

St. Charles County Annual Communicable Disease Report

Department of Public Health

2018

Reportable Conditions: St. Charles County Report Summary

The data presented below is a summary of the reportable diseases that meet the confirmed and probably Missouri Department of Health and Senior Services case definitions (excluded from this report are Sexually Transmitted Diseases and Influenza. Those can be found in separate reports). There were a total of 988 confirmed and probable cases in St. Charles County in 2018. This is 17 fewer cases than 2017.

Enteric: Overall there were more enteric cases reported in 2018 than the previous year. Campylobacteriosis, Hepatitis A and Shiga Toxin Positive cases saw a decrease in case counts from the previous year, but all other enteric illnesses saw an increase in total cases reported. Listeriosis and Yersiniosis both saw a 100% change from the year to date 5 year median. Salmonellosis had the highest rate among enteric illnesses at 18.97/100,000 people affected.

Respiratory: There were 23 fewer respiratory cases reported in 2018 compared to 2017. The 5 cases of Pertussis reported in 2018 is well below the previous year to date 5 year median of 16 and the 2017 total of 16 cases. Legionellosis is the only respiratory disease that saw an increase in the number of cases from 2017 to 2018. There were 10 cases investigated in 2018 which is a 55% increase from the year to date 5 year median.

Vectorborne and Zoonotic: There were 34 total cases reported in 2018 compared to 20 cases reported in 2017. Ehrlichia Chaffeensis and Rocky Mountain spotted fever (RMSF) accounted for the majority of case investigations, but a case of Malaria and West Nile was also investigated in 2018. The jump in RMSF cases could be a result of patients self-reporting fevers not documented at a medical facility.

Tuberculosis and Latent TB Infections (LTBI): A TB cases can meet the probable or confirmed case definition by either meeting clinical criteria, laboratory criteria, or being physician diagnosed as Active TB. With that being said, there were 4 cases of Active TB reported in 2018 (2 lab confirmed and 2 clinical cases). This is one fewer case than reported in 2017 when there was 5 cases investigated (3 physician diagnosed, 1 clinical case or 1 laboratory confirmed). There were 45 LTBI cases reported in 2018 that is 19 fewer cases than 2017.

Miscellaneous: There was a case of infant botulism and a case of bacterial meningitis investigated in 2018.

	Year to Date Totals						Previous YTD 5 Yr Median	% Change From YTD 5 Yr Median	YTD 2018 Rate Per 100000
	2013	2014	2015	2016	2017	2018			
Enteric, Food and Waterborne									
CAMPYLOBACTERIOSIS	44	37	45	37	45	34	44	-29.4%	8.96
CRYPTOSPORIDIOSIS	9	6	4	15	8	11	8	27.3%	2.90
E COLI SHIGA TOXIN POSITIVE	8	7	13	3	12	15	8	46.7%	3.95
E. COLI O157 H7	10	0	4	4	3	0	4	0.0%	0.00
GIARDIASIS	12	12	9	12	7	13	12	7.7%	3.43
HEPATITIS A ACUTE	0	1	0	1	1	0	1	0.0%	0.00

