

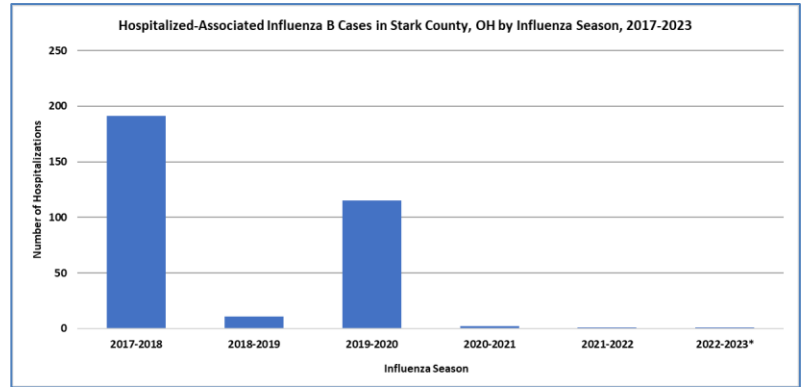
February 2023

The EpiGram is a monthly publication of the Stark County Reportable and Emerging Disease Network (REDNET). It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for each of the four local health department jurisdictions. 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 Julianna Smith at 330.451.1650 or smithj@starkhealth.org or Kaelyn Boyd at 234.458.5135 or kboyd@cantonhealth.org.



Monthly Highlight: Influenza B/Yamagata

Although COVID-19 was officially declared a pandemic nearly three years ago this March, we are still discovering its effects on the circulation of influenza viruses worldwide. Influenza B and its two lineages, B/Victoria and B/Yamagata, while less common than Influenza A, still circulate each season and can cause severe illness, hospitalizations, and death. Influenza B/Yamagata detections have decreased since 2020, with the WHO FluNet showing worldwide detections of 364, 43, and 8 specimens collected in 2020, 2021, and 2022, respectively. The sporadic cases seen in 2021 and 2022 could be vaccine-derived.



*2022-2023 Influenza Season Data up to MMWR Week 10

While this is exciting news, it's important to note that enhanced surveillance would be needed to determine if these few B/Yamagata detections are wild-type virus or vaccine-derived. When we see hospitalized influenza B cases in Stark County, subtyping is not performed. The graph to the top right shows that our Influenza B hospitalizations have dropped since the 2019-2020 season. According to data from public health laboratories across the United States, no B/Yamagata has been detected in specimens collected during this season. The extinction of the B/Yamagata lineage could have important implications for selecting influenza strains added to our seasonal vaccines each year. Possible scenarios include swapping the B/Yamagata lineage for another influenza A or B strain or removing quadrivalent vaccines and using trivalent only.

For more information:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9524051/>

<https://www.cdc.gov/flu/weekly/index.htm>

<https://www.who.int/tools/flunet>

Table 2: Select Vital Statistics for Stark County

	Feb 2023	YTD 2023	2022
Live Births	260	604	3,851
Births to Teens	13	32	183
Deaths	384	811	4,807

* Birth and death data is preliminary.

Table 3: Stark County Crude Birth Rate and Death Rates

	2018	2019	2020	2021*	2022*
Birth	10.9	11.0	10.5	10.5	10.3
Death	11.8	12.0	14.1	14.5	12.8

*Source: Data Ohio. Rates are per 1,000 population. 2021 and 2022 data is preliminary.

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

	February 2023				March 2022			
	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.				185	7	23	N/A
Mold Count					2700	200	775	N/A
Air Quality Index	81	31	50	Moderate (10)	96	33	44	Moderate (6)

**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 Select Reportable Conditions in Stark County, OH (Provisional Data)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD
Campylobacteriosis	0	1	0	1	0	1	4	5	4	8
Chlamydia infection	12	30	55	130	10	23	56	104	133	287
COVID-19 (call health department immediately)	105	210	175	401	63	167	503	1222	846	2000
CP-CRE	0	0	2	3	1	1	2	2	5	6
Cryptosporidiosis	0	0	0	0	0	0	2	4	2	4
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	0	0	0	0	0	0	1	1	1	1
Giardiasis	0	0	0	0	0	0	0	1	0	1
Gonococcal infection	4	5	32	77	2	4	12	21	50	107
Haemophilus influenzae (invasive disease)	0	0	0	0	0	1	0	3	0	4
Hepatitis B (including delta) - chronic	0	0	0	1	1	1	2	3	3	5
Hepatitis C - acute	0	0	0	1	0	0	0	0	0	1
Hepatitis C - chronic	1	5	9	15	4	4	2	6	16	30
Hepatitis C - Perinatal Infection	0	0	0	0	0	0	0	0	0	0
Influenza-associated hospitalization	0	4	2	27	1	8	2	50	5	89
Influenza-associated pediatric mortality	0	0	0	0	0	0	0	0	0	0
Lyme Disease	0	0	0	0	0	0	1	2	1	2
Meningitis - aseptic/viral	0	0	0	1	0	0	0	0	0	1
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	0	0	0	0
Meningococcal disease - Neisseria meningitidis (call health department immediately)	0	0	0	0	0	0	0	0	0	0
Monkeypox	0	0	0	0	0	0	0	0	0	0
MIS-C associated with COVID-19 (call health department immediately)	0	0	0	0	0	0	0	0	0	0
Mumps	0	0	0	0	1	1	0	0	1	1
Pertussis	0	0	0	0	0	0	0	3	0	3
Salmonellosis	1	1	0	3	1	1	1	3	3	8
Shigellosis	0	0	1	1	0	0	1	1	2	2
Spotted Fever Rickettsiosis, including Rocky Mountain spotted fever (RMSF)	0	0	0	0	0	0	0	0	0	0
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	0	0	0	0	0	0	0
Streptococcal - Group A - invasive	0	1	2	3	0	0	1	6	3	10
Streptococcal - Group B - in newborn	0	0	0	0	0	0	0	0	0	0
Streptococcal toxic shock syndrome (STSS)	0	0	0	0	0	0	0	0	0	0
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	0	1	1	0	1	2	4	3	6
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	0	1	1	1	1
Syphilis, Total	1	1	4	12	1	4	4	8	10	25
Syphilis, Primary, Secondary and Early Latent	1	1	4	10	0	3	3	6	8	20
Toxic shock syndrome (TSS)	0	0	0	0	0	0	1	1	1	1
Tuberculosis	0	0	0	0	0	0	0	0	0	0
Typhoid fever	0	0	0	0	0	0	0	0	0	0
Varicella	0	0	0	1	0	0	0	0	0	1
Vibriosis (not cholera)	0	0	0	0	0	0	0	0	0	0
Vibrio parahaemolyticus infection	0	0	0	0	0	0	0	0	0	0
West Nile virus disease (also current infection)	0	0	0	0	0	0	0	0	0	0
Yersiniosis	0	0	0	1	0	0	1	1	1	2
Zika virus infection	0	0	0	0	0	0	0	0	0	0
Total	123	257	279	667	84	213	595	1444	1081	2581

