



McHenry County Department of Health
Reportable Conditions Report
October 2024

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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 (**note: 2024 data is provisional**). Summary statistics for each reportable condition are reported and include: annual year-to-date total, annual year-to-date rate, and annual year-to-date 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 Year-to-Date Total

The annual year-to-date total (**YTD Total**) represents the frequency of new cases that occurred during 2024. 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 Year-to-Date Rate

The annual year-to-date rate (**YTD Rate**) is reported for each condition (and disease category) as the annual year-to-date 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 year-to-date total divided by the current population of McHenry County (based on the US Census Bureau, 2019-2022 ACS 5-year Estimates for McHenry County: 311,133 people) multiplied by 100,000; this is represented mathematically as:

$$\text{Annual Rate} = \frac{\text{YTD Total}}{311,133} * 100,000$$

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Year-to-Date Reference

Year-to-date reference (**YTD Ref**) serves as a historical reference to detect reportable conditions that are higher than average for the year based on historical data.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. $\text{YTD Total} > \text{YTD Ref}$), 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

One arboviral infection was reported in October 2024. This includes 1 case of dengue fever. The annual year-to-date 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 arboviral infections for the current year (if a reportable arboviral infection is not shown in Table 1, then it has had no cases from January 2019 to December 2024).

Table 1. Arboviral Infections

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Dengue Fever	0	0	0	0	0	0	0	1	0	1			2	0.6	0
West Nile, neuroinvasive	0	0	0	0	0	0	0	1	0	0			1	0.3	0
West Nile, non-neuroinvasive	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Zika virus, congenital	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Zika virus, non-congenital	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Total	0	0	0	0	0	0	0	2	0	1			3	1.0	-

GASTROINTESTINAL ILLNESSES

Nine gastrointestinal illnesses were reported in October 2024. This includes 6 cases of campylobacteriosis, 1 case of *Escherichia coli* infection, and 2 cases of salmonellosis. The annual year-to-date total of all gastrointestinal illnesses is 126 cases. The annual year-to-date rate of all gastrointestinal illnesses is 40.5 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for 2024.

Table 2. Gastrointestinal Illnesses

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Campylobacteriosis	6	2	6	3	6	7	10	4	6	6			56	18.0	33
Cholera	0	0	0	0	0	0	0	0	0	0			0	0.0	0
<i>Escherichia coli</i> Infections	0	0	1	2	0	1	2	0	3	1			10	3.2	9
Salmonellosis	4	2	4	5	13	2	6	6	4	2			48	15.4	35
Shigellosis	0	0	0	4	1	1	1	0	1	0			8	2.6	4
Typhoid fever and paratyphoid fever	0	0	0	1	0	0	0	1	0	0			2	0.6	0
Vibriosis ²	0	0	0	1	0	0	1	0	0	0			2	0.6	1
Total	10	4	11	16	20	11	20	11	14	9			126	40.5	-

¹ Other than typhoid or paratyphoid

² Other than toxigenic *Vibrio cholerae* O1 or O139

SEXUALLY TRANSMITTED INFECTIONS (STIs)

Twenty-three STIs were reported in October 2024. This includes 18 cases of chlamydia, 3 cases of gonorrhea, and 2 cases of syphilis. The annual year-to-date total of all STIs is 508 cases. The annual year-to-date rate of all STIs is 163.3 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all STIs for 2024 (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	YTD Total	YTD Rate	YTD Ref
Chancroid	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Chlamydia	58	50	57	47	41	44	45	36	31	18			427	137.2	536
Gonorrhea	10	12	6	7	4	7	9	10	2	3			70	22.5	79
Syphilis	0	1	0	1	0	2	2	1	2	2			11	3.5	27
Total	68	63	63	55	45	53	56	47	35	23			508	163.3	-

SEASONAL RESPIRATORY ILLNESS

Two seasonal respiratory illnesses were reported in October 2024. This includes 1 COVID-19 ICU admission and 1 Influenza ICU admission. The annual year-to-date total of all seasonal respiratory illnesses is 34 cases. The annual year-to-date-rate of all seasonal respiratory illnesses is 10.9 cases per 100,000 residents of McHenry County. Table 4 summarized the frequency of incident cases of seasonal respiratory illnesses for 2024.

Table 4. Seasonal Respiratory Illness

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
COVID-19 deaths in those aged < 18 years ¹					0	0	0	0	0	0			0	0.0	
COVID-19 ICU admission ¹					1	1	2	4	6	1			15	4.8	
Influenza A, novel or variant virus	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Influenza deaths in those aged < 18 years	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Influenza ICU admission	4	7	5	2	0	0	0	0	0	1			19	6.1	8
RSV with ICU admission ¹					0	0	0	0	0	0			0	0.0	
RSV, deaths among those aged < 5 years ¹					0	0	0	0	0	0			0	0.0	
Total	4	7	5	2	1	1	2	4	6	2			34	10.9	-

¹Newly added reportable conditions as of February 27, 2024; these conditions were added to the Illinois electronic disease reporting system in May 2024.

