

St. Charles County Annual Communicable Disease Report

Department of Public Health

2019

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 1167 confirmed and probable cases in St. Charles County in 2019. This is 177 more cases than 2018. This large increase is primarily due to the number of animal bites that occurred in 2019 compared to 2018.

Enteric: Overall there were fewer enteric cases reported in 2019 than the previous year. There were several diseases that saw a decrease in the number of cases reported including Salmonellosis, Giardiasis, and Yersiniosis. Campylobacteriosis, E coli O157, and Listeriosis all saw a rise in the number of cases reported for 2019. While Salmonella saw a decrease in total cases reported it remained the highest rate among enteric illnesses at 12.65/100,000 people affected.

Respiratory: There were 28 more respiratory cases reported in 2019 compared to 2018. Haemophilus Influenzae, Legionellosis, Pertussis and Strep Pneumoniae all saw an increase in the number of cases reported with Pertussis experiencing the largest change from 2018 to 2019. The Legionellosis case definition was changed during 2019 which might account for the increase in cases reported.

Vectorborne and Zoonotic: There were 29 total cases reported in 2019. Ehrlichia Chaffeensis and Rocky Mountain spotted fever (RMSF) accounted for the majority of cases reported, but a case of Malaria and Anaplasma Phagocytophilum was also reported in 2019. 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 case can meet the probable or confirmed case definition by either meeting clinical criteria, laboratory criteria, or being physician diagnosed as Active TB. There was 1 case of Active TB reported in 2019 (1 clinical case). This is the lowest case count per year for Tuberculosis in the last decade. There were 101 LTBI cases reported in 2019 that is double the number of cases reported in 2018 and is the highest case count since 2013.

Miscellaneous: There were 3 cases of Vibriosis as well as a case of infant botulism investigated in 2019.

	Year to Date Totals						Previous YTD 5 Yr Median	% Change From YTD 5 Yr Median	YTD 2019 Rate Per 100000
	2014	2015	2016	2017	2018	2019			
Enteric, Food and Waterborne									
CAMPYLOBACTERIOSIS	37	45	37	45	34	36	37	-2.8%	9.49
CRYPTOSPORIDIOSIS	6	4	15	8	11	11	8	27.3%	2.90
E COLI SHIGA TOXIN POSITIVE	7	13	3	12	15	13	12	7.7%	3.43
E. COLI O157 H7	0	4	4	3	0	2	3	-50.0%	0.53
GIARDIASIS	12	9	12	7	13	9	12	-33.3%	2.37
HEPATITIS A ACUTE	1	0	1	1	0	4	1	75.0%	1.05

LISTERIOSIS	1	0	0	0	1	2	0	100.0%	0.53
SALMONELLOSIS	42	39	46	50	72	48	46	4.2%	12.65
SHIGA TOXIN POSITIVE (NON E. COLI, UNK)	0	0	1	2	0	0	0	0.0%	0.00
SHIGELLOSIS	34	31	9	6	10	6	10	-66.7%	1.58
YERSINIOSIS	0	1	0	1	3	2	1	50.0%	0.53
Enteric total	140	146	128	135	159	133	140	-5.3%	35.05
Respiratory and Direct Contact									
ADULT RESPIRATORY DISTRESS SYNDROME (ARDS)	0	0	0	0	0	0	0	0.0%	0.00
HAEMOPHILUS INFLUENZAE, INVASIVE	4	2	10	8	7	10	7	30.0%	2.64
LEGIONELLOSIS	5	4	12	7	10	13	7	46.2%	3.43
PERTUSSIS	24	14	5	16	5	20	14	30.0%	5.27
STREP PNEUMONIAE, <5 YEARS, INVASIVE	0	2	0	0	0	0	0	0.0%	0.00
STREP PNEUMONIAE INVASIVE	0	0	15	32	20	27	15	44.4%	7.11
Respiratory Total	33	22	42	63	42	70	42	40.0%	19.42
Vectorborne and Zoonotics									
ANAPLASMA PHAGOCYTOPHILUM	1	0	2	0	0	1	0	100.0%	0.26
CHIKUNGUNYA	0	0	0	0	0	0	0	0.0%	0.00
DENGUE FEVER	0	0	1	1	0	0	0	0.0%	0.00
EHRlichia CHAFFEENSIS	6	10	5	5	9	12	6	50.0%	3.16
EHRlichia EWINGII	0	0	0	2	0	1	0	100.0%	0.26
EHRlichiosis ANAPLASMOSIS UNDETERMINED	0	0	0	0	0	0	0	0.0%	0.00
LYME	1	1	1	0	0	0	1	0.0%	0.00
MALARIA	0	1	0	1	1	1	1	0.0%	0.26
NEUROINVASIVE WEST NILE	1	1	0	1	1	0	1	0.0%	0.00
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	1	7	3	10	20	14	7	50.0%	3.69
TULAREMIA	0	1	1	0	0	0	0	0.0%	0.00
Vectorborne and Zoonotics Total	10	21	13	20	31	29	20	31.0%	8.04
Other Conditions									
ANIMAL BITES	388	420	463	462	466	616	462	25.0%	162.32
COCCIDIOIDOMYCOSIS	1	0	0	0	1	0	0	0.0%	0.00
CREUTZFELDT-JAKOB DISEASE (CJD)	0	1	3	0	1	0	1	0.0%	0.00
HEMOLYTIC UREMIC SYNDROME	0	0	0	1	0	0	0	0.0%	0.00
HEPATITIS B (PREGNANCY) PRENATAL	4	10	2	9	4	5	4	20.0%	1.32
HEPATITIS B ACUTE	3	4	2	2	2	0	2	0.0%	0.00
HEPATITIS B CHRONIC INFECTION	19	18	13	22	15	19	18	5.3%	5.01

