2023 Annual Communicable Disease Report



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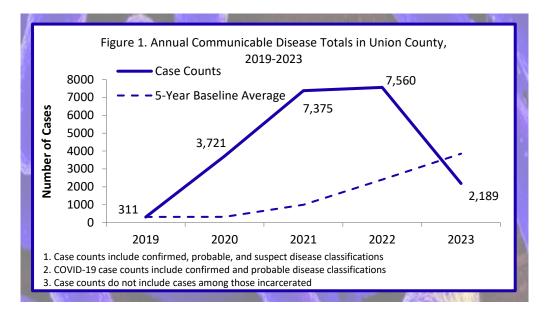
[The front cover photo is of Escherichia coli

taken by The National Institute of Allergy and Infectious Diseases (NIAID)]

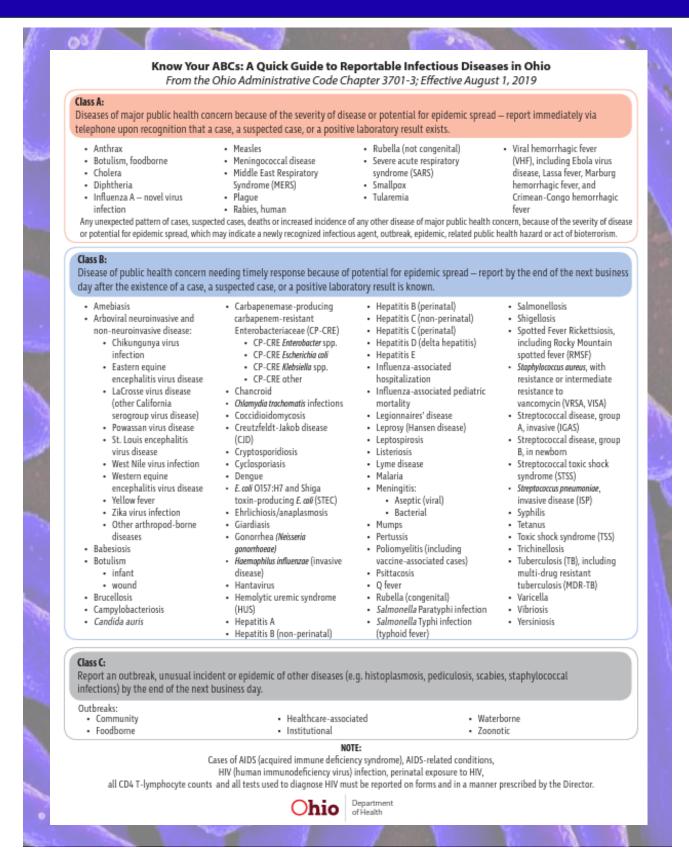
Communicable Disease Summary

This report provides an overview of the reportable diseases occurring within Union County, Ohio. Nearly 90 diseases are reportable to public health officials per Ohio Administrative Code 3701-3 (see Page 3 for a complete list of these illnesses). These diseases are broken down into classes based on their severity and potential for epidemic spread. Each class of disease has a different timeframe in which they are required to be reported to the local health department. Class A diseases must be reported by telephone within one hour while Class B and C diseases are required to be reported by the end of the next business day. Class B diseases are reported by fax or direct entry into the Ohio Disease Reporting System (ODRS) and Class C diseases are primarily reported by telephone. Using ODRS, health departments monitor the health of the community, investigate how individuals became ill, provide education to those ill, and assist medical providers in the treatment and management of these contagious diseases.

In 2023, Union County saw a 71.0% decrease in communicable disease cases from 2022 (7,560 and 2,189 cases, respectively). Overall, 58.0% of cases were female and 41.9% were male. Cases ranged in age from 4 days to 100 years old with an average age of 42.9 years and a median age of 41 years. The most frequently reported illnesses were COVID-19 (1,925 cases), chlamydia (115 cases), gonorrhea (23 cases), Hepatitis C (18 cases), and salmonella (16 cases). Figure 1. shows the number of disease cases occurring annually over the past five years. Table 1. on Page 4 lists the diseases reported in the community in 2023 and the number of cases for each of these illnesses. Additionally, the figure on Page 5 categorizes those illnesses by type. The remainder of this document provides epidemiological information, brief demographic information, and disease trends for each of the top five illnesses reported over the past five years.



