

June 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, Cassie Johnson at 330.451.1688 or johnsonc@starkhealth.org or Kaelyn Boyd at 234.458.5135 or kboyd@cantonhealth.org.

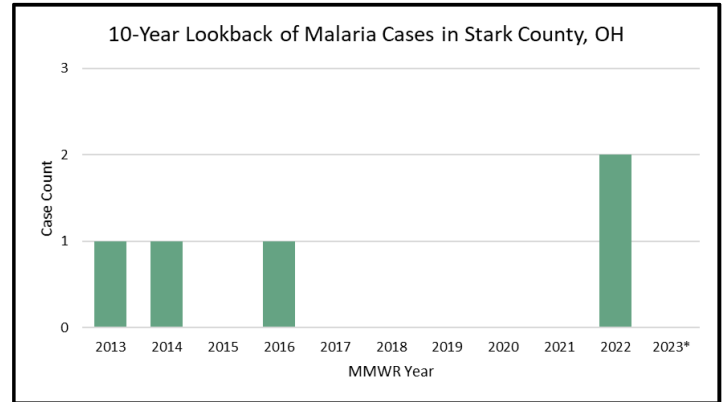


Public Health
Prevent. Promote. Protect.

Monthly Highlight: Malaria

Malaria, a mosquito-borne disease that can be caused by several parasites belonging to the *Plasmodium* family, is characterized by fever and flu-like symptoms and may cause anemia and jaundice. Once an infected female anopheline mosquito bites a human, the parasite multiplies in the host's liver before causing infection. If not promptly treated, malaria can lead to severe illness and/or death. Most cases of malaria that occur in the United States are associated with travel to endemic areas. Until recently, the last known locally-acquired cases of malaria occurred in 2003, when 8 cases were identified in Palm Beach County, FL.

In the last two months, the United States has seen seven cases of locally-acquired malaria in Florida and one in Texas. None of the cases had reported travel outside of their state before becoming ill. Clinicians are urged to consider the diagnosis of malaria in a person with a fever of unknown origin, especially if they have recently traveled either internationally to an area with known transmission or to areas in Florida or Texas where local transmission has been recently documented. In Ohio, malaria is a Class B reportable condition and cases, suspected cases and/or positive lab results should be reported to the local health department by the end of the next business day.



* Data as of July 21st, 2023

Last year Ohio reported 76 travel-associated cases, with 29% of cases reporting recent travel to Sierra Leone. As of July 20th, we have seen 43 travel-associated cases in Ohio in 2023. Here in Stark County, we have seen five cases of malaria in the past 10 years. All were associated with international travel. Although risk of locally-acquired malaria is low in Stark County, it's important to keep malaria in mind as both national and international travel is well underway for the summer.

For more information:

[-https://emergency.cdc.gov/han/2023/han00494.asp](https://emergency.cdc.gov/han/2023/han00494.asp)

[-https://odh.ohio.gov/know-our-programs/zoonotic-disease-program/news/vectorborne-disease-update](https://odh.ohio.gov/know-our-programs/zoonotic-disease-program/news/vectorborne-disease-update)

[-https://www.usatoday.com/story/graphics/2023/07/12/malaria-cases-florida-texas-explained/70400044007/](https://www.usatoday.com/story/graphics/2023/07/12/malaria-cases-florida-texas-explained/70400044007/)

Table 1: Select Vital Statistics for Stark County

	June 2023	YTD 2023	2022
Live Births	325	1,881	3,851
Births to Teens	19	101	183
Deaths	312	2,289	4,807

* Birth and death data are preliminary.

Table 2: 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 are preliminary.

Table 3: Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	June 2023				July 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	110	0	20	N/A	23	0	8	N/A
Mold Count	3,070	0	2,100	N/A	11,000	1,200	4,200	N/A
Air Quality Index	258	26	77.5	Very Unhealthy (1)	84	35	50	Moderate (7)

