

May 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.

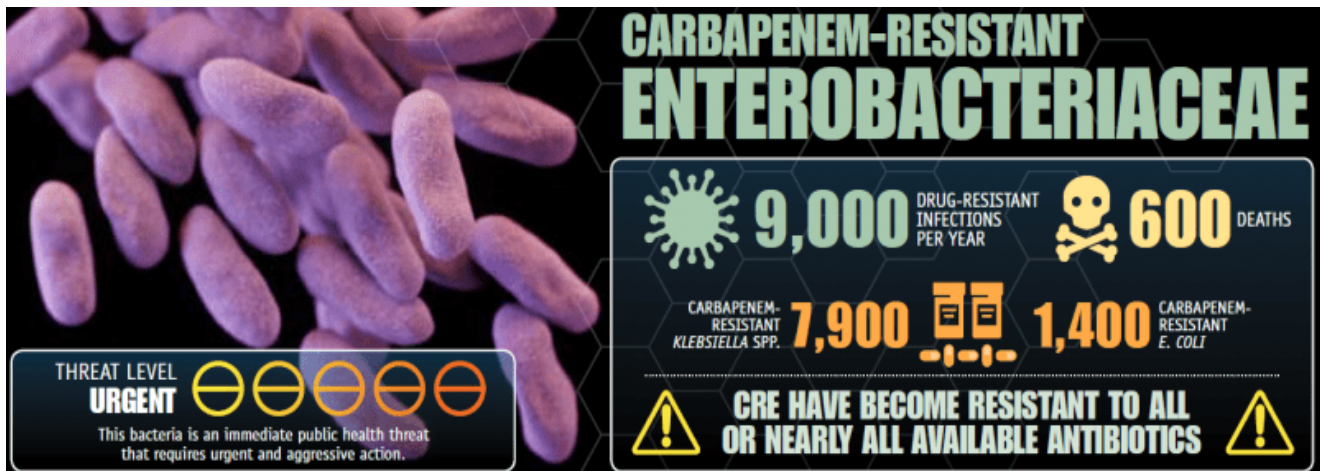


Public Health
Prevent. Promote. Protect.

Monthly Highlight: CP-CRE

Carbapenemase-Producing Carbapenem-Resistant Enterobacteriaceae, or CP-CRE, are bacteria often found in a person's GI tract and have a high level of resistance to antibiotics. CP-CRE is most often spread person-to-person through direct contact but is able to survive on inanimate objects, allowing it to also spread through contaminated surfaces and healthcare equipment. Due to these factors, it is especially harmful in healthcare facilities, such as long-term care facilities. Most patients in these facilities already are immunocompromised and in need of medical devices, like catheters, which increases their likelihood of becoming infected with CP-CRE. This, along with the fact that CP-CRE is highly resistant to antibiotics, makes it especially dangerous for those who live or frequently stay in healthcare facilities. As long as the organism is present, it can be spread. It is important to watch out for any UTI symptoms, as CP-CRE is commonly found in those with a urinary catheter and can resemble UTI symptoms.

We have seen an increase in CP-CRE cases in our county, with 20 cases reported so far in 2023. For all of 2022, there were only 22 cases of CP-CRE reported. This increase could be contributed to the inclusion of new organisms under the [CP-CRE definition](#), which was an important step in controlling the spread of CP-CRE.



In order to help control and prevent spread of these organisms, it is important for all healthcare facilities to have a plan in place. This should include proper precautions, like use of PPE and proper hand hygiene techniques, and putting patients into appropriate transmission-based precautions. It is preferred that patients with CP-CRE have a separate room, but if not possible, it's important to make sure their roommate is not immunocompromised nor requires invasive medical devices. It is also important that facility's flag a patient's chart to indicate CP-CRE. If a patient needs to be transferred, the transferring facility should make the receiving facility aware of the patient's CP-CRE status.

For more information:

[Carbapenemase-Producing Carbapenem-Resistant Enterobacteriaceae \(CP-CRE\) | Ohio Department of Health Clinicians: Information about CRE | HAI | CDC](#)

Table 1: Select Vital Statistics for Stark County

	May 2023	YTD 2023	2022
Live Births	316	1,551	3,851
Births to Teens	15	82	183
Deaths	363	1,967	4,807

* Birth and death data is 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 is preliminary.