LISTERIOSIS	0	1	0	0	0	1	0	100.0%	0.26
SALMONELLOSIS	55	42	39	46	50	72	46	36.1%	18.97
SHIGA TOXIN POSITIVE (NON E. COLI, UNK)	0	0	0	1	2	0	0	0.0%	0.00
SHIGELLOSIS	3	34	31	9	6	10	9	10.0%	2.64
YERSINIOSIS	0	0	1	0	1	3	0	100.0%	0.79
Enteric total	141	140	146	128	135	159	140	11.9%	41.90
Respiratory and Direct Contact									
ADULT RESPIRATORY DISTRESS SYNDROME (ARDS)	0	0	0	0	0	0	0	0.0%	0.00
HAEMOPHILUS INFLUENZAE, INVASIVE	4	4	2	10	8	7	4	42.9%	1.84
LEGIONELLOSIS	4	5	4	12	7	10	5	55.0%	2.64
PERTUSSIS	43	24	14	5	16	5	16	-220.0%	1.32
STREP DISEASE, GROUP A INVASIVE	7	8	13	4	4	2	8	-275.0%	0.53
STREP PNEUMONIAE, <5 YEARS, INVASIVE	0	0	2	0	0	0	0	0.0%	0.00
STREP PNEUMONIAE INVASIVE	0	0	0	15	32	20	0	100.0%	5.27
Respiratory Total	58	41	35	46	67	44	46	-4.5%	12.21
Vectorborne and Zoonotics									
ANAPLASMA PHAGOCYTOPHILUM	0	1	0	2	0	0	0	0.0%	0.00
CHIKUNGUNYA	0	0	0	0	0	0	0	0.0%	0.00
DENGUE FEVER	0	0	0	1	1	0	0	0.0%	0.00
EHRlichia CHAFFEENSIS	11	6	10	5	5	9	6	33.3%	2.37
EHRlichia EWINGII	1	0	0	0	2	0	0	0.0%	0.00
EHRlichiosis ANAPLASMOSIS UNDETERMINED	0	0	0	0	0	0	0	0.0%	0.00
LYME	0	1	1	1	0	0	1	0.0%	0.00
MALARIA	1	0	1	0	1	1	1	0.0%	0.26
NEUROINVASIVE WEST NILE	1	1	1	0	1	1	1	0.0%	0.26
NON NEUROINVASIVE WEST NILE	0	0	0	0	0	0	0	0.0%	0.00
Q FEVER ACUTE	0	0	0	0	0	0	0	0.0%	0.00
Q FEVER CHRONIC	0	0	0	0	0	0	0	0.0%	0.00
ROCKY MOUNTAIN SPOTTED FEVER	6	1	7	3	10	23	6	73.9%	6.06
TULAREMIA	0	0	1	1	0	0	0	0.0%	0.00
Vectorborne and Zoonotics Total	20	10	21	13	20	34	20	41.2%	9.43
Other Conditions									
ANIMAL BITES	385	388	420	461	462	464	420	8.9%	121.48
COCCIDIOIDOMYCOSIS	0	1	0	0	0	1	0	100.0%	0.26
CREUTZFELDT-JAKOB DISEASE (CJD)	1	0	1	3	0	1	1	0.0%	0.26

HEMOLYTIC UREMIC SYNDROME	2	0	0	0	1	0		0	0.0%	0.00
HEPATITIS B (PREGNANCY) PRENATAL	7	4	10	2	9	4		7	-75.0%	1.05
HEPATITIS B ACUTE	2	3	4	2	2	2		2	0.0%	0.53
HEPATITIS B CHRONIC INFECTION	10	19	18	13	23	15		18	-20.0%	3.95
HEPATITIS C ACUTE	1	0	0	0	3	3		0	100.0%	0.79
HEPATITIS C CHRONIC INFECTION	153	138	197	146	156	140		153	-9.3%	36.89
LTBI	103	80	66	69	64	45		69	-53.3%	11.86
MENINGOCOCCAL DISEASE	0	2	0	1	1	1		1	0.0%	0.26
MOTT	25	30	35	27	32	42		30	28.6%	11.07
MUMPS	0	0	0	3	12	0		0	0.0%	0.00
PARAGONIMIASIS	0	0	1	0	0	0		0	0.0%	0.00
RABIES ANIMAL	1	0	1	1	1	0		1	0.0%	0.00
RABIES POST EXPOSURE PROPHYLAXIS	11	10	23	24	10	25		11	56.0%	6.59
STAPH AUREUS VISA	13	11	2	3	2	0		3	0.0%	0.00
TB DISEASE	4	5	3	3	5	4		4	33.3%	1.58
TOXIC SHOCK (STAPH) SYNDROME	0	0	0	0	0	0		0	0.0%	0.00
VIBRIOSIS	1	0	1	1	0	2		1	50.0%	0.53

