

Notes on data:

The report includes confirmed and probable cases; suspect cases are not included in this report. Please note that these data are final as of 11/4/2022.

Notes on current report:

The number of **enteric diseases** reported to the Saint Louis County Department of Public Health (DPH) remained similar in 2021 as it was in 2020. For the enteric diseases represented in the chart below, DPH received reports on 305 total cases in 2021, a decrease of 1 case from 2020, and a 25% decrease from 2019 (407 total cases). This overall decrease was largely driven by decreases in cryptosporidiosis, *E. coli* Shiga toxin positive (non-O157), giardiasis, salmonellosis, and shigellosis. These decreases could be a result of individuals social distancing, traveling less, or not seeking medical care/testing due to the COVID-19 pandemic.

Yearly **cryptosporidiosis** cases for 2021 (n=6) were 88% below the median of the past five years (n=48) and 74% lower than in 2020 (n=23).

In 2021, there were 25 cases of ***E. coli* Shiga toxin positive (non-O157)** reported to DPH; a 31% decrease over the median of the past five years (n=36).

There was a 41% decrease in cases of **giardiasis** reported in 2021 (n=17), compared with the annual median of the past five years (n=29).

Yearly **salmonellosis** cases for 2021 (n=113) were 26% below the median of the past five years (n=152) but 38% higher than in 2020 (n=82).

DPH observed an 88% decrease in cases of **shigellosis** reported in 2021 (n=12), compared with the annual median of the past five years (n=100). There were no reported outbreaks in 2021, which contributed to the lower overall number of shigellosis cases.

In contrast to the notable declines among many enteric illnesses, yearly **cyclosporiasis** cases for 2021 (n=19) were 27% above the median for the past five years. Although 44 cases were reported in 2018 and 41 in 2020, case counts in the remaining years were 4 (in 2017) and 15 (in 2019). One possible explanation for the dramatic difference in case counts is an increase in the use of GI panel diagnostic testing (although this does not explain why 2019 case counts were significantly lower than those for 2018 and 2020).

For more information on enteric diseases, please visit CDC's website at:

<https://www.cdc.gov/ncezid/dfwed/edeb/index.html>

In 2021, there were 3 cases of **pertussis** reported to DPH, a 96% decrease over the annual median of the past five years (n=76) and a 91% decrease compared with 2020 (n=35). This decrease could be due to school closures, the use of masks, social distancing, or a combination of the three in addition of a change in the case definition.

For more information on pertussis, please visit CDC's website at:

<https://www.cdc.gov/pertussis/index.html>

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In March 2020 the 2019 Novel Coronavirus (COVID-19) was detected in Saint Louis County. Overall, there were 88,964 cases reported to DPH in 2021, an increase of 21% from 2020 (n=73,743).

For more information on COVID-19, please visit CDC's website at:

<https://www.cdc.gov/coronavirus/2019-ncov/index.html>

There was a slight increase in the number of cases of **sexually transmitted infections (STI's)** reported to DPH in 2021 compared with 2020. For the STI's represented in the chart below, DPH received reports on 10,029 total cases in 2021, a 2% increase over 2020 (9,878 total cases). The cases of **congenital syphilis** have increased at an alarming 1000% from the annual median of the past five years (n=1) to 2021 (n=11).

DPH observed a 58% increase in **animal bites** reported in 2021 (n=415), compared with the annual median of the past five years (n=263).

For more information on sexually transmitted infections, please visit CDC's website at:

<https://www.cdc.gov/std/default.htm>

For more information on animal bite exposures, please visit CDC's website at:

<https://www.cdc.gov/rabies/exposure/animals/domestic.html>

If you need to reach us on that day or at any time outside of normal business hours please note the following:

To report a public health emergency in Saint Louis County:

During normal business hours - Monday thru Friday 8:00 a.m. - 5:00 p.m.

Call Saint Louis County DPH at **(314) 615-1630**

At all other times:

call **(314) 615-7677** or fax **(314) 615-7643**.

