



McHenry County Department of Health
Reportable Conditions Report
2023

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INTRODUCTION

The McHenry County Department of Health (MCDH) collects monthly report data on all Illinois Reportable Diseases as defined by the Illinois Department of Public Health (IDPH). This report summarizes the incident cases of all IDPH reportable conditions during the current year. The frequency of incident cases are reported for each month. Incident cases include both probable and confirmed cases. Summary statistics for each reportable condition are reported and include: annual total, annual rate, and annual reference. The definition (and calculation) of these summary statistics can be found below. Reportable conditions are separated by disease category: arboviral infections, gastrointestinal illnesses, sexually transmitted infections, tick borne diseases, vaccine preventable diseases, and other diseases.

DEFINITION OF TERMS

Incident Case

Incident cases are all newly diagnosed cases in a given timeframe. The frequency of incident cases for each month for the current year are presented in the tables below.

Annual Total

The annual total (**2023 Total**) represents the frequency of new cases that occurred during 2023. It is calculated for each condition as the sum of the frequency of incident cases for all months. The annual total for each disease category are also reported.

Annual Rate

The annual rate (**2023 Rate**) is reported for each condition (and disease category) as the annual rate of disease per 100,000 population. It can be interpreted as the number of incident cases per 100,000 residents of McHenry County. It is calculated as the annual total divided by the current population of McHenry County (based on the US Census Bureau, 2017-2021 ACS 5-year Estimates for McHenry County: 310,749 people) multiplied by 100,000; this is represented mathematically as:

$$\text{Annual Rate} = \frac{\text{2023 Total}}{310,749} * 100,000$$

Annual Reference

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Annual reference (**An. Ref**) serves as a historical reference to detect reportable conditions that are higher than average for the year based on historical data. When the annual total is greater than the annual reference (i.e. 2023 Total > An. Ref), this indicates that a condition is tracking higher than average (note: a condition that is tracking higher than average does not necessarily indicate the occurrence of an outbreak; the MCDH Epidemiology and CD programs use this data in conjunction with other investigative methods to monitor the spread of illness in the county and identify outbreaks). The past 5-year year-to-date median was used for the calculation of reference values in all cases except where data was unavailable for the past 5 years (median calculated based on available years in these cases).

ARBOVIRAL INFECTIONS

Three arboviral infections were reported in 2023. The annual rate of all arboviral infections is 1.0 case per 100,000 residents of McHenry County. Table 1 summarizes the frequency of incident cases of all arboviral infections for 2023 (if a reportable arboviral infection is not shown in Table 1, then it has had no cases from January 2018 to December 2023).

Table 1. Arboviral Infections

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2023 Total	2023 Rate	An. Ref
Dengue Fever	0	0	0	0	0	0	0	0	0	1	0	0	1	0.3	0
West Nile: Neuroinvasive	0	0	0	0	0	0	0	0	1	0	0	0	1	0.3	0
West Nile: Non- neuroinvasive	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Zika: Congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Zika: Non- congenital	1	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0
Total	1	0	0	0	0	0	0	0	1	1	0	0	3	1.0	-

GASTROINTESTINAL ILLNESSES

One hundred twenty-four gastrointestinal illnesses were reported in 2023. The annual rate of all gastrointestinal illnesses is 39.9 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for 2023.

Table 2. Gastrointestinal Illnesses

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2023 Total	2023 Rate	An. Ref
Campylo-bacteriosis	2	2	6	2	0	3	10	8	7	6	4	3	53	17.0	37
Cholera ¹	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<i>Escherichia coli</i> Infections	0	0	0	1	1	1	1	3	17	1	2	1	28	9.0	9
Salmonellosis	4	6	1	4	3	2	5	1	2	3	4	2	37	11.9	49
Shigellosis	1	0	0	0	1	1	2	0	0	0	0	0	5	1.6	4
Typhoid fever and paratyphoid fever	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3	0
Vibriosis ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Total	7	8	7	7	5	7	19	12	26	10	10	6	124	39.9	-

¹Toxigenic *Vibrio cholerae* O1 or O139

²Other than toxigenic *Vibrio cholerae* O1 or O139

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SEXUALLY TRANSMITTED INFECTIONS (STIs)

Seven hundred forty STIs were reported in 2023. The annual rate of all STIs is 238.1 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all STIs for 2023 (AIDS/HIV is also a reportable condition but is excluded from the table to protect patient privacy in line with guidelines from the Office of Health Protection).

