

*mi*Ottawa Department of **Public Health**

Annual Summary of Reportable Diseases Ottawa County 2023

Prepared September 2024

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Executive Summary

The 2023 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. These diseases can also be transmitted indirectly through contact with contaminated animals, insects, or objects.

This report is intended to be a resource for those for whom communicable diseases are a concern or prevention is a priority. Below are some key highlights:

Foodborne Illnesses (Enteric Diseases)

The incidence of most foodborne illnesses declined during the early COVID-19 pandemic, likely due to reduced exposure to higher risk food or animals, improved hygiene, or changes in healthcare behaviors, testing, and disease reporting. Although these diseases are commonly spread by contaminated food, some can also be spread by contaminated water, contact with animals, or person-to-person contact (including sexual). After a general decline during the early COVID-19 pandemic, the number of reported foodborne illness cases increased in 2022 and 2023. Cryptosporidiosis had the most notable increase in 2023, likely due to seventeen (17) confirmed and probable Ottawa County cases related to an animal-associated outbreak at a local educational farm in April and May.

Mpox, Influenza, and COVID-19

Mpox was a newly reportable condition in 2022 following a global outbreak. Ottawa County had a total of seven (7) reported cases in 2022, but none in 2023.

Influenza (flu) activity was reduced throughout the early COVID-19 pandemic, likely due to heightened awareness, improved disease prevention, and reduced social interaction. However, flu activity returned to pre-COVID-19 pandemic levels during the 2022-23 season and resumed its usual surge during the 2023-24 season.

Reported COVID-19 cases declined again in 2023 to the lowest annual total since COVID-19 was first reported (6,349 cases) - an 82% reduction since 2022. Decreased testing and reporting to public health agencies, as well as an increase in immunity among the general population, may have contributed to the continued decline in reported COVID-19 cases.

Sexually Transmitted Infections (STI)

Chlamydia remained the most reported STI in Ottawa County in 2023, though local rates were significantly lower than statewide figures. Reported gonorrhea case rates in Ottawa (56 per 100,000) were also well below Michigan case rates (151 per 100,000). Syphilis case

counts had a small increase in 2023 compared to 2022 (15 in 2023 vs 11 in 2022) but remained well below the statewide reported cases per 100,000.

Tuberculosis (TB) & Latent TB Infection

In 2023, Ottawa County had three (3) reported cases of tuberculosis (TB) and 92 cases of latent TB infection, both of which notably increased from previous years. While TB incidence in Ottawa remained below statewide levels, latent TB infection increased by 53% from 60 cases in 2022. Although latent TB infection is not reportable in Michigan, positive TB screening tests are reported to Ottawa County Department of Public Health (OCDPH) to be evaluated and to rule out active TB disease. Without standardized reporting, evaluating latent TB trends is difficult; however, recent trends may be affected by changes in the availability of different tests and clinical recommendations for screening.

Vaccine Preventable Diseases (VPD)

Over the past five years Ottawa County had no reported cases of diphtheria, measles, polio, rubella, or tetanus. However, cases of chickenpox (varicella) and shingles continued to be reported in 2023. After a reduction in cases during the early COVID-19 pandemic and a greater reduction in 2022, chickenpox case rates increased statewide and in Ottawa County in 2023. Shingles steadily increased from 2020 (9) through 2023 (57).

Two cases of mumps were reported in 2023, after only one case had been reported between 2019 and 2022. Both 2023 cases exhibited clinical symptoms, but only one underwent testing. These cases were classified as probable and suspect, not confirmed.

Vector-borne Diseases

Vector-borne diseases are illnesses transmitted to humans and other animals by blood-feeding arthropods, such as mosquitoes, ticks, and fleas.

In 2023, Ottawa County saw an increase in Lyme disease cases, mirroring a statewide trend. The Lyme disease case definition was updated in 2022, which may have contributed to some of the additional cases observed in Ottawa County in 2023. According to the Michigan Department of Health and Human Services, Ottawa County remains a county with known risk for Lyme disease.

Two (2) cases of West Nile virus were reported in humans in Ottawa County in 2023. A human case of West Nile virus had not been reported in an Ottawa County resident since 2019. The two 2023 cases did not report recent travel, supporting the likelihood that exposure to the virus occurred in Ottawa County or Michigan. Roughly 1 in 150 people develop serious illness due to West Nile virus.

No other vector-borne diseases were reported in Ottawa County in 2023.

Viral Hepatitis

Viral hepatitis infection with one of the hepatitis viruses (A, B, C, D, or E) can lead to liver inflammation and damage. Chronic hepatitis C remained the most reported type of viral hepatitis in Ottawa County in 2023, 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				
		2019	2020	2021	2022	2023	2019	2020	2021	2022	2023
Foodborne	Amebiasis	-	-	1	-	-	9	7	6	11	10
	Botulism - Foodborne	-	-	-	-	-	-	-	1	-	2
	Campylobacter	58	38	58	78	82	1,705	1,221	1,518	1,510	1,736
	Cryptosporidiosis	22	15	12	19	35	419	246	249	334	333
	Giardiasis	11	13	17	10	5	428	380	439	408	511
	Listeriosis	4	-	-	-	-	30	29	35	36	34
	Norovirus***	262	108	36	13	142	1,481	582	587	1,391	994
	Salmonellosis	30	45	38	45	43	1,075	907	872	856	1,083
	Shiga toxin-producing Escherichia coli (STEC)	17	10	5	31	13	309	212	270	418	373
	Shigellosis	16	5	2	6	4	219	151	171	219	221
	Typhoid Fever	1	-	-	-	-	10	1	4	15	16
Yersinia enteritis	-	5	2	6	3	76	80	88	204	202	
Foodborne Subtotal	421	239	171	208	327	5,761	3,816	4,240	5,402	5,515	
Influenza	Flu Like Disease* ***	31,762	27,698	20,633	45,611	44,869	347,997	204,963	86,081	230,752	219,999
	Influenza	4	6	39	232	70	30,001	30,834	2,927	46,547	28,568
	Influenza, Novel	-	-	-	-	-	1	-	-	4	20
Influenza Subtotal	31,766	27,704	20,672	45,843	44,939	377,999	235,797	89,008	277,303	248,587	
Meningitis	Meningitis - Aseptic	9	2	2	6	3	457	260	259	293	270
	Meningitis - Bacterial Other	3	6	4	4	2	121	102	126	149	154
	Meningococcal Disease	-	-	-	-	-	8	3	5	5	9
	Streptococcus pneumoniae, Inv	10	8	15	11	20	936	529	523	804	920
Meningitis Subtotal	22	16	21	21	25	1,522	894	913	1,251	1,353	
Other	Acute Flaccid Myelitis (AFM)	-	-	-	-	-	3	4	1	2	-
	Anthrax	-	-	-	-	-	-	-	-	-	-
	Blastomycosis	-	1	-	-	-	26	24	19	33	164
	Botulism - Infant	-	-	-	-	-	-	2	-	1	2
	Botulism - Other	-	-	-	-	-	-	1	2	4	-
	Brucellosis	1	-	-	-	-	1	3	2	4	1
	CP-CRE/CPO	1	-	2	5	4	263	267	405	550	489
	Candida auris	-	-	-	-	-	-	-	3	135	435
	Cholera	-	-	-	-	-	2	1	-	-	1
	Coccidioidomycosis	4	1	3	2	1	52	54	76	58	66
	Creutzfeldt-Jakob Disease	-	1	-	-	1	15	9	16	18	24
	Cryptococcosis	-	-	-	-	1	18	24	25	23	30
	Cyclosporiasis	1	-	-	-	3	130	25	51	57	43
	Encephalitis, Post Chickenpox	-	-	-	-	-	1	-	-	3	1
	Encephalitis, Post Mumps	-	-	-	-	-	-	-	-	-	-
	Encephalitis, Post Other	-	1	-	1	-	14	10	16	16	22
	Encephalitis, Primary	-	-	-	-	-	14	16	11	8	9
	Gastrointestinal Illness	20,765	11,247	10,431	17,489	17,744	138,801	61,476	45,986	101,493	142,205
	Guillain-Barre Syndrome	-	2	1	4	2	65	50	60	76	81
	Hantavirus	-	-	-	-	-	-	-	-	-	-
	Hantavirus, Other	-	-	-	-	-	-	-	-	-	-
	Hantavirus, Pulmonary	-	-	-	-	-	-	-	1	-	-
	Hemolytic Uremic Syndrome	1	1	-	3	-	8	5	3	16	8
	Hemorrhagic Fever	-	-	-	-	-	-	-	-	-	-
	Histoplasmosis	24	10	22	29	23	237	198	274	355	274
	Kawasaki	-	2	-	-	2	55	63	44	55	60
	Legionellosis	8	7	8	6	6	561	385	583	371	430
	Leprosy	-	-	-	-	-	-	-	1	2	1
	Leptospirosis	-	-	-	-	-	3	3	1	2	5
	Melioidosis	-	-	-	-	-	-	-	-	-	-
	Mpox ***	-	-	-	7	-	-	-	-	451	4
	Multisystem Inflammatory Syndrome **	-	4	4	5	-	-	80	174	76	8
	Novel Coronavirus COVID-19 **	-	21,939	44,772	35,392	6,349	1	589,337	1,360,969	1,357,149	308,125
	Plague	-	-	-	-	-	-	-	-	-	-
	Psittacosis	-	-	-	-	-	-	2	2	3	-
	Q Fever Acute	-	-	-	-	-	5	4	4	3	-
	Q Fever Chronic	-	-	-	-	-	-	1	-	2	1
Rabies Animal	1	-	3	3	-	58	54	48	49	48	
Rabies Human	-	-	-	-	-	-	-	-	-	-	
Reye Syndrome	-	-	-	-	-	-	-	-	-	-	
Rheumatic Fever	-	-	-	-	-	-	-	-	2	-	
Rubella - Congenital	-	-	-	-	-	-	-	-	-	-	
Streptococcus pneumoniae, Drug Resistant	4	5	-	2	8	80	32	40	60	80	
Streptococcal Dis, Inv, Grp A	11	13	3	7	15	450	338	258	387	975	
Streptococcal Toxic Shock	-	-	-	1	2	5	4	2	4	15	

