



McHenry County Department of Health
Reportable Conditions Report
November 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 the past year. 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 year-to-date total, annual year-to-date rate, and 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 for the current year as of this point in time. It is calculated for each condition as the sum of the frequency of incident cases for all months that have elapsed for the current year. The annual year-to-date 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, 2013-2017 ACS 5-year Estimates for McHenry County: 308,043 people) multiplied by 100,000; this is represented mathematically as:

$$\text{YTD Rate} = \frac{\text{YTD Total}}{308,043} * 100,000$$

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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Year-to-date reference (**YTD Ref**) serves as a historical reference to detect reportable conditions that are higher than average for the current month based on historical data. When the annual year-to-date total is greater than the year-to-date reference (i.e. $YTD\ Total > YTD\ Ref$), 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 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).

ARBOVIRAL INFECTIONS

Zero arboviral infections were reported in November. The annual year-to-date total of all arboviral infections is 0 cases. The annual year-to-date 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 the current year.

Table 1. Arboviral Infections

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
California Encephalitis	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
Dengue Fever	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
West Nile: Neuroinvasive	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
Zika: Congenital	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
Total	0	0	0	0	0	0	0	0	0	0	0		0	0.0	-

GASTROINTESTINAL ILLNESSES

Five gastrointestinal illnesses were reported in November. This included 3 case of campylobacteriosis, 1 case of *Escherichia coli* infections, and 1 case of salmonellosis. The annual year-to-date total of all gastrointestinal illnesses is 148 cases. The annual year-to-date rate of all gastrointestinal illnesses is 48.0 cases per 100,000 residents of McHenry County. Table 2 summarizes the frequency of incident cases of all gastrointestinal illnesses for the current year.

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	6	6	8	3	7	11	4	4	7	3		65	21.1	49
Cholera*	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	1		20	6.5	8
<i>S. Paratyphi</i>	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		58	18.8	45
Shigellosis	1	0	0	1	0	0	0	1	0	2	0		5	1.6	5
Vibriosis†	0	0	0	0	0	0	0	0	0	0	0		0	0.0	1
Total	12	7	12	20	14	15	17	16	16	14	5		148	48.0	-

*Toxigenic *Vibrio cholerae* O1 or O139

†Other than toxigenic *Vibrio cholerae* O1 or O139

SEXUALLY TRANSMITTED INFECTIONS (STIs)

Forty-four STIs were reported in November. This included 39 cases of chlamydia and 5 cases of gonorrhea. The annual year-to-date total of all STIs is 741 cases. The annual year-to-date rate of all STIs is 240.6 cases per 100,000 residents of McHenry County. Table 3 summarizes the frequency of incident cases of all STIs for the current year (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	YTD Total	YTD Rate	YTD Ref
Chancroid	0	0	0	0	0	0	0	0	0	0	0		0	0.0	0
Chlamydia	72	57	52	65	70	50	62	63	58	70	39		658	213.6	601
Gonorrhea	8	4	6	3	5	5	12	7	6	9	5		70	22.7	74
Syphilis	1	1	2	1	2	1	2	1	2				13	4.2	9
Total	81	62	60	69	77	56	76	71	66	79	44		741	240.6	-

TICK BORNE DISEASES

Zero tick borne diseases were reported in November. The annual year-to-date total of all tick borne diseases is 32 cases. The annual year-to-date rate of all tick borne diseases is 10.4 cases per 100,000 residents of McHenry County. Table 4 summarizes the frequency of incident cases of all tick borne diseases for the current year.

Table 4. Tick Borne Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Anaplasmosis	0	0	0	0	0	0	0	0	0	0	0		0	0.0	0
Babesiosis	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
Lyme Disease	1	2	0	1	5	9	6	6	2	0	0		32	10.4	23
Spotted Fever Rickettsioses	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
Total	1	2	0	1	5	9	6	6	2	0	0		32	10.4	-

VACCINE PREVENTABLE DISEASES

Two vaccine preventable diseases were reported in November. This included 1 case of mumps and 1 case of pertussis. The annual year-to-date total of all vaccine preventable diseases is 76 cases. The annual year-to-date rate of all vaccine preventable diseases is 24.7 cases per 100,000 residents of McHenry County. Table 5 summarizes the frequency of incident cases of all vaccine preventable diseases for the current year.

Table 5. Vaccine Preventable Diseases

Condition	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Rate	YTD Ref
Chickenpox	1	2	2	3	2	0	2	1	0	1	0		14	4.5	19
Diphtheria	0	0	0	0	0	0	0	0	0	0	0		0	0.0	0
<i>Haemophilus influenzae</i> *	0	1	0	2	0	0	0	1	0	1	0		5	1.6	4
Hepatitis A	0	0	1	0	0	0	0	0	0	0	0		1	0.3	1
Hepatitis B	0	0	2	2	2	2	0	0	0	1	0		9	2.9	11
Influenza A, variant virus	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		22	7.1	19
Influenza, death in ≤ 18 year olds	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
Mumps	1	5	3	0	0	2	1	2	1	0	1		16	5.2	4
<i>Neisseria meningitidis</i> †	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	2	1		9	2.9	43
Rubella	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
Tetanus	0	0	0	0	0	0	0	0	0	0	0		0	0.0	0
Total	3	18	17	10	5	4	5	4	2	6	2		76	24.7	-

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

†*Neisseria meningitidis*, meningitis and invasive disease

OTHER DISEASES

Two other diseases were reported in November. This included 1 case of hepatitis C and 1 cases of legionellosis. The annual year-to-date total of all other diseases is 122 cases. The annual year-to-date rate of all other diseases is 39.6 cases per 100,000 residents of McHenry County. Table 6 summarizes the frequency of incident cases of all other diseases for the current year (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	YTD Total	YTD Rate	YTD Ref
Acute Flaccid Myelitis	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
Cryptosporidiosis	0	0	0	0	0	1	2	3	1	0	0		7	2.3	6
Cyclosporiasis	0	0	0	0	0	3	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
Hepatitis C	5	8	9	4	7	5	3	6	3	8	1		59	19.2	85
Histoplasmosis	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		5	1.6	3
Listeriosis	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	0.3	1
Q Fever	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	8	9	1	0		38	12.3	30
Streptococcal Infections, Group A, Invasive Disease	0	0	1	0	2	0	1	0	0	0	0		4	1.3	7
Streptococcus Pneumoniae, Invasive Disease*	0	0	0	0	1	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		2	0.6	0
Tuberculosis	0	0	0	1 [†]	0	0	0	0	0	0			1	0.3	1
Total	7	14	12	8	14	13	9	18	13	12	2		122	39.6	-

*In children less than 5 years

[†]Case occurred in 2018 but counted in 2019 to be in agreement with IDPH reporting procedures