Ohio's Reportable Diseases^{1,2}



¹COVID-19 was added as a Class A disease in 2021 then moved to a Class B in 2023. ²Mpox formerly known as monkeypox was added as a Class A disease in 2023

Diseases Reported in 2023

Table 1. Communicable Disease Cases ¹ Reported in Union County, 2023		
	Number of Cases ²	Case Rate ³
Class B Reportable Diseases		
Campylobacteriosis	15	22
Chlamydia	115	172
Coccidioidomycosis	1	1
Coronavirus Disease 2019 (COVID-19) ⁴	1,925	2,878
Cryptosporidiosis	4	6
Cyclosporiasis	3	4
E. coli, Shiga Toxin-Producing	5	7
Giardiasis	2	3
Gonorrhea	23	34
Haemophilus influenzae (invasive disease)	1	1
Hepatitis A	2	3
Hepatitis B (including delta)	9	13
Hepatitis C	17	25
Hepatitis C - Perinatal Infection	1	1
Influenza-Associated Hospitalization	6	9
Legionnaires' Disease	1	1
Listeriosis	2	3
Lyme Disease	7	10
Meningitis - aseptic/viral	2	3
Meningitis - bacterial (Not N. meningitidis)	1	1
Mumps	1	1
Pertussis	1	1
Salmonella Typhi	1	1
Salmonellosis	15	22
Shigellosis	2	3
Streptococcal Disease - Group A -invasive	3	4
Streptococcal Disease - Group B - in newborn	1	1
Streptococcus pneumoniae - invasive antibiotic resistance	2	3
Syphilis	10	15
Tuberculosis	2	3
Varicella	4	6
Vibriosis (not cholera)	2	3
Yersiniosis	3	4
Grand Total	2,189	3,272
Class C Reportable Disease	-	-,-,- -
Coronavirus Disease 2019 (COVID-19) 14		
Conjunctivitis	2	
Gastrointestinal Illness, Unknown	1	
Hand, Foot, and Mouth Disease	2	
Strep Throat	6	
Grand Total	25	
¹ Case counts include confirmed, probable and suspected disease classifications		

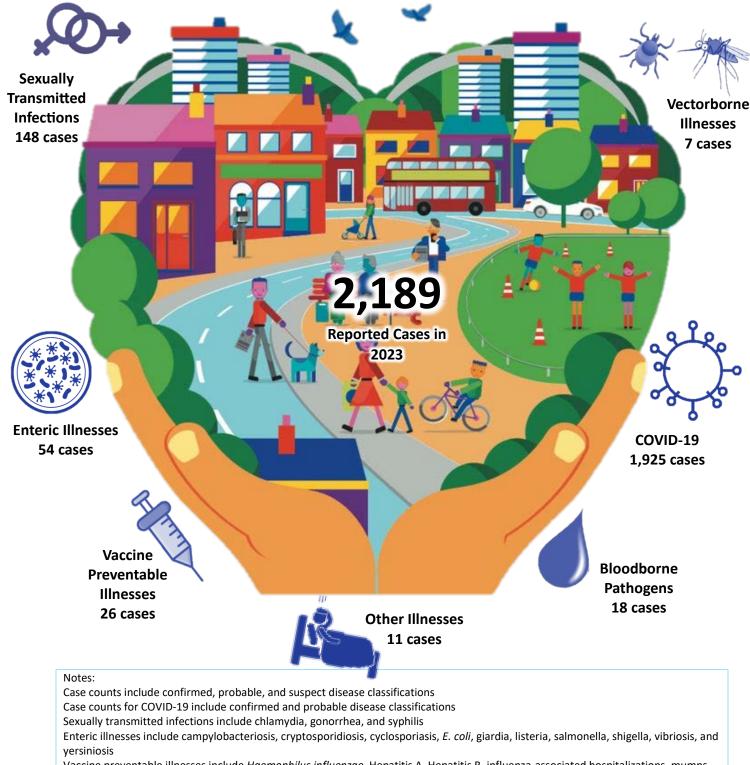
¹Case counts include confirmed, probable and suspected disease classifications

