	119	1511	28	255	95	1118	262	3134

Source: Ohio Disease Reporting System, downloaded 12/19/2022.



Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)	Nov 2022	Nov 2021	YTD 2022	YTD 2021	All of 2021	5 Yr Annual Average	Rate
Anaplasmosis-Anaplasma phagocytophilum	0	0	1	0	1	0.2	0.054
Babesiosis	0	0	1	0	0	N/A	N/A
Brucellosis	0	0	0	0	0	0.4	0.108
Campylobacteriosis	1	5	65	50	58	74.6	20.086
Chlamydia	107	116	1525	1526	1645	1729.8	465.742
CP-CRE	2	2	20	15	18	13.0	3.500
Coccidioidomycosis	0	0	2	1	1	0.2	0.054
Creutzfeldt-Jakob Disease	0	0	0	3	3	1.0	0.269
Cryptosporidiosis	1	0	17	18	19	29.6	7.970
Cyclosporiasis	0	0	1	5	5	4.2	1.131
Ehrlichiosis-Ehrlichia chaffeensis	0	0	1	0	0	N/A	N/A
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	0	0	9	8	8	11.4	3.069
Giardiasis	1	3	7	6	6	12.6	3.393
Gonorrhea	39	68	706	766	841	673.0	181.203
Haemophilus influenzae , Invasive	1	2	11	9	10	6.0	1.615
Hepatitis A	0	0	1	3	3	6.6	1.777
Hepatitis B, Acute	0	0	2	2	2	6.4	1.723
Hepatitis B, Chronic	2	4	28	32	35	39.0	10.501
Hepatitis C, Acute	0	1	5	9	9	5.8	1.562
Hepatitis C, Chronic	11	17	166	189	205	256.2	68.981
Hepatitis C - Perinatal Infection	0	0	1	1	1	0.8	0.202
Influenza-associated hospitalization	62	3	178	8	15	359.2	96.713
LaCrosse virus disease	0	0	1	1	1	1.0	0.268
Legionellosis	0	1	27	30	30	18.0	6.893
Listeriosis	2	0	3	0	0	0.8	0.215
Lyme Disease	4	2	26	43	43	19.4	5.223
Malaria	1	0	2	0	0	N/A	N/A
Measles - imported from outside Ohio	0	0	0	0	0	0.2	0.054
Meningitis, Aseptic	2	2	14	17	19	25.6	6.893
Meningococcal disease- Neisseria meningitidis (call health department immediately)	0	0	1	0	0	N/A	N/A
Meningitis, Other Bacterial	0	0	1	1	1	2.4	0.646
Monkeypox	4	0	8	0	0	N/A	N/A
MIS-C associated with COVID-19 (call health department immediately)	0	1	5	9	9	N/A	N/A
Mumps	0	0	0	0	0	0.6	0.162
Pertussis	0	0	0	0	0	29.4	7.916
Salmonellosis	2	5	44	40	43	44.0	11.847
Shigellosis	0	2	10	3	3	15.4	4.146
Spotted Fever Rickettsiosis	0	0	1	0	0	0.8	0.215
Streptococcal Dis, Group A, Invasive	2	0	17	7	10	15.6	4.200
Streptococcal Dis, Group B, in Newborn	0	0	1	1	1	1.4	0.377
Streptococcus pneumoniae - inv antibiotic resistance unknown or non-resistant	0	0	17	11	15	23.0	6.193
Streptococcus pneumo - inv antibiotic resistant/intermediate	1	1	14	5	7	11.2	3.016
Syphilis, Total	9	7	105	51	64	40.8	10.985
Syphilis, Primary, Secondary and Early Latent	6	7	77	34	46	27.2	7.323
Tuberculosis	0	0	0	3	3	2.0	0.538
Varicella	2	0	4	8	8	14.8	3.985
Vibriosis - other (not cholera)	0	0	1	3	3	2.0	0.538
West Nile Virus	0	0	0	0	0	1.4	0.377
Yersiniosis	0	1	5	8	9	4.8	1.292

Source: Ohio Disease Reporting System, downloaded 12/19/2022. Rates are per 100K population and based on 5 yr average incidence 2017-2021.