

*mi*Ottawa Department of
Public Health

**Annual Summary of
Reportable Diseases
Ottawa County 2022**

Prepared August 2023

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Executive Summary

The 2022 Annual Summary of Reportable Diseases provides data on a select list of reportable diseases, almost all of which are considered communicable diseases. [Communicable diseases](#) are caused by microorganisms, or the toxins they produce, which spread from an infected person, animal, or environmental source. Sometimes spread occurs indirectly by contaminated animals, insects, or objects.

This report is intended to be a resource for individuals and organizations for whom communicable diseases are a concern or prevention a priority. Highlights from the report are summarized below.

Foodborne Illnesses (Enteric Diseases)

The incidence of most foodborne illnesses declined during the COVID-19 pandemic. These decreases may have been due to reduced exposure to higher risk food or animals; improved hygiene; or changes in healthcare seeking behaviors, testing, and disease reporting. Although diseases in this section are commonly spread by contaminated food, some of these diseases can also be spread by contaminated water, animals, and sexual contact.

Although a general decline in reported foodborne illness cases occurred through the COVID-19 pandemic, the number of reported cases increased in 2022. One disease that saw a sharp increase in 2022 was Shiga toxin-producing Escherichia coli (STEC). A [multistate outbreak](#) was the primary reason for the increase in 2022, contributing over a dozen STEC cases in Ottawa County. Hemolytic Uremic Syndrome (HUS), a rare but serious condition that sometimes occurs as a complication of STEC infection, was reported among three (3) of the Ottawa County STEC cases reported in 2022.

Mpox, Influenza, and COVID-19

Mpox was a newly reportable condition in 2022 following a [global outbreak of the disease](#). Ottawa County has had a total of seven (7) cases, all reported in 2022. [Influenza \(flu\) activity was reduced throughout the COVID-19 pandemic](#), likely due to heightened awareness, improved disease prevention, and reduced social interaction. However, flu activity returned to pre-pandemic levels during the 2022-23 flu season. COVID-19 cases declined about 21% in 2022 compared to 2021, despite the emergence of the highly contagious omicron variant(s). Decreased testing and reporting to public health agencies, as well as an increase in immunity among the general population may have contributed to the decline in reported COVID-19 cases in 2022.

Sexually Transmitted Diseases (STD)

In Ottawa County, chlamydia remained the most reported STD in 2022. Reported cases in Ottawa County during 2022 (770 cases) were about 24% lower than the case counts reported in 2021 (1,010 cases). Similar patterns were observed for gonorrhea and syphilis with a decrease of about 41% and 15%, respectively.

Vaccine Preventable Diseases (VPD)

Over the past five years Ottawa County experienced relatively low and stable case counts for Haemophilus influenzae and mumps; and over that same period, no cases of diphtheria, measles, polio, rubella, or tetanus were reported in Ottawa County. Chickenpox (varicella) and shingles continued to be reported in 2022, despite some temporary declines during the COVID-19 pandemic. From 2018-2022, pertussis exhibited a unique declining trend, falling from the

pre-pandemic level of 20 cases in 2018 and 19 cases in 2019, to five (5) cases in 2020, zero (0) cases in 2021, and one (1) case in 2022. This decline may be due to [COVID-19 prevention measures reducing pertussis transmission](#).

Vectorborne Diseases

Vectorborne diseases are illnesses that result from infections transmitted to humans and other animals by blood-feeding arthropods, such as mosquitoes, ticks, and fleas. For most reportable vectorborne diseases, the number of cases reported in 2022 remained low. Lyme Disease was the most reported vectorborne disease (24 cases) in Ottawa County in 2022. For several years, Ottawa County has been [considered a county with known risk for Lyme Disease](#) by the Michigan Department of Health and Human Services.

Malaria, another vectorborne disease, is a rare condition in Ottawa County with one (1) case reported in 2022, the first reported case since 2016. The case reported in 2022 had recently travelled to an area where malaria was present. There have been no reports of locally acquired malaria cases in Ottawa County.

Viral Hepatitis

Viral hepatitis is an infection that causes liver inflammation and damage. Several different viruses cause hepatitis, including hepatitis A, B, C, D, and E. Chronic hepatitis C remained the most reported type of viral hepatitis in Ottawa County in 2022, followed by chronic hepatitis B. Generally, the incidence rate of viral hepatitis in Ottawa County has remained below the statewide rate.

Annual Reportable Disease Summary

Data

The data in the annual disease report is expected to be final, based on current reports in the Michigan Disease Surveillance System (MDSS) made by local health departments at the time this report was compiled. The MDSS is a dynamic, continually active system and disease counts can change as cases are investigated, confirmed as cases, or ruled out as not meeting the case definition. Therefore, it should be kept in mind that numbers in the annual disease report may change and should be used only to generally monitor trends over time. Suspected, probable and confirmed cases of the reportable condition are included in the report. Statewide disease counts may differ from that published elsewhere by the Michigan Department of Health and Human Services (MDHHS) for several reasons including the time frame of data acquisition and differences in data query criteria. Changes in disease counts from one year to the next can be due to several reasons including; changes in laboratory tests, case definitions, reporting mechanisms, newly added conditions, as well as actual increases or decreases in disease incidence. Changes in healthcare seeking behavior since the onset of the COVID-19 pandemic may have also affected the counts of reported diseases especially during the initial phase of the pandemic.

Specific data requests and questions should be directed to:

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Disease Group	Reportable Condition	Ottawa County Cases Reported**					Michigan Cases Reported				
		2018	2019	2020	2021	2022	2018	2019	2020	2021	2022
Foodborne	Amebiasis	1	-	-	1	-	2	9	7	6	11
	Botulism - Foodborne	-	-	-	-	-	-	-	-	1	-
	Campylobacter	61	58	38	58	78	1,705	1,705	1,221	1,517	1,506
	Cryptosporidiosis	24	22	15	12	19	383	419	246	249	333
	Giardiasis	15	11	13	17	10	464	428	379	439	400
	Listeriosis	-	4	-	-	-	23	30	29	35	36
	Norovirus***	88	262	108	36	13	1,009	1,481	582	587	1,391
	Salmonellosis	38	30	45	38	45	1,137	1,075	906	872	855
	Shiga toxin-producing Escherichia coli (STEC)	16	17	10	5	31	327	309	212	269	419
	Shigellosis	8	16	5	2	6	209	219	151	171	219
	Typhoid Fever	-	1	-	-	-	6	10	1	4	15
Yersinia enterocolitica	2	-	5	2	6	82	76	80	88	202	
Foodborne Subtotal	253	421	239	171	208	5,347	5,761	3,814	4,238	5,387	
Influenza	Flu Like Disease* ***	35,954	31,762	27,698	20,633	45,611	379,206	347,997	204,963	86,081	230,764
	Influenza	9	4	6	39	232	44,949	30,007	30,842	2,928	46,547
	Influenza, Novel	-	-	-	-	-	3	1	-	-	4
Influenza Subtotal	35,963	31,766	27,704	20,672	45,843	424,158	378,005	235,805	89,009	277,315	
Meningitis	Meningitis - Aseptic	8	9	2	2	6	826	457	260	259	293
	Meningitis - Bacterial Other	5	3	6	4	4	148	121	102	126	148
	Meningococcal Disease	-	-	-	-	-	4	8	3	5	5
	Streptococcus pneumoniae, Inv	10	10	8	15	11	791	936	529	522	804
Meningitis Subtotal	23	22	16	21	21	1,769	1,522	894	912	1,250	
Other	Acute Flaccid Myelitis (AFM)	1	-	-	-	-	6	3	4	1	2
	Anthrax	-	-	-	-	-	-	-	-	-	-
	Blastomycosis	-	-	1	-	-	20	26	24	24	31
	Botulism - Infant	-	-	-	-	-	1	-	2	-	1
	Botulism - Other	-	-	-	-	-	2	-	1	2	4
	Brucellosis	-	1	-	-	-	4	1	4	2	7
	CP-CRE	3	1	-	2	5	401	263	267	404	550
	Candida auris	-	-	-	-	-	-	-	-	3	136
	Cholera	-	-	-	-	-	1	2	1	-	-
	Coccidioidomycosis	2	4	1	3	2	39	52	54	75	58
	Creutzfeldt-Jakob Disease	1	-	1	-	-	13	16	10	16	16
	Cryptococcosis	1	-	-	-	-	14	18	24	25	23
	Cyclosporiasis	-	1	-	-	-	30	130	25	51	57
	Encephalitis, Post Chickenpox	-	-	-	-	-	1	1	-	-	2
	Encephalitis, Post Mumps	-	-	-	-	-	-	-	-	-	-
	Encephalitis, Post Other	-	-	1	-	1	10	14	10	16	16
	Encephalitis, Primary	-	-	-	-	-	18	14	16	11	8
	Gastrointestinal Illness	21,768	20,765	11,247	10,431	17,489	154,968	138,801	61,476	45,986	101,494
	Guillain-Barre Syndrome	-	-	2	1	4	48	65	50	60	76
	Hantavirus	-	-	-	-	-	-	-	-	-	-
	Hantavirus, Other	-	-	-	-	-	-	-	-	-	-
	Hantavirus, Pulmonary	-	-	-	-	-	-	-	-	1	-
	Hemolytic Uremic Syndrome	2	1	1	-	3	11	8	5	3	16
	Hemorrhagic Fever	-	-	-	-	-	-	-	-	-	-
	Histoplasmosis	11	24	10	22	29	172	236	198	273	357
	Kawasaki	1	-	2	-	-	35	55	63	44	55
	Legionellosis	11	8	7	8	6	643	561	385	583	373
	Leprosy	-	-	-	-	-	1	-	-	1	2
	Leptospirosis	-	-	-	-	-	1	3	3	1	2
	Melioidosis	-	-	-	-	-	-	-	-	-	-
	Mpox ***	-	-	-	-	7	-	-	-	-	456
	Multisystem Inflammatory Syndrome **	-	-	4	4	5	-	-	80	175	76
	Novel Coronavirus COVID-19 **	-	-	21,943	44,777	35,407	3	43	589,284	1,361,085	1,358,604
	Plague	-	-	-	-	-	-	-	-	-	-
	Psittacosis	-	-	-	-	-	4	-	2	2	6
	Q Fever Acute	1	-	-	-	-	4	5	4	4	2
	Q Fever Chronic	-	-	-	-	-	1	-	1	-	2
	Rabies Animal	-	1	-	3	3	76	58	55	48	49
	Rabies Human	-	-	-	-	-	-	-	-	-	-
	Reye Syndrome	-	-	-	-	-	-	-	-	-	-
	Rheumatic Fever	-	-	-	-	-	-	-	-	-	2
Rubella - Congenital	-	-	-	-	-	-	-	-	-	-	
Streptococcus pneumoniae, Drug Resistant	4	4	5	-	2	96	80	32	40	59	
Streptococcal Dis, Inv, Grp A	8	11	13	3	7	428	449	337	258	386	
Streptococcal Toxic Shock	-	-	-	-	1	5	5	4	2	4	

Disease Group	Reportable Condition	Ottawa County Cases Reported**					Michigan Cases Reported				
		2018	2019	2020	2021	2022	2018	2019	2020	2021	2022
Other	Toxic Shock	-	-	-	-	1	4	7	3	5	2
	Trachoma	-	-	-	-	-	-	-	2	1	-
	Trichinosis	-	-	-	-	-	-	-	-	-	-
	Tularemia	-	-	-	-	-	2	1	-	1	4
	Vibriosis - Non Cholera	-	3	-	2	2	45	39	27	35	44
	VISA	2	1	-	-	-	8	11	-	4	3
	VRSA	-	-	-	-	-	-	-	-	1	1
	Other Subtotal	21,816	20,825	33,238	55,256	52,974	157,115	140,967	652,453	1,409,243	1,462,986
STD	Chancroid	-	-	-	-	-	-	-	-	2	-
	Chlamydia (Genital)	936	822	807	1,010	770	51,537	50,358	44,803	46,396	42,763
	Gonorrhea	187	162	203	259	152	17,032	18,266	23,397	22,208	16,354
	Granuloma Inguinale	-	-	-	-	-	-	-	-	-	-
	Lymphogranuloma venereum	-	-	-	-	-	16	1	8	3	2
	Syphilis - Primary, Secondary & Early Latent	8	8	18	14	11	1,066	1,241	1,349	1,714	1,726
	All Syphilis	14	14	24	27	23	1,706	1,913	2,045	2,681	2,828
	STD Subtotal	1,137	998	1,034	1,296	945	70,291	70,538	70,253	71,290	61,947
Tuberculosis	Latent Tuberculosis Infection	65	50	24	62	60	1,126	2,054	1,352	1,482	1,872
	Nontuberculous Mycobacterium	11	11	16	12	22	839	854	683	770	827
	Tuberculosis	7	3	1	1	1	119	140	99	138	120
	Tuberculosis Subtotal	83	64	41	75	83	2,084	3,048	2,134	2,390	2,819
VPD	Chickenpox (Varicella)	27	14	14	22	8	434	416	185	183	231
	Diphtheria	-	-	-	-	-	-	-	-	-	-
	H. influenzae Disease - Inv. †	-	9	4	4	7	174	223	100	168	251
	Measles	-	-	-	-	-	19	46	-	4	4
	Mumps	1	-	1	-	-	81	29	7	11	29
	Pertussis	20	19	5	-	1	658	546	116	74	95
	Polio	-	-	-	-	-	-	-	-	-	-
	Rubella	-	-	-	-	-	-	-	1	6	13
	Shingles	26	21	9	15	41	1,252	1,222	818	629	761
	Tetanus	-	-	-	-	-	2	1	-	1	1
	VZ Infection, Unspecified	-	4	17	4	1	213	228	235	384	376
	VPD Subtotal	74	67	50	45	58	2,833	2,711	1,462	1,460	1,761
Vectorborne	Babesiosis	-	-	-	-	-	5	2	1	8	12
	Chikungunya	-	-	-	-	-	-	-	-	1	3
	Dengue Fever	-	1	-	-	-	12	23	7	5	25
	Ehrlichiosis	2	1	-	1	-	25	22	25	82	92
	Encephalitis, California Serogroup	-	-	1	-	-	2	3	4	9	4
	Encephalitis, Eastern Equine	-	-	-	-	-	1	10	4	1	-
	Encephalitis, Powassan	-	-	-	-	-	-	-	-	-	-
	Encephalitis, St. Louis	-	-	-	-	-	-	-	-	1	-
	Encephalitis, Western Equine	-	-	-	-	-	-	-	-	-	-
	Lyme Disease	9	26	10	28	24	309	492	536	1,266	1,100
	Malaria	-	-	-	-	1	29	26	14	15	44
	Rickettsial Disease - Spotted Fever	-	-	1	-	1	23	12	48	12	15
	Rickettsial Disease - Typhus	-	-	-	-	-	-	-	-	-	-
	West Nile Virus	2	-	-	-	-	105	12	33	59	16
	Yellow Fever	-	-	-	-	-	-	-	-	-	-
	Zika	-	-	-	-	-	1	-	-	-	-
	Vectorborne Subtotal	13	28	12	29	26	512	602	672	1,459	1,311
Viral Hepatitis	Hepatitis A	-	1	-	1	-	331	78	22	31	31
	Hepatitis B, Acute	2	1	-	-	-	80	65	45	36	33
	Hepatitis B, Chronic	23	18	7	10	10	1,057	1,003	677	626	584
	Hepatitis B, Perinatal	-	-	-	-	-	1	-	-	-	-
	Hepatitis C, Acute*	1	1	5	-	-	175	129	142	128	102
	Hepatitis C, Chronic*	107	62	31	33	37	9,778	5,657	4,088	3,851	3,196
	Hepatitis C, Perinatal	-	-	-	-	1	11	10	8	9	7
	Hepatitis C, Unknown*	-	-	-	-	-	-	21	-	-	5
	Hepatitis D	-	2	-	-	1	4	6	6	8	9
	Hepatitis E	-	1	-	-	-	9	5	9	11	10
	Viral Hepatitis Subtotal	133	86	43	44	49	11,446	6,974	4,997	4,700	3,977
Total		59,495	54,277	62,377	77,609	100,207	675,555	610,128	972,484	1,584,701	1,818,753

* Indicates disease no longer reported into the MDSS on an individual cases basis.

** Data for cases reported is based on date of symptom onset, if available, or date of referral to the public health department.

*** The Ottawa County Department Of Public Health began reporting aggregate counts of these diseases to the MDSS in 2015.

† All serotypes of invasive H. influenzae (Hi) disease are included, though only H. influenzae serotype b disease (Hib) is vaccine-preventable.

* Indicates a change in the case definition for 2020, which may affect the number of confirmed and probable cases.