²Case counts do not include cases occurring among those incarcerated in Union County

³Case rates per 100,000 people

⁴COVID-19 cases only include confirmed and probable disease classifications

Types of Diseases Reported



Vaccine preventable illnesses include Haemophilus influenzae, Hepatitis A, Hepatitis B, influenza-associated hospitalizations, mumps, pertussis, *Streptococcus pneumoniae*, and varicella

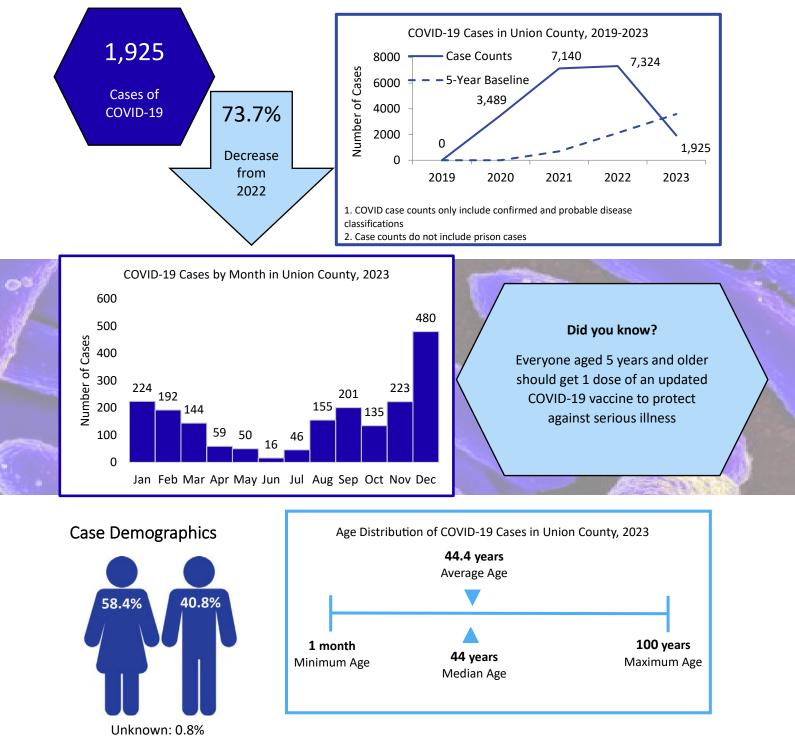
Bloodborne pathogens include Hepatitis C and perinatal Hepatitis C

Vectorborne illnesses include Lyme disease

Other illnesses include coccidioidomycosis, Legionnaires' disease, viral meningitis, bacterial meningitis, streptococcal disease, and tuberculosis