HEPATITIS C ACUTE	0	0	0	3	3	2		0	100.0%	0.53
HEPATITIS C CHRONIC INFECTION	138	197	146	156	140	127		146	-15.0%	33.47
LTBI	80	66	69	64	50	101		66	34.7%	26.61
MENINGOCOCCAL DISEASE	2	0	1	1	1	0		1	0.0%	0.00
MOTT	30	35	27	32	42	41		32	22.0%	10.80
MUMPS	0	0	3	12	0	5		0	100.0%	1.32
PARAGONIMIASIS	0	1	0	0	0	0		0	0.0%	0.00
RABIES ANIMAL	0	1	1	1	0	1		1	0.0%	0.26
RABIES POST EXPOSURE PROPHYLAXIS	10	23	24	10	25	12		23	-91.7%	3.16
STAPH AUREUS VISA	11	2	3	2	0	1		2	-100.0%	0.26
TB DISEASE	8	3	3	5	6	2		5	-150.0%	0.53
TOXIC SHOCK (STAPH) SYNDROME	0	0	0	0	0	0		0	0.0%	0.00
VIBRIOSIS	0	1	1	0	2	3		1	66.7%	0.79

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019 Total	2018 Total
Enteric, Food and Waterborne														
CAMPYLOBACTERIOSIS	6	2	4	0	4	3	5	3	4	4	1	0	36	34
CRYPTOSPORIDIOSIS	0	0	0	0	3	1	0	6	1	0	0	0	11	11
E COLI SHIGA TOXIN POSITIVE	1	0	0	0	2	5	0	1	2	1	1	0	13	15
E. COLI O157 H7	0	0	0	0	0	1	1	0	0	0	0	0	2	0
GIARDIASIS	0	2	2	0	1	0	1	0	1	1	1	0	9	13
HEPATITIS A ACUTE	0	0	0	0	1	0	0	0	0	0	2	1	4	0
LISTERIOSIS	0	0	0	0	0	0	0	2	0	0	0	0	2	1
SALMONELLOSIS	2	3	3	2	5	4	7	3	10	6	0	3	48	72
SHIGELLOSIS	1	0	0	1	1	0	0	0	1	1	0	1	6	10
YERSINIOSIS	0	0	0	0	0	0	1	0	0	0	1	0	2	3
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	3	1	0	1	1	0	1	0	2	0	1	0	10	7
LEGIONELLOSIS	0	0	0	0	2	4	3	1	2	1	0	0	13	10
PERTUSSIS	1	0	0	0	0	0	1	4	2	2	6	4	20	5
STREP PNEUMONIAE, <5 YEARS, INVASIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STREP PNEUMONIAE, INVASIVE	5	4	4	2	4	0	1	0	1	0	3	3	27	20
Vectorborne and Zoonotics														
ANAPLASMA PHAGOCYTOPHILUM	0	0	0	0	1	0	0	0	0	0	0	0	1	0
CHIKUNGUNYA	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
EHRlichia CHAFFEENSIS	0	0	0	0	2	3	3	1	2	1	0	0	12	9
EHRlichia EWINGII	0	0	0	0	0	0	0	0	1	0	0	0	1	0

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019 Total	2018 Total
Vectorborne and Zoonotics Continued														
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	1	0	0	0	0	0	0	0	1	1
NEUROINVASIVE WEST NILE	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	4	3	2	1	1	1	1	14	20
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Conditions														
ANIMAL BITES	49	43	43	55	58	57	68	66	48	36	43	50	616	466
COCCIDIOIDOMYCOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1
CREUTZFELDT-JAKOB DISEASE (CJD)	0	0	0	0	0	0	0	0	0	0	0	0	0	1
HEMOLYTIC UREMIC SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS B (PREGNANCY) PRENATAL	0	1	0	2	0	1	0	1	0	0	0	0	5	4
HEPATITIS B ACUTE	0	0	0	0	0	0	0	0	0	0	0	0	0	2
HEPATITIS B CHRONIC INFECTION	5	1	2	0	3	0	0	1	2	2	1	2	19	15
HEPATITIS C ACUTE	1	0	1	0	0	0	0	0	0	0	0	0	2	3
HEPATITIS C CHRONIC INFECTION	7	9	17	9	7	11	13	8	14	10	10	12	127	140
LTBI	9	6	5	7	12	7	10	9	12	9	7	8	101	50
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MOTT	4	2	1	4	4	0	6	2	5	5	4	4	41	42
MUMPS	0	0	2	1	2	0	0	0	0	0	0	0	5	0
PARAGONIMIASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RABIES ANIMAL	0	0	0	0	1	0	0	0	0	0	0	0	1	0
RABIES POST EXPOSURE PROPHYLAXIS	0	0	1	0	0	2	0	2	1	2	3	1	12	25
STAPH AUREUS VISA	0	0	0	0	0	0	0	0	0	0	1	0	1	0
TB DISEASE	0	0	0	0	0	0	0	0	0	1	0	1	2	6
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	1	0	1	1	0	0	3	2