Disease Group	Reportable Condition	Ottawa County Cases Reported**					Michigan Cases Reported				
		2019	2020	2021	2022	2023	2019	2020	2021	2022	2023
Other	Toxic Shock	-	-	-	1	-	7	3	5	2	6
	Trachoma	-	-	-	-	-	-	2	1	-	1
	Trichinosis	-	-	-	-	-	-	-	-	-	
	Tularemia	-	-	-	-	-	1	-	1	4	4
	Vibriosis - Non Cholera	3	-	2	2	1	39	27	35	45	27
	VISA	1	-	-	-	-	11	-	4	3	2
	VRSA	-	-	-	-	-	-	-	1	-	1
	Other Subtotal	20,825	33,234	55,251	52,959	24,162	140,926	652,504	1,409,124	1,461,522	453,648
STD	Chancroid	-	-	-	-	-	-	-	2	-	1
	Chlamydia (Genital)	822	807	1,010	770	720	50,359	44,802	46,394	42,818	42,917
	Gonorrhoea	162	203	259	152	168	18,266	23,397	22,208	16,361	15,251
	Granuloma Inguinale	-	-	-	-	-	-	-	-	-	-
	Lymphogranuloma venereum	-	-	-	-	-	1	8	3	2	-
	Syphilis - Primary, Secondary & Early Latent	7	18	14	11	15	1,240	1,348	1,713	1,722	1,718
	All Syphilis	13	24	27	24	27	1,911	2,044	2,682	2,823	3,077
	STD Subtotal	997	1,034	1,296	946	915	70,537	70,251	71,289	62,004	61,246
Tuberculosis	Latent Tuberculosis Infection	50	24	62	60	92	2,054	1,347	1,482	1,867	2,349
	Nontuberculous Mycobacterium	11	16	12	22	11	854	684	769	828	769
	Tuberculosis	3	1	1	1	3	142	106	135	137	130
	Tuberculosis Subtotal	64	41	75	83	106	3,050	2,137	2,386	2,832	3,248
VPD	Chickenpox (Varicella)	14	14	22	8	22	416	185	183	232	363
	Diphtheria	-	-	-	-	-	-	-	-	-	-
	H. influenzae Disease - Inv. †	9	4	4	7	3	223	100	168	252	257
	Measles	-	-	-	-	-	46	-	1	1	-
	Mumps	-	1	-	-	2	29	7	11	29	33
	Pertussis	19	5	-	1	1	546	116	74	86	110
	Polio	-	-	-	-	-	-	-	-	-	-
	Rubella	-	-	-	-	-	-	1	6	13	8
	Shingles	21	9	15	41	57	1,222	818	629	760	1,309
	Tetanus	-	-	-	-	-	1	-	1	1	1
	VZ Infection, Unspecified	4	17	4	1	2	228	235	384	376	395
	VPD Subtotal	67	50	45	58	87	2,711	1,462	1,457	1,750	2,476
Vectorborne	Babesiosis	-	-	-	-	-	2	1	8	13	20
	Chikungunya	-	-	-	-	-	-	-	1	2	1
	Dengue Fever	1	-	-	-	2	23	6	5	17	25
	Ehrlichiosis	1	-	1	-	-	523,612	528,005	532,444	536,834	541,253
	Encephalitis, California Serogroup	-	1	-	-	-	3	4	9	4	7
	Encephalitis, Eastern Equine	-	-	-	-	-	10	4	1	-	-
	Encephalitis, Powassan	-	-	-	-	-	-	-	-	-	-
	Encephalitis, St. Louis	-	-	-	-	-	-	-	1	-	-
	Encephalitis, Western Equine	-	-	-	-	-	-	-	-	-	-
	Lyme Disease	26	10	29	25	60	493	536	1,271	1,112	2,198
	Malaria	-	-	-	1	1	26	14	14	44	37
	Rickettsial Disease - Spotted Fever	-	1	-	1	-	12	48	12	15	8
	Rickettsial Disease - Typhus	-	-	-	-	-	-	-	-	-	1
	West Nile Virus	-	-	-	-	2	12	33	59	16	26
	Yellow Fever	-	-	-	-	-	-	-	-	-	-
	Zika	-	-	-	-	-	-	-	-	-	-
	Vectorborne Subtotal	28	12	30	27	65	524,193	528,651	533,825	538,057	543,576
Viral Hepatitis	Hepatitis A	1	-	1	-	-	78	22	31	31	26
	Hepatitis B, Acute	1	-	-	-	-	65	45	35	33	43
	Hepatitis B, Chronic	18	7	10	10	13	1,002	678	625	578	855
	Hepatitis B, Perinatal	-	-	-	-	-	-	-	-	-	-
	Hepatitis C, Acute*	1	5	-	-	-	128	140	128	102	75
	Hepatitis C, Chronic*	61	31	33	34	21	5,652	4,079	3,834	3,157	2,731
	Hepatitis C, Perinatal	-	-	-	1	-	10	8	9	7	8
	Hepatitis C, Unknown*	-	-	-	-	-	21	-	-	4	-
	Hepatitis D	2	-	-	1	-	6	6	8	7	1
	Hepatitis E	1	-	-	-	-	5	9	11	10	8
	Viral Hepatitis Subtotal	85	43	44	46	34	6,967	4,987	4,681	3,929	3,747
Total		54,275	62,373	77,605	100,191	70,660	1,133,666	1,500,499	2,116,923	2,354,050	1,323,396

* 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.