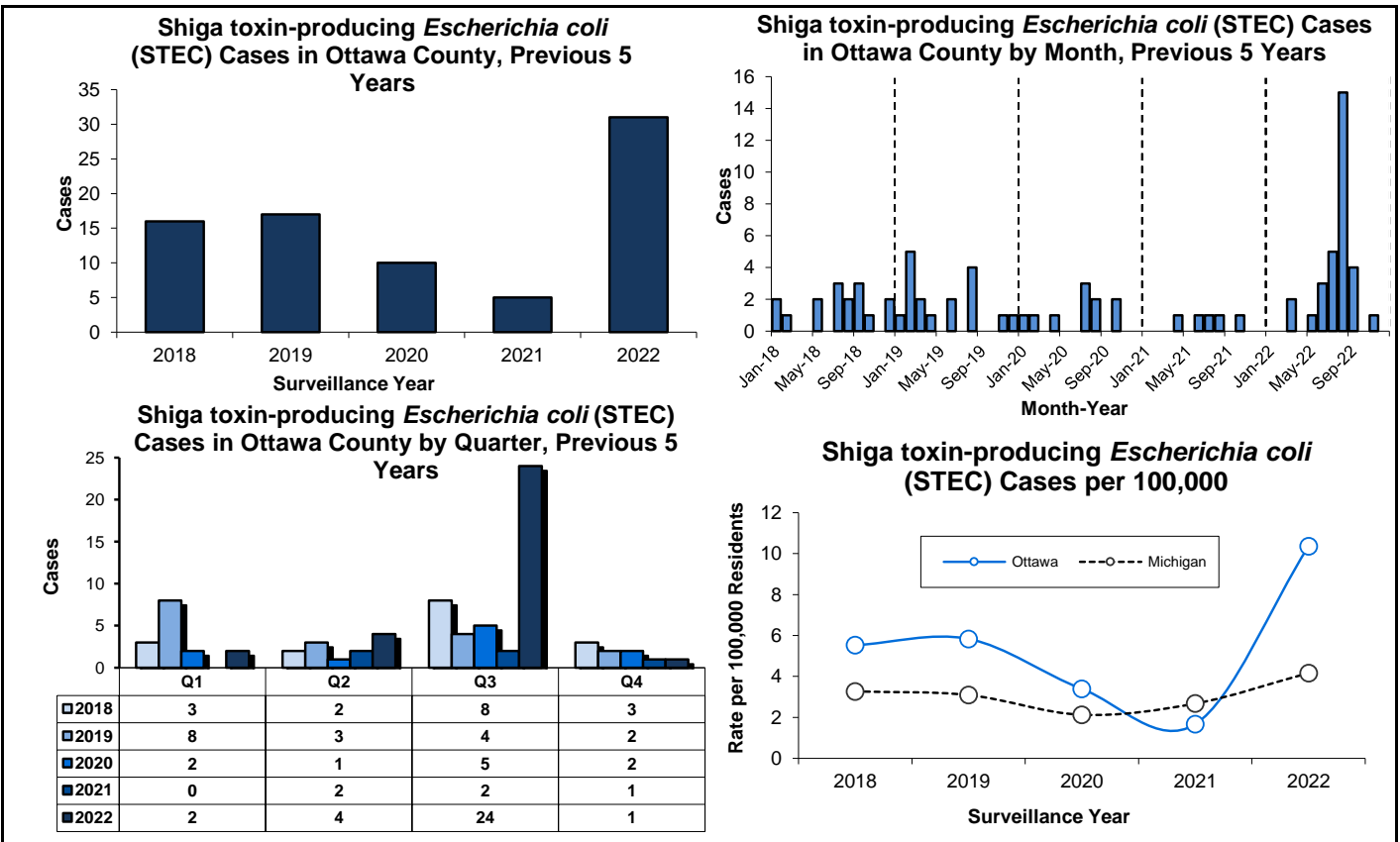
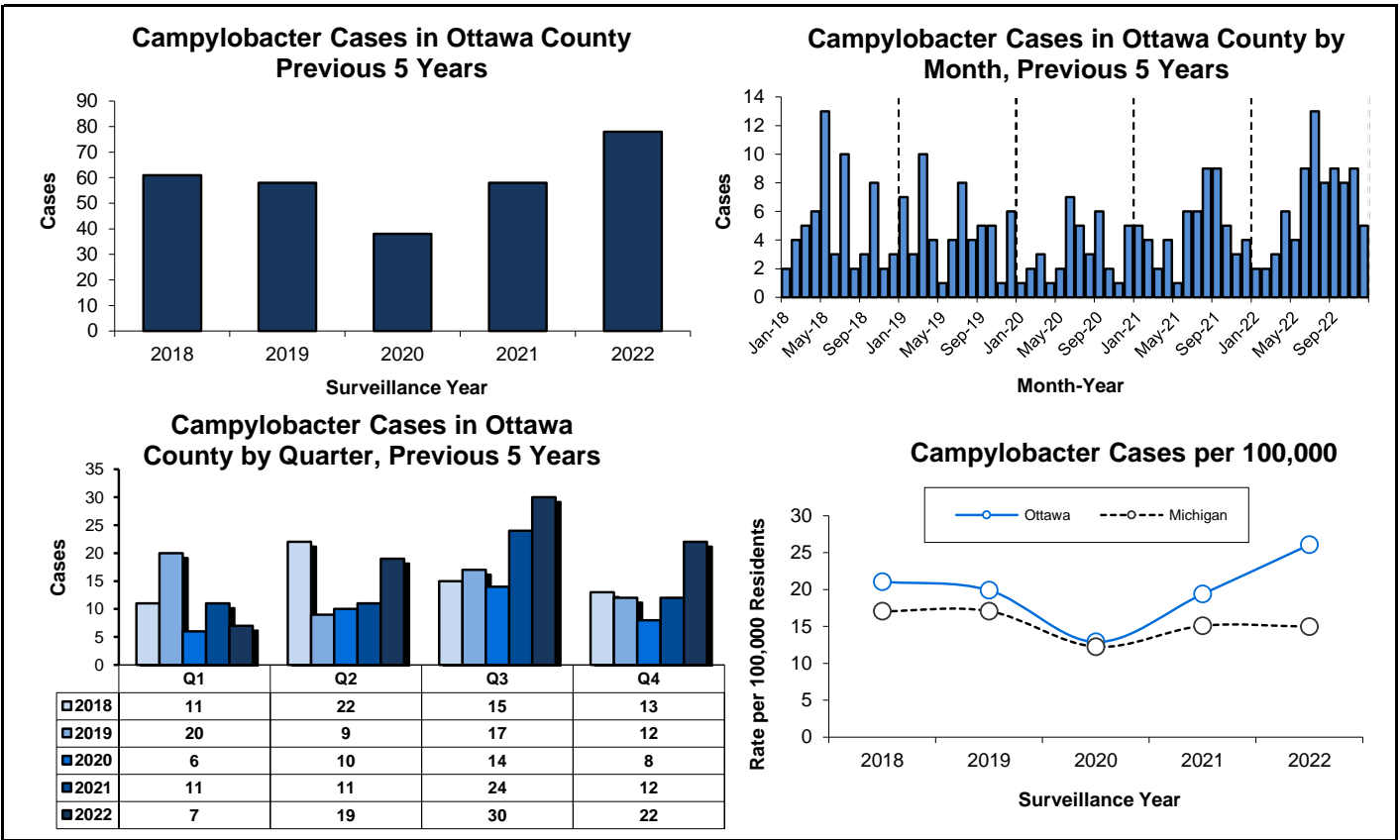
** Indicates disease first reported in MDSS in 2020.

*** Indicates disease first reported in MDSS in 2022.

Annual Reportable Disease Summary

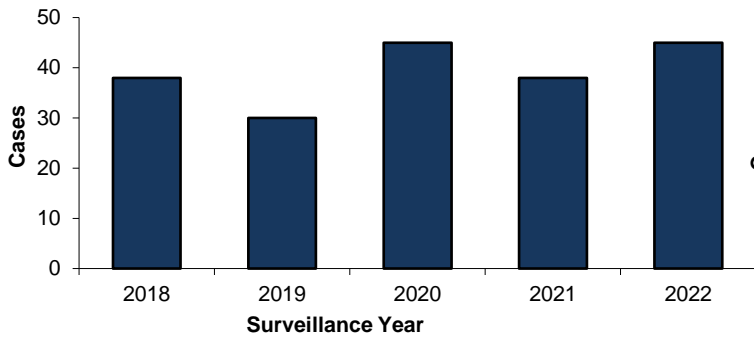
Charts

Foodborne Illness:

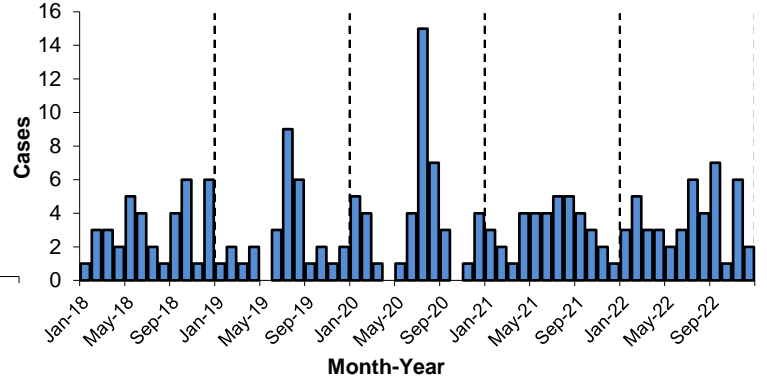


Foodborne Illness:

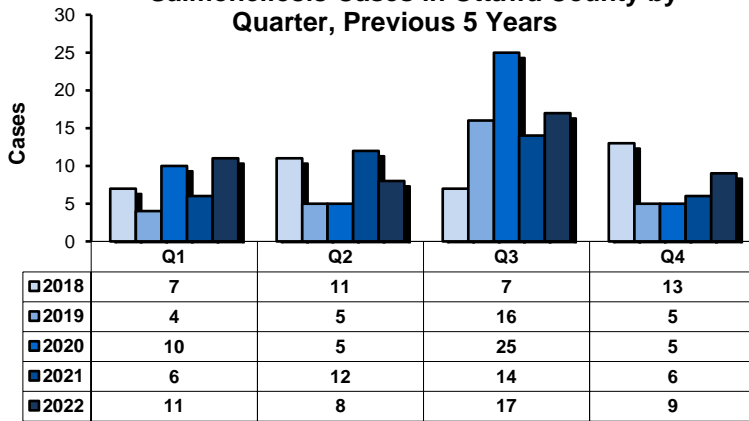
Salmonellosis Cases in Ottawa County Previous 5 Years



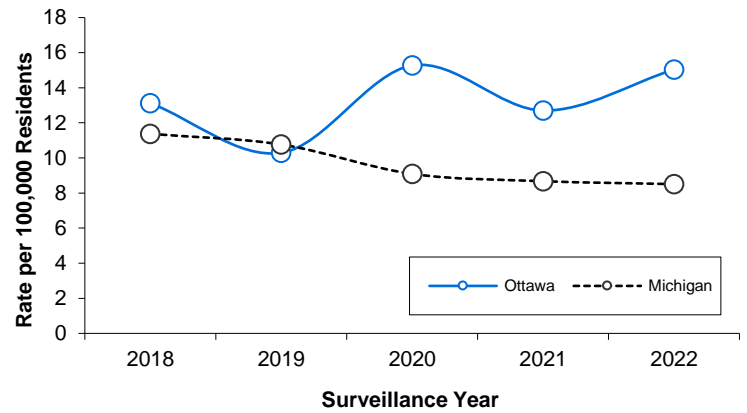
Salmonellosis Cases in Ottawa County by Month Previous 5 Years



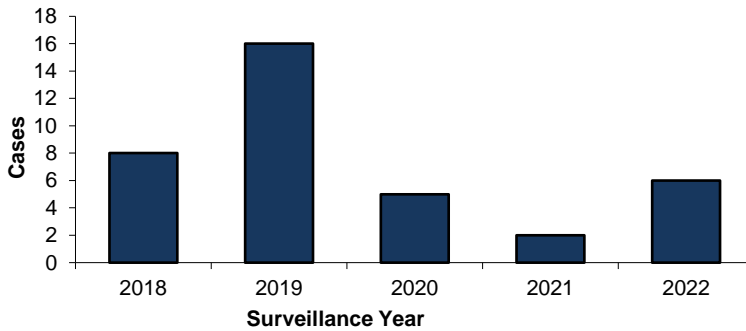
Salmonellosis Cases in Ottawa County by Quarter, Previous 5 Years



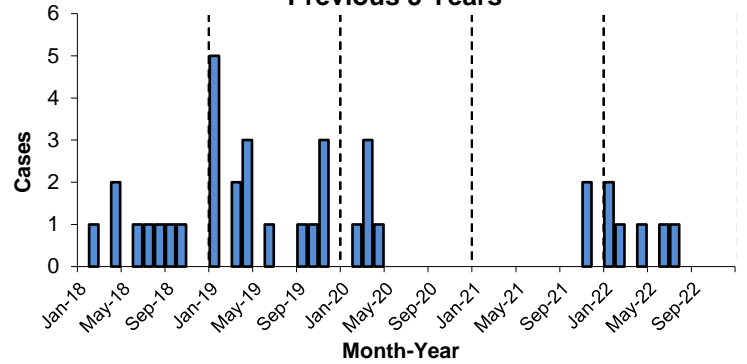
Salmonellosis Cases per 100,000



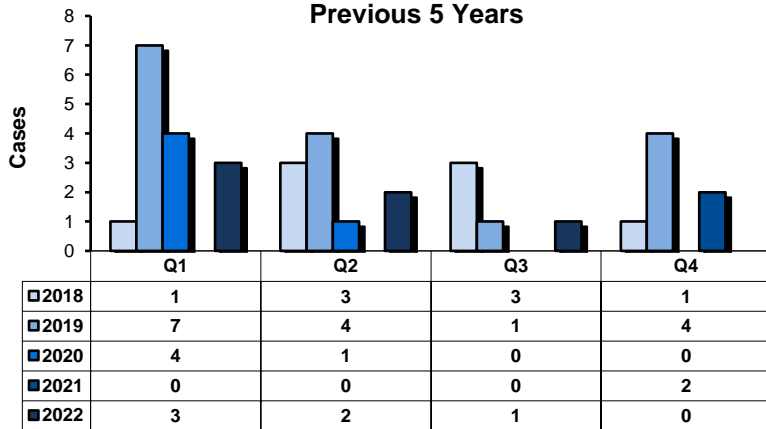
Shigellosis Cases in Ottawa County Previous 5 Years



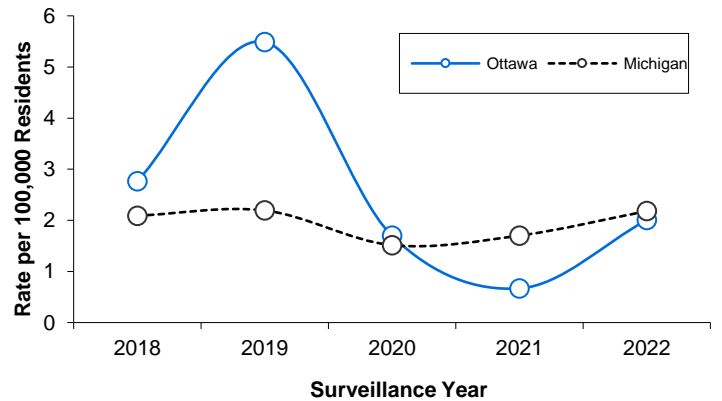
Shigellosis Cases in Ottawa County by Month Previous 5 Years



Shigellosis Cases in Ottawa County by Quarter Previous 5 Years

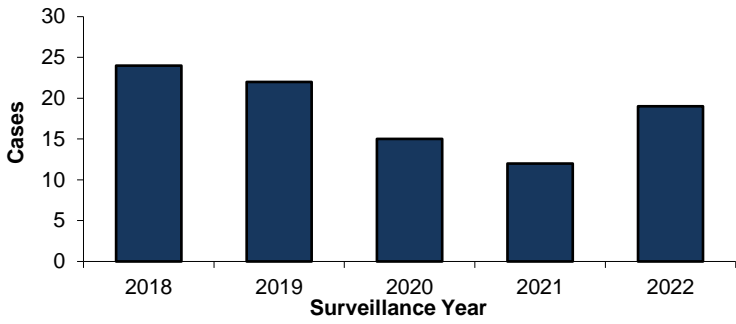


Shigellosis Cases per 100,000

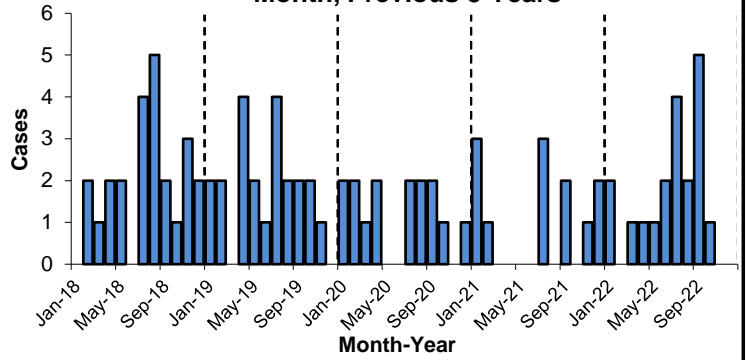


Foodborne Illness:

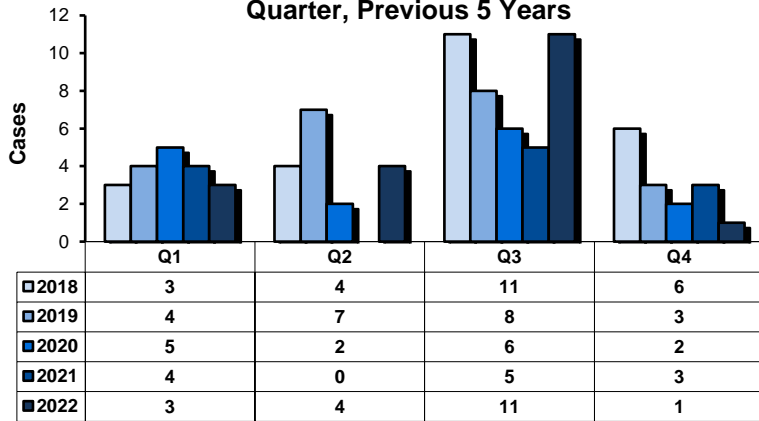
Cryptosporidiosis Cases in Ottawa County, Previous 5 Years



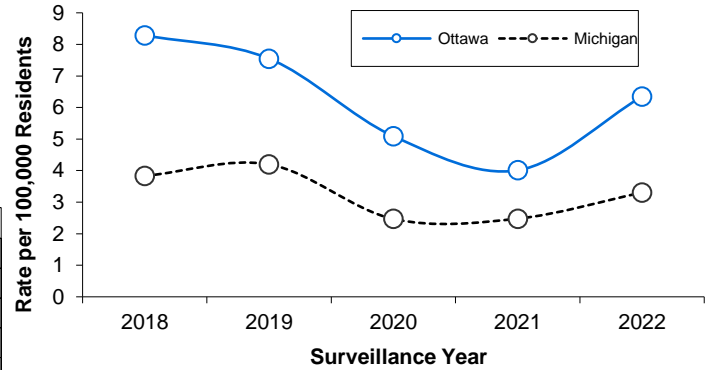
Cryptosporidiosis Cases in Ottawa County by Month, Previous 5 Years



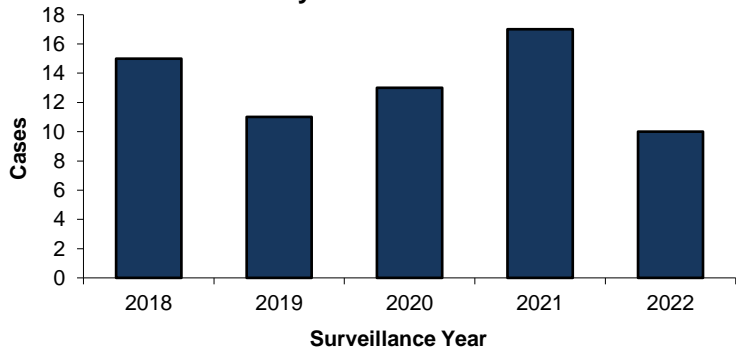
Cryptosporidiosis Cases in Ottawa County by Quarter, Previous 5 Years



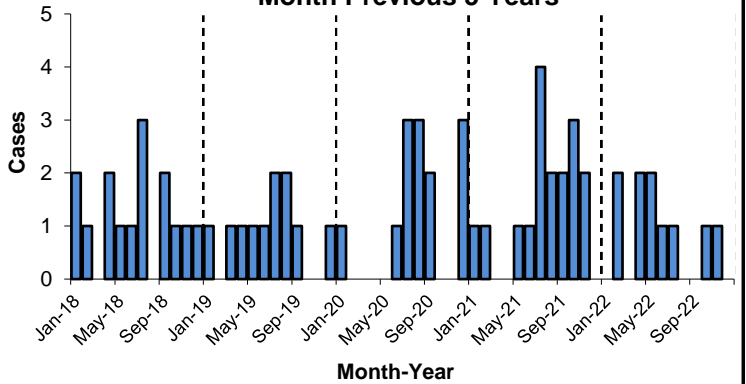
Cryptosporidiosis Cases per 100,000



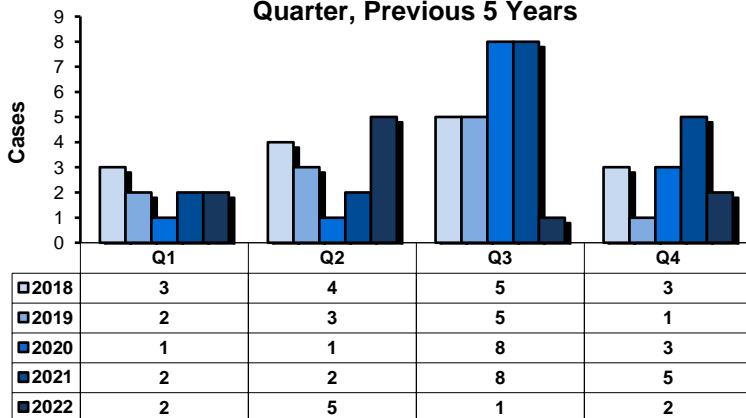
Giardiasis Cases in Ottawa County Previous 5 Years