**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	
	June	YTD	June	YTD	June	YTD	June	YTD	June	YTD
Campylobacteriosis	0	2	0	8	0	3	7	24	7	37
Chlamydia infection	11	70	62	395	11	73	47	278	131	816
COVID-19	2	342	22	820	11	340	80	2711	115	4213
CP-CRE	0	0	0	5	0	5	3	12	3	22
Cryptosporidiosis	0	1	0	0	0	1	0	8	0	10
Cyclosporiasis	0	0	0	0	0	0	1	1	1	1
Dengue	0	0	0	0	0	0	0	0	0	0
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	0	0	1	1	0	1	1	6	2	8
Giardiasis	0	1	0	0	0	0	0	2	0	3
Gonococcal infection	3	22	17	189	5	29	12	83	37	323
Haemophilus influenzae (invasive disease)	0	0	0	0	0	1	0	7	0	8
Hepatitis B (including delta) - acute	0	0	0	1	0	0	0	0	0	1
Hepatitis B (including delta) - chronic	0	0	1	4	0	1	0	8	1	13
Hepatitis C - acute	0	0	0	1	0	0	0	1	0	2
Hepatitis C - chronic	0	12	5	37	0	12	2	20	7	81
Hepatitis C - Perinatal Infection	0	0	0	0	0	0	0	1	0	1
Hepatitis E	0	0	0	0	0	0	1	1	1	1
Influenza-associated hospitalization	0	4	0	27	0	9	1	60	1	100
Legionellosis	0	0	0	0	0	0	0	3	0	3
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	0	0	0	2	3	8	13	10	16
Meningitis - aseptic/viral	0	0	1	4	0	0	2	4	3	8
Meningitis - bacterial (Not N. meningitidis)	0	0	0	1	0	0	0	0	0	1
Mumps	0	0	0	0	0	1	0	0	0	1
Pertussis	0	0	0	0	0	0	0	3	0	3
Salmonellosis	0	1	0	3	0	2	4	14	4	20
Shigellosis	0	0	0	1	0	0	0	4	0	5
Streptococcal - Group A -invasive	1	4	1	6	0	0	4	21	6	31
Streptococcal - Group B - in newborn	0	0	0	0	0	0	0	1	0	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	1	0	3	0	2	2	13	2	19
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	1	2	0	0	0	1	1	3
Syphilis, Total	0	2	6	32	3	9	5	20	14	63
Syphilis, Primary, Secondary and Early Latent	0	2	3	23	1	3	4	14	8	42
Toxic shock syndrome (TSS)	0	0	0	0	0	0	0	1	0	1
Tuberculosis	0	0	0	0	0	1	0	1	0	2
Varicella	0	0	0	3	1	1	0	2	1	6
Yersiniosis	0	0	1	2	0	2	1	4	2	8
Total	17	462	118	1545	33	496	181	3329	349	5832

Source: Ohio Disease Reporting System, downloaded 7/12/2023.



Summary Table of Select Reportable Conditions Reported in the Previous 5 years within Stark County, OH (Provisional Data)	June 2023	June 2022	YTD 2023	YTD 2022	All of 2022	5 Year Annual Average	Rate
Campylobacteriosis	7	6	37	29	71	70.0	18.83
Chlamydia	131	131	816	808	1672	1692.8	455.46
CP-CRE	3	2	22	12	22	15.2	4.09
Coccidioidomycosis	0	0	0	1	2	0.6	0.16
COVID-19	115	1844	4213	20668	32266	19153.0	5153.29
Cryptosporidiosis	0	0	10	7	18	27.0	7.26
Cyclosporiasis	1	0	1	0	1	4.2	1.13
Ehrlichiosis-Ehrlichia chaffeensis	0	1	0	1	1	0.2	0.05
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	2	2	8	5	10	11.8	3.17
Giardiasis	0	1	3	1	7	10.8	2.91
Gonorrhea	37	62	323	389	767	715.0	192.38
Haemophilus influenzae , Invasive	0	1	8	5	12	6.8	1.83
Hepatitis B, Acute	0	0	1	1	2	5.2	1.40
Hepatitis B, Chronic	1	3	13	15	29	36.0	9.69
Hepatitis C, Acute	0	1	2	5	7	7.0	1.88
Hepatitis C, Chronic	7	12	81	104	185	235.6	63.39
Hepatitis C - Perinatal Infection	0	1	1	1	1	0.8	0.22
Influenza-associated hospitalization	1	3	100	112	327	334.6	90.03
Legionellosis	0	6	3	15	28	27.8	7.48
Listeriosis	0	0	1	1	3	1.2	0.32
Lyme Disease	10	2	16	11	28	22.4	6.03
Malaria	0	0	0	1	2	0.4	0.11
Meningitis, Aseptic	3	3	8	5	14	20.6	5.54
Meningococcal disease- Neisseria meningitidis	0	0	0	0	1	0.2	0.05
Meningitis, Other Bacterial	0	0	1	1	1	2.0	0.54
Monkeypox	0	0	0	0	8	1.6	0.43
MIS-C associated with COVID-19	0	0	0	5	5	3.2	0.86
Mumps	0	0	1	0	0	0.4	0.11
Pertussis	0	0	3	0	0	21.8	5.87
Salmonellosis	4	3	20	22	47	45.6	12.27
Shigellosis	0	0	5	4	13	13.2	3.55
Spotted Fever Rickettsiosis	0	0	0	1	1	0.6	0.16
Streptococcal Dis, Group A, Invasive	6	0	31	12	20	15.4	4.14
Streptococcal Dis, Group B, in Newborn	0	0	1	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	2	0	19	11	20	20.0	5.38
Streptococcus pneumo - inv antibiotic resistant/intermediate	1	0	3	10	18	11.4	3.07
Syphilis, Total	14	12	63	58	113	57.6	15.50
Syphilis, Primary, Secondary and Early Latent	8	8	42	44	84	41.4	11.14
Toxic shock syndrome (TSS)	0	0	1	0	0	N/A	N/A
Tuberculosis	0	0	2	0	0	1.6	0.43
Varicella	1	0	6	2	4	12.6	3.39
Vibriosis - other (not cholera)	0	0	0	0	1	1.8	0.48
Yersiniosis	2	1	8	4	5	5.0	1.35

Source: Ohio Disease Reporting System, downloaded 7/12/2023. Rates are per 100K population and based on 5 yr. average incidence 2018-2022.