Reportable Cases (Confirmed and Probable) By Month in St. Charles County: 2018

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2017 Total
Enteric, Food and Waterborne														
CAMPYLOBACTERIOSIS	0	2	3	4	3	5	3	3	5	6	0	0	34	45
CRYPTOSPORIDIOSIS	1	0	2	0	0	1	2	1	1	2	1	0	11	8
E COLI SHIGA TOXIN POSITIVE	1	1	2	0	1	0	3	5	2	0	0	0	15	12
E. COLI O157 H7	0	0	0	0	0	0	0	0	0	0	0	0	0	3
GIARDIASIS	1	1	1	2	0	1	1	4	0	0	1	1	13	7
HEPATITIS A ACUTE	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LISTERIOSIS	0	0	0	0	0	0	0	1	0	0	0	0	1	0
SALMONELLOSIS	3	3	6	7	6	9	5	7	4	9	8	5	72	50
SHIGA TOXIN POSITIVE (NON E. COLI, UNK)	0	0	0	0	0	0	0	0	0	0	0	0	0	2
SHIGELLOSIS	0	1	1	1	4	0	0	1	1	1	0	0	10	6
YERSINIOSIS	0	0	0	2	0	1	0	0	0	0	0	0	3	1

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2017 Total
Respiratory and Direct Contact														
ADULT RESPIRATORY DISTRESS SYNDROME (ARDS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAEMOPHILUS INFLUENZAE, INVASIVE	2	0	1	1	2	0	0	0	0	0	0	1	7	8
LEGIONELLOSIS	0	1	0	0	0	0	4	3	1	0	1	0	10	7
PERTUSSIS	1	0	1	0	0	0	0	0	0	1	1	1	5	16
STREP DISEASE, GROUP A INVASIVE	0	1	0	1	0	0	0	0	0	0	0	0	2	4
STREP PNEUMONIAE, <5 YEARS, INVASIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STREP PNEUMONIAE, INVASIVE	5	2	4	5	0	1	0	1	0	0	1	1	20	32
Vectorborne and Zoonotics														
ANAPLASMA PHAGOCYTOPHILUM	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	1
EHRlichia CHAFFEENSIS	0	0	0	0	2	5	2	0	0	0	0	0	9	5
EHRlichia EWINGII	0	0	0	0	0	0	0	0	0	0	0	0	0	2
EHRlichiosis ANAPLASMOSIS UNDETERMINED	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYME	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALARIA	0	0	0	0	0	0	0	1	0	0	0	0	1	1
NEUROINVASIVE WEST NILE	0	0	0	0	0	0	0	0	0	1	0	0	1	1
NON NEUROINVASIVE WEST NILE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q FEVER ACUTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q FEVER CHRONIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROCKY MOUNTAIN SPOTTED FEVER	0	0	0	0	3	6	8	3	2	1	0	0	23	10
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Conditions														
ANIMAL BITES	39	34	46	44	29	35	43	44	40	51	31	28	464	462
COCCIDIOIDOMYCOSIS	0	0	0	0	0	0	1	0	0	0	0	0	1	0
CREUTZFELDT-JAKOB DISEASE (CJD)	0	0	0	0	0	1	0	0	0	0	0	0	1	0
HEMOLYTIC UREMIC SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	1
HEPATITIS B (PREGNANCY) PRENATAL	0	1	0	0	0	1	0	1	0	0	1	0	4	9
HEPATITIS B ACUTE	1	0	0	0	0	0	1	0	0	0	0	0	2	2
HEPATITIS B CHRONIC INFECTION	2	1	2	2	1	1	0	0	2	3	0	1	15	23

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 Total	2017 Total
HEPATITIS C ACUTE	0	1	0	1	0	0	1	0	0	0	0	0	3	3
HEPATITIS C CHRONIC INFECTION	14	12	8	13	16	12	6	17	9	13	5	15	140	156
LTBI	8	4	5	7	2	7	3	6	1	2	0	0	45	64
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	1	0	0	1	1
MOTT	5	3	5	2	6	3	3	3	2	1	6	3	42	32
MUMPS	0	0	0	0	0	0	0	0	0	0	0	0	0	12
RABIES ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	1
RABIES POST EXPOSURE PROPHYLAXIS	2	1	2	3	2	1	7	6	0	0	0	1	25	10
STAPH AUREUS VISA	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TB DISEASE	1	0	0	0	0	0	0	2	0	0	0	1	4	5
TOXIC SHOCK (STAPH) SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VIBRIOSIS	0	0	0	0	0	0	0	1	0	1	0	0	2	0