Table 3. Sexually Transmitted Infections (STIs)

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2023 Total	2023 Rate	An. Ref
Chancroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Chlamydia	61	52	53	37	66	58	46	63	41	57	49	49	632	203.1	658
Gonorrhea	9	2	5	2	3	8	10	9	11	8	7	8	82	26.4	94
Syphilis	2	3	1	4	3	2	3	2	0	3	1	2	26	8.4	32
Total	72	57	59	43	72	68	59	74	52	68	57	59	740	238.1	-

TICK BORNE INFECTIONS

Twenty-seven tick borne infections were reported in 2023. The annual rate of all tick borne infections is 8.7 cases per 100,000 residents of McHenry County. Table 4 summarizes the frequency of incident cases of all tick borne infections for 2023 (only tick borne infections that have had a case reported from January 2018 to December 2023 are included in Table 4).

Table 4. Tick Borne Infections

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2023 Total	2023 Rate	An. Ref
Anaplasmosis	0	0	0	0	0	1	0	0	0	2	0	0	3	1.0	1
Ehrlichiosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Lyme Disease	1	0	1	0	4	5	4	3	0	1	2	2	23	7.4	29
Spotted Fever Rickettsioses	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Typhus Murine	0	0	0	0	1	0	0	0	0	0	0	0	1	0.3	0
Total	1	0	1	0	5	6	4	3	0	3	2	2	27	8.7	-

VACCINE PREVENTABLE DISEASES

Sixty-two vaccine preventable disease were reported in 2023. The annual rate of all vaccine preventable diseases is 20.0 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of all vaccine preventable diseases for 2023.

Table 5. Vaccine Preventable Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2023 Total	2023 Rate	An. Ref
Chickenpox	1	3	3	5	0	2	1	0	0	0	0	0	15	4.8	12
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<i>Haemophilus influenzae</i> ¹	0	0	0	0	1	1	0	1	0	2	2	0	7	2.2	4
Hepatitis A	1	0	0	0	0	0	0	0	0	0	0	0	1	0.3	2
Hepatitis B	0	0	0	0	2	0	1	1	2	1	1	2	10	3.2	12
Influenza A, variant virus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Influenza, death in ≤ 18 year olds	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Influenza with ICU admissions	0	0	0	0	0	1	0	1	0	0	1	11	14	4.5	29
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Mumps	0	0	0	1	0	1	0	0	0	0	0	0	2	0.6	0
<i>Neisseria meningitidis</i> ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Pertussis	0	0	0	0	0	0	0	5	1	5	2	0	13	4.2	8
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Smallpox	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Tetanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Total	2	3	3	6	3	5	2	8	3	8	6	13	62	20.0	-

¹ *Haemophilus influenzae*, meningitis, & other invasive disease² *Neisseria meningitidis*, meningitis and invasive disease

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OTHER DISEASES

7,958 other diseases were reported in 2023. The annual rate of all other diseases is 2,560.9 cases per 100,000 residents of McHenry County.

Table 6 summarizes the frequency of incident cases of all other diseases for 2023 (only other diseases that have had a case reported from January 2018 – December 2023 are included in Table 6).

Table 6. Other Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2023 Total	2023 Rate	An. Ref
Cryptosporidiosis	0	0	0	0	0	0	0	0	0	0	1	2	3	1.0	7
Cyclosporiasis	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3	4
Group A streptococcal infections, invasive disease	2	3	3	0	2	3	0	0	1	0	0	0	14	4.5	
Hemolytic Uremic Syndrome, Post-diarrheal	0	0	0	1	0	0	0	0	2	0	0	0	3	1.0	0
Hepatitis C	4	1	3	3	1	6	3	3	4	3	4	4	39	12.5	63
Histoplasmosis	1	0	0	0	0	0	0	0	1	0	0	1	3	1.0	2
Legionellosis	0	0	2	0	1	0	2	1	0	1	0	2	9	2.9	8
Listeriosis	0	0	0	1	0	0	1	2	0	0	0	0	4	1.3	1
Malaria	0	0	0	0	0	0	0	1	0	0	0	0	1	0.3	0
Mpox	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	3
Rabies, Human (Potential Exposure) ¹	2	0	7	3	19	19	10	27	5	5	7	3	107	34.4	42
SARS-CoV-2 Infection (COVID-19) ²	1,123	808	831	461	249	133	177	391	598	598	910	1,489	7,768	2,496.7	29,341
<i>Streptococcus Pneumoniae</i> , Invasive Disease ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Toxic Shock Syndrome (due to staph aureus)	0	1	0	0	0	0	1	0	0	0	1	0	3	1.0	0
Tuberculosis ⁴	0	0	0	0	0	0	1	1	0	1	0	0	3	1.0	2
Total	1,132	813	846	469	272	161	196	426	611	608	923	1,501	7,958	2,560.9	-

¹ As this includes individuals who received rabies post exposure prophylaxis (PEP) against public health recommendations, it may overestimate the number of humans exposed to rabies

² Onset date not known for all cases

³ In children less than 5 years

⁴ One case identified in November 2022 is being counted in the 2023 TB case statistics by IDPH instead of the 2022 case statistics; as MCDH identified this case and began DOT in 2022, this case will be counted in 2022 by MCDH.