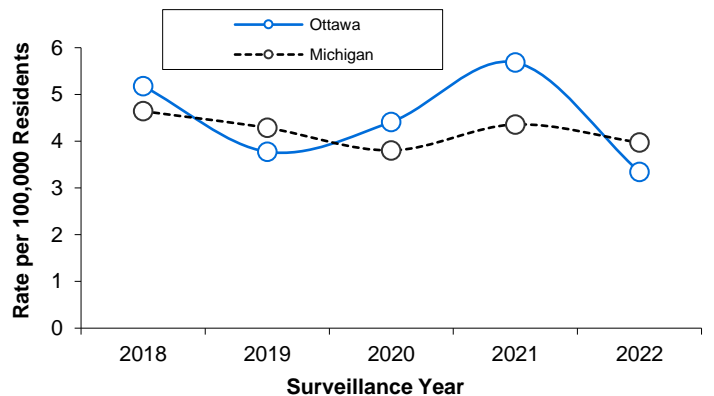
Giardiasis Cases in Ottawa County by Month Previous 5 Years



Giardiasis Cases in Ottawa County by Quarter, Previous 5 Years

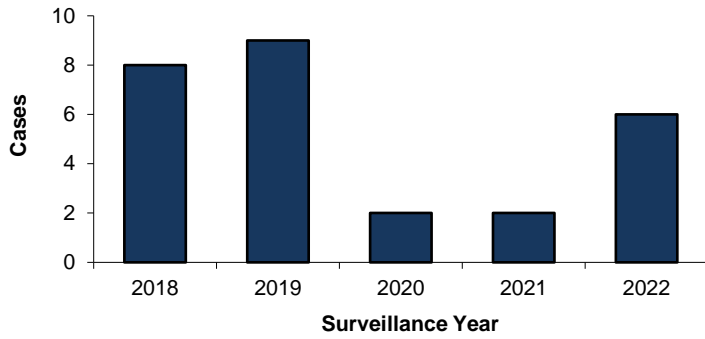


Giardiasis Cases per 100,000

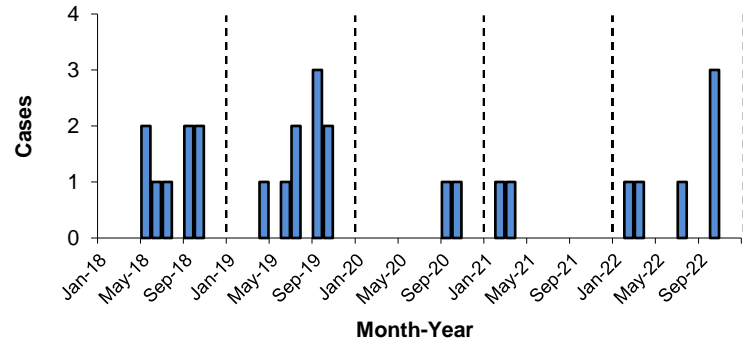


Meningitis:

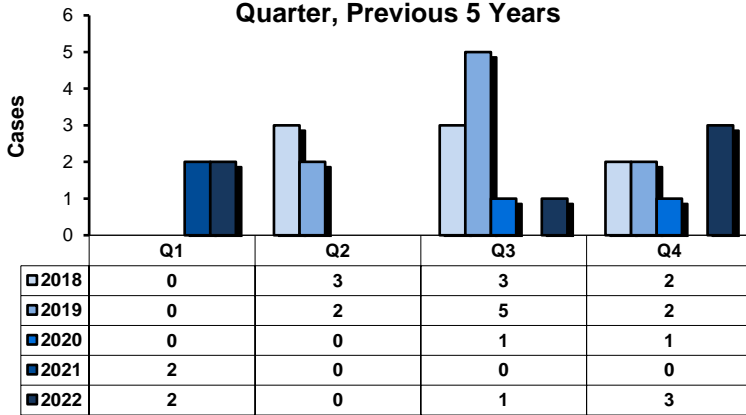
Aseptic Meningitis Cases in Ottawa County, Previous 5 Years



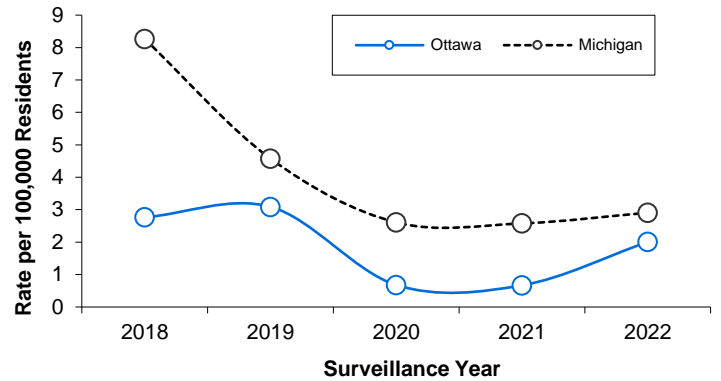
Aseptic Meningitis Cases in Ottawa County by Month, Previous 5 Years



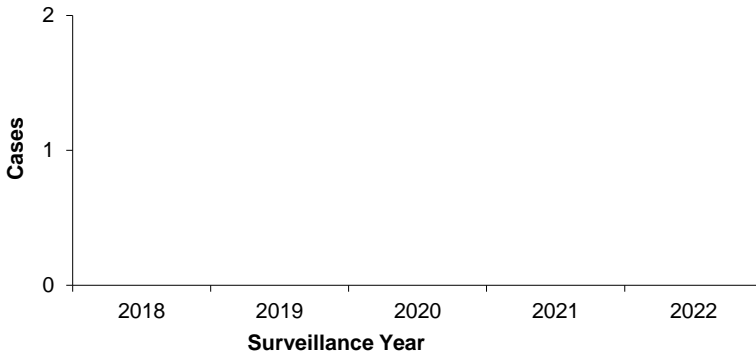
Aseptic Meningitis Cases in Ottawa County by Quarter, Previous 5 Years



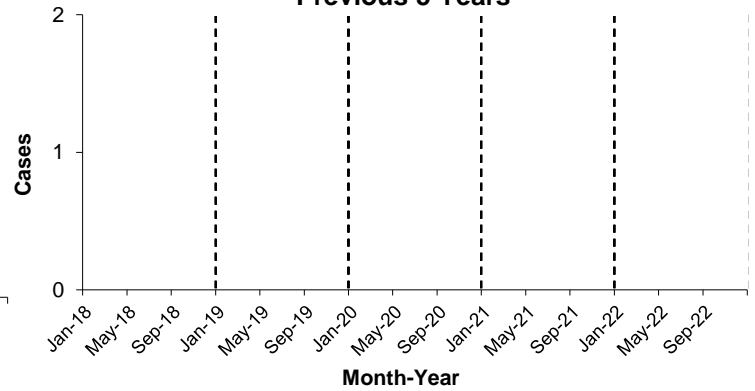
Aseptic Meningitis Cases per 100,000



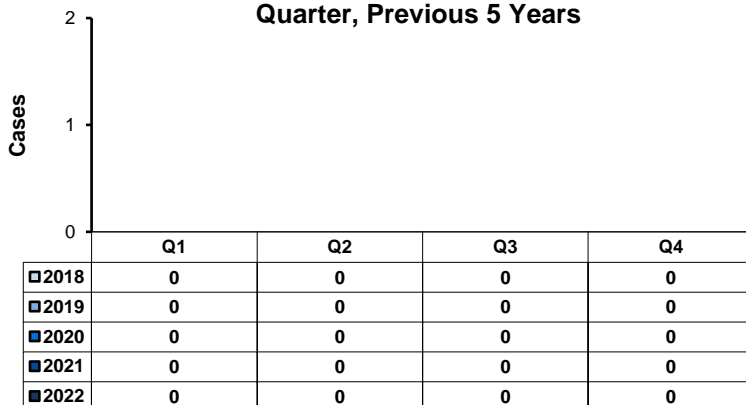
***N. meningitidis* Cases in Ottawa County Previous 5 Years**



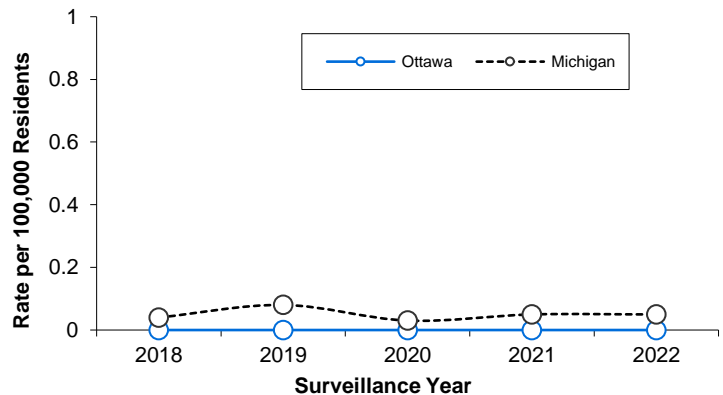
***N. meningitidis* Cases in Ottawa County by Month Previous 5 Years**



***N. meningitidis* Cases in Ottawa County by Quarter, Previous 5 Years**

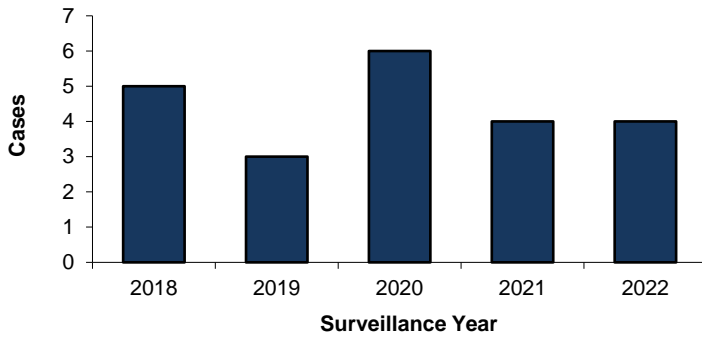


***N. meningitidis* Cases per 100,000**

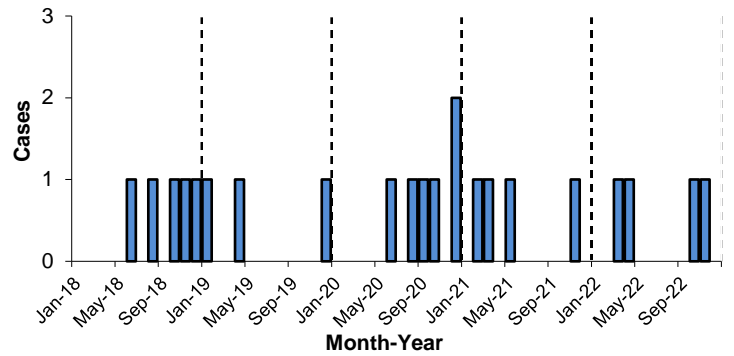


Meningitis:

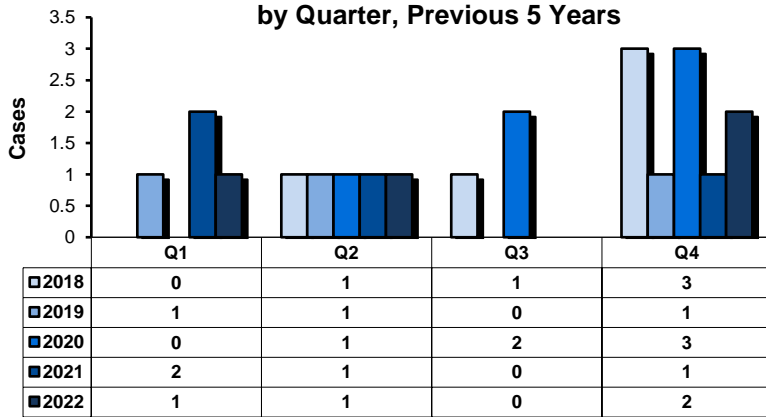
Meningitis (Other Bacterial) Cases in Ottawa County, Previous 5 Years



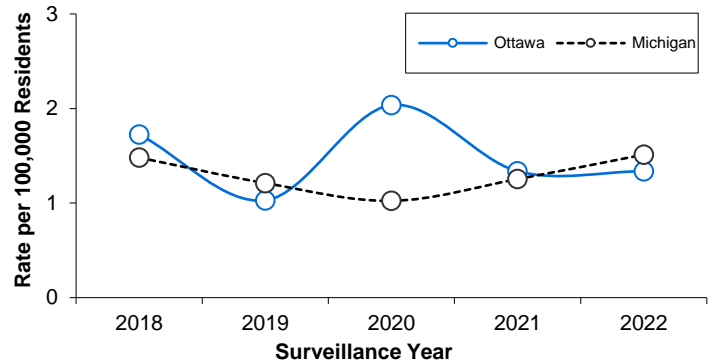
Meningitis (Other Bacterial) Cases in Ottawa County by Month, Previous 5 Years



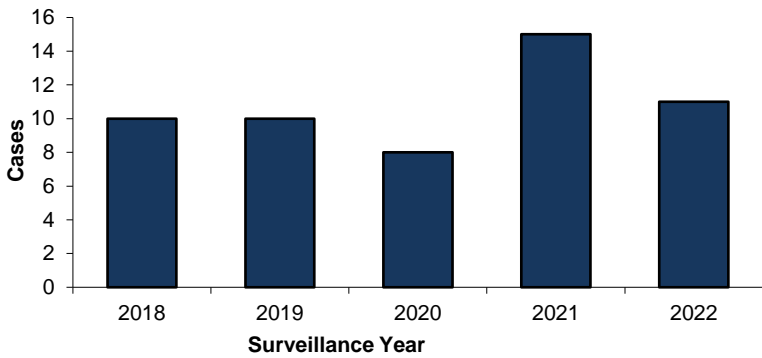
Meningitis (Other Bacterial) Cases in Ottawa County by Quarter, Previous 5 Years



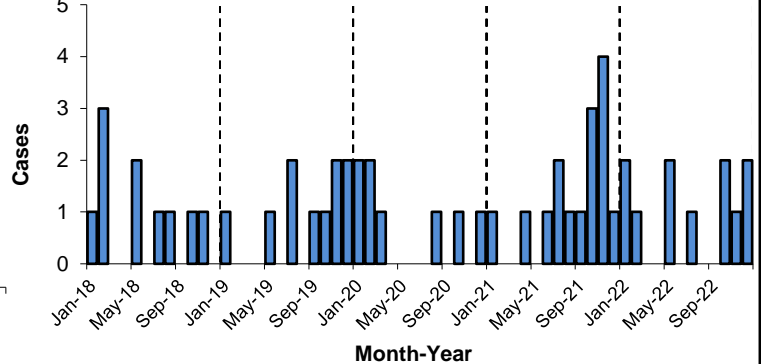
Meningitis (Other Bacterial) Cases per 100,000



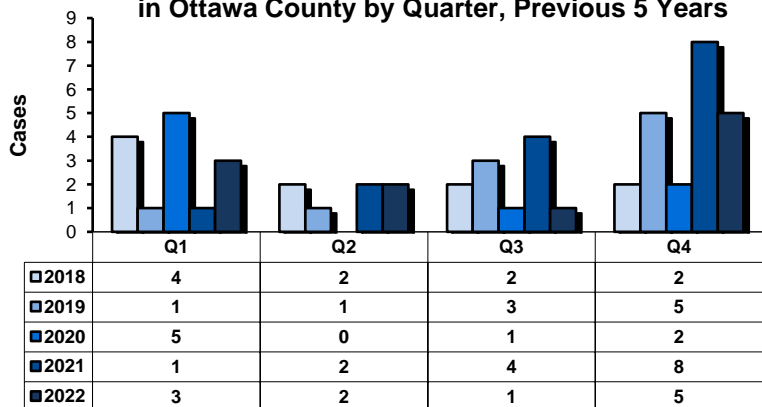
Invasive *Streptococcus pneumoniae* Cases in Ottawa County, Previous 5 Years



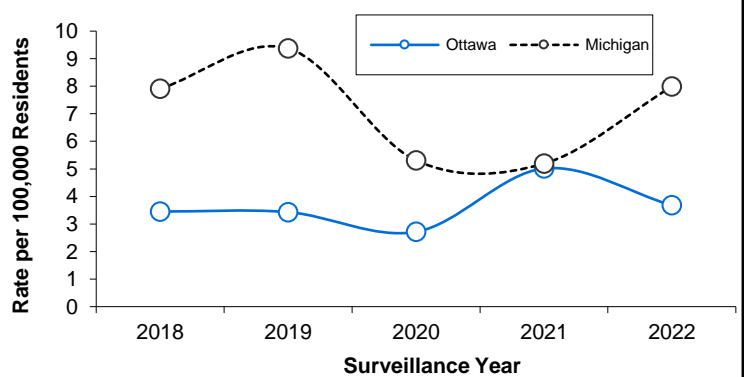
Invasive *Streptococcus pneumoniae* Cases in Ottawa County by Month, Previous 5 Years



Invasive *Streptococcus pneumoniae* Cases in Ottawa County by Quarter, Previous 5 Years

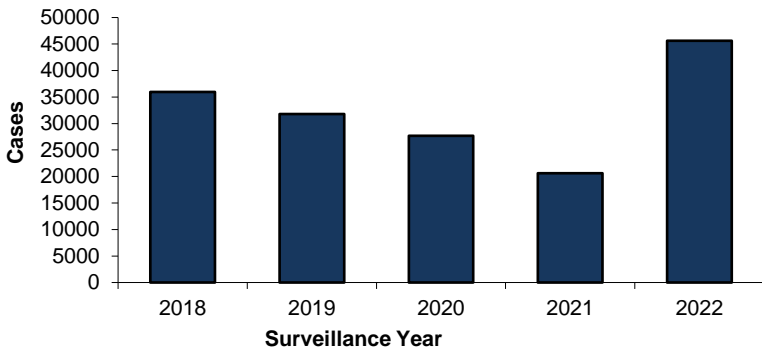


Invasive *Streptococcus pneumoniae* Cases per 100,000

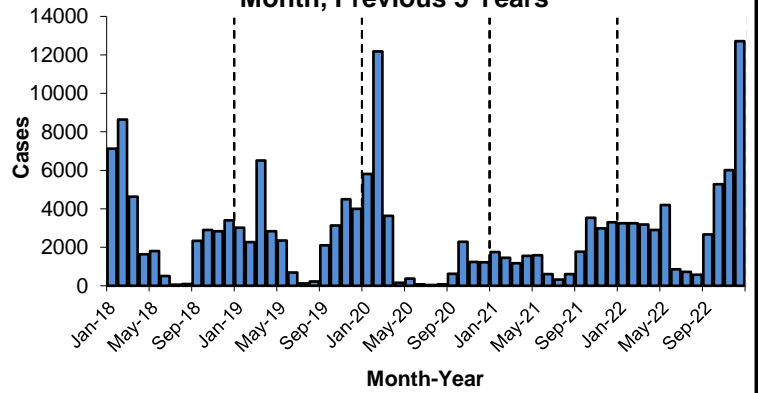


Influenza and COVID-19:

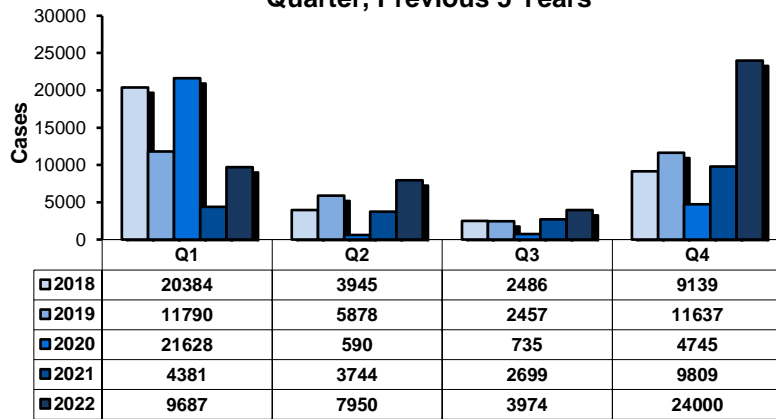
Flu-Like Disease Cases in Ottawa County Previous 5 Years