To report any Saint Louis area Hazardous Material concern: Call 911

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		Year to Year Comparison					Historic	% Change
		Totals					Median of 5 previous years (2016-2020) YTD totals	from current YTD totals to historic 5 year median
Conditions	2017	2018	2019	2020	2021			
Enterics	Campylobacteriosis	98	118	122	91	94	100	-6%
	Cryptosporidiosis	55	48	56	23	6	48	-88%
	Cyclosporiasis	4	44	15	41	19	15	27%
	E. coli O157:H7	6	8*	0	3	5	6	-17%
	E. coli shiga toxin (non O157)**	37	47*	31	17	25	36	-31%
	Giardiasis	23	29	30	13	17	29	-41%
	Hemolytic Uremic Syndrome (HUS)	1	2	0	0	1	0	N/A
	Listeriosis	3	4	4*	6	1	4	-75%
	Salmonellosis	174*	152	120	82	113	152	-26%
	Shiga toxin positive (Unk. organism)	5	1*	0	1	0	1	-100%
	Shigellosis	172*	100	18	12	12	100	-88%
	Typhoid fever	1	1	0*	3	3	1	200%
	Vibriosis	0*	6	4	2	2	2	0%
Yersiniosis	2	6*	7	12	7	7	0%	
Enteric Totals	581	566	407	306	305			
Vector Borne	Anaplasmosis	3	0	1	0	2	1	100%
	Chikungunya	0	1	0	0	0	0	N/A
	Dengue fever	0	0	1	1	0	1	-100%
	Ehrlichiosis	27	24	35	29	32	27	19%
	Lyme	4*	2	4	3	1	3	-67%
	Malaria	4	1	2	0	2	2	0%
	Q fever	0	0	1	0	0	0	N/A
	Rocky Mountain spotted fever	17	20	18	8*	3	17	-82%
	Tularemia	2*	0	0	1	1	0	N/A
	West Nile, neuroinvasive	4	4	0	1	2	4	-50%
	West Nile, non neuroinvasive	0	3	0	0	0	0	N/A
Zika	1	0	0	0	0	0	N/A	
Vector Borne Totals	62	55	62	43	43			

*There was a change in case definition this year which may result in a potential increase or decrease of case counts

**E. coli shiga toxin (non O157) includes E. coli cases that have not yet or will not be serogrouped and those serogrouped but are not O157

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		Totals					Median of 5 previous years (2016-2020) YTD totals	from current YTD totals to historic 5 year median
	Conditions	2017	2018	2019	2020	2021		
Systemic	Botulism	0	0	0	0	0	0	N/A
	Brucellosis	1	0	0	0	0	0	N/A
	Coccidioidomycosis	3	8	3	5	5	4	25%
	COVID-19	0	0	0	73,743*	88,964*	0	N/A
	Creutzfeldt-Jakob disease (CJD)	3	3	2	1	2	3	-33%
	Haemophilus influenzae, invasive	20	16	15	10	11	16	-31%
	Legionellosis	25	27	38	7*	32	27	19%
	Staph aureus, VISA	13	2	4	15	6	7	-14%
	Strep Pneumoniae, invasive	68*	79	78	40	33	68	-51%
	Toxic shock (strep or staph) syndrome	0	1	2	0	0	1	-100%
Systemic Totals		133	136	142	73821	89053		
Vaccine Preventable	Diphtheria	0	0	0*	0	0	0	N/A
	Measles	0	0	0	0	0	0	N/A
	Meningococcal disease	0	1	3	0	5	0	N/A
	Mumps	30	2	3	0	0	3	-100%
	Pertussis	76	39	99	35*	3	76	-96%
	Rubella	0	0	0	0	0	0	N/A
	Tetanus	0	0	0	0	0	0	N/A
	Varicella	7	9	12	9	13	9	44%
Vaccine Preventable Disease Totals		113	51	117	9	44		

