



**McHenry County Department of Health**  
**Reportable Conditions Report**  
**2022**

**TABLE OF CONTENTS**

INTRODUCTION .....1

DEFINITION OF TERMS .....1

ARBOVIRAL INFECTIONS.....3

GASTROINTESTINAL ILLNESS .....4

SEXUALLY TRANSMITTED INFECTIONS .....5

TICK BORNE DISEASES .....6

VACCINE PREVENTABLE DISEASES.....7

OTHER DISEASES.....8

## 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 2022. 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 (**2022 Total**) represents the frequency of new cases that occurred during 2022. 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 (**2022 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, 2015-2019 ACS 5-year Estimates for McHenry County: 307,714 people) multiplied by 100,000; this is represented mathematically as:

$$\text{Annual Rate} = \frac{\text{2022 Total}}{307,714} * 100,000$$

## MCDH Reportable Conditions Report 2022

### *Annual Reference*

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 Ref**) serves as a historical reference to detect reportable conditions that are higher than average for the year based on historical data.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. 2022 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 CD program uses 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).

# MCDH Reportable Conditions Report 2022

## ARBOVIRAL INFECTIONS

One arboviral infection was reported in 2022. The annual rate of all arboviral infections is 0.3 cases per 100,000 residents of McHenry County. Table 1 summarizes the frequency of incident cases of all arboviral infections for 2022.

**Table 1. Arboviral Infections**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Total	2022 Rate	An. Ref
California Encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Chikungunya Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Dengue Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
St. Louis Encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
West Nile: Neuroinvasive	0	0	0	0	0	0	1	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0.3</b>	<b>-</b>

# MCDH Reportable Conditions Report 2022

## GASTROINTESTINAL ILLNESSES

Sixty-eight gastrointestinal illnesses were reported in 2022. The annual rate of all gastrointestinal illnesses is 22.1 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for 2022.

**Table 2. Gastrointestinal Illnesses**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Total	2022 Rate	An. Ref
Campylobacteriosis	0	0	2	3	3	5	3	10	4	3	3	2	38	12.3	59
Cholera <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<i>Escherichia coli</i> Infections	0	0	0	0	0	0	2	0	0	0	0	0	2	0.6	10
<i>S. Paratyphi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Salmonellosis	1	0	1	2	3	5	2	3	0	2	0	1	20	6.5	57
Shigellosis	0	0	0	0	0	0	1	0	2	0	0	1	4	1.3	4
Vibriosis <sup>2</sup>	0	0	0	0	0	0	2	1	0	1	0	0	4	1.3	1
<b>Total</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>10</b>	<b>10</b>	<b>14</b>	<b>6</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>68</b>	<b>22.1</b>	<b>-</b>

<sup>1</sup>Toxigenic *Vibrio cholerae* O1 or O139

<sup>2</sup>Other than toxigenic *Vibrio cholerae* O1 or O139

**SEXUALLY TRANSMITTED INFECTIONS (STIs)**

Seven hundred eighty-one STIs were reported in 2022. The annual rate of all STIs is 253.8 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all STIs for 2022 (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; monthly syphilis data is updated quarterly, and unreported data may be missing for some months).

**Table 3. Sexually Transmitted Infections (STIs)**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Total	2022 Rate	An. Ref
Chancroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Chlamydia	59	52	57	57	48	49	47	55	56	56	57	49	642	208.6	690
Gonorrhea	10	4	9	10	11	12	11	5	6	16	8	4	106	34.4	89
Syphilis	4	2	2	2	2	3	1	2	4	5	5	1	33	10.7	20
Total	73	58	68	69	61	64	59	62	66	77	70	54	781	253.8	-

# MCDH Reportable Conditions Report 2022

## TICK BORNE DISEASES

Twenty-two tick borne diseases were reported in 2022. The annual rate of all tick borne diseases is 7.1 cases per 100,000 residents of McHenry County. Table 4 summarizes the frequency of incident cases of all tick borne diseases for 2022.