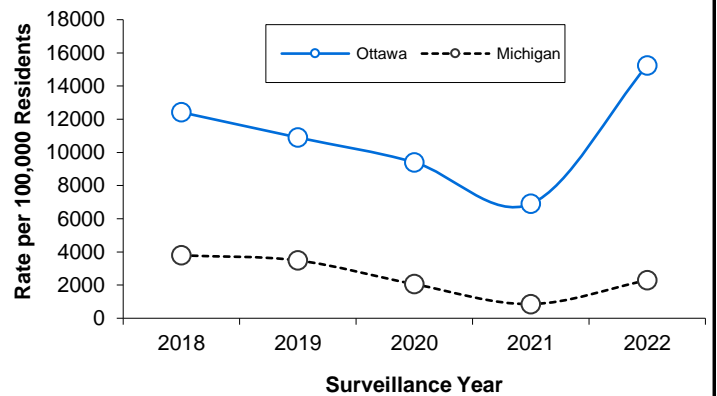
Flu-Like Disease Cases in Ottawa County by Month, Previous 5 Years



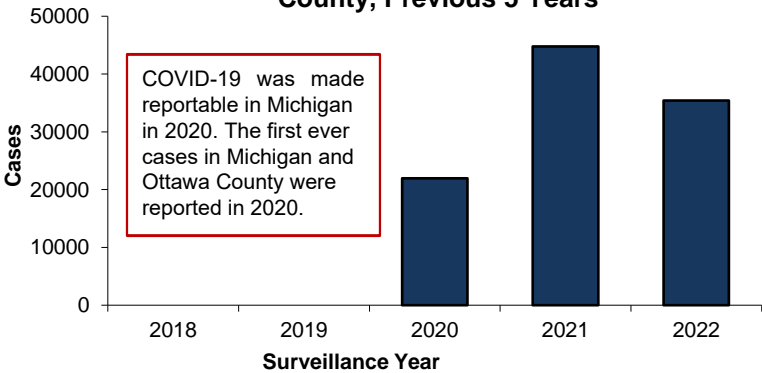
Flu-Like Disease Cases in Ottawa County by Quarter, Previous 5 Years



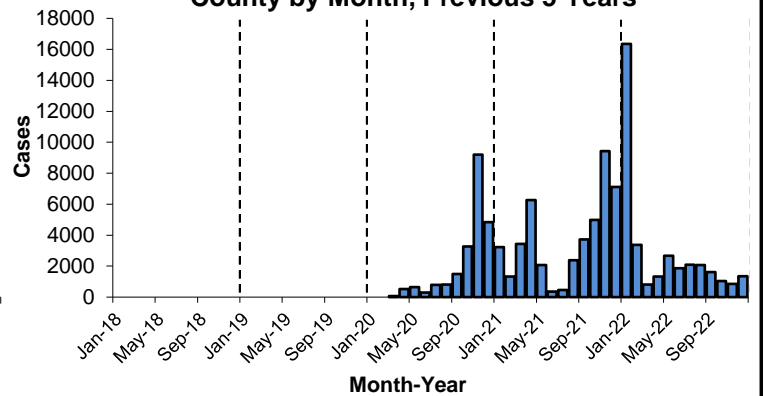
Flu-Like Disease Cases per 100,000



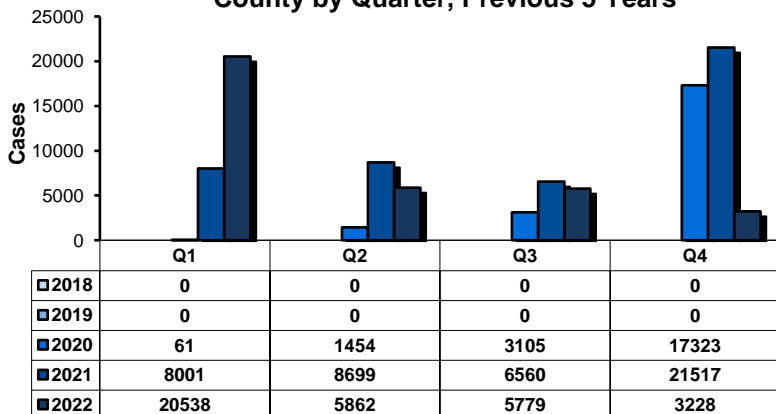
Novel Coronavirus (COVID-19) Cases in Ottawa County, Previous 5 Years



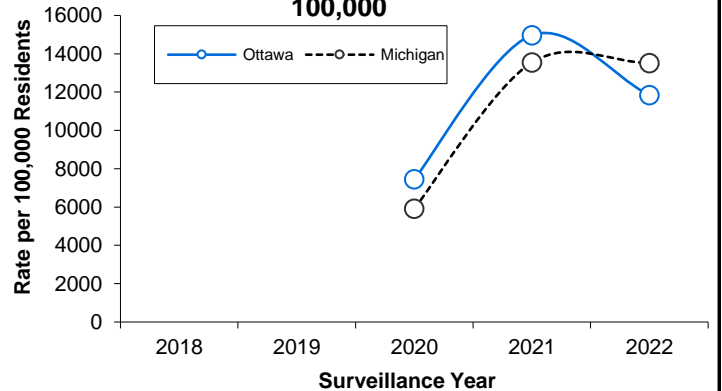
Novel Coronavirus (COVID-19) Cases in Ottawa County by Month, Previous 5 Years



Novel Coronavirus (COVID-19) Cases in Ottawa County by Quarter, Previous 5 Years

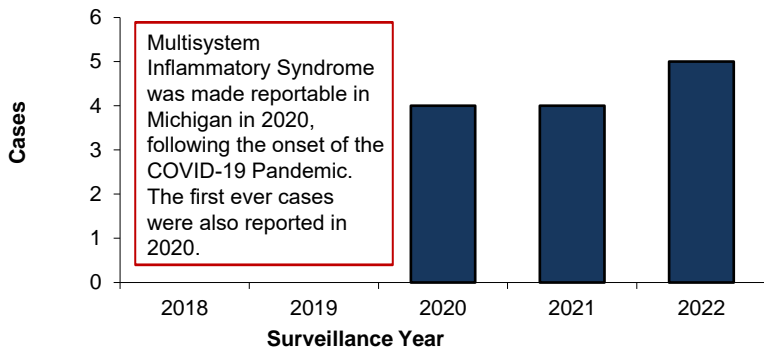


Novel Coronavirus (COVID-19) Cases per 100,000

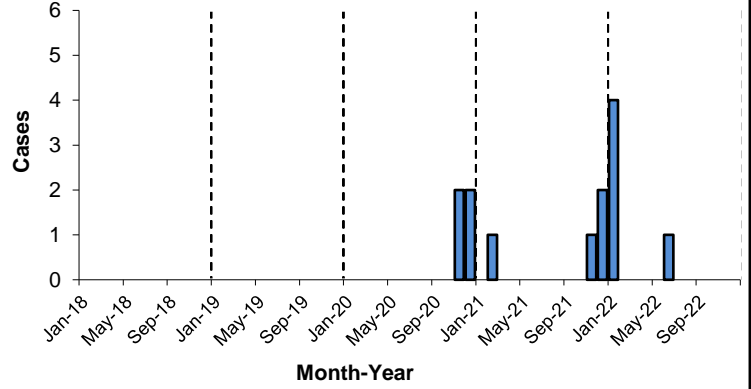


Multisystem Inflammatory Syndrome:

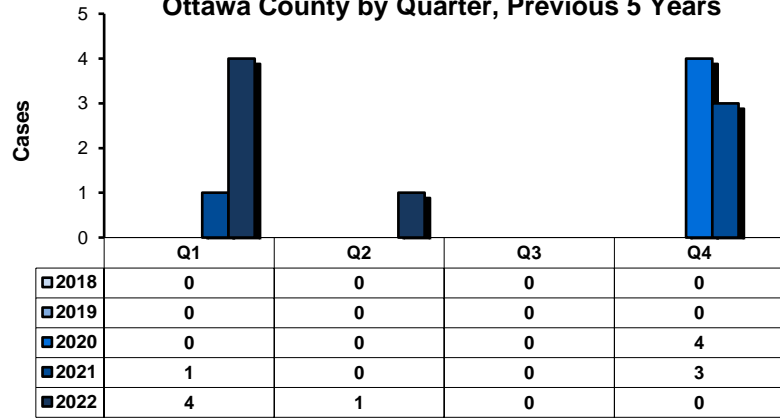
Multisystem Inflammatory Syndrome Cases in Ottawa County Previous 5 Years



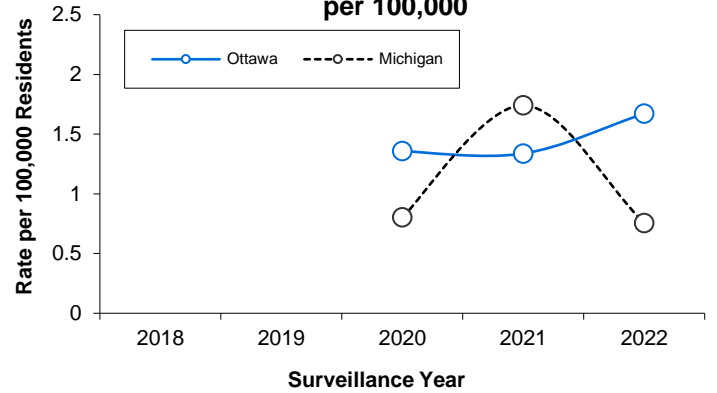
Multisystem Inflammatory Syndrome Cases in Ottawa County by Month, Previous 5 Years



Multisystem Inflammatory Syndrome Cases in Ottawa County by Quarter, Previous 5 Years

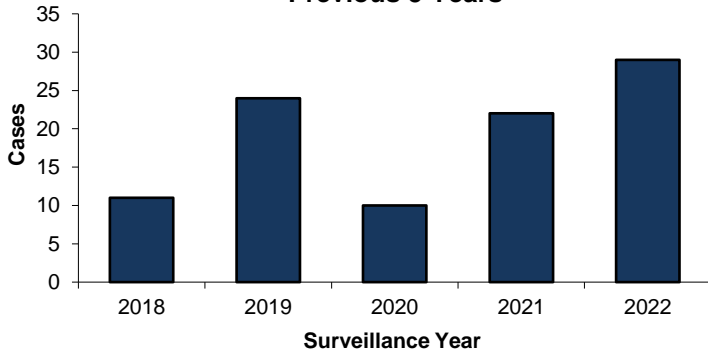


Multisystem Inflammatory Syndrome Cases per 100,000

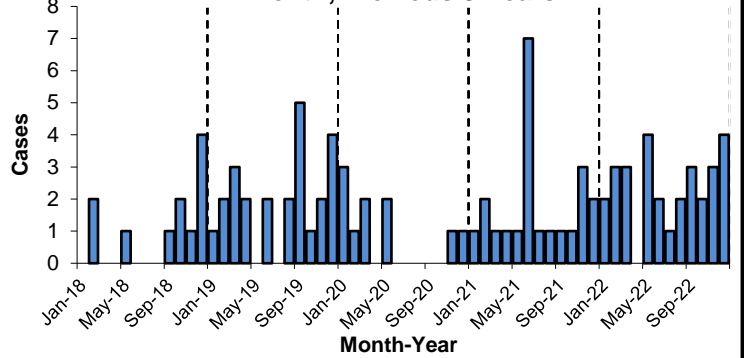


Other Illnesses:

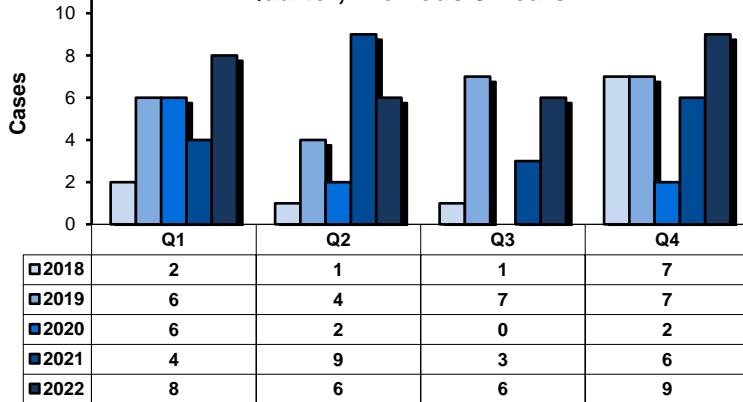
Histoplasmosis Cases in Ottawa County Previous 5 Years



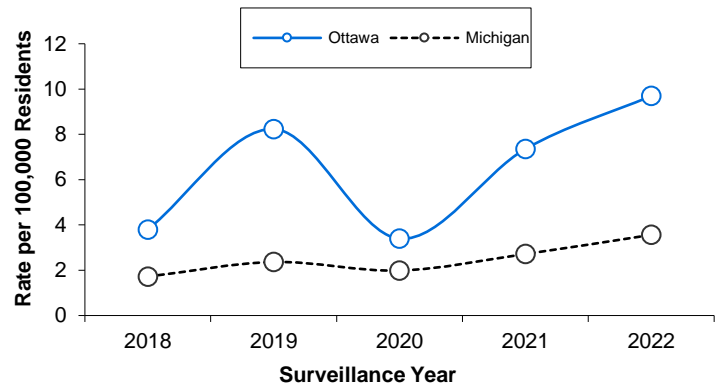
Histoplasmosis Cases in Ottawa County by Month, Previous 5 Years



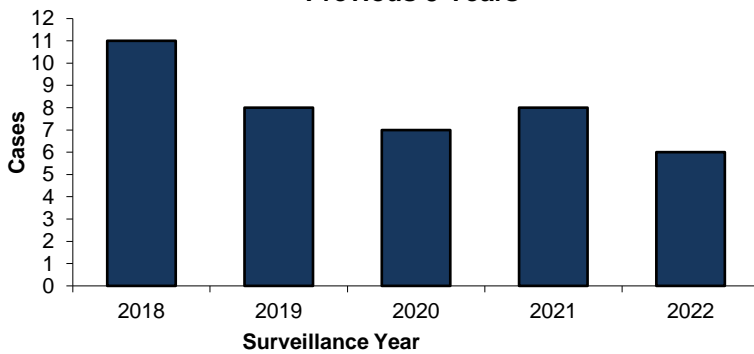
Histoplasmosis Cases in Ottawa County by Quarter, Previous 5 Years



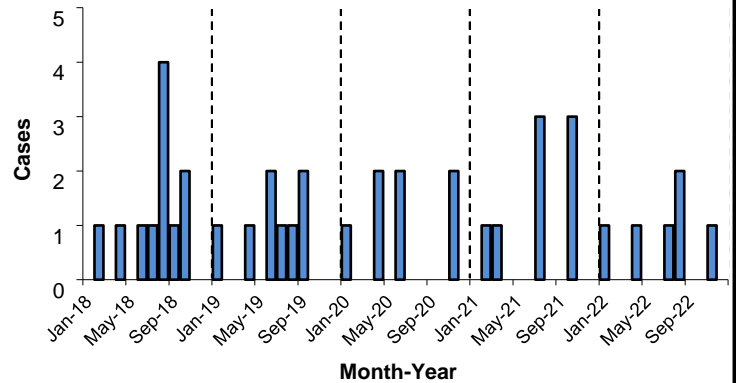
Histoplasmosis Cases per 100,000



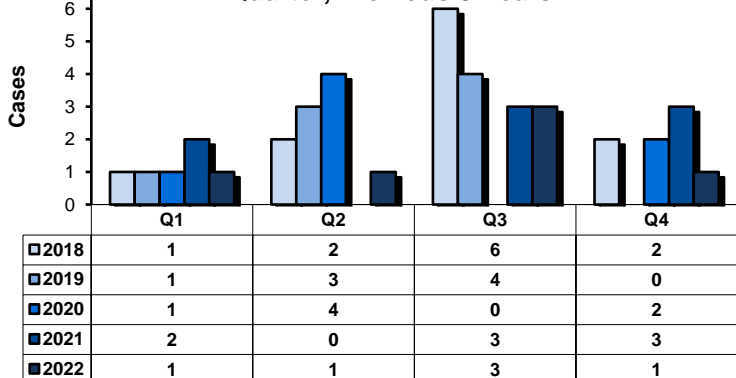
Legionellosis Cases in Ottawa County Previous 5 Years



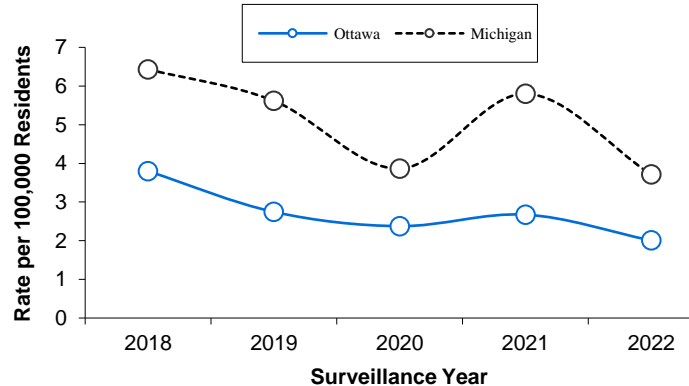
Legionellosis Cases in Ottawa County by Month Previous 5 Years



Legionellosis Cases in Ottawa County by Quarter, Previous 5 Years

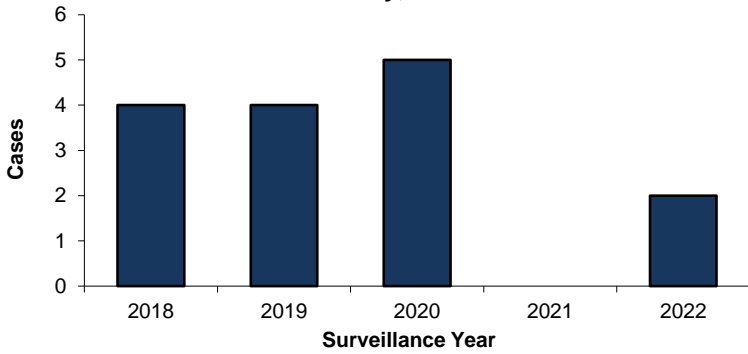


Legionellosis Cases per 100,000

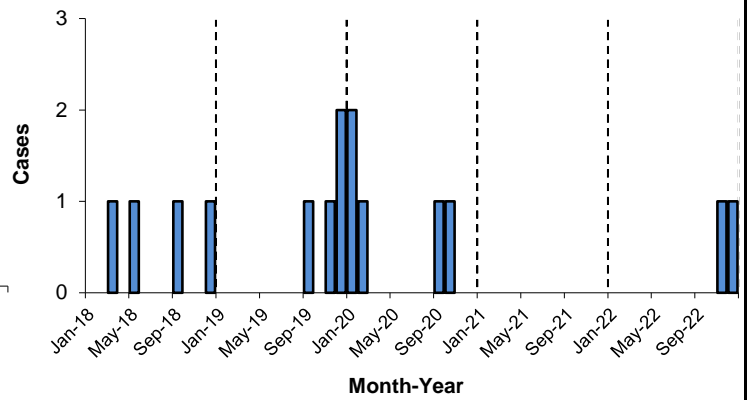


Other Illnesses:

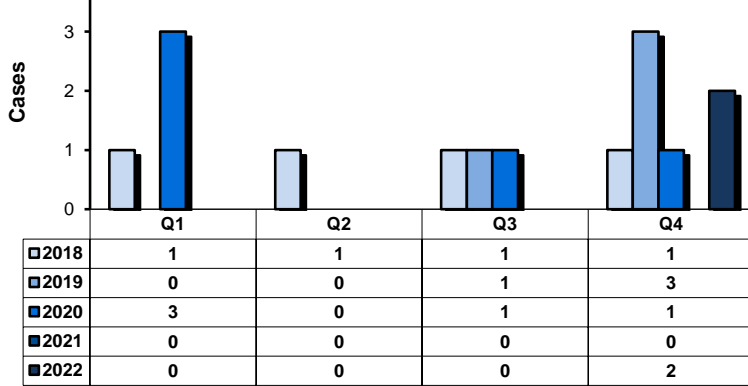
Drug Resistant *Streptococcus pneumoniae* Cases in Ottawa County, Previous 5 Years