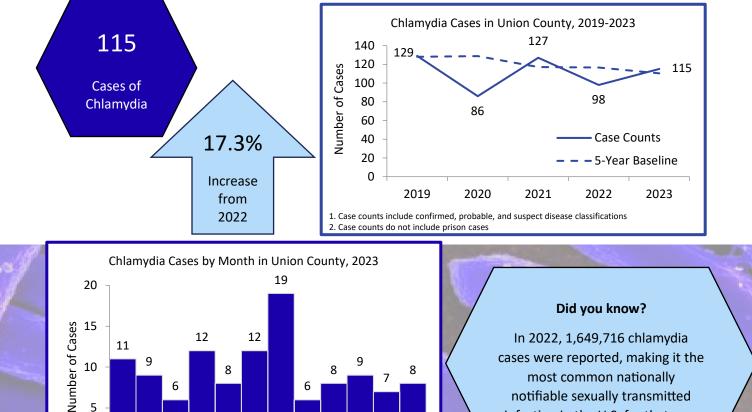
COVID-19

This illness is caused by the species of the Coronaviridae virus family- SARS-CoV-2. First discovered in Wuhan, China in 2019, this virus quickly transmitted worldwide causing the COVID-19 pandemic. People often develop symptoms 1-14 days after exposure. Prevention includes avoiding those ill with COVID-19, social distancing, wearing a cloth facemask that covers the mouth and nose, handwashing, and disinfecting frequently touched surfaces. Vaccination reduces likelihood of serious illness.



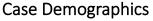
Chlamydia

This sexually transmitted infection is caused by the bacteria Chlamydia trachomatis. People often develop symptoms 7-21 days after exposure. Prevention includes abstinence, appropriate condom use, and identification and treatment of sexual contacts of those infected with Chlamydia.

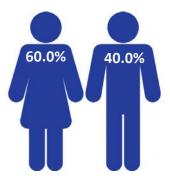


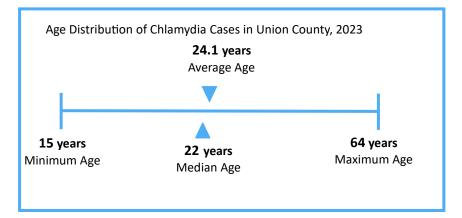
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

infection in the U.S. for that year



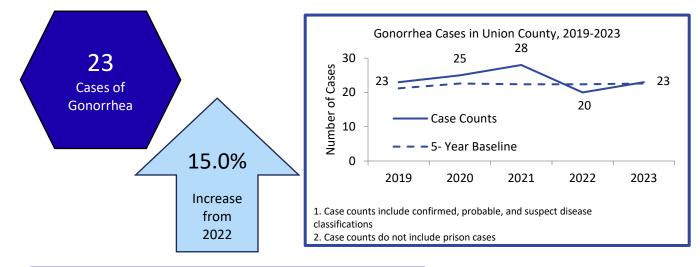
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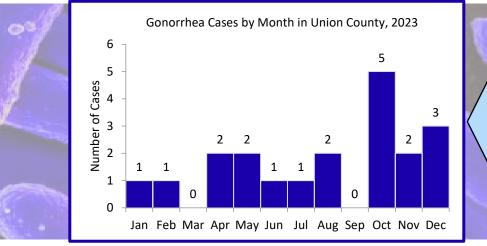




Gonorrhea

This infection is caused by the sexually transmitted bacteria *Neisseria gonorrhoeae*. People often develop symptoms 3-8 days after exposure. The best prevention for this infection includes abstinence, appropriate condom use, and identification and treatment of sexual contacts of those infected with gonorrhea.

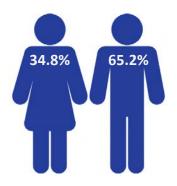


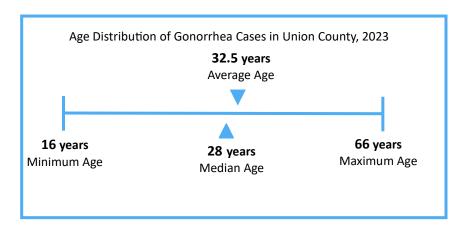


Did you know?