TICK BORNE INFECTIONS

One tick borne infection was reported in October 2024. The annual year-to-date total of all tick borne infections is 27 cases. The annual year-to-date rate of all tick borne infections is 8.7 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of tick borne infections for 2024 (only tick borne infections that have had a case reported from January 2019 to December 2024 are included in Table 5).

Table 5. Tick Borne Infections

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Anaplasmosis	1	0	0	0	0	0	0	0	0	0			1	0.3	1
Ehrlichiosis	0	0	0	0	0	0	0	0	0	0			0	0.0	1
Lyme Disease	1	1	0	1	7	11	2	1	1	1			26	8.4	23
Spotted Fever Rickettsioses	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Typhus Murine	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Total	2	1	0	1	7	11	2	1	1	1			27	8.7	-

VACCINE PREVENTABLE DISEASES

Ten vaccine preventable diseases were reported in October 2024. This includes 1 case of chickenpox, 1 case of *Haemophilus influenzae*, and 8 cases of pertussis. The annual year-to-date total of all vaccine preventable diseases is 54 cases. The annual year-to-date rate of all vaccine preventable diseases is 17.4 cases per 100,000 residents of McHenry County. Table 6 summarizes the frequency of incident cases of all vaccine preventable diseases for 2024.

Table 6. Vaccine Preventable Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Chickenpox	0	1	1	0	0	0	0	0	0	1			3	1.0	11
Diphtheria	0	0	0	0	0	0	0	0	0	0			0	0.0	0
<i>Haemophilus influenzae</i> ¹	0	0	3	1	0	3	1	0	0	1			9	2.9	4
Hepatitis A	0	0	0	0	0	0	0	0	0	0			0	0.0	1
Hepatitis B	1	1	2	0	0	1	0	2	0	0			7	2.2	8
Measles	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Mumps	0	0	0	0	0	0	0	0	0	0			0	0.0	0
<i>Neisseria meningitidis</i> ²	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Pertussis	1	0	1	2	5	4	3	6	5	8			35	11.2	7
Rubella	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
Tetanus	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Total	2	2	7	3	5	8	4	8	5	10			54	17.4	-

¹ *Haemophilus influenzae*, invasive disease

² *Neisseria meningitidis*, invasive disease and purpura fulminans

OTHER DISEASES

Eight other diseases were reported in September 2024. This includes 1 case of listeriosis; 6 cases of rabies, potential human exposure; and 1 case *Streptococcus Pneumoniae*, Invasive Disease. The annual year-to-date total of all other diseases is 155 cases. The annual year-to-date rate of all other diseases is 49.8 cases per 100,000 residents of McHenry County. Table 7 summarizes the frequency of incident cases of all other diseases for 2024 (only other diseases that have had a case reported from January 2019 – December 2024 are included in Table 7).

Table 7. Other Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Cryptosporidiosis	1	0	0	1	0	1	2	1	2	0			8	2.6	3
Cyclosporiasis	0	0	0	0	0	8	2	2	0	0			12	3.9	4
Group A streptococcal infections, invasive disease ¹			1	0	1	0	0	0	0	0			2	0.6	
Hemolytic Uremic Syndrome, Post-diarrheal	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Hepatitis C	4	1	1	3	5	3	3	6	3	0			29	9.3	42
Histoplasmosis	0	0	0	0	0	0	0	0	0	0			0	0.0	2
Legionellosis	0	0	0	1	3	2	1	2	2	0			11	3.5	7
Listeriosis	0	0	0	0	0	0	1	0	0	1			2	0.6	1
Malaria	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Mpox	0	0	0	0	0	0	0	0	0	0			0	0.0	0
Rabies, Potential Human Exposure ²	3	7	5	3	10	6	11	17	17	6			85	27.3	47
<i>Streptococcus Pneumoniae</i> , Invasive Disease ³	0	0	0	0	0	0	0	0	0	1			1	0.3	0
Toxic Shock Syndrome (due to <i>Staph aureus</i>)	0	0	0	1	0	0	0	0	0	0			1	0.3	0
Tuberculosis	0	1	0	0	2	0	1	0	0	0			4	1.3	2
Total	8	9	7	9	21	20	21	28	24	8			155	49.8	-

¹ I Updated as of February 27, 2024 to only include persons admitted to the hospital or residing in a residential facility

² As this includes individuals who may have received rabies post exposure prophylaxis (PEP) against public health recommendations, it may overestimate the number of humans exposed to rabies

³ In children less than 5 years