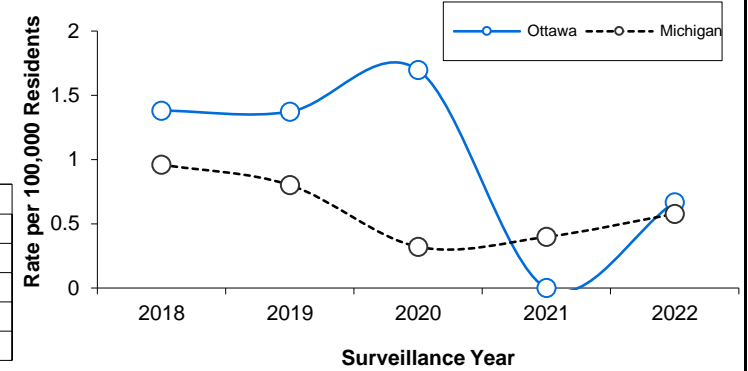
Drug Resistant *Streptococcus pneumoniae* Cases in Ottawa County by Month, Previous 5 Years



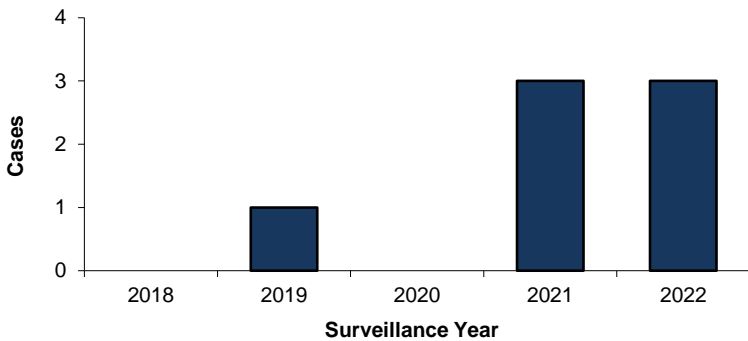
Drug Resistant *Streptococcus pneumoniae* Cases in Ottawa County by Quarter, Previous 5 Years



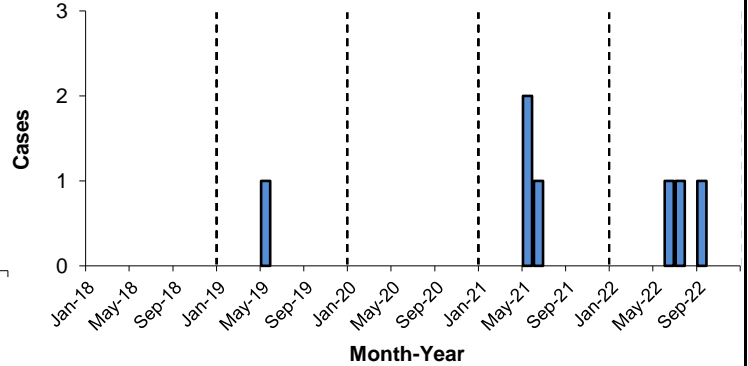
Drug Resistant *Streptococcus pneumoniae* Cases per 100,000



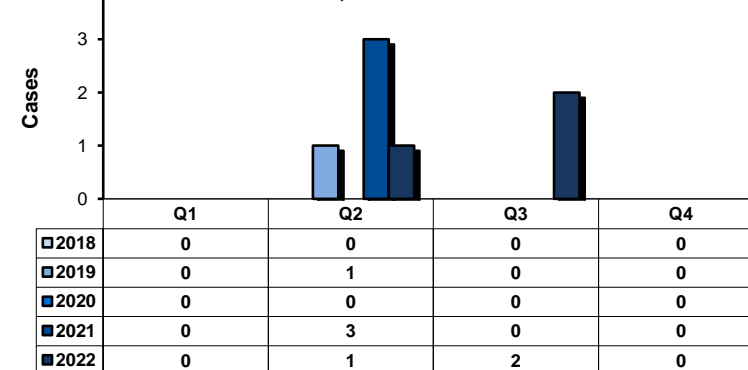
Animal Rabies Cases in Ottawa County, Previous 5 Years



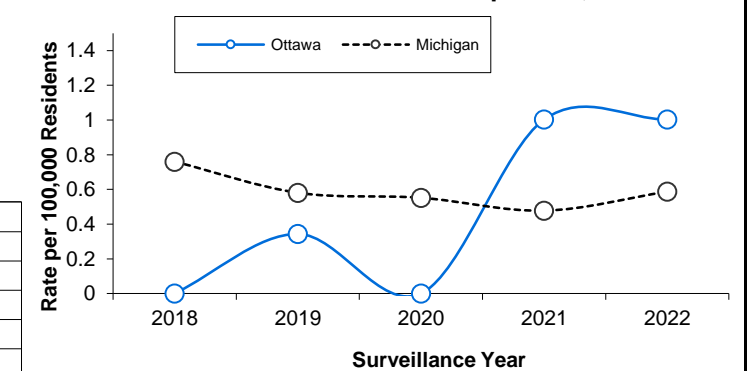
Animal Rabies Cases in Ottawa County by Month, Previous 5 Years



Animal Rabies Cases in Ottawa County by Quarter, Previous 5 Years

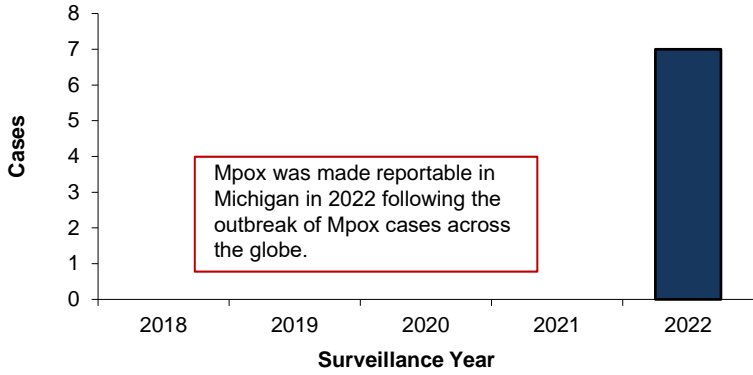


Animal Rabies Cases per 100,000

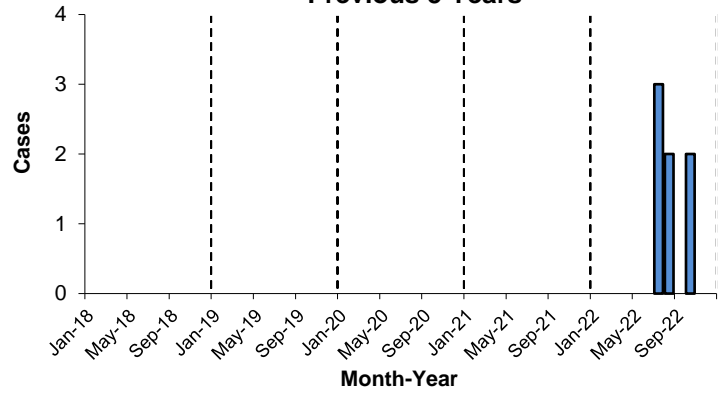


Mpox (formerly, Monkeypox):

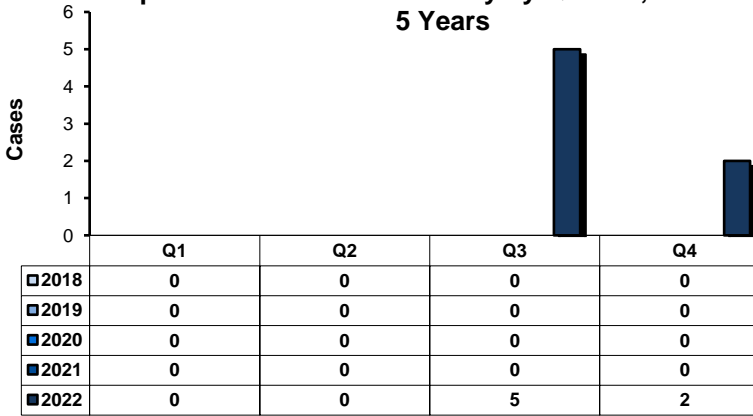
Mpox Cases in Ottawa County, Previous 5 Years



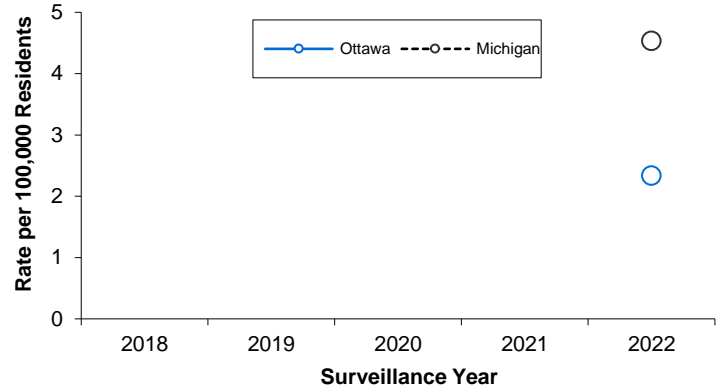
Mpox Cases in Ottawa County by Month, Previous 5 Years



Mpox Cases in Ottawa County by Quarter, Previous 5 Years

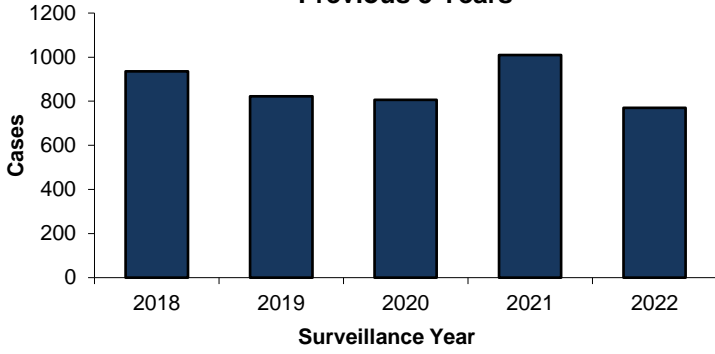


Mpox Cases per 100,000

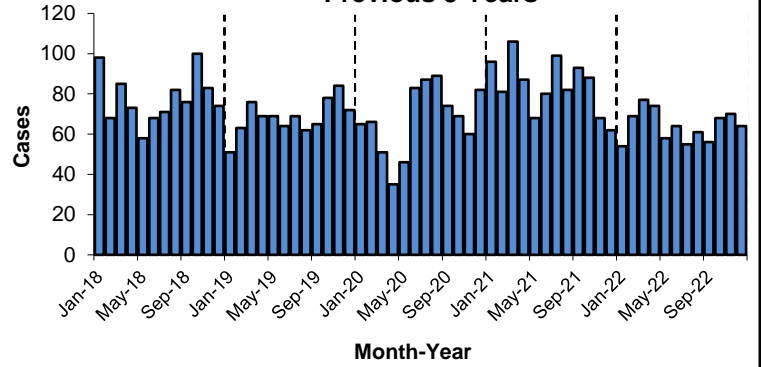


Sexually Transmitted Diseases:

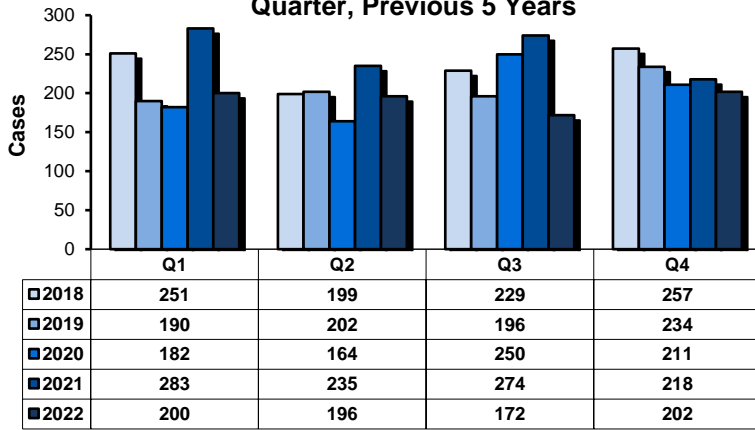
Chlamydia Cases in Ottawa County Previous 5 Years



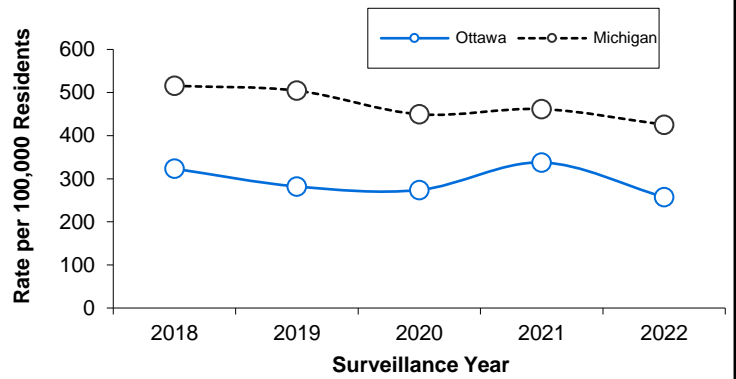
Chlamydia Cases in Ottawa County by Month, Previous 5 Years



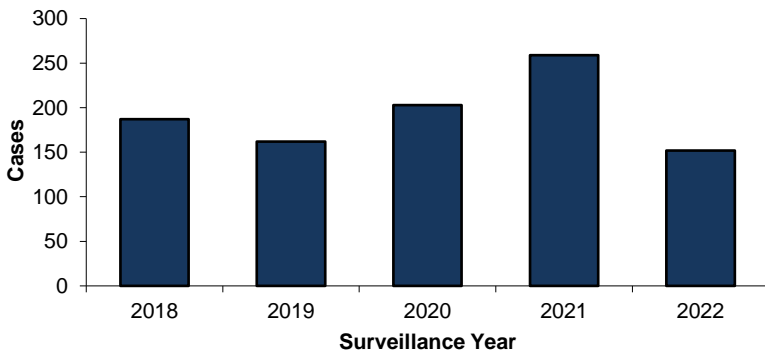
Chlamydia Cases in Ottawa County by Quarter, Previous 5 Years



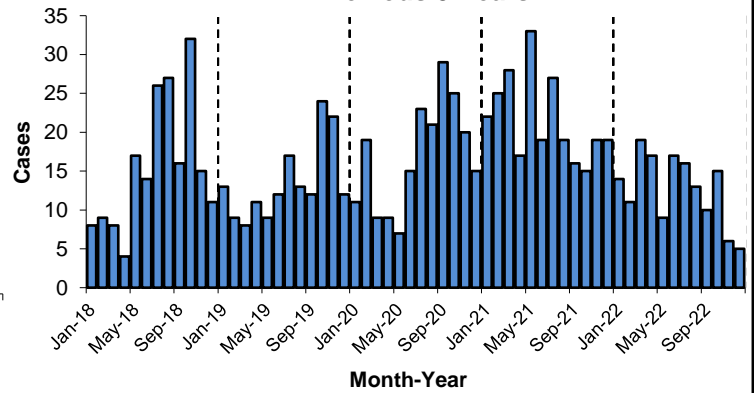
Chlamydia Cases per 100,000



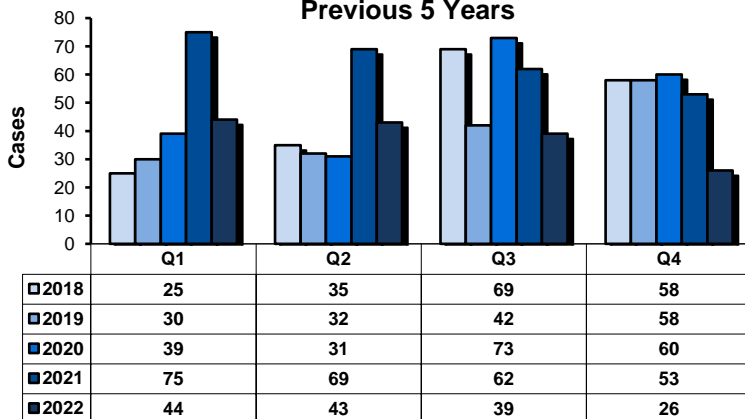
Gonorrhea Cases in Ottawa County Previous 5 Years



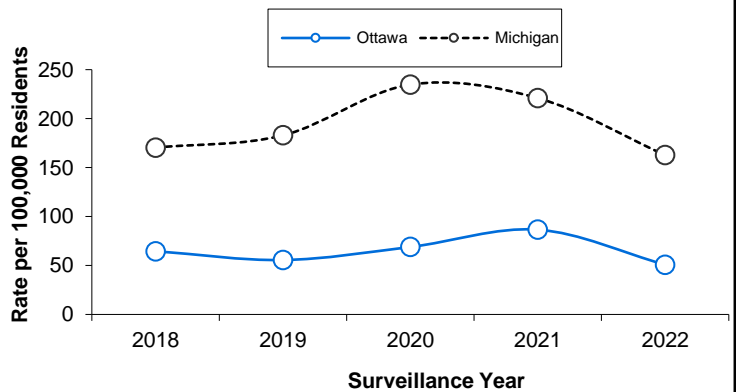
Gonorrhea Cases in Ottawa County by Month, Previous 5 Years



Gonorrhea Cases in Ottawa County by Quarter, Previous 5 Years

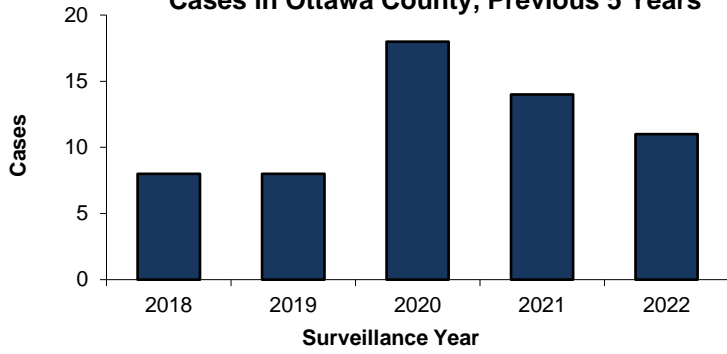


Gonorrhea Cases per 100,000

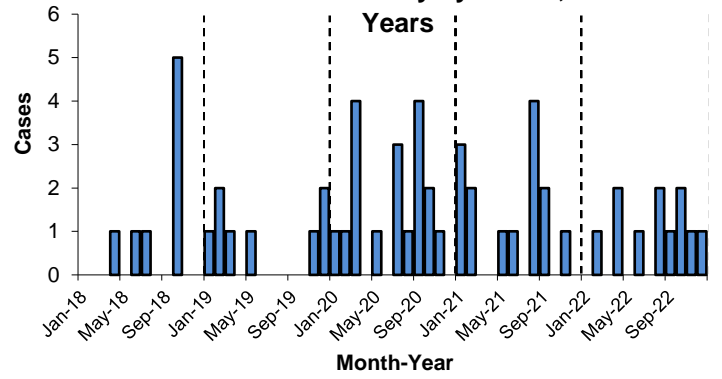


Sexually Transmitted Diseases:

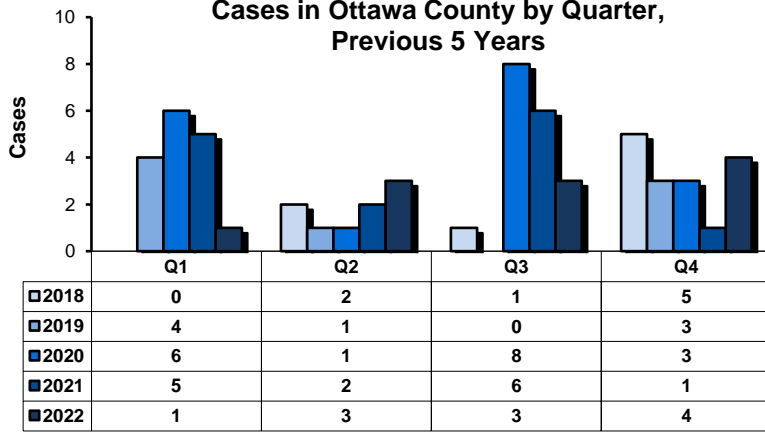
Primary, Secondary & Early Latent Syphilis Cases in Ottawa County, Previous 5 Years



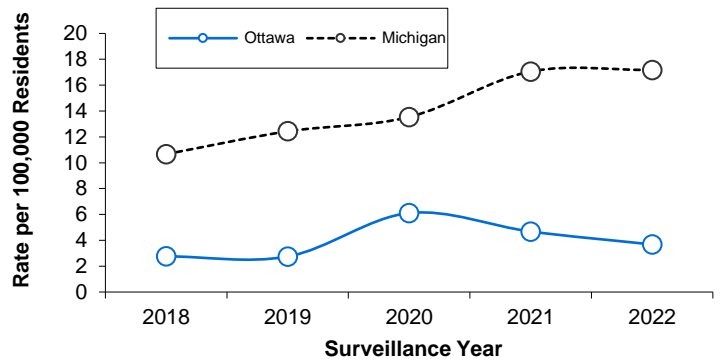
Primary, Secondary & Early Latent Syphilis Cases in Ottawa County by Month, Previous 5 Years



Primary, Secondary & Early Latent Syphilis Cases in Ottawa County by Quarter, Previous 5 Years

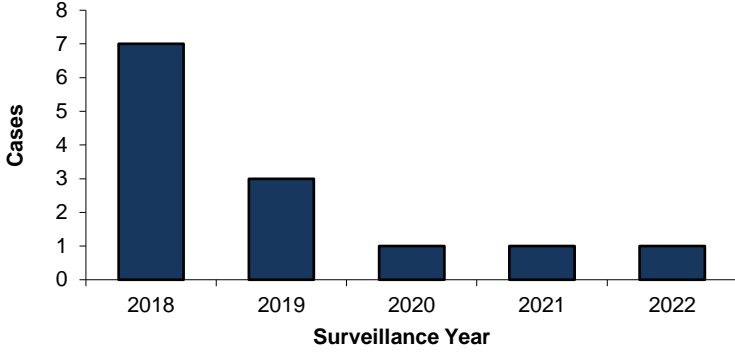


Primary, Secondary & Early Latent Syphilis Cases per 100,000

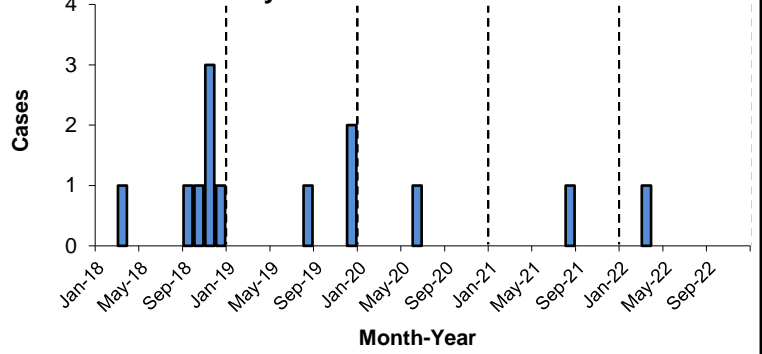


Tuberculosis:

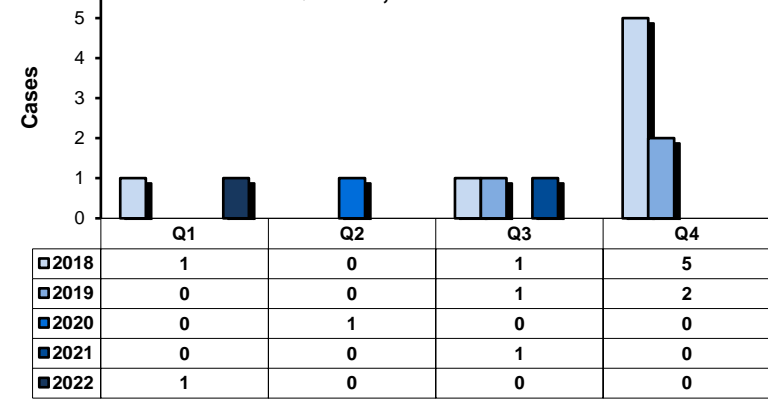
Tuberculosis Disease Cases in Ottawa County Previous 5 Years



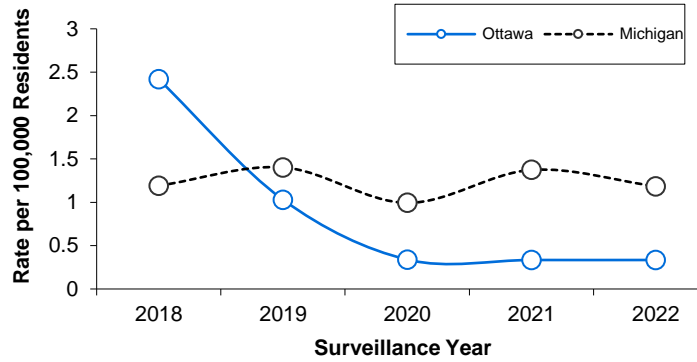
Tuberculosis Disease Cases in Ottawa County by Month Previous 5 Years



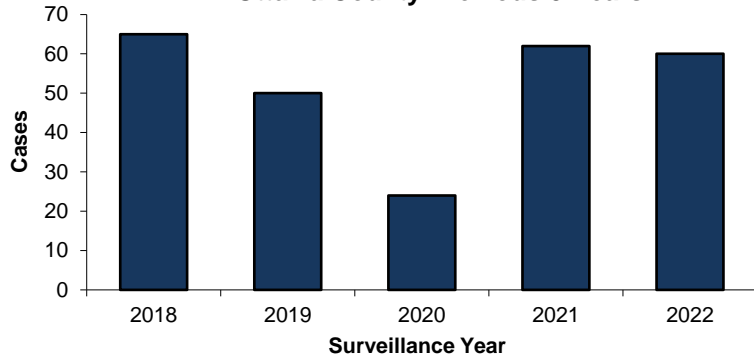
Tuberculosis Disease Cases in Ottawa County by Quarter, Previous 5 Years



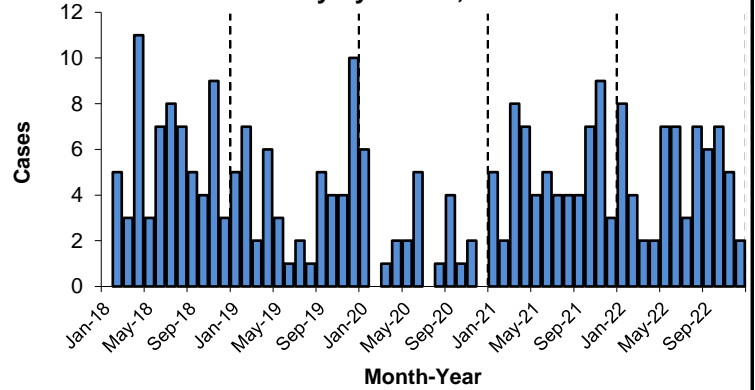
Tuberculosis Disease Cases per 100,000



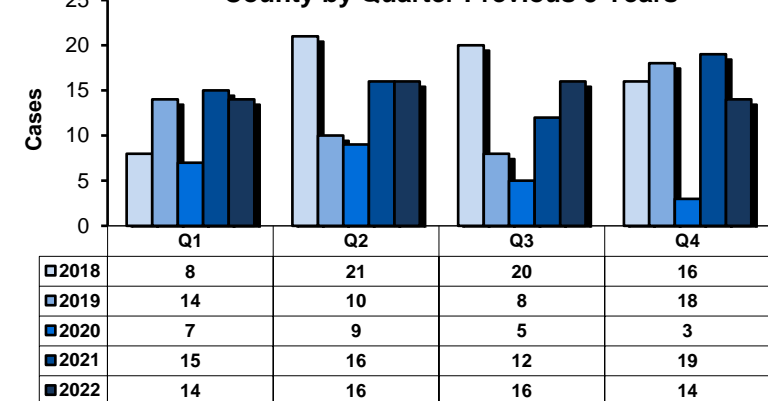
Latent Tuberculosis Infection Cases in Ottawa County Previous 5 Years



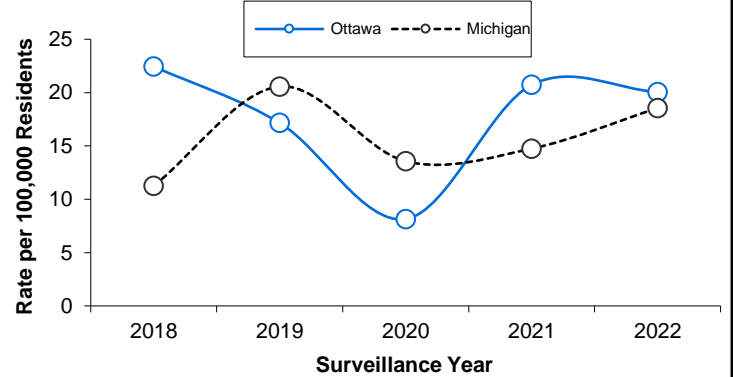
Latent Tuberculosis Infection Cases in Ottawa County by Month, Previous 5 Years



Latent Tuberculosis Infection Cases in Ottawa County by Quarter Previous 5 Years

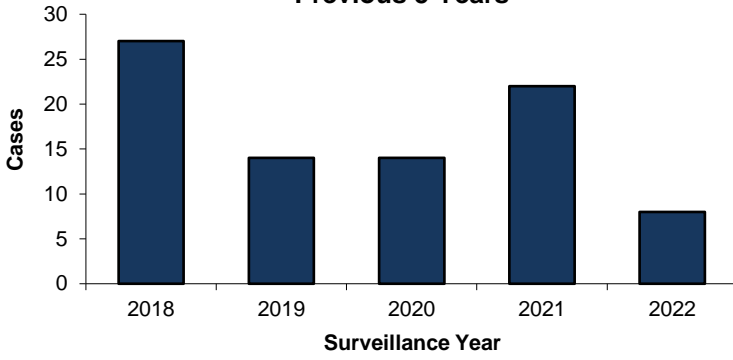


Latent Tuberculosis Infection Cases per 100,000

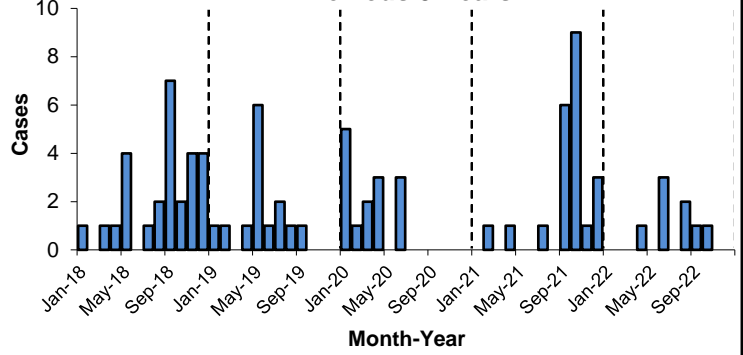


Vaccine Preventable Diseases:

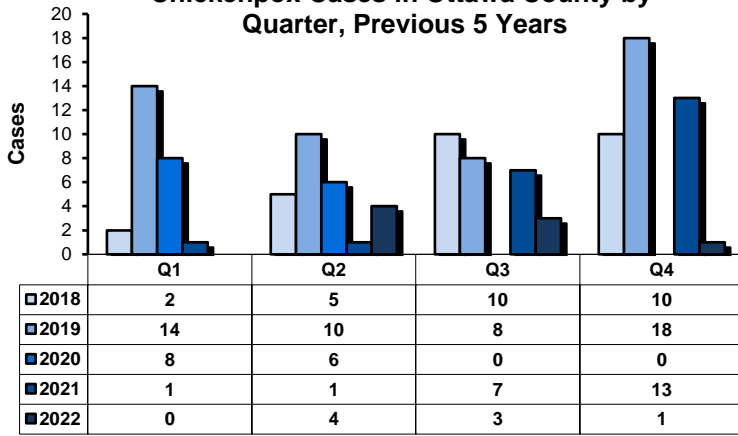
Chickenpox Cases in Ottawa County Previous 5 Years



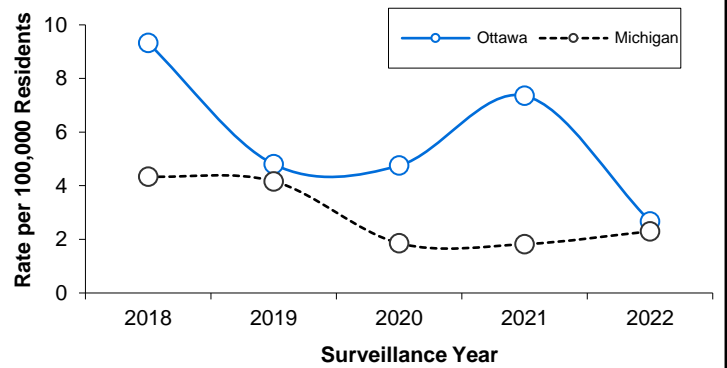
Chickenpox Cases in Ottawa County by Month Previous 5 Years



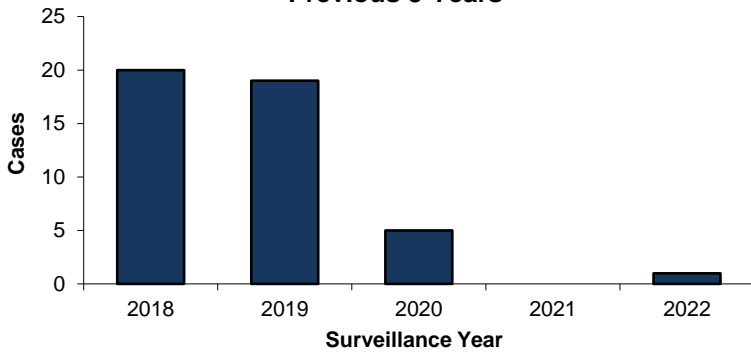
Chickenpox Cases in Ottawa County by Quarter, Previous 5 Years



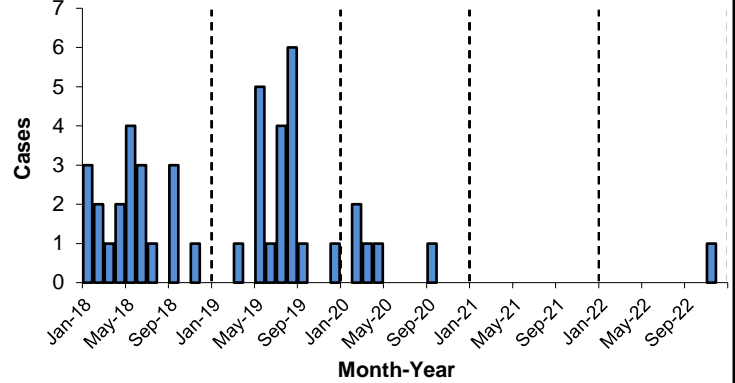
Chickenpox Cases per 100,000



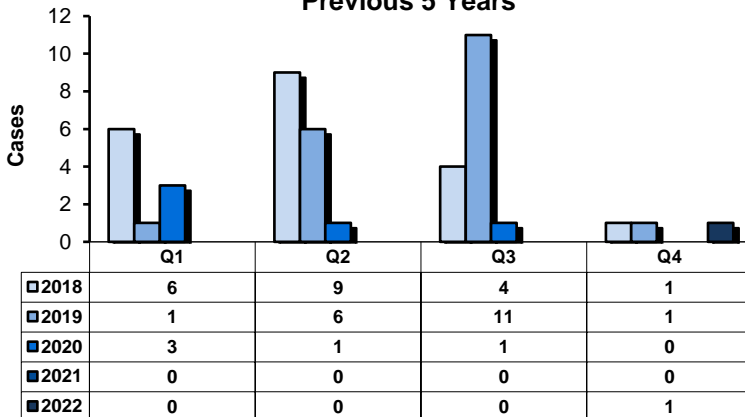
Pertussis Cases in Ottawa County Previous 5 Years



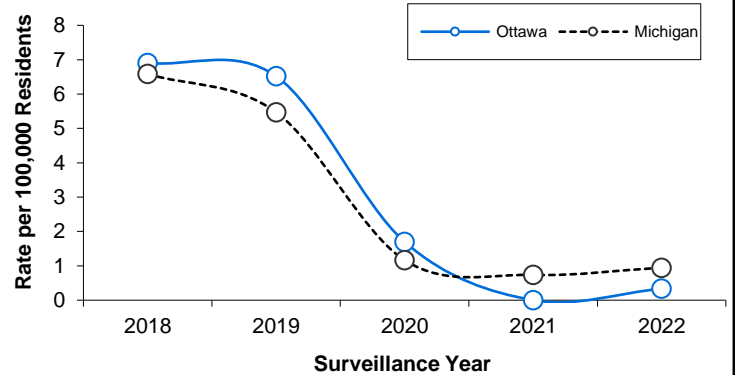
Pertussis Cases in Ottawa County by Month Previous 5 Years