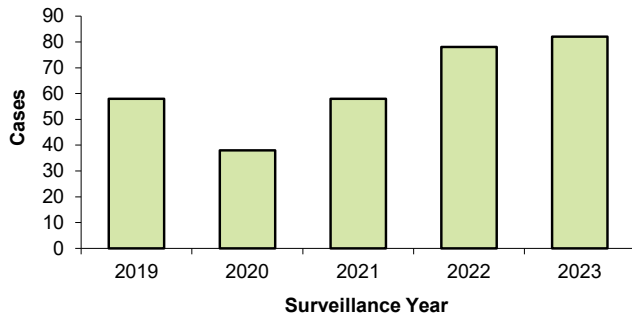
*** Indicates disease first reported in MDSS in 2022.

Annual Reportable Disease Summary

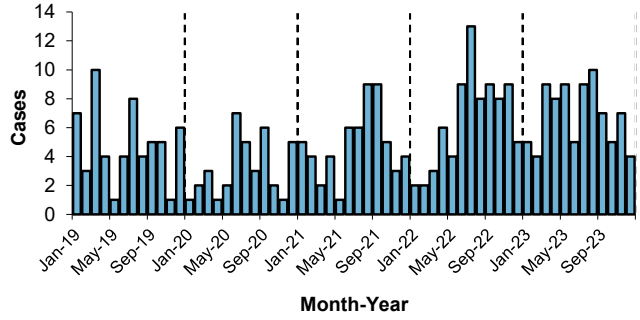
Charts

Foodborne Illness:

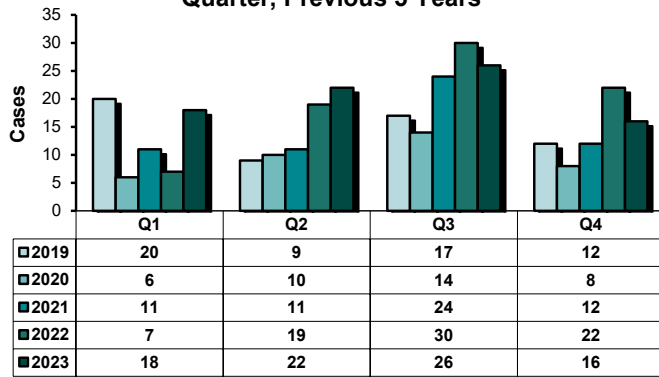
Campylobacter Cases in Ottawa County Previous 5 Years



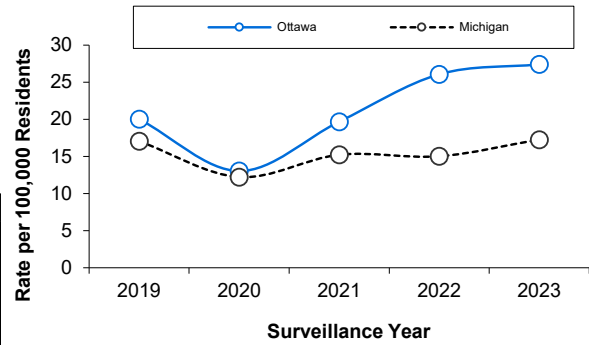
Campylobacter Cases in Ottawa County by Month, Previous 5 Years



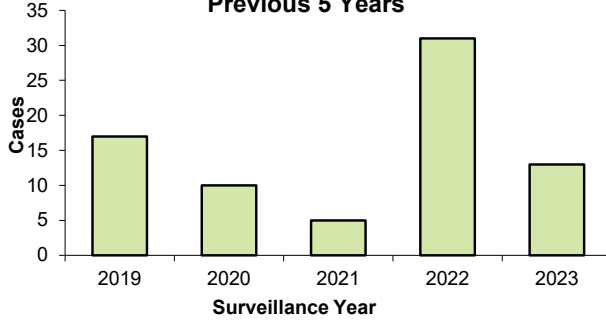
Campylobacter Cases in Ottawa County by Quarter, Previous 5 Years



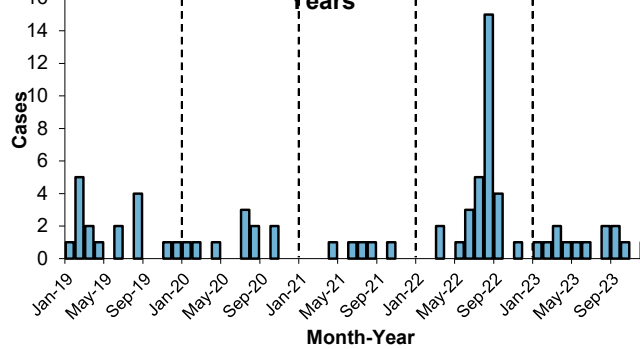
Campylobacter Cases per 100,000



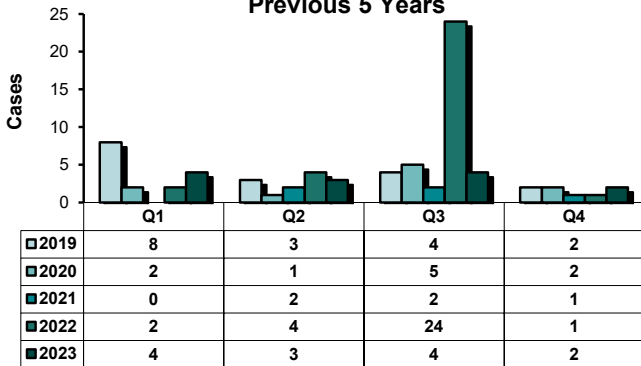
Shiga toxin-producing *Escherichia coli* (STEC) Cases in Ottawa County, Previous 5 Years



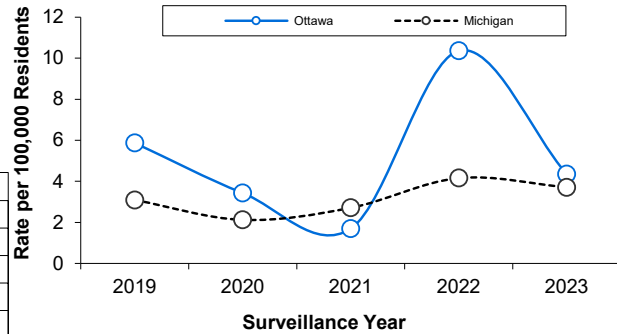
Shiga toxin-producing *Escherichia coli* (STEC) Cases in Ottawa County by Month, Previous 5 Years



Shiga toxin-producing *Escherichia coli* (STEC) Cases in Ottawa County by Quarter, Previous 5 Years

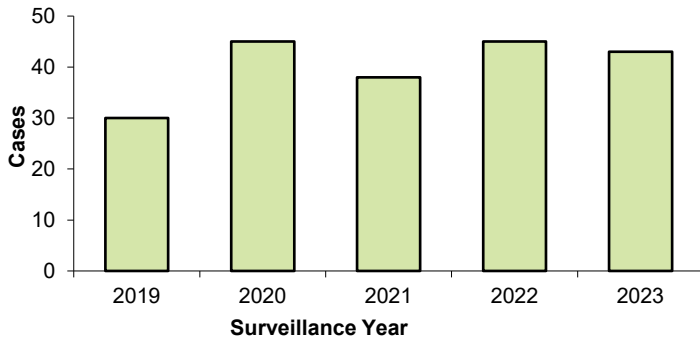


Shiga toxin-producing *Escherichia coli* (STEC) Cases per 100,000

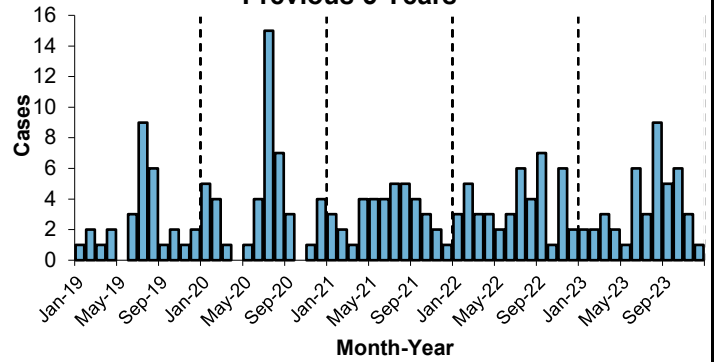


Foodborne Illness:

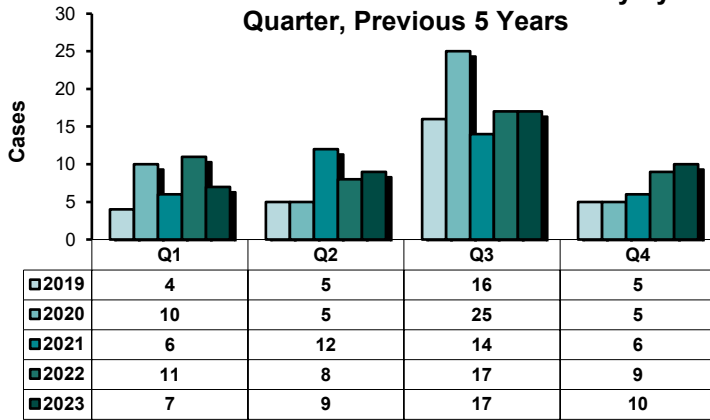
Salmonellosis Cases in Ottawa County Previous 5 Years



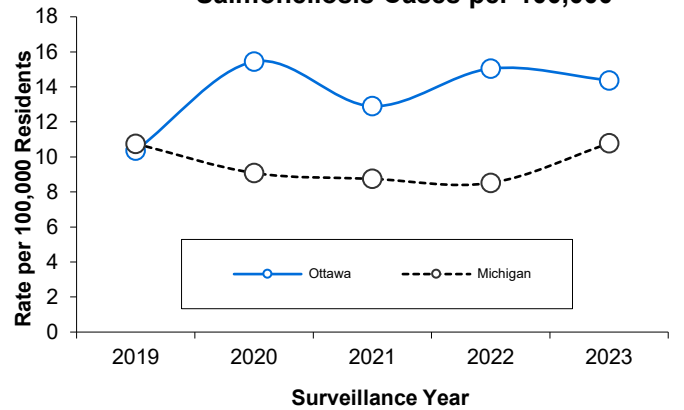
Salmonellosis Cases in Ottawa County by Month Previous 5 Years



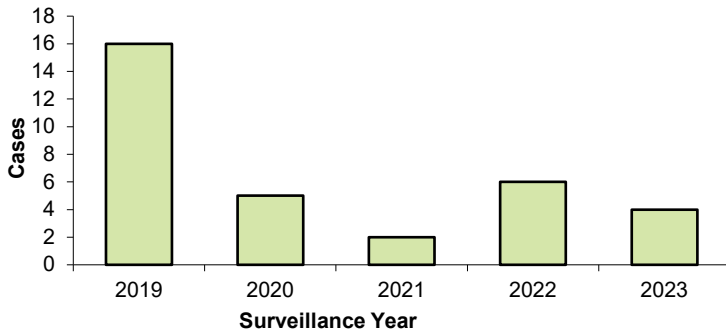
Salmonellosis Cases in Ottawa County by Quarter, Previous 5 Years



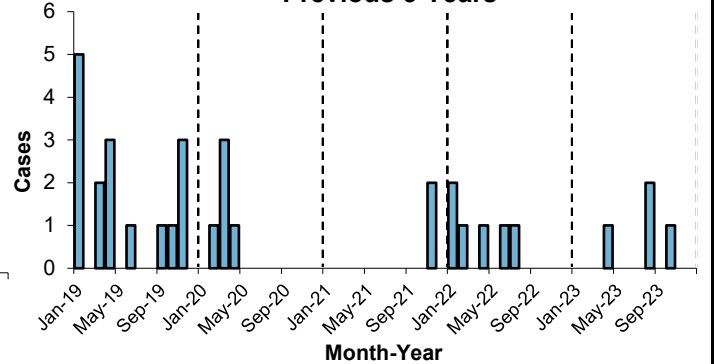
Salmonellosis Cases per 100,000



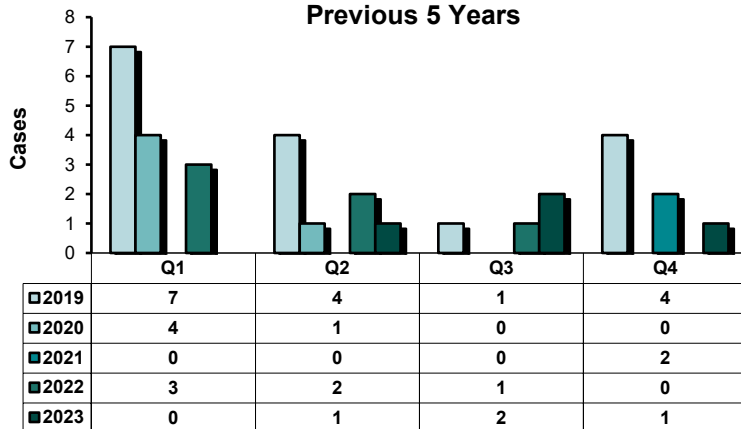
Shigellosis Cases in Ottawa County Previous 5 Years



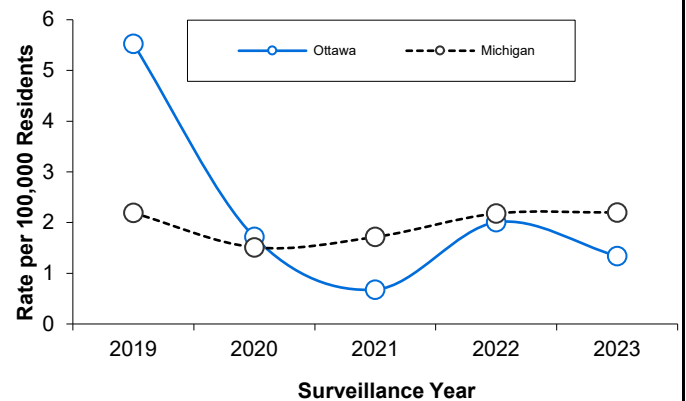
Shigellosis Cases in Ottawa County by Month Previous 5 Years



Shigellosis Cases in Ottawa County by Quarter Previous 5 Years

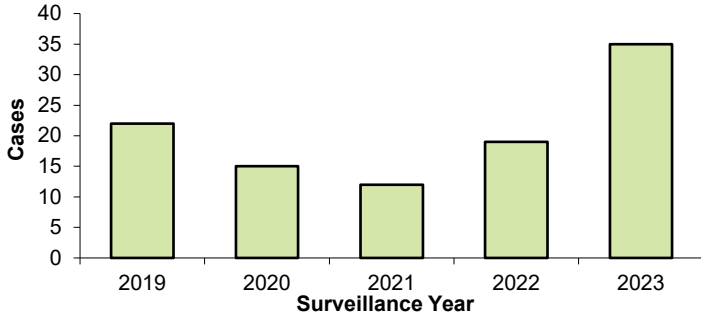


Shigellosis Cases per 100,000

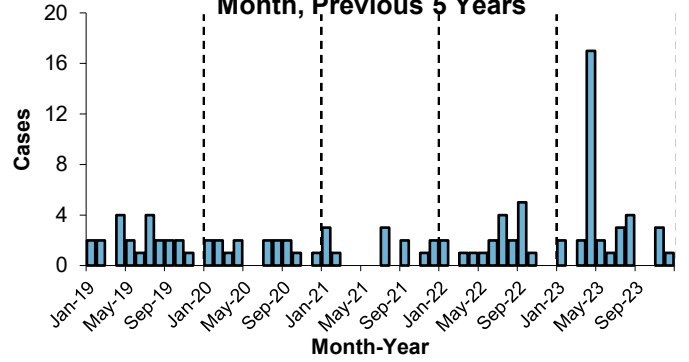


Foodborne Illness:

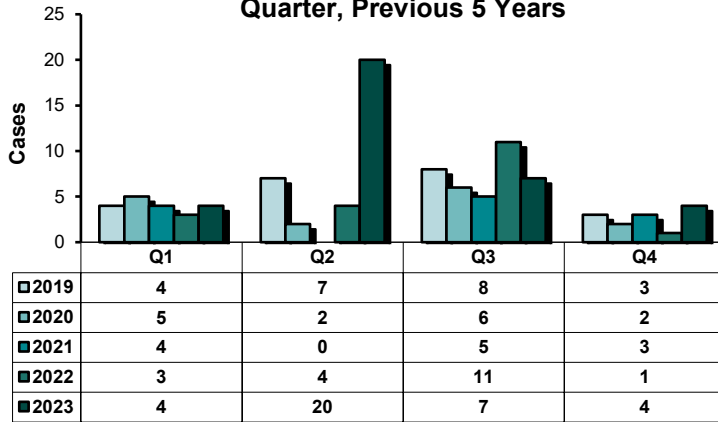
Cryptosporidiosis Cases in Ottawa County, Previous 5 Years



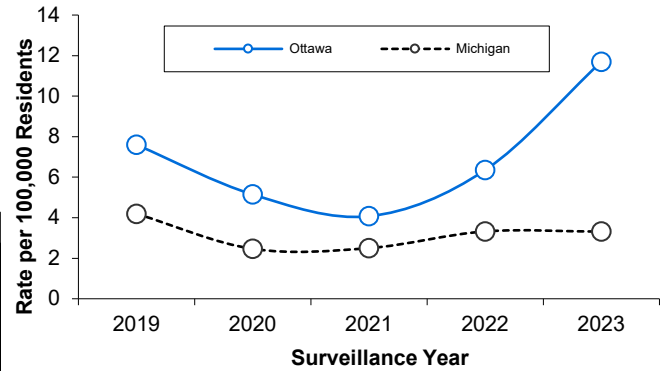
Cryptosporidiosis Cases in Ottawa County by Month, Previous 5 Years



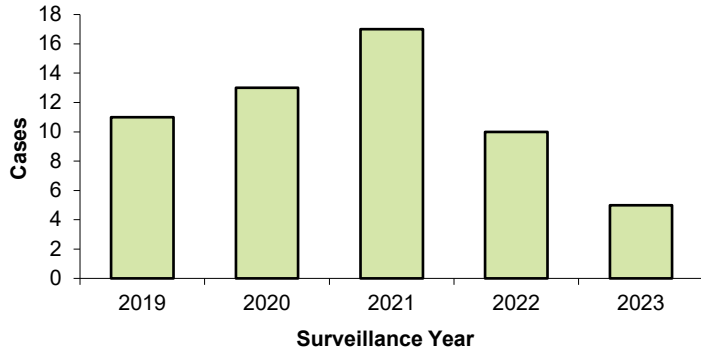
Cryptosporidiosis Cases in Ottawa County by Quarter, Previous 5 Years



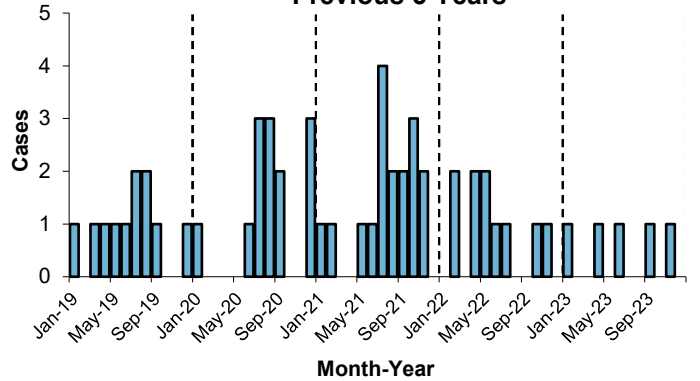
Cryptosporidiosis Cases per 100,000



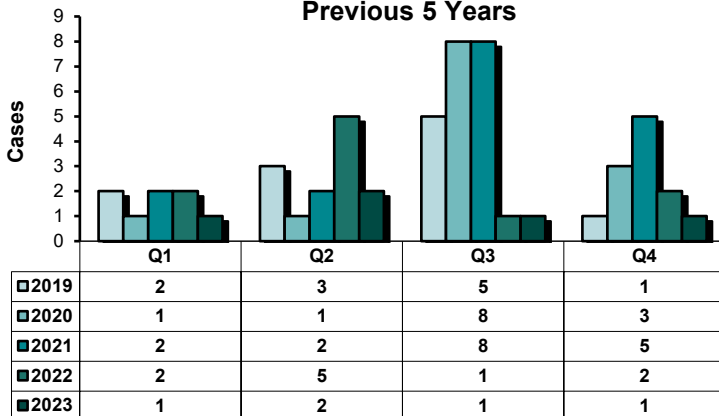
Giardia Cases in Ottawa County Previous 5 Years



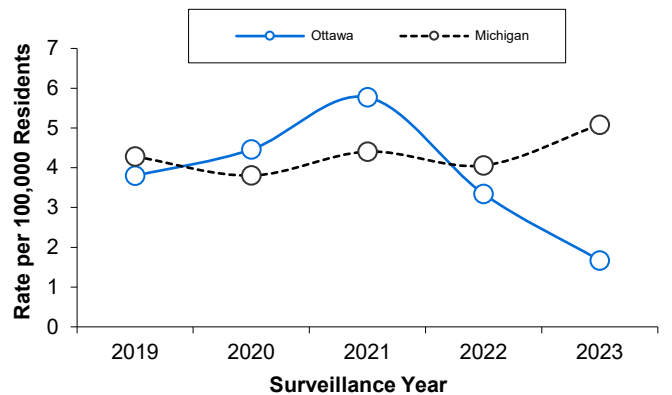
Giardia Cases in Ottawa County by Month Previous 5 Years



Giardia Cases in Ottawa County by Quarter, Previous 5 Years

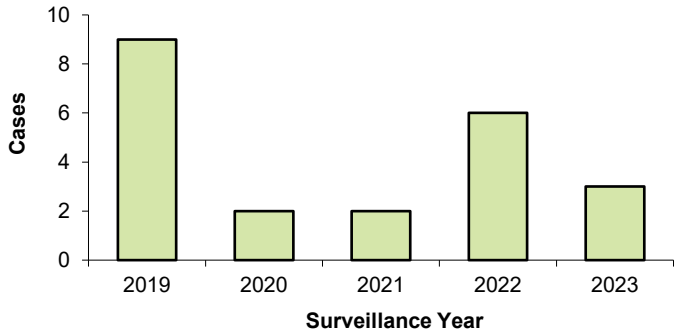


Giardia Cases per 100,000

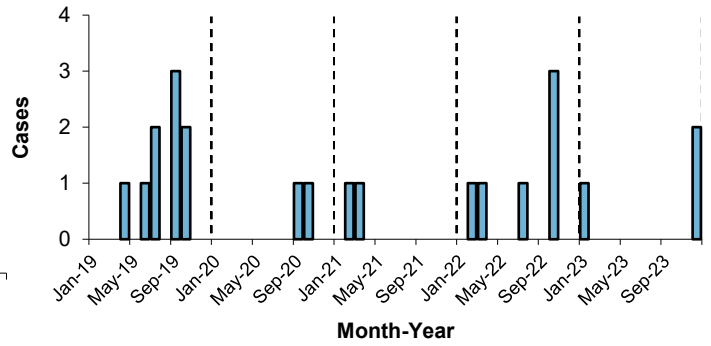


Meningitis:

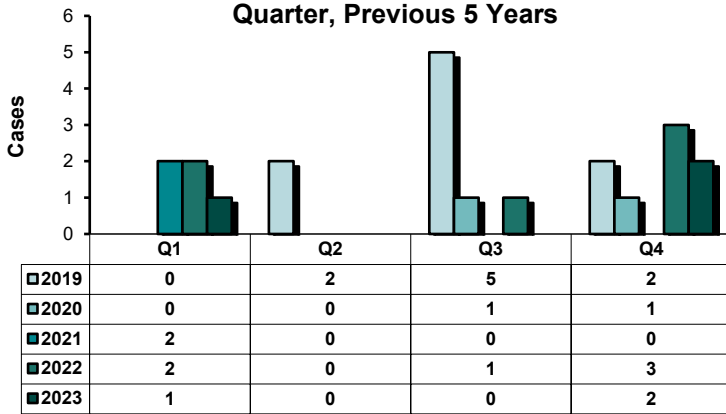
Aseptic Meningitis Cases in Ottawa County, Previous 5 Years