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Conditions		Year to Year Comparison					Historic	% Change
		Totals					Median of 5 previous years (2016-2020) YTD totals	from current YTD totals to historic 5 year median
		2017	2018	2019	2020	2021		
Sexually Transmitted Infections	Chlamydia	6161	6450	6599	6065	6183	6161	0%
	Gonorrhea	2599	2791	2996	3407	3256	2791	17%
	Syphilis, congenital	3	1	1	4	11	1	1000%
	Syphilis, early	198	203*	201	231	292	201	45%
	Syphilis, late latent	66	127*	146	171	287	127	126%
Sexually Transmitted Infection Totals		9027	9572	9943	9878	10029		
Viral Hepatitis	Hepatitis A acute	1	5	8*	10	1	5	-80%
	Hepatitis B (pregnancy) prenatal	24*	26	22	22	19	23	-17%
	Hepatitis B acute	9	2	8	6	4	6	-33%
	Hepatitis B chronic	77	102	95	87	100	87	15%
	Hepatitis C acute	19	23	10	7*	1	10	-90%
	Hepatitis C chronic	601	476	435	352*	311	476	-35%
Viral Hepatitis Totals		731	634	578	484	436		
Bite Exposure	Animal bites	183	263	356	390	415	263	58%
	Rabid animal	3	0	4	2	2	2	0%
	Rabies post-exposure prophylaxis (RPEP)	59	147	162	158	179	147	22%
Bite Exposure Totals		245	410	522	550	596		
Mycobacterial	Nontuberculous Mycobacteria (NTM)	163*	170	184	123	126	170	-26%
	TB disease***	15	16	13	16	20	16	25%
	TB infection	411	511*	525	471	457	511	-11%
Mycobacterial Totals		589	697	722	610	603		

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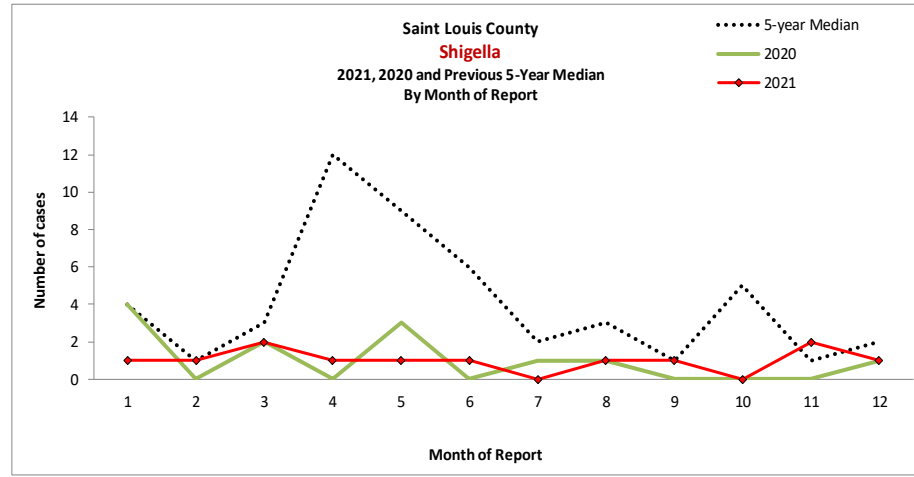
***TB Disease includes cases that are counted and managed by Saint Louis County TB Program

A full list of reportable conditions in the state of Missouri can be found on the state's website at:

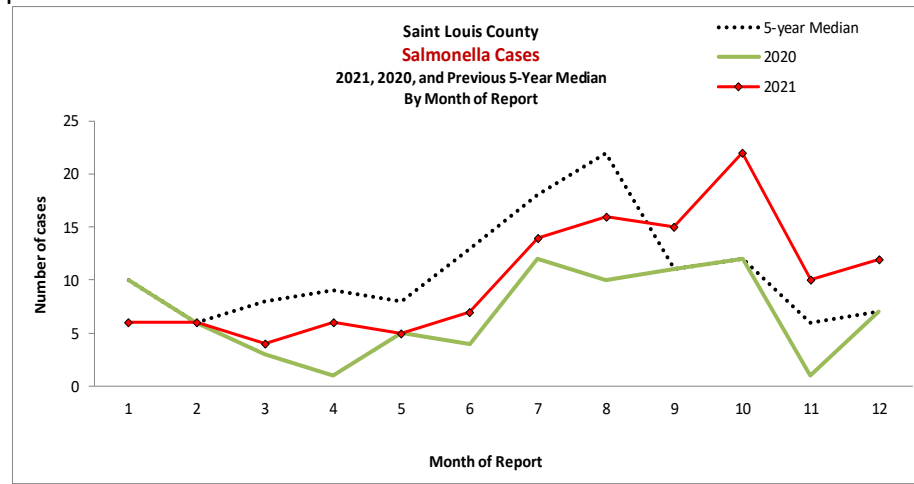
<https://health.mo.gov/living/healthcondiseases/communicable/communicabledisease/>

Acute Gastrointestinal Diseases:

SHIGELLOSIS: In 2021, the number of cases of Shigella ranged from 0 to 2 per month. During the previous 5 years, the median number of Shigella cases ranged from 1 to 12 per month.



