



McHenry County Department of Health
Reportable Conditions Report
2020

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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 2020. 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 (**2020 Total**) represents the frequency of new cases that occurred during 2020. 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 (**2020 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:

$$\text{YTD Rate} = \frac{\text{2020 Total}}{307,789} * 100,000$$

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 Ref**) serves as a historical reference to detect reportable conditions that are higher than average for the year based on historical data.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. 2020 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).

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ARBOVIRAL INFECTIONS

Zero arboviral infections were reported in 2020. The annual rate of all arboviral infections is 0 cases per 100,000 residents of McHenry County. Table 1 summarizes the frequency of incident cases of all arboviral infections for 2020.

Table 1. Arboviral Infections

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2020 Total	2020 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	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
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	-

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GASTROINTESTINAL ILLNESSES

Eighty-three gastrointestinal illnesses were reported in 2020. The annual rate of all gastrointestinal illnesses is 27.0 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for 2020.

Table 2. Gastrointestinal Illnesses

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2020 Total	2020 Rate	An. Ref
Campylobacteriosis	3	1	4	1	3	2	3	3	6	2	2	1	31	10.1	61
Cholera ¹	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<i>Escherichia coli</i> Infections	1	1	2	0	1	1	0	1	1	1	0	0	9	2.9	10
<i>S. Paratyphi</i>	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3	1
Salmonellosis	1	3	6	2	3	3	3	7	6	1	2	1	38	12.3	57
Shigellosis	0	1	0	0	0	0	0	0	1	1	0	0	3	1.0	6
Vibriosis ²	1	0	0	0	0	0	0	0	0	0	0	0	1	0.3	1
Total	6	6	12	3	7	6	7	11	14	5	4	2	83	27.0	-

¹Toxigenic *Vibrio cholerae* O1 or O139

²Other than toxigenic *Vibrio cholerae* O1 or O139

SEXUALLY TRANSMITTED INFECTIONS (STIs)

Seven hundred forty-seven STIs were reported in 2020. The annual rate of all STIs is 242.7 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all STIs for 2020 (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	2020 Total	2020 Rate	An. Ref
Chancroid	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Chlamydia	53	52	44	31	28	60	64	61	58	59	48	62	620	201.4	710
Gonorrhea	4	8	6	2	5	11	14	8	7	14	7	9	95	30.9	78
Syphilis	2	2	2	0	2	0	4	2	7	6	3	2	32	10.4	14
Total	59	62	52	33	35	71	82	71	72	79	58	73	747	242.7	-

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TICK BORNE DISEASES

Twenty-seven tick borne disease was reported in 2020. The annual rate of all tick borne diseases is 8.8 cases per 100,000 residents of McHenry County. Table 4 summarizes the frequency of incident cases of all tick borne diseases for 2020.

Table 4. Tick Borne Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2020 Total	2020 Rate	An. Ref
Anaplasmosis	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3	1
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	0	0	0	0	0.0	1
Lyme Disease	1	0	1	1	3	6	5	2	0	4	0	3	26	8.4	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	0	0	0	0	0	0	0	0	0	0.0	0
Total	1	0	1	1	3	6	6	2	0	4	0	3	27	8.8	-

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VACCINE PREVENTABLE DISEASES

Forty-five vaccine preventable disease was reported in 2020. The annual rate of all vaccine preventable diseases is 14.6 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of all vaccine preventable diseases for 2020.

Table 5. Vaccine Preventable Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2020 Total	2020 Rate	An. Ref
Chickenpox	0	1	1	1	0	1	0	0	1	0	0	0	5	1.6	21
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
<i>Haemophilus influenzae</i> ¹	0	0	1	0	0	0	0	0	0	0	0	0	1	0.3	7
Hepatitis A	0	0	1	1	0	0	0	0	0	0	0	0	2	0.6	2
Hepatitis B	1	1	0	0	0	0	2	1	1	1	0	2	9	2.9	14
Influenza A, variant virus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Influenza with ICU admission	6	11	1	0	0	0	0	0	0	0	0	0	18	5.8	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> ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Pertussis	3	4	2	0	0	0	0	1	0	0	0	0	10	3.2	44
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	10	17	6	2	0	1	2	2	2	1	0	2	45	14.6	-

¹ *Haemophilus influenzae*, meningitis, & other invasive disease

² *Neisseria meningitidis*, meningitis and invasive disease

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OTHER DISEASES

19,658 other diseases were reported in 2020. The annual rate of all other diseases is 6,386.8 cases per 100,000 residents of McHenry County. Table 6 summarizes the frequency of incident cases of all other diseases for 2020 (only other diseases that had a case reported from January 2015 – December 2020 are included in Table 6).

Table 6. Other Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2020 Total	2020 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
Coronavirus Novel 2019 ¹	0	0	93	633	951	476	858	953	822	2,937	7,266	4,546	19,535	6,346.9	-
Cryptosporidiosis	1	0	0	0	1	0	0	1	0	0	1	0	4	1.3	7
Cyclosporiasis	0	0	0	0	0	3	0	1	0	0	0	0	4	1.3	1
Hemolytic Uremic Syndrome, Post-diarrheal	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Hepatitis C	4	3	3	3	1	2	2	6	5	8	7	8	52	16.9	101
Histoplasmosis	0	0	0	0	0	0	0	0	1	1	0	0	2	0.6	2
Legionellosis	0	0	1	1	0	1	0	0	2	1	0	0	6	1.9	5
Listeriosis	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1
Q Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
Rabies, Human (Potential Exposure)	2	0	2	2	2	12	4	12	6	5	1	1	49	15.9	36
Streptococcal Infections, Group A, Invasive Disease	0	0	1	1	0	0	0	0	0	0	1	0	3	1.0	9
Streptococcus Pneumoniae, Invasive Disease ²	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	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	0	0	0	0	0	0	2	0	0	0	0	0	2	0.6	1
Total	7	3	100	640	955	494	867	973	836	2,952	7,276	4,555	19,658	6,386.8	-

¹ Onset date not known for all cases

² In children less than 5 years