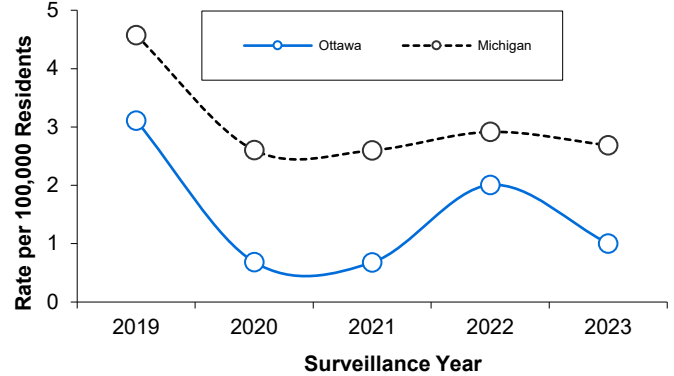
Aseptic Meningitis Cases in Ottawa County by Month, Previous 5 Years



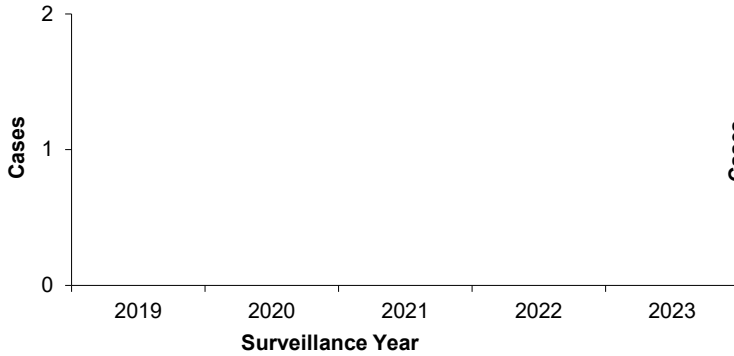
Aseptic Meningitis Cases in Ottawa County by Quarter, Previous 5 Years



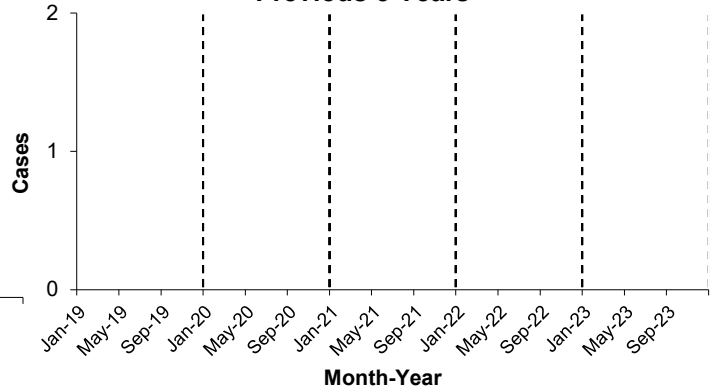
Aseptic Meningitis Cases per 100,000



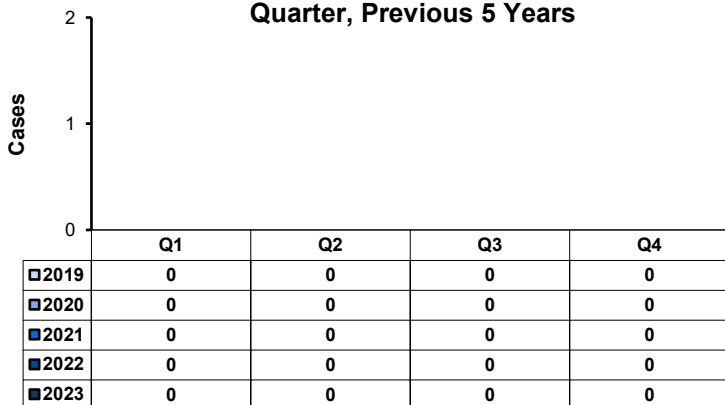
***N. meningitidis* Cases in Ottawa County Previous 5 Years**



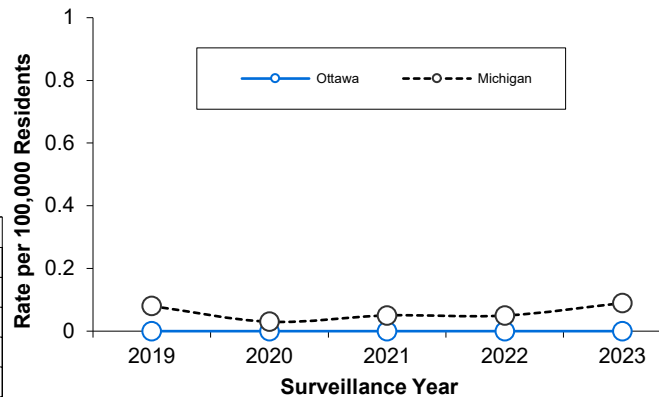
***N. meningitidis* Cases in Ottawa County by Month Previous 5 Years**



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

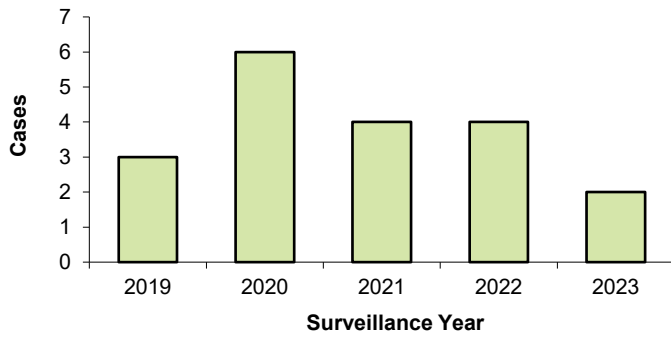


***N. meningitidis* Cases per 100,000**

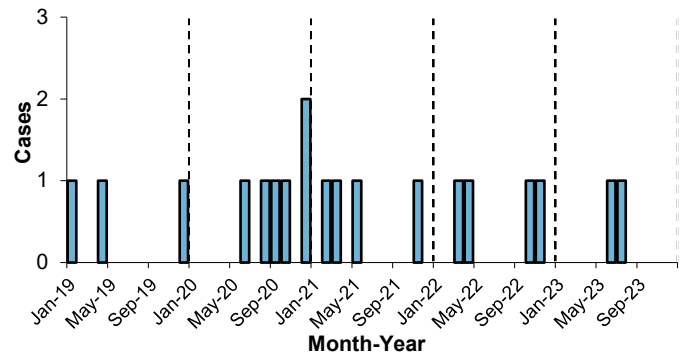


Meningitis:

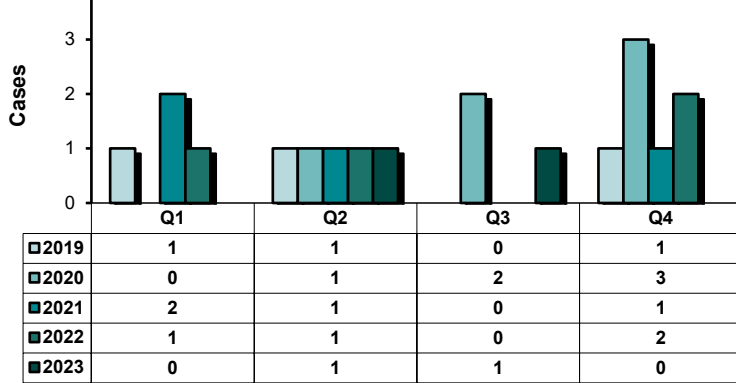
Meningitis (Other Bacterial) Cases in Ottawa County, Previous 5 Years



