



**McHenry County Department of Health**  
**Reportable Conditions Report**  
**2019**

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## INTRODUCTION

The McHenry County Department of Health (MCDH) Communicable Disease (CD) program 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 2019. The frequency of incident cases are reported for each month. Incident cases include both probable and confirmed cases (**note: 2019 data is provisional**). 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 (**2019 Total**) represents the frequency of new cases that occurred during 2019. It is calculated for each condition as the sum of the frequency of incident cases for all months. The annual totals for each disease category are also reported.

### *Annual Rate*

The annual rate (**2019 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, 2014-2018 ACS 5-year Estimates for McHenry County: 307,789 people) multiplied by 100,000; this is represented mathematically as:

$$2019 \text{ Rate} = \frac{2019 \text{ Total}}{307,789} * 100,000$$

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## *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 Ref**) serves as a historical reference to detect reportable conditions that are higher than average for the year based on historical data.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. 2019 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 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**

Zero arboviral infections were reported in 2019. The annual rate of all arboviral infections was 0 cases per 100,000 residents of McHenry County. Table 1 summarizes the frequency of incident cases of all arboviral infections for 2019.

**Table 1. Arboviral Infections**

<b>Condition</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>2019 Total</b>	<b>2019 Rate</b>	<b>An. Ref</b>
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	0	0	0	0	0	0	0	0.0	1
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>0.0</b>	<b>-</b>												

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## GASTROINTESTINAL ILLNESSES

One hundred fifty-eight gastrointestinal illnesses were reported in 2019. The annual rate of all gastrointestinal illnesses was 51.3 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for 2019.

**Table 2. Gastrointestinal Illnesses**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019 Total	2019 Rate	An. Ref
Campylobacteriosis	6	6	6	8	3	7	11	4	4	7	5	6	73	23.7	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	1	0	2	4	3	3	3	2	1	2	0	21	6.8	8
<i>S. Paratyphi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Salmonellosis	5	0	6	9	7	5	3	8	10	4	1	0	58	18.8	49
Shigellosis	1	0	0	1	0	0	0	1	0	2	0	1	6	1.9	9
Vibriosis <sup>2</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
<b>Total</b>	<b>12</b>	<b>7</b>	<b>12</b>	<b>20</b>	<b>14</b>	<b>15</b>	<b>17</b>	<b>16</b>	<b>16</b>	<b>14</b>	<b>8</b>	<b>7</b>	<b>158</b>	<b>51.3</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)**

Eight hundred ninety-nine STIs were reported in 2019. The annual rate of all STIs was 292.1 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all STIs for 2019 (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	2019 Total	2019 Rate	An. Ref
Chancroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Chlamydia	73	57	54	66	77	53	65	73	67	87	58	65	795	258.3	726
Gonorrhea	10	4	6	3	6	6	12	7	6	13	8	7	88	28.6	88
Syphilis	1	1	2	1	2	1	3	1	2	3	0	3	20	6.5	13
Total	84	62	62	70	85	60	80	81	75	103	66	75	903	293.4	-

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## TICK BORNE DISEASES

Thirty-six tick borne diseases were reported in 2019. The annual rate of all tick borne diseases was 11.7 cases per 100,000 residents of McHenry County. Table 4 summarizes the frequency of incident cases of all tick borne diseases for 2019.

**Table 4. Tick Borne Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019 Total	2019 Rate	An. Ref
Anaplasmosis	0	0	0	0	0	0	0	0	0	1	0	0	1	0.3	0
Babesiosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Ehrlichiosis	0	0	0	0	0	0	0	0	0	1	0	0	1	0.3	0
Lyme Disease	1	2	0	1	5	9	7	6	2	0	0	1	34	11.0	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	0	0	0	0	0	0	0	0	0	0.0	0
<b>Total</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>9</b>	<b>7</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>36</b>	<b>11.7</b>	<b>-</b>

**VACCINE PREVENTABLE DISEASES**

Eighty-eight vaccine preventable diseases were reported in 2019. The annual rate of all vaccine preventable diseases was 28.6 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of all vaccine preventable diseases for 2019.

**Table 5. Vaccine Preventable Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019 Total	2019 Rate	An. Ref
Chickenpox	1	2	2	3	2	0	2	1	0	1	0	0	14	4.5	21
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	1	0	2	0	0	0	1	0	1	0	1	6	1.9	7
Hepatitis A	0	0	1	0	0	0	0	0	0	0	1	1	3	1.0	1
Hepatitis B	0	0	2	2	2	2	1	0	0	1	1	1	12	3.9	13
Influenza A, variant virus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Influenza with ICU admission	1	10	7	2	1	0	0	0	0	1	0	7	29	9.4	26
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	1	5	3	0	0	2	1	2	1	0	1	0	16	5.2	4
<i>Neisseria meningitidis</i> <sup>2</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Pertussis	0	0	2	1	0	0	2	0	1	1	1	0	8	2.6	64
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>3</b>	<b>18</b>	<b>17</b>	<b>10</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>4</b>	<b>10</b>	<b>88</b>	<b>28.6</b>	<b>-</b>

<sup>1</sup> *Haemophilus influenzae*, meningitis, & other invasive disease<sup>2</sup> *Neisseria meningitidis*, meningitis and invasive disease

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## OTHER DISEASES

One hundred thirty-five other diseases were reported in 2019. The annual rate of all other diseases was 43.9 cases per 100,000 residents of McHenry County. Table 6 summarizes the frequency of incident cases of all other diseases for 2019 (only other diseases that have had a case reported from January 2014 – present are included in Table 6).

**Table 6. Other Diseases**

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019 Total	2019 Rate	An. Ref
Acute Flaccid Myelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Botulism: foodborne	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Cryptosporidiosis	0	0	0	0	0	1	2	3	1	0	0	0	7	2.3	7
Cyclosporiasis	0	0	0	0	0	3	1	0	0	0	0	0	4	1.3	1
Hemolytic Uremic Syndrome, Post-diarrheal	0	0	0	0	0	0	0	0	0	0	1	0	1	0.3	0
Hepatitis C	5	8	7	4	8	5	2	7	5	8	3	1	63	20.5	101
Histoplasmosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	2
Legionellosis	0	0	0	0	0	1	0	1	0	2	1	0	5	1.6	3
Listeriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Malaria	0	0	0	0	0	0	0	0	0	1	0	1	2	0.6	1
Q Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Rabies, Human (Potential Exposure)	2	5	2	3	3	3	2	9	9	1	1	2	42	13.6	32
Streptococcal Infections, Group A, Invasive Disease	0	0	1	0	2	0	1	0	0	0	0	2	6	1.9	9
Streptococcus Pneumoniae, Invasive Disease <sup>1</sup>	0	0	0	0	1	0	0	0	0	0	0	0	1	0.3	1
Toxic Shock Syndrome (due to staph aureus)	0	1	0	0	1	0	0	0	0	0	0	0	2	0.6	0
Tuberculosis	0	0	0	1 <sup>2</sup>	0	0	0	0	0	0	0	0	1	0.3	1
<b>Total</b>	<b>7</b>	<b>14</b>	<b>10</b>	<b>8</b>	<b>15</b>	<b>13</b>	<b>8</b>	<b>20</b>	<b>15</b>	<b>12</b>	<b>6</b>	<b>6</b>	<b>134</b>	<b>43.5</b>	<b>-</b>

<sup>1</sup> In children less than 5 years

<sup>2</sup> Case occurred in 2018 but counted in 2019 to be in agreement with IDPH reporting procedures