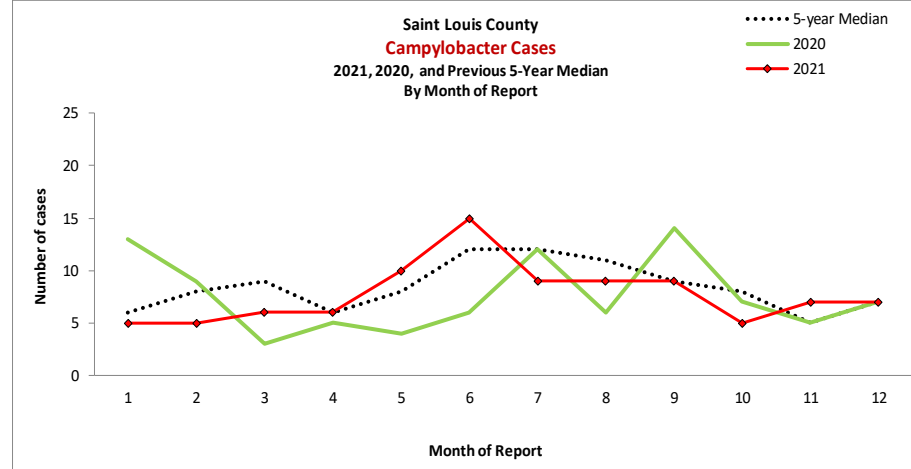
SALMONELLOSIS: In 2021, the number of cases of Salmonella ranged from 4 to 22 per month. During the previous 5 years, the median number of Salmonella cases ranged from 6 to 22 per month.



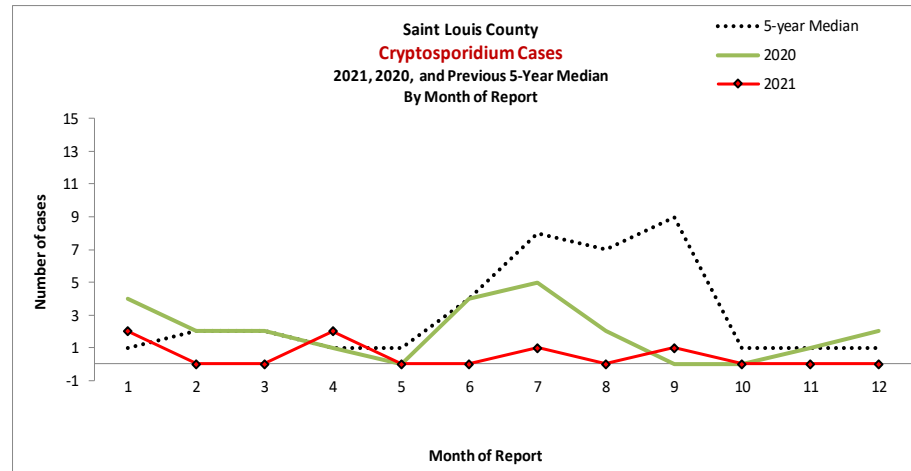
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CAMPYLOBACTERIOSIS: In 2021, the number of cases of Campylobacter ranged from 5 to 15 per month. During the previous 5 years, the median number of Campylobacter cases ranged from 5 to 12 per month.



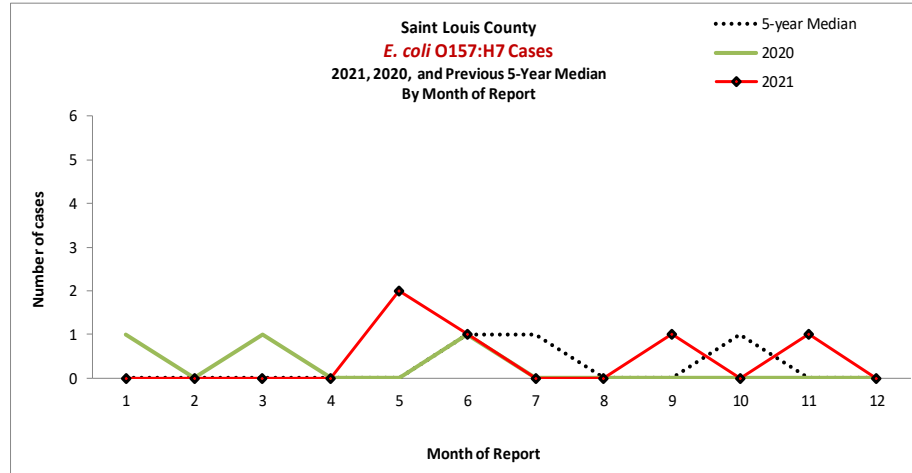
CRYPTOSPORIDIOSIS: In 2021, the number of cases of Cryptosporidium ranged from 0 to 2 per month. During the previous 5 years, the median number of Cryptosporidium cases ranged from 1 to 9 per month.