Since 2013, rates of reported gonorrhea have been higher among men compared to women

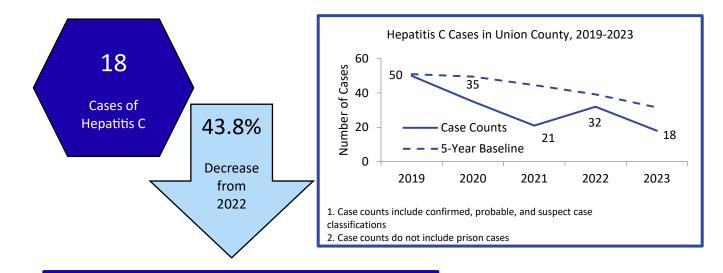
Case Demographics

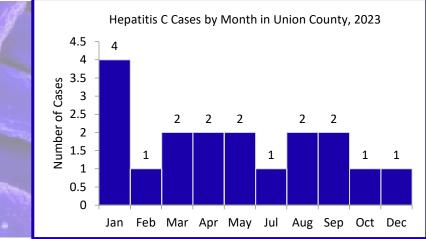




Hepatitis C

This bloodborne infection is caused by the Hepatitis C virus. Transmission mainly occurs through injection drug use; however, it may also occur sexually, through inadequately cleaned medical devices, exposure to blood in the workplace, or through birth. Individuals often become ill 2 weeks to 6 months after exposure. Currently no vaccine is available for this infection.

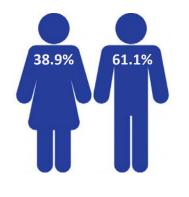


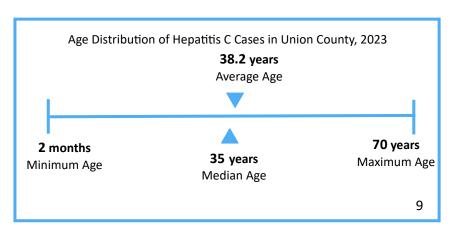


Did you know?

There has been a shift in newly reported chronic Hepatitis C from those 65+ years old to persons aged 30–39 years followed by those aged 40–49 years.

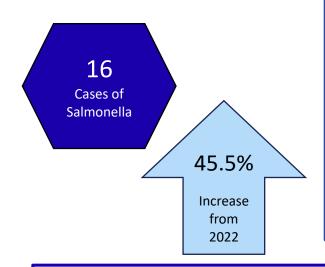
Case Demographics

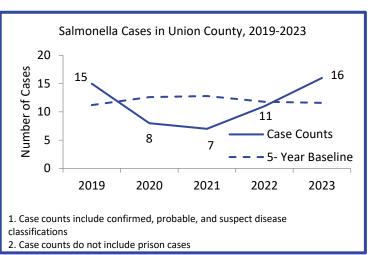


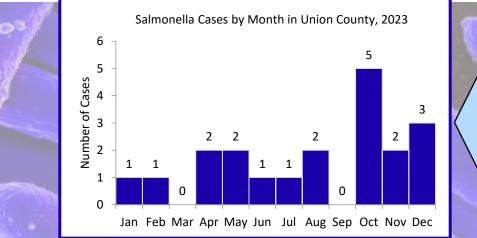


Salmonella

There are over 2,500 different types of the Salmonella bacteria. Transmission occurs fecal-orally, from animals, or from ingestion of tainted food or water. Individuals with this illness become ill 6-72 hours after exposure. Prevention includes thoroughly cooking meats and eggs, avoiding cross-contaminating food with raw meat juices and by washing hands after contact with animals and before preparing foods.

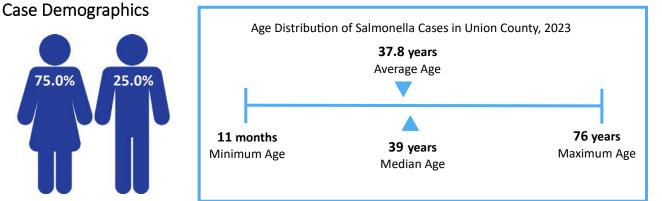








CDC estimates there are about 1.35 million cases of salmonella, with 26,500 hospitalizations and 420 deaths annually in the US



Contact Information

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Prepared by the Union County Health Department's epidemiologist. All data was queried from the Ohio Disease Reporting System's Data Extract on February 7, 2024

