

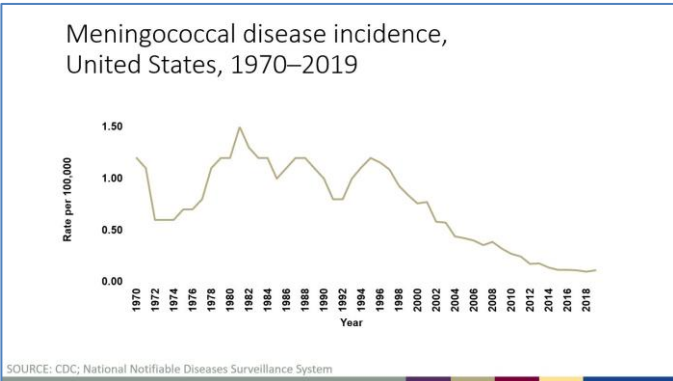


Monthly Highlight: Meningococcal Disease

Meningococcal disease is a rare, but serious, disease caused by the bacteria *Neisseria meningitidis*. The two most common meningococcal infections include meningitis and septicemia. Symptoms of both include fever, chills and vomiting. Meningococcal meningitis symptoms also include headache, stiff neck and altered mental status while meningococcal septicemia symptoms present as severe aches and pains, cold hands and feet and a dark purple rash. Although there are six serogroups of this bacteria, serogroups B, C and Y cause most illnesses seen in the United States. Rates of meningococcal disease have declined in the past thirty years and remain low today. In 2019, there were around 371 total cases reported in the United States. Stark County has had one confirmed case in the past five years.



Staying up-to-date with meningococcal vaccinations is one of the best tools we have to prevent this disease. There are two vaccines licensed in the United States: Meningococcal conjugate (MenACWY) vaccine and Serogroup B meningococcal (MenB) vaccine. All eligible eleven to twelve year olds should get the MenACWY vaccine, with a booster at sixteen. Teens may also get the MenB vaccine at sixteen to eighteen years of age. Other groups of individuals may be recommended either the MenACWY or MenB vaccine if they are at an increased risk of meningococcal disease. Other prevention strategies include avoiding sharing silverware, drinks, cosmetics or anything else that may come in contact with the mouth.



For more information: <https://www.cdc.gov/meningococcal/index.html>

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

| | August 2022 | | | | September 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 | 97 | 3 | 14 | N/A | 131 | 1 | 23 | N/A |
| Mold Count | 12,200 | 3,200 | 5,000 | Moderate (7) | 14,390 | 3,100 | 9,090 | High (3) |
| Air Quality Index | 61 | 26 | 43 | Moderate (4) | 61 | 24 | 43 | Moderate (3) |

**See the following websites for updated Air Quality Index and mold index terminology and color coding: <http://www.airnow.gov/index.cfm?action=agibasics.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.

Table 2: Select Vital Statistics for Stark County

| | Aug 2022 | YTD 2022 | 2021 |
|-----------------|----------|----------|-------|
| Live Births | 374 | 2,546 | 3,929 |
| Births to Teens | 9 | 122 | 214 |
| Deaths | 394 | 3,219 | 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.

| Jurisdictional Summary of Reportable Conditions in Stark County, OH (Provisional Data) | Alliance City | | Canton City | | Massillon City | | Stark County | | All Departments | |
|--|---------------|------------|-------------|-------------|----------------|------------|--------------|------------|-----------------|-------------|
| | Aug | YTD | Aug | YTD | Aug | YTD | Aug | YTD | Aug | 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 | 3 | 0 | 8 | 0 | 1 | 8 | 34 | 8 | 46 |
| Chlamydia infection | 9 | 70 | 81 | 552 | 13 | 102 | 50 | 375 | 153 | 1099 |
| CP-CRE | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 12 | 2 | 16 |
| Coccidioidomycosis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Cryptosporidiosis | 0 | 0 | 1 | 2 | 0 | 0 | 3 | 12 | 4 | 14 |
| 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 | 2 | 6 | 2 | 7 |
| Ehrlichiosis-Ehrlichia chaffeensis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Giardiasis | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 2 |
| Gonococcal infection | 14 | 60 | 35 | 309 | 3 | 32 | 9 | 118 | 61 | 519 |
| Haemophilus influenzae (invasive disease) | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 5 | 1 | 7 |
| Hepatitis A | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Hepatitis B (including delta) - acute | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Hepatitis B (including delta) - chronic | 3 | 4 | 1 | 6 | 0 | 4 | 1 | 8 | 5 | 22 |
| Hepatitis C - acute | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 5 |
| Hepatitis C - chronic | 3 | 10 | 8 | 60 | 3 | 9 | 3 | 55 | 17 | 134 |
| 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 | 0 | 7 | 0 | 36 | 0 | 4 | 0 | 65 | 0 | 112 |
| Legionellosis | 0 | 0 | 3 | 7 | 0 | 0 | 6 | 20 | 9 | 27 |
| Listeriosis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Lyme Disease | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 10 | 2 | 11 |
| Malaria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Meningitis - aseptic/viral | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 4 | 0 | 9 |
| 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 | 1 | 1 | 1 | 1 |
| Monkeypox | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 2 |
| MIS-C associated with COVID-19 (call health department immediately) | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 5 |
| Salmonellosis | 0 | 2 | 1 | 9 | 1 | 2 | 5 | 23 | 7 | 36 |
| Shigellosis | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 7 | 3 | 9 |
| 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 | 0 | 6 | 0 | 1 | 0 | 6 | 0 | 13 |
| Streptococcal - Group B - in newborn | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant | 1 | 1 | 0 | 5 | 0 | 1 | 0 | 6 | 1 | 13 |
| Streptococcus pneumoniae - invasive antibiotic resistant/intermediate | 0 | 1 | 1 | 4 | 0 | 1 | 0 | 7 | 1 | 13 |
| Syphilis, Total | 1 | 5 | 6 | 38 | 1 | 3 | 4 | 26 | 12 | 72 |
| Syphilis, Primary, Secondary and Early Latent | 1 | 4 | 3 | 24 | 0 | 1 | 3 | 21 | 7 | 50 |
| Varicella | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| Yersiniosis | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 5 |
| Total | 32 | 171 | 140 | 1078 | 21 | 172 | 106 | 847 | 299 | 2268 |