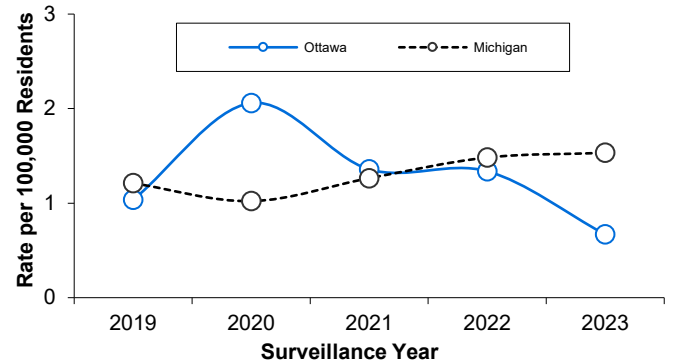
Meningitis (Other Bacterial) Cases in Ottawa County by Month, Previous 5 Years



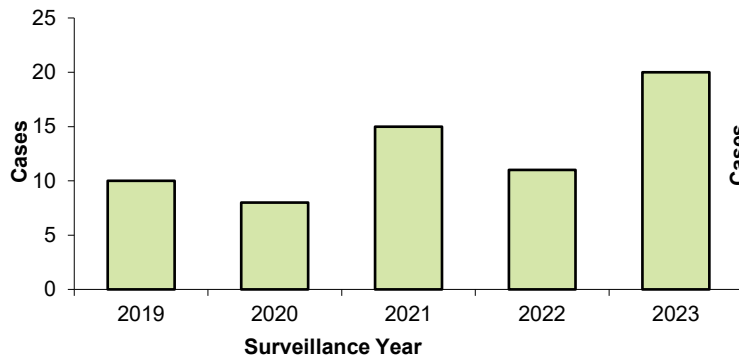
Meningitis (Other Bacterial) Cases in Ottawa County by Quarter, Previous 5 Years



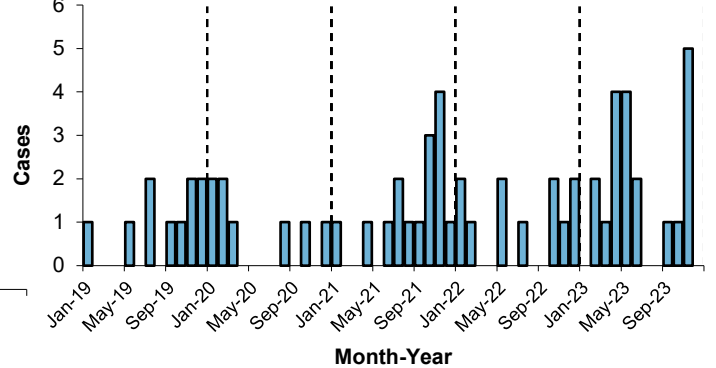
Meningitis (Other Bacterial) Cases per 100,000



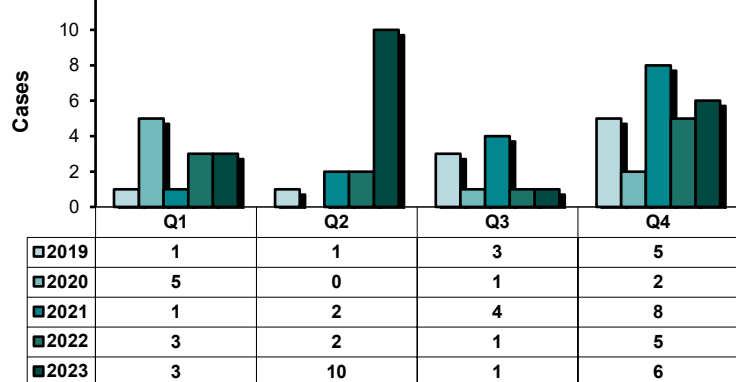
Invasive *Streptococcus pneumoniae* Cases in Ottawa County, Previous 5 Years



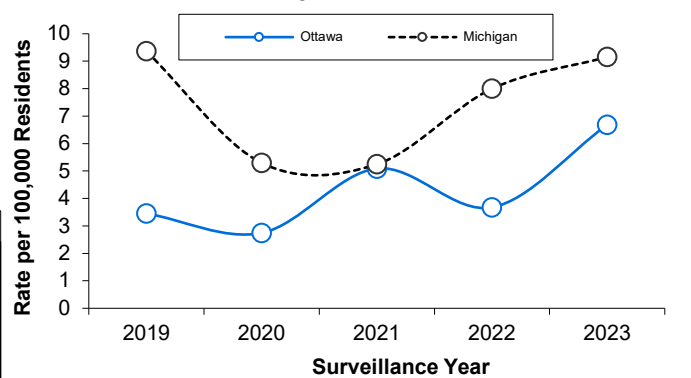
Invasive *Streptococcus pneumoniae* Cases in Ottawa County by Month, Previous 5 Years



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

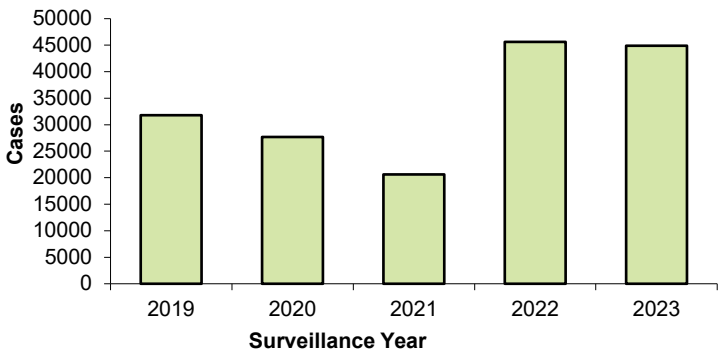


Invasive *Streptococcus pneumoniae* Cases per 100,000

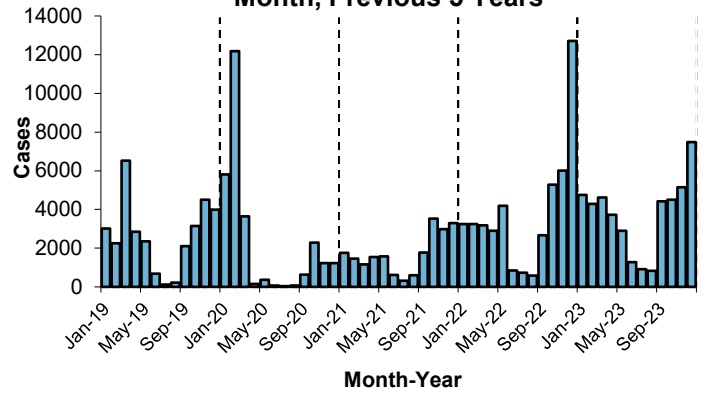


Influenza and COVID-19:

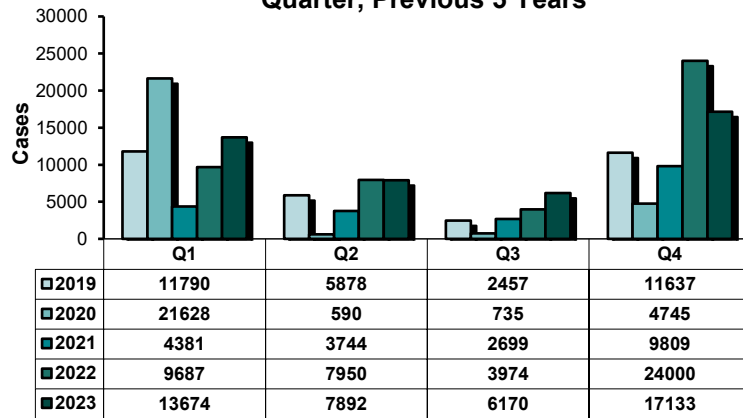
Flu-Like Disease Cases in Ottawa County Previous 5 Years