Source: Ohio Disease Reporting System, downloaded 3/20/2023.



Summary Table of Select Reportable Conditions Reported in the Previous 5 years within Stark County, OH (Provisional Data)	Feb 2023	Feb 2022	YTD 2023	YTD 2022	All of 2022	5 Year Annual Average	Rate
Anaplasmosis	0	0	0	0	1	0.4	0.11
Babesiosis	0	0	0	0	1	0.2	0.05
Campylobacteriosis	4	7	8	8	71	70.0	18.83
Chlamydia	133	119	287	273	1672	1692.8	455.46
CP-CRE	5	3	6	5	22	15.2	4.09
COVID-19 (call health department immediately)	846	1190	2000	15925	32266	19153.0	5153.29
Cryptosporidiosis	2	1	4	2	18	27.0	7.26
Cyclosporiasis	0	0	0	0	1	4.2	1.13
Ehrlichiosis-Ehrlichia chaffeensis	0	0	0	0	1	0.2	0.05
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	1	0	1	0	10	11.8	3.17
Giardiasis	0	0	1	0	7	10.8	2.91
Gonorrhea	50	57	107	140	767	715.0	192.38
Haemophilus influenzae , Invasive	0	0	4	2	12	6.8	1.83
Hepatitis A	0	0	0	0	1	6.8	1.83
Hepatitis B, Acute	0	0	0	0	2	5.2	1.40
Hepatitis B, Chronic	3	3	5	6	29	36.0	9.69
Hepatitis C, Acute	0	2	1	3	7	7.0	1.88
Hepatitis C, Chronic	16	17	30	37	185	235.6	63.39
Hepatitis C - Perinatal Infection	0	0	0	0	1	0.8	0.22
Influenza-associated hospitalization	5	0	89	5	327	334.6	90.03
LaCrosse virus disease	0	0	0	0	1	1.2	0.32
Legionellosis	0	2	0	3	28	27.8	7.48
Listeriosis	0	0	0	0	3	1.2	0.32
Lyme Disease	1	3	2	3	28	22.4	6.03
Malaria	0	0	0	0	2	0.4	0.11
Measles - imported from outside Ohio	0	0	0	0	0	0.2	0.05
Meningitis, Aseptic	0	0	1	0	14	20.6	5.54
Meningococcal disease- Neisseria meningitidis (call health department immediately)	0	0	0	0	1	0.2	0.05
Meningitis, Other Bacterial	0	1	0	1	1	2.0	0.54
Monkeypox	0	0	0	0	8	1.6	0.43
MIS-C associated with COVID-19 (call health department immediately)	0	2	0	3	5	3.2	0.86
Mumps	1	0	1	0	0	0.4	0.11
Pertussis	0	0	3	0	0	21.8	5.87
Salmonellosis	3	3	8	5	47	45.6	12.27
Shigellosis	2	2	2	2	13	13.2	3.55
Spotted Fever Rickettsiosis	0	0	0	1	1	0.6	0.16
Streptococcal Dis, Group A, Invasive	3	3	10	5	20	15.4	4.14
Streptococcal Dis, Group B, in Newborn	0	1	0	1	1	1.4	0.38
Streptococcal toxic shock syndrome (STSS)	0	0	0	0	1	0.2	0.05
Streptococcus pneumoniae - inv antibiotic resistance unknown or non-resistant	3	3	6	7	20	20.0	5.38
Streptococcus pneumo - inv antibiotic resistant/intermediate	1	1	1	4	18	11.4	3.07
Syphilis, Total	10	7	25	15	113	57.6	15.50
Syphilis, Primary, Secondary and Early Latent	8	7	20	13	84	41.4	11.14
Toxic shock syndrome (TSS)	1	0	1	0	0	N/A	N/A
Tuberculosis	0	0	0	0	0	1.6	0.43
Varicella	0	0	1	0	4	12.6	3.39

Source: Ohio Disease Reporting System, downloaded 3/20/2023. Rates are per 100K population and based on 5 yr. average incidence 2018-2022.