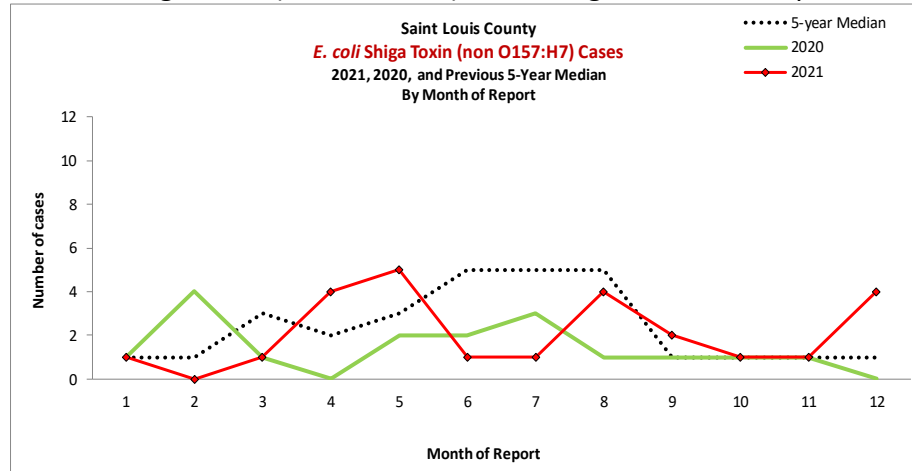
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E. COLI O157 H7: In 2021, the number of cases of *E. coli* O157:H7 ranged from 0 to 1 per month. During the previous 5 years, the median number of *E. coli* O157:H7 cases ranged from 0 to 1 per month.



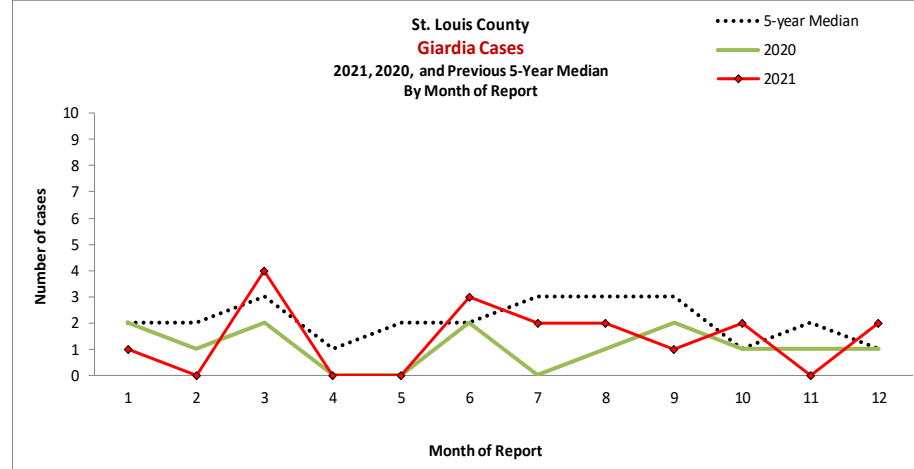
E. COLI SHIGA TOXIN (non O157:H7): In 2021, the number of cases of *E. coli* Shiga Toxin (non O157:H7) ranged from 0 to 4 per month. During the previous 5 years, the median number of *E. coli* Shiga Toxin (non O157:H7) cases ranged from 1 to 5 per month.



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GIARDIASIS: In 2021, the number of cases of Giardia ranged from 0 to 4 per month. During the previous 5 years, the median number of Giardia cases ranged from 1 to 3 per month.



Respiratory Disease:

PERTUSSIS: In 2021, the number of cases of Pertussis ranged from 0 to 1 per month. During the previous 5 years, the median number of Pertussis cases ranged from 1 to 11 per month.