Source: Ohio Disease Reporting System, downloaded 09/30/2022.



| Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data) | Aug 2022 | Aug 2021 | YTD 2022 | YTD 2021 | All of 2021 | 5 Year 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 |
| Campylobacteriosis | 8 | 7 | 46 | 32 | 58 | 74.6 | 20.086 |
| Chlamydia | 153 | 148 | 1099 | 1144 | 1645 | 1729.8 | 465.742 |
| CP-CRE | 2 | 0 | 16 | 8 | 18 | 13.0 | 3.500 |
| Coccidioidomycosis | 0 | 0 | 2 | 1 | 1 | 0.2 | 0.054 |
| Creutzfeldt-Jakob Disease | 0 | 0 | 0 | 2 | 3 | 1.0 | 0.269 |
| Cryptosporidiosis | 4 | 4 | 14 | 14 | 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) | 2 | 2 | 7 | 6 | 8 | 11.4 | 3.069 |
| Giardiasis | 1 | 0 | 2 | 2 | 4 | 12.6 | 3.393 |
| Gonorrhea | 61 | 83 | 519 | 552 | 842 | 673.0 | 181.203 |
| Haemophilus influenzae, Invasive | 1 | 1 | 7 | 4 | 10 | 6.0 | 1.615 |
| Hepatitis A | 1 | 1 | 1 | 2 | 3 | 6.6 | 1.777 |
| Hepatitis B, Acute | 0 | 0 | 1 | 0 | 2 | 6.4 | 1.723 |
| Hepatitis B, Chronic | 5 | 2 | 22 | 24 | 35 | 39.0 | 10.501 |
| Hepatitis C, Acute | 0 | 0 | 5 | 6 | 9 | 5.8 | 1.562 |
| Hepatitis C, Chronic | 17 | 8 | 134 | 141 | 202 | 256.2 | 68.981 |
| Hepatitis C - Perinatal Infection | 0 | 0 | 1 | 1 | 1 | 0.8 | 0.202 |
| Influenza-associated hospitalization | 0 | 0 | 112 | 5 | 15 | 359.2 | 96.713 |
| LaCrosse virus disease | 0 | 0 | 0 | 0 | 1 | 1.0 | 0.268 |
| Legionellosis | 9 | 5 | 27 | 22 | 30 | 18.0 | 6.893 |
| Listeriosis | 0 | 0 | 1 | 0 | 0 | 0.8 | 0.215 |
| Lyme Disease | 2 | 6 | 11 | 39 | 43 | 19.4 | 5.223 |
| Malaria | 0 | 0 | 1 | 0 | 0 | N/A | N/A |
| Meningitis, Aseptic | 0 | 2 | 9 | 11 | 19 | 25.6 | 6.893 |
| Meningococcal disease- Neisseria meningitidis (call health department immediately) | 1 | 0 | 1 | 0 | 0 | N/A | N/A |
| Meningitis, Other Bacterial | 0 | 0 | 1 | 1 | 1 | 2.4 | 0.646 |
| Monkeypox | 1 | 0 | 2 | 0 | 0 | N/A | N/A |
| MIS-C associated with COVID-19 (call health department immediately) | 0 | 0 | 5 | 6 | 9 | N/A | N/A |
| Salmonellosis | 7 | 5 | 36 | 28 | 43 | 44.0 | 11.847 |
| Shigellosis | 3 | 0 | 9 | 1 | 3 | 15.4 | 4.146 |
| Spotted Fever Rickettsiosis | 0 | 0 | 1 | 0 | 0 | 0.8 | 0.215 |
| Streptococcal Dis, Group A, Invasive | 0 | 1 | 13 | 4 | 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 | 1 | 2 | 13 | 8 | 15 | 23.0 | 6.193 |
| Streptococcus pneumo – inv. antibiotic resistant/intermediate | 1 | 2 | 13 | 4 | 7 | 11.2 | 3.016 |
| Syphilis, Total | 12 | 2 | 72 | 28 | 64 | 40.8 | 10.985 |
| Syphilis, Primary, Secondary and Early Latent | 7 | 1 | 50 | 14 | 46 | 27.2 | 7.323 |
| Tuberculosis | 0 | 0 | 0 | 2 | 3 | 2.0 | 0.538 |
| Varicella | 0 | 1 | 2 | 6 | 8 | 14.8 | 3.985 |
| Vibriosis - other (not cholera) | 0 | 1 | 0 | 2 | 3 | 2.0 | 0.538 |
| Yersiniosis | 0 | 1 | 5 | 6 | 9 | 4.8 | 1.292 |

Source: Ohio Disease Reporting System, downloaded 09/30/2022. Rates are per 100K population and based on 5 yr average incidence 2017-2021.