**Table 4. Tick Borne Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Total	2022 Rate	An. Ref
Anaplasmosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Babesiosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Ehrlichiosis	1	0	0	0	1	0	0	0	0	0	0	0	2	0.6	1
Lyme Disease	1	1	2	0	2	5	5	0	3	1	0	0	20	6.5	30
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	0	0	0	0	0	0	0	0	0	0.0	0
Total	2	1	2	0	3	5	5	0	3	1	0	0	22	7.1	-



# MCDH Reportable Conditions Report 2022

## VACCINE PREVENTABLE DISEASES

Seventy-one vaccine preventable diseases were reported in 2022. The annual rate of all vaccine preventable diseases is 23.1 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of all vaccine preventable diseases for 2022.

**Table 5. Vaccine Preventable Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Total	2022 Rate	An. Ref
Chickenpox	2	1	1	0	2	3	0	0	0	0	0	3	12	3.9	14
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<i>Haemophilus influenzae</i> <sup>1</sup>	0	0	0	0	0	0	1	1	1	1	0	0	4	1.3	4
Hepatitis A	0	1	0	0	0	0	0	2	1	1	0	0	5	1.6	2
Hepatitis B	2	0	2	0	3	2	5	0	1	0	1	0	16	5.2	12
Influenza A, variant virus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Influenza with ICU admission	0	1	1	2	3	0	0	0	0	1	11	13	32	10.4	27
Influenza, death in ≤ 18 year olds	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Measles	0	0	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	0.0	6
<i>Neisseria meningitidis</i> <sup>2</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Pertussis	0	0	0	0	0	1	0	1	0	0	0	0	2	0.6	10
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
<b>Total</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>12</b>	<b>16</b>	<b>71</b>	<b>23.1</b>	<b>-</b>

<sup>1</sup> *Haemophilus influenzae*, meningitis, & other invasive disease

<sup>2</sup> *Neisseria meningitidis*, meningitis and invasive disease

# MCDH Reportable Conditions Report 2022

## OTHER DISEASES

47,540 other diseases were reported in 2022. The annual rate of all other diseases is 15,449.4 cases per 100,000 residents of McHenry County. Table 6 summarizes the frequency of incident cases of all other diseases for 2022 (only other diseases that have had a case reported from January 2017 – December 2022 are included in Table 6).

**Table 6. Other Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Total	2022 Rate	An. Ref
SARS-CoV-2 Infection (COVID-19) <sup>1</sup>	23,544	2,537	799	1,725	4,035	2,517	2,929	2,596	1,627	1,368	1,572	2,138	47,387	15,399.7	24,438
Cryptosporidiosis	0	0	1	0	0	0	0	0	0	0	0	0	1	0.3	7
Cyclosporiasis	0	0	0	0	1	1	0	0	0	0	0	0	2	0.6	4
Hemolytic Uremic Syndrome, Post-diarrheal	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Hepatitis C	6	1	6	4	4	5	3	4	6	3	2	0	44	14.3	64
Histoplasmosis	0	0	0	2	1	0	0	0	1	0	1	0	5	1.6	2
Legionellosis	1	0	0	0	0	0	5	1	0	1	0	0	8	2.6	6
Listeriosis	0	2	0	0	0	0	0	0	0	0	0	0	2	0.6	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Mpox	0	0	0	0	0	0	1	2	0	0	0	0	3	1.0	0
Q Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Rabies, Human (Potential Exposure)	3	1	2	4	10	10	9	22	6	5	3	3	78	25.3	40
Streptococcal Infections, Group A, Invasive Disease	0	1	1	0	0	0	1	0	0	3	0	1	7	2.3	6
<i>Streptococcus Pneumoniae</i> , Invasive Disease <sup>2</sup>	0	0	0	1	0	0	0	0	0	0	0	0	1	0.3	1
Toxic Shock Syndrome (due to staph aureus)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Tuberculosis <sup>3</sup>	0	0	0	0	0	0	0	0	1	0	1	0	2	0.6	2
<b>Total</b>	<b>23,554</b>	<b>2,542</b>	<b>809</b>	<b>1,736</b>	<b>4,051</b>	<b>2,533</b>	<b>2,948</b>	<b>2,625</b>	<b>1,641</b>	<b>1,380</b>	<b>1,579</b>	<b>2,142</b>	<b>47,540</b>	<b>15,449.4</b>	<b>-</b>

<sup>1</sup> Onset date not known for all cases

<sup>2</sup> In children less than 5 years

<sup>3</sup> 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.