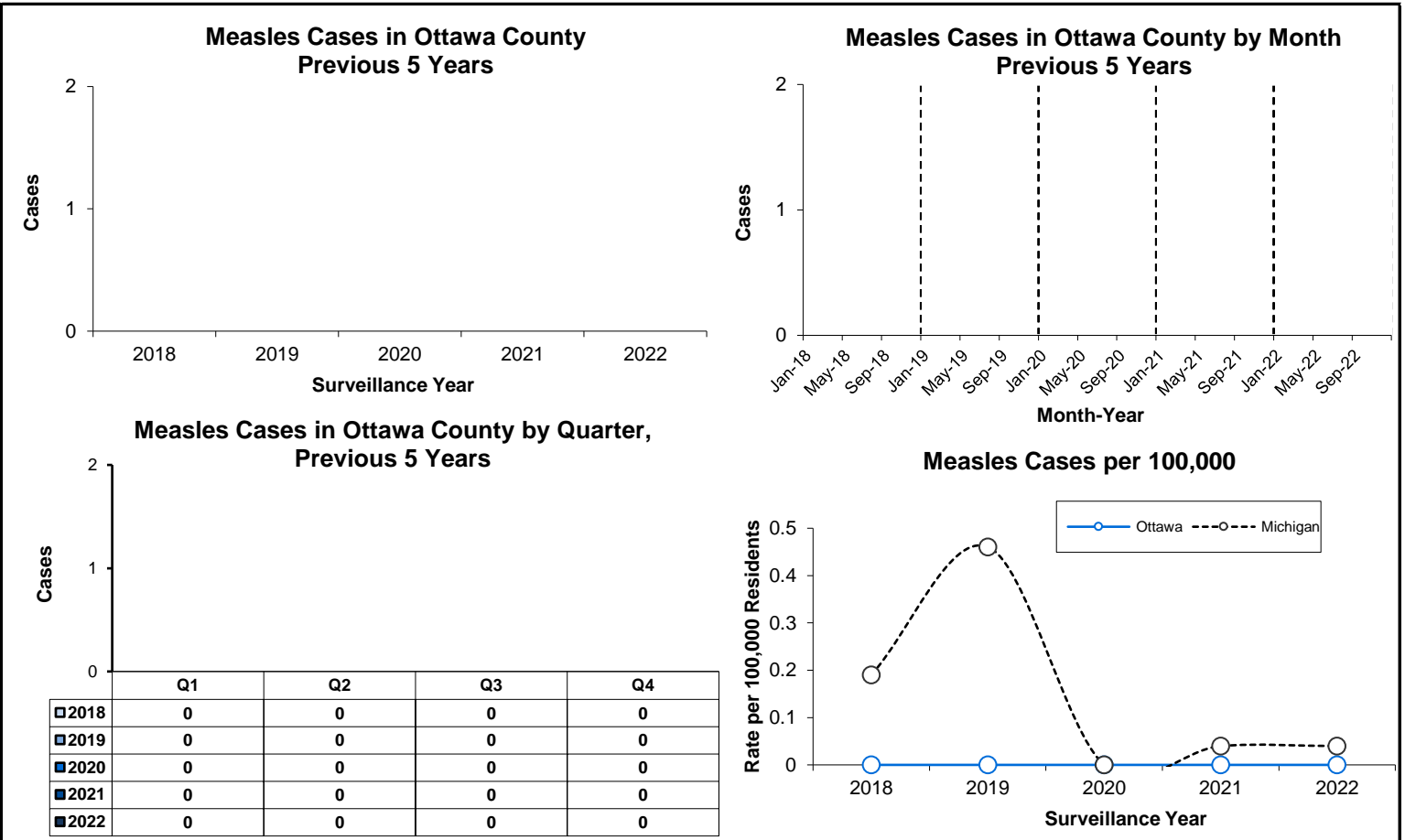
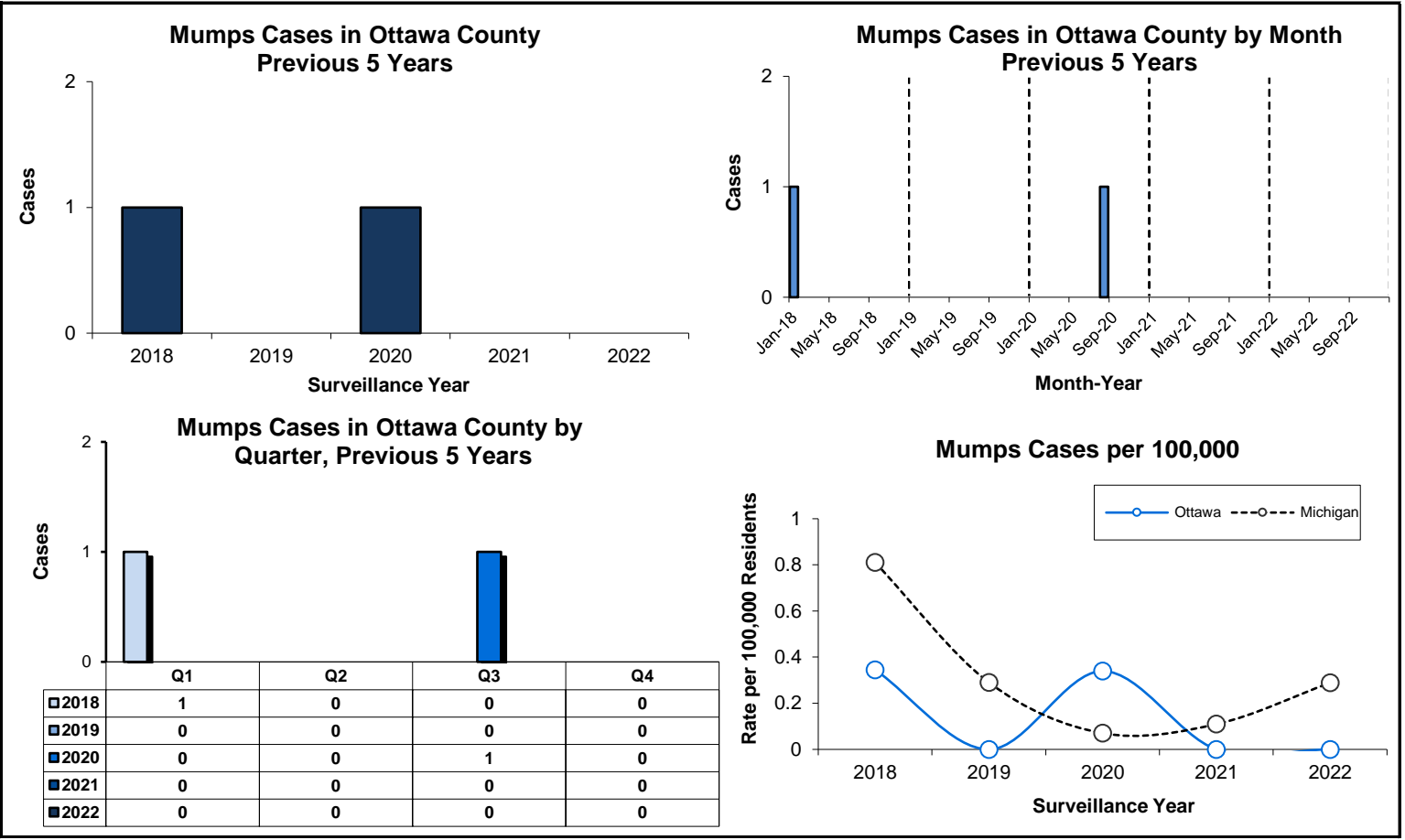
Pertussis Cases in Ottawa County by Quarter Previous 5 Years



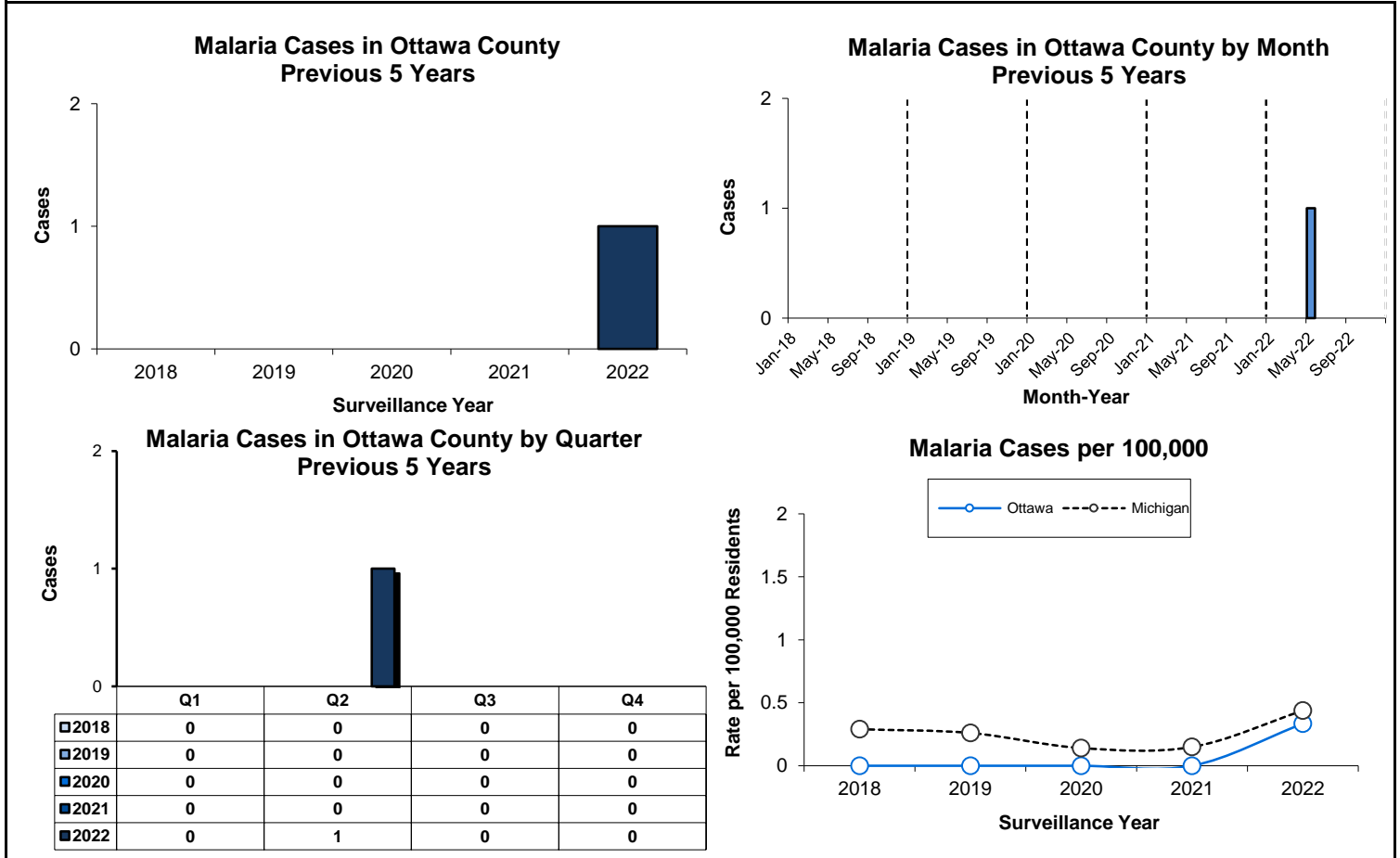
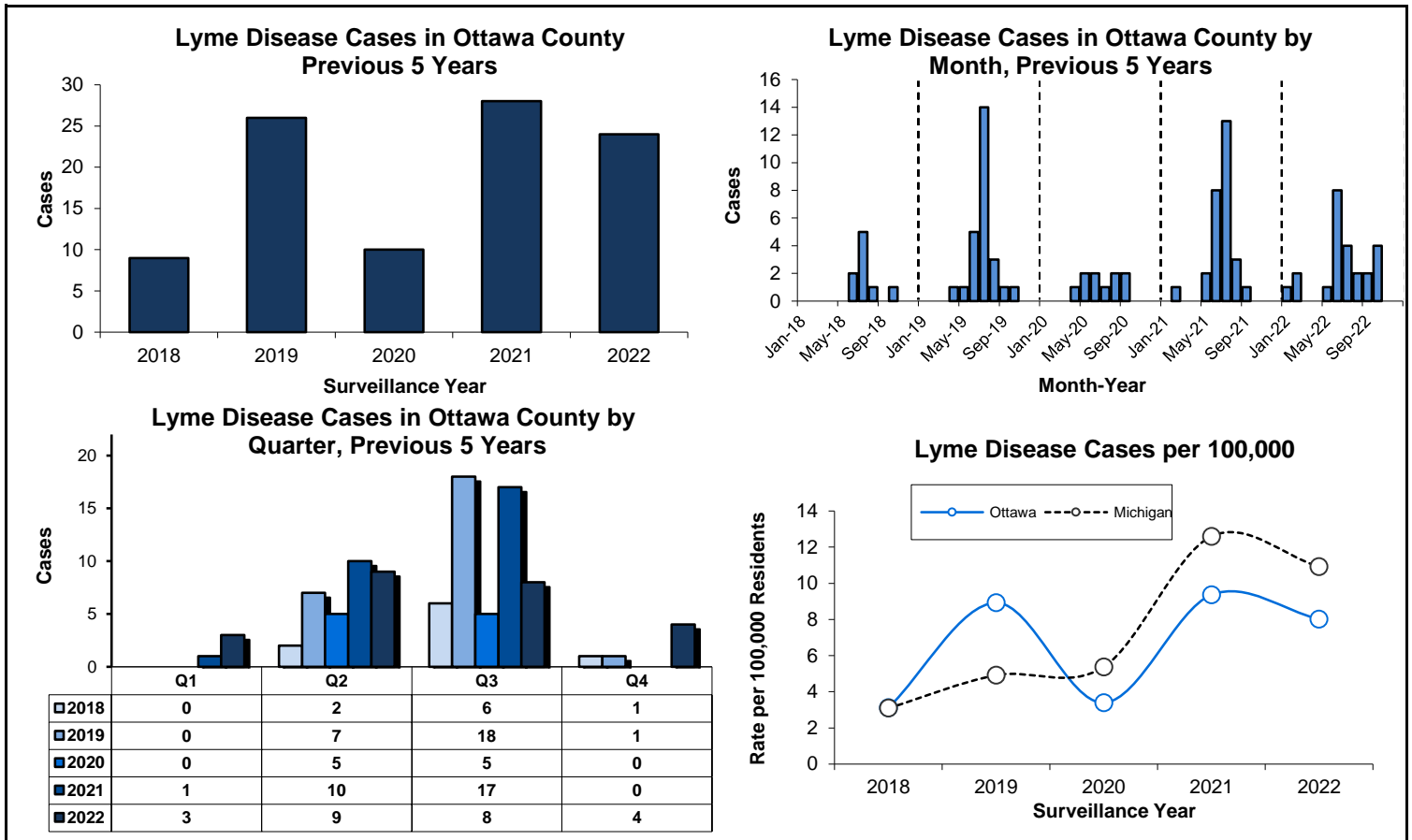
Pertussis Cases per 100,000



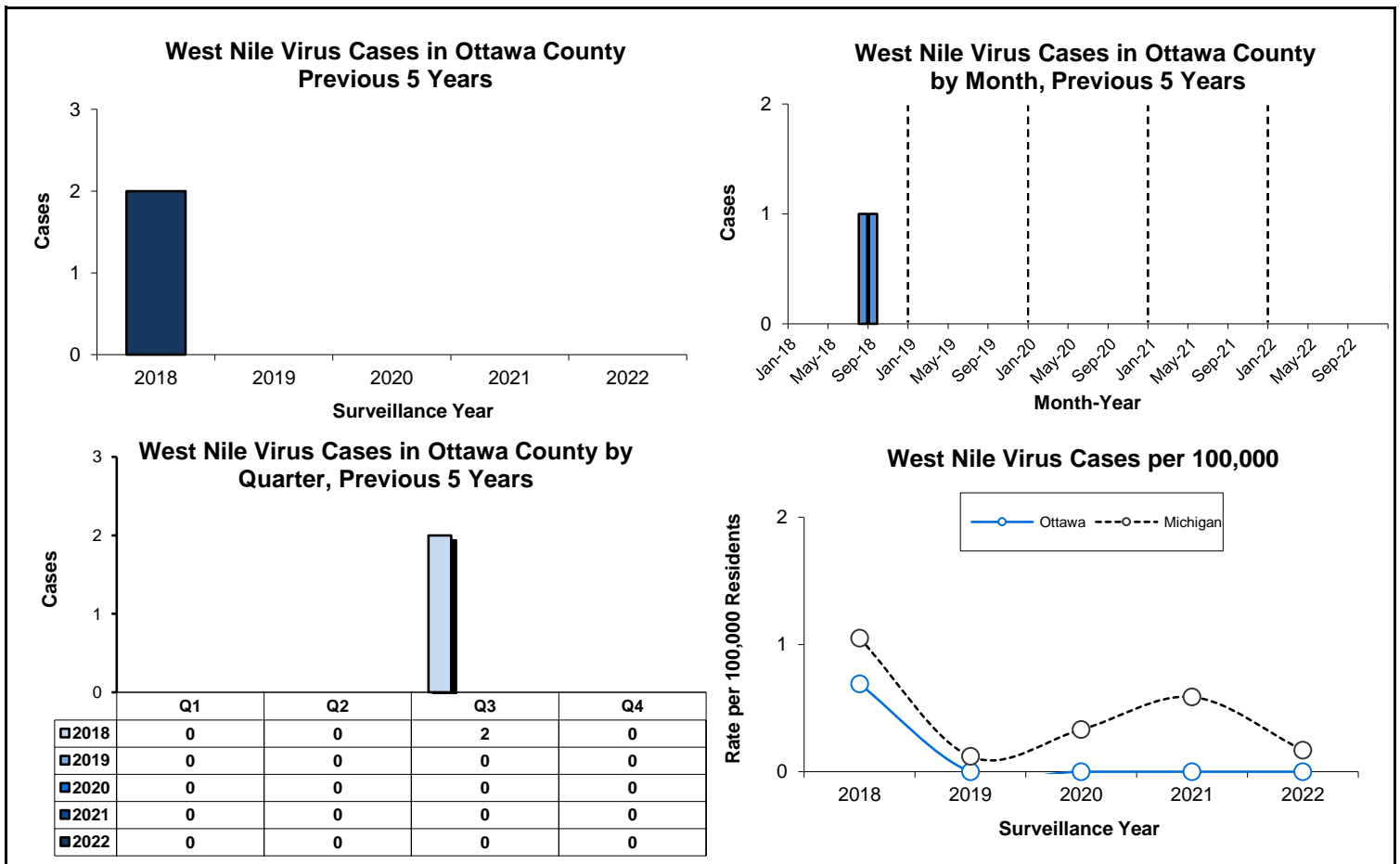
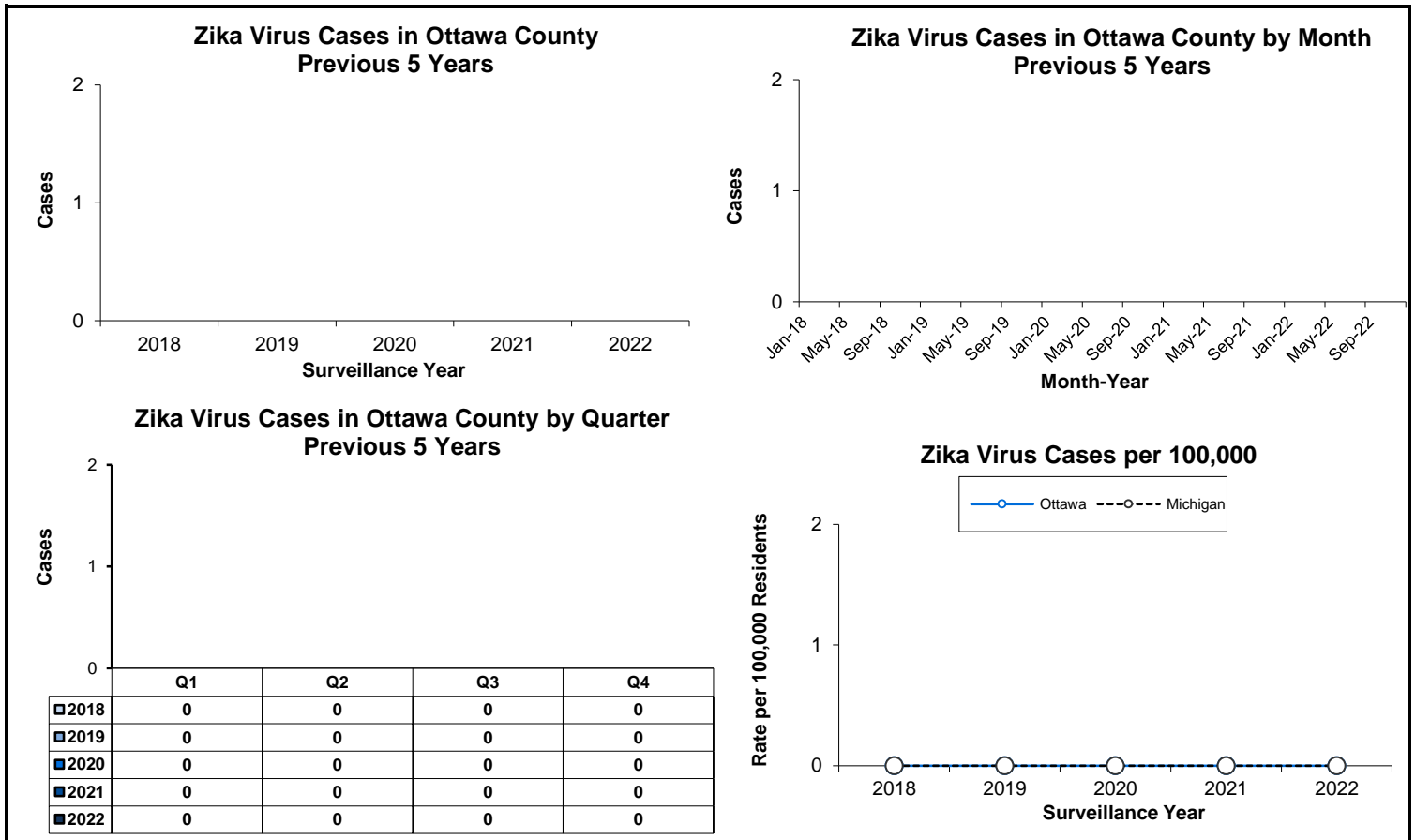
Vaccine Preventable Diseases:



Vectorborne Diseases:

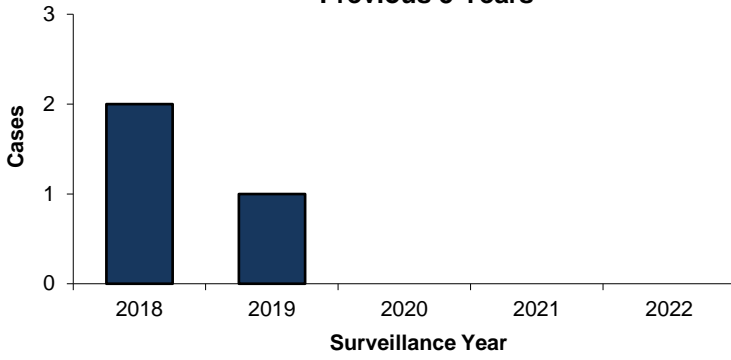


Vectorborne Diseases:

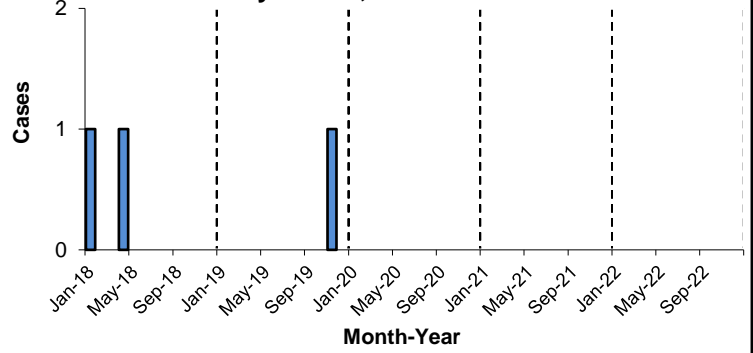


Viral Hepatitis:

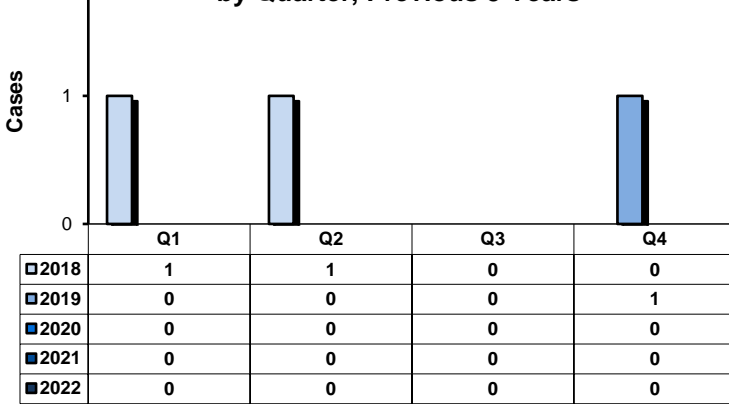
Acute Hepatitis B Cases in Ottawa County Previous 5 Years



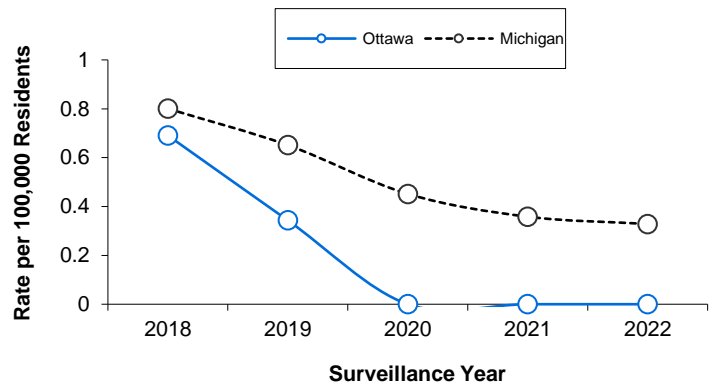
Acute Hepatitis B Cases in Ottawa County by Month, Previous 5 Years



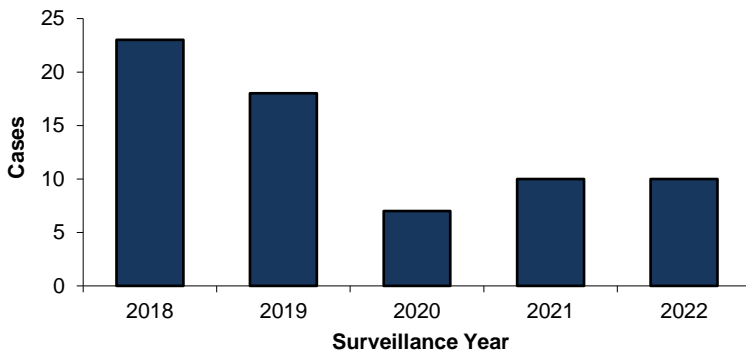
Acute Hepatitis B Cases in Ottawa County by Quarter, Previous 5 Years



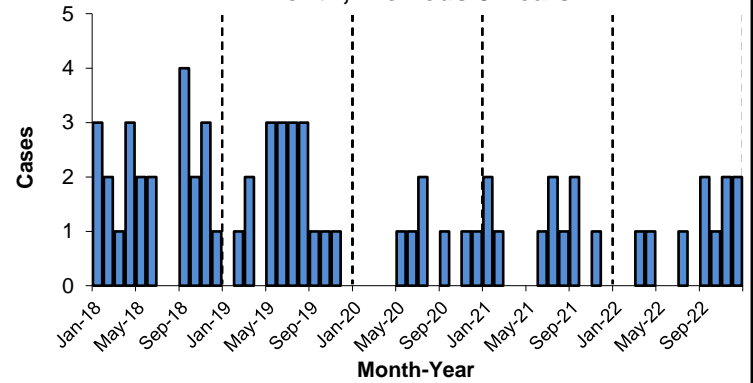
Acute Hepatitis B Cases per 100,000



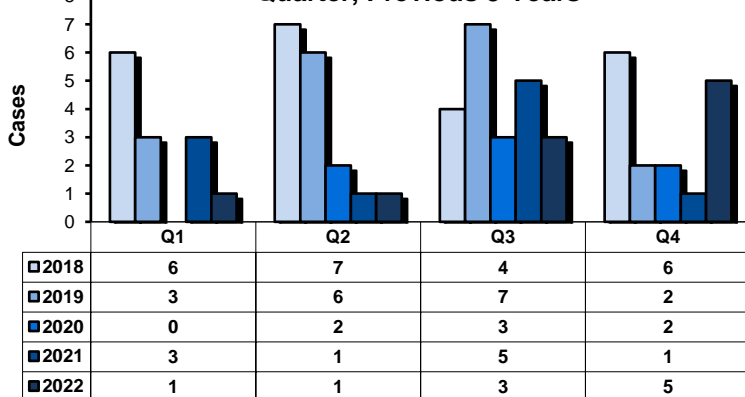
Chronic Hepatitis B Cases in Ottawa County Previous 5 Years



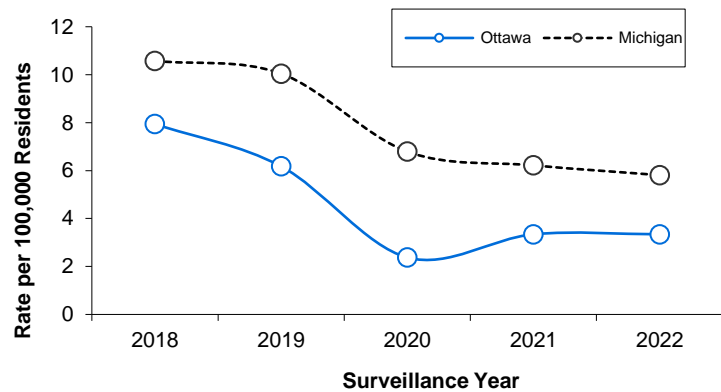
Chronic Hepatitis B Cases in Ottawa County by Month, Previous 5 Years



Chronic Hepatitis B Cases in Ottawa County by Quarter, Previous 5 Years

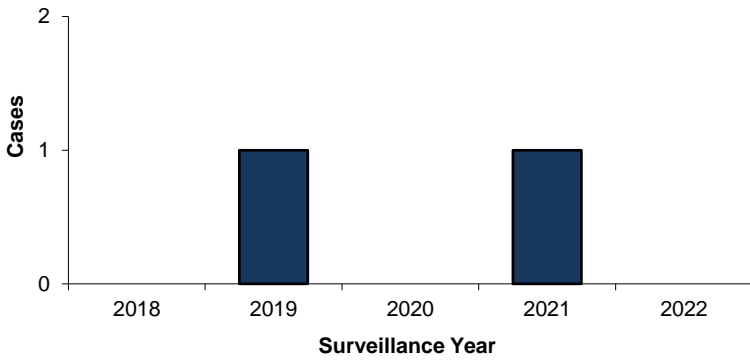


Chronic Hepatitis B Cases per 100,000

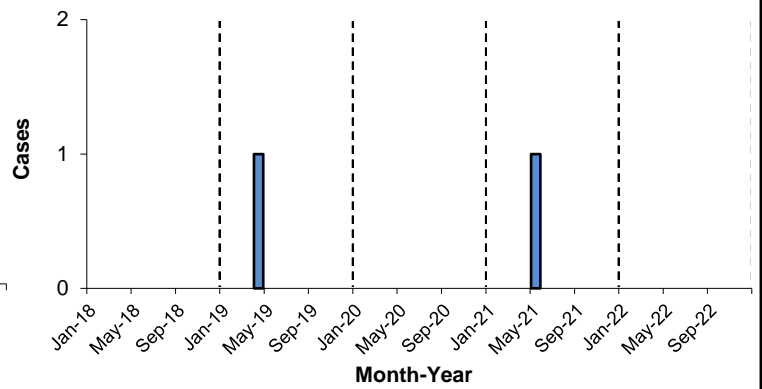


Viral Hepatitis:

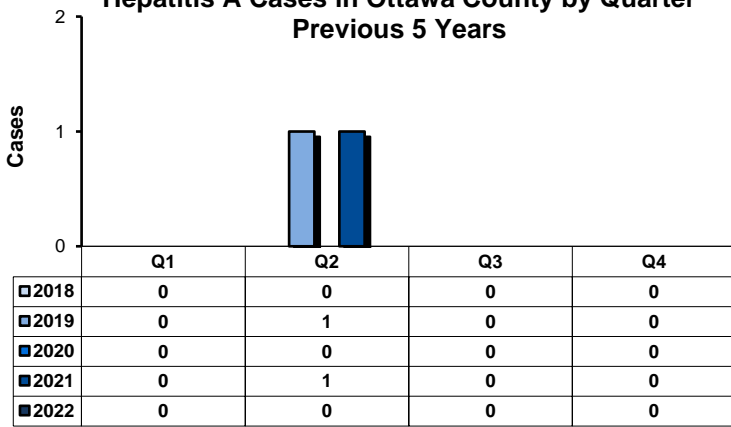
Hepatitis A Cases in Ottawa County Previous 5 Years



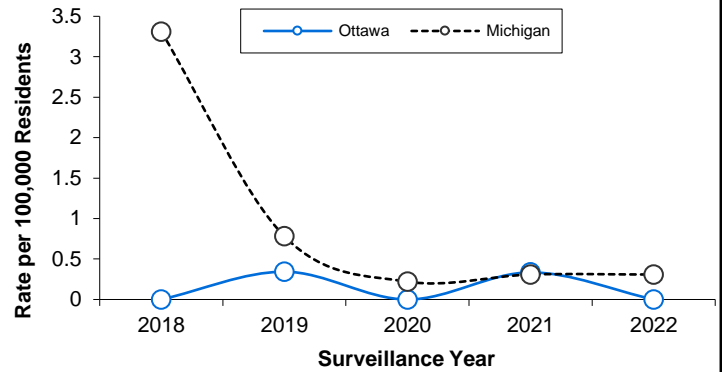
Hepatitis A Cases in Ottawa County by Month Previous 5 Years



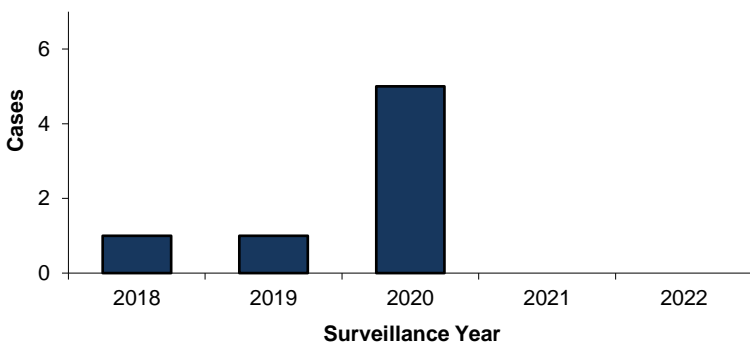
Hepatitis A Cases in Ottawa County by Quarter Previous 5 Years



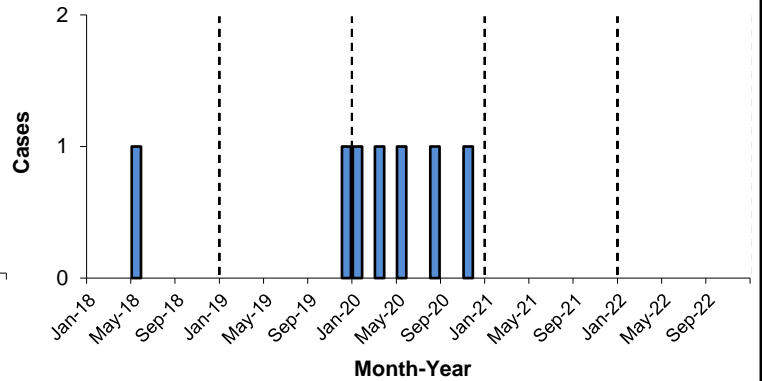
Hepatitis A Cases per 100,000



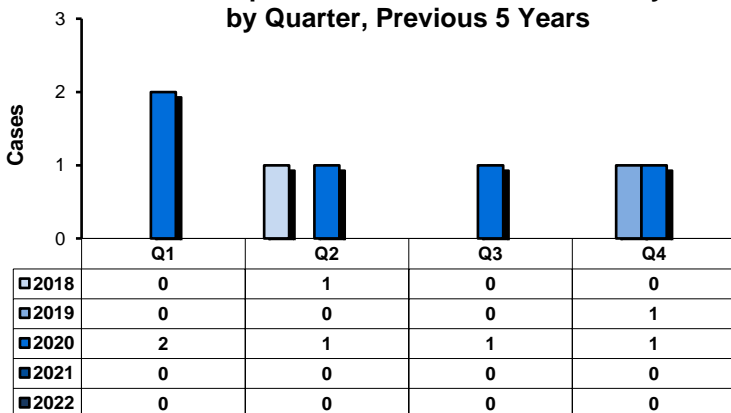
Acute Hepatitis C Cases in Ottawa County Previous 5 Years



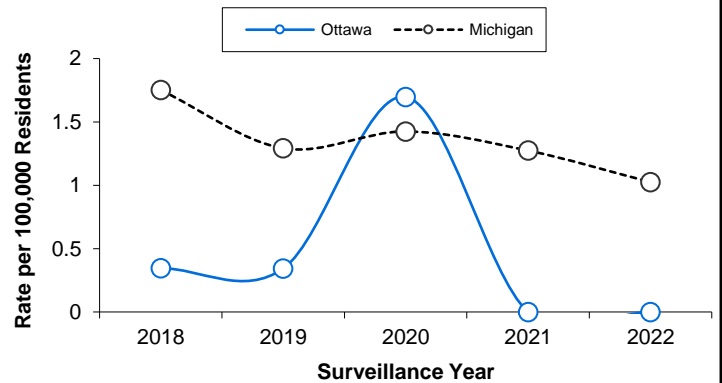
Acute Hepatitis C Cases in Ottawa County by Month, Previous 5 Years



Acute Hepatitis C Cases in Ottawa County by Quarter, Previous 5 Years

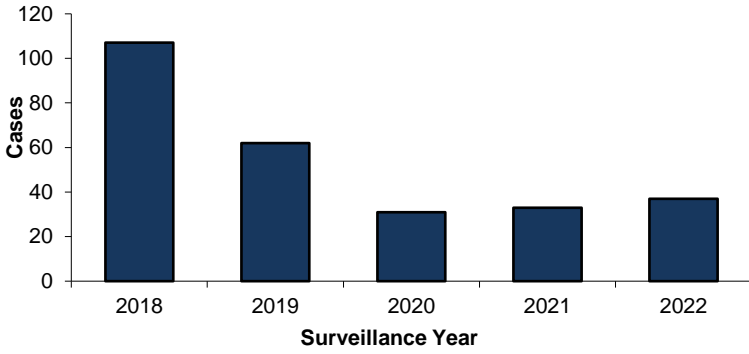


Acute Hepatitis C Cases per 100,000

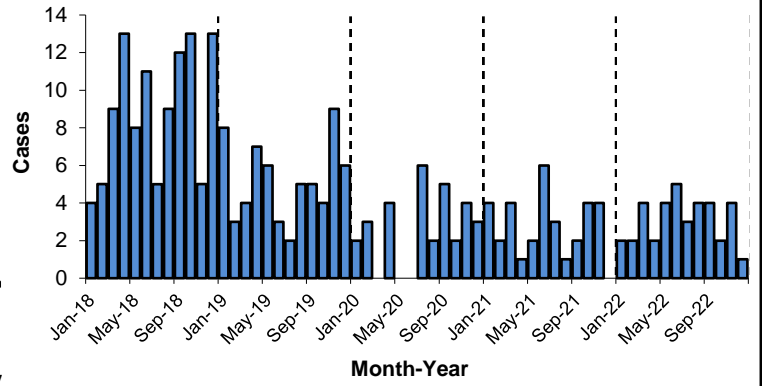


Viral Hepatitis:

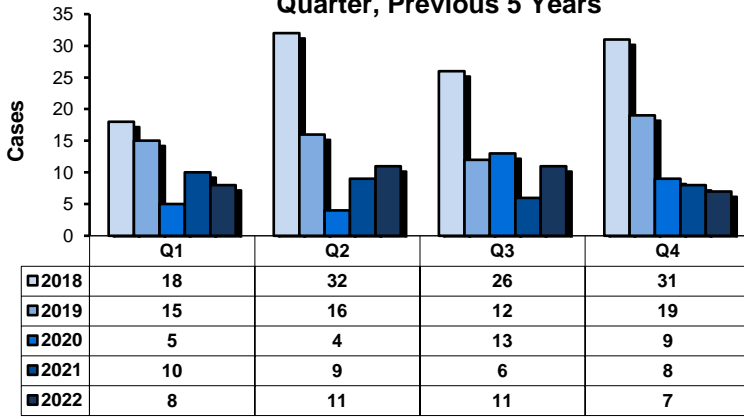
Chronic Hepatitis C Cases in Ottawa County Previous 5 Years



Chronic Hepatitis C Cases in Ottawa County by Month, Previous 5 Years



Chronic Hepatitis C Cases in Ottawa County by Quarter, Previous 5 Years



Chronic Hepatitis C Cases per 100,000