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

	May 2023				June 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	283	13	158	N/A	161	0	15	N/A
Mold Count	1,826	300	606	N/A	8,300	0	2,400	N/A
Air Quality Index	119	30	54	Unhealthy for Sensitive Groups (1)	136	33	50	Unhealthy for Sensitive Groups (2)

**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	
	May	YTD	May	YTD	May	YTD	May	YTD	May	YTD
Campylobacteriosis	1	2	1	8	2	3	5	17	9	30
Chlamydia infection	10	59	67	334	19	63	44	232	140	688
COVID-19	15	340	34	798	24	329	165	2623	238	4090
CP-CRE	0	0	1	5	4	5	0	10	5	20
Cryptosporidiosis	0	1	0	0	1	1	2	8	3	10
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	0	0	0	0	1	1	0	5	1	6
Gonococcal infection	8	20	31	174	10	24	19	71	68	289
Haemophilus influenzae (invasive disease)	0	0	0	0	0	1	1	7	1	8
Hepatitis B (including delta) - chronic	0	0	1	3	0	1	2	8	3	12
Hepatitis C - acute	0	0	0	1	0	0	0	0	0	1
Hepatitis C - chronic	0	11	6	31	4	12	8	19	18	73
Hepatitis C - Perinatal Infection	0	0	0	0	0	0	0	1	0	1
Influenza-associated hospitalization	0	4	0	27	0	0	2	59	2	99
Legionellosis	0	0	0	0	0	0	1	3	1	3
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	0	0	0	1	1	0	4	1	5
Meningitis - aseptic/viral	0	0	1	3	0	0	0	2	1	5
Meningitis - bacterial (Not N. meningitidis)	0	0	0	1	0	0	0	0	0	1
Pertussis	0	0	0	0	0	0	0	3	0	3
Salmonellosis	0	1	0	3	1	2	4	10	5	16
Shigellosis	0	0	0	1	0	0	0	4	0	5
Streptococcal - Group A -invasive	1	3	0	5	0	0	4	17	5	25
Streptococcal - Group B - in newborn	0	0	0	0	0	0	1	1	1	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	1	2	3	0	2	1	11	4	17
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	1	1	0	0	0	1	1	2
Syphilis, Total	1	2	6	30	1	5	2	16	10	53
Syphilis, Primary, Secondary and Early Latent	1	2	5	22	0	2	1	11	7	37
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	2	3	0	0	1	2	3	5
Yersiniosis	0	0	0	1	0	0	0	2	0	3
Total	37	444	153	1432	68	451	262	3139	520	5475

Source: Ohio Disease Reporting System, downloaded 6/20/2023.



Summary Table of Select Reportable Conditions Reported in the Previous 5 years within Stark County, OH (Provisional Data)	May 2023	May 2022	YTD 2023	YTD 2022	All of 2022	5 Year Annual Average	Rate
Anaplasmosis	0	0	0	0	1	0.4	0.11
Campylobacteriosis	9	6	30	23	71	70.0	18.83
Chlamydia	140	125	688	677	1672	1692.8	455.46
CP-CRE	5	0	20	10	22	15.2	4.09
Coccidioidomycosis	0	1	0	1	2	0.6	0.16
COVID-19	238	2080	4090	18824	32266	19153.0	5153.29
Cryptosporidiosis	3	2	10	7	18	27.0	7.26
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	1	2	6	3	10	11.8	3.17
Giardiasis	0	0	3	0	7	10.8	2.91
Gonorrhea	68	46	289	327	767	715.0	192.38
Haemophilus influenzae , Invasive	1	0	8	4	12	6.8	1.83
Hepatitis B, Acute	1	0	1	1	2	5.2	1.40
Hepatitis B, Chronic	3	3	12	12	29	36.0	9.69
Hepatitis C, Acute	0	0	1	4	7	7.0	1.88
Hepatitis C, Chronic	18	14	73	92	185	235.6	63.39
Hepatitis C - Perinatal Infection	0	0	1	0	1	0.8	0.22
Influenza-associated hospitalization	2	14	99	109	327	334.6	90.03
LaCrosse virus disease	0	0	0	0	1	1.2	0.32
Legionellosis	1	2	3	9	28	27.8	7.48
Listeriosis	0	0	1	1	3	1.2	0.32
Lyme Disease	1	1	5	9	28	22.4	6.03
Malaria	0	0	0	1	2	0.4	0.11
Meningitis, Aseptic	1	0	5	2	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	5	7	16	19	47	45.6	12.27
Shigellosis	0	0	5	4	13	13.2	3.55
Streptococcal Dis, Group A, Invasive	5	3	25	12	20	15.4	4.14
Streptococcal Dis, Group B, in Newborn	1	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	4	2	17	11	20	20.0	5.38
Streptococcus pneumo - inv antibiotic resistant/intermediate	1	2	2	10	18	11.4	3.07
Syphilis, Total	10	11	53	46	113	57.6	15.50
Syphilis, Primary, Secondary and Early Latent	7	7	37	36	84	41.4	11.14
Tuberculosis	0	0	2	0	0	1.6	0.43
Varicella	3	0	5	2	4	12.6	3.39
Yersiniosis	2	1	5	3	5	5.0	1.35

Source: Ohio Disease Reporting System, downloaded 6/20/2023. Rates are per 100K population and based on 5 yr. average incidence 2018-2022.