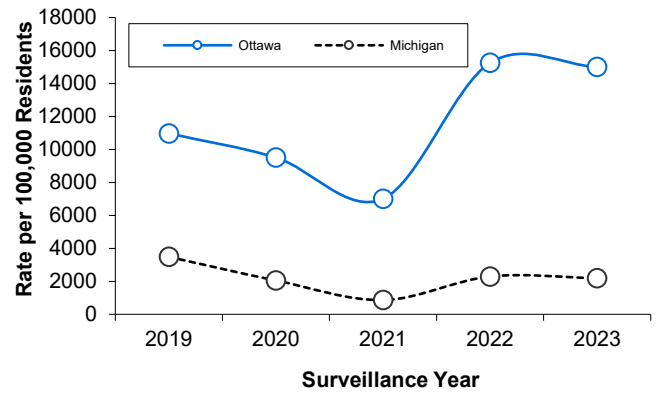
Flu-Like Disease Cases in Ottawa County by Month, Previous 5 Years



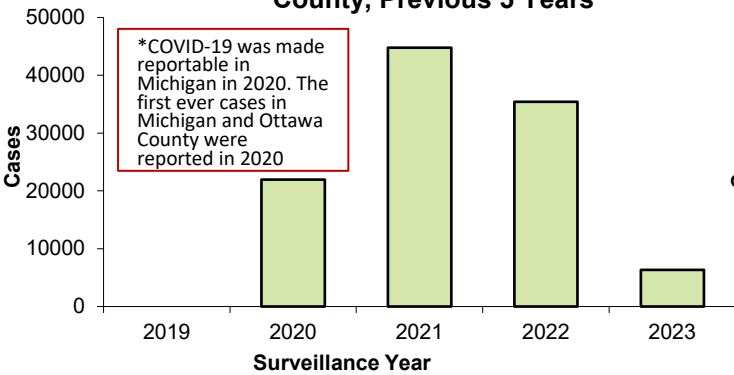
Flu-Like Disease Cases in Ottawa County by Quarter, Previous 5 Years



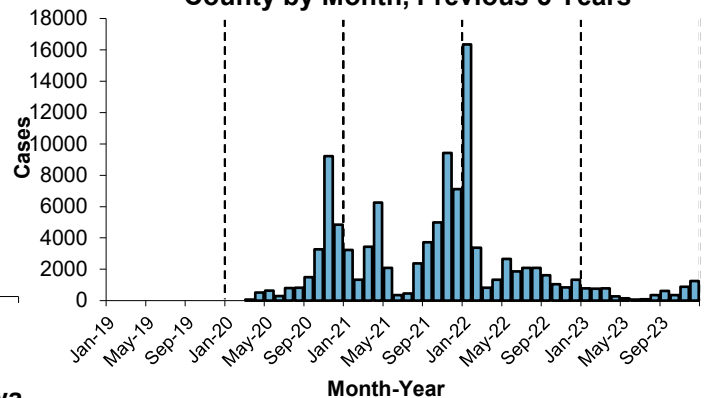
Flu-Like Disease Cases per 100,000



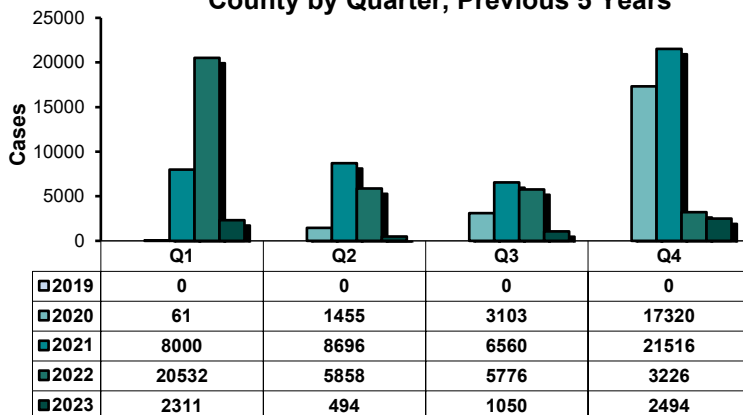
Novel Coronavirus (COVID-19) Cases in Ottawa County, Previous 5 Years



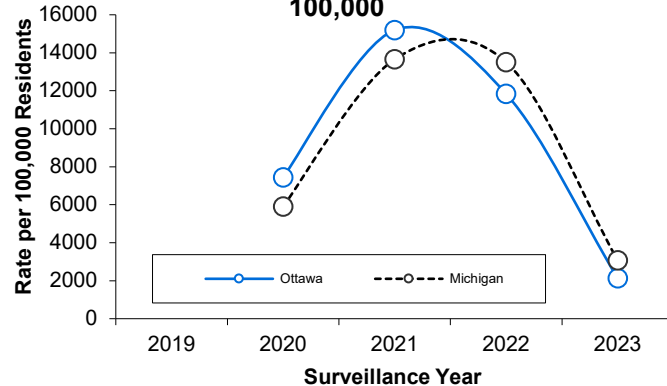
Novel Coronavirus (COVID-19) Cases in Ottawa County by Month, Previous 5 Years



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

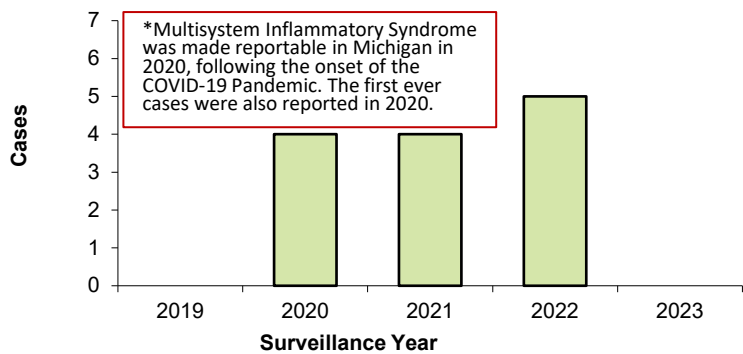


Novel Coronavirus (COVID-19) Cases per 100,000



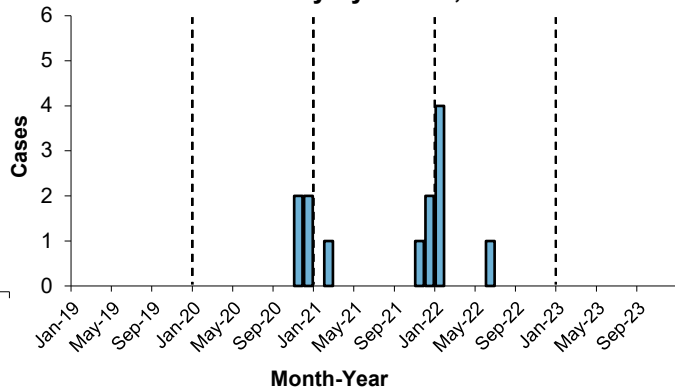
Multisystem Inflammatory Syndrome:

Multisystem Inflammatory Syndrome Cases in Ottawa County Previous 5 Years

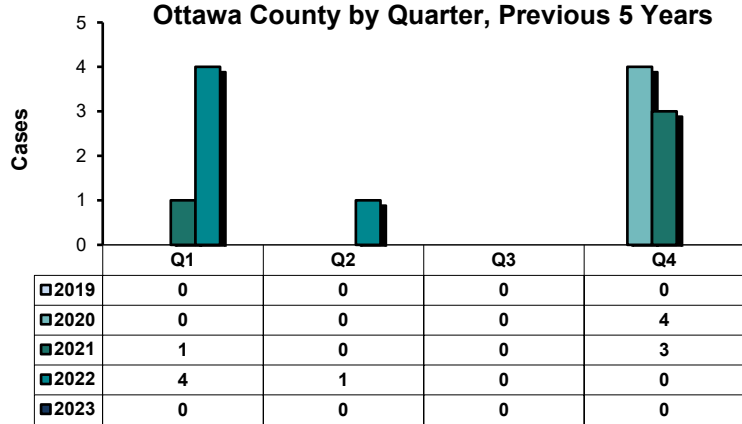


*Multisystem Inflammatory Syndrome was made reportable in Michigan in 2020, following the onset of the COVID-19 Pandemic. The first ever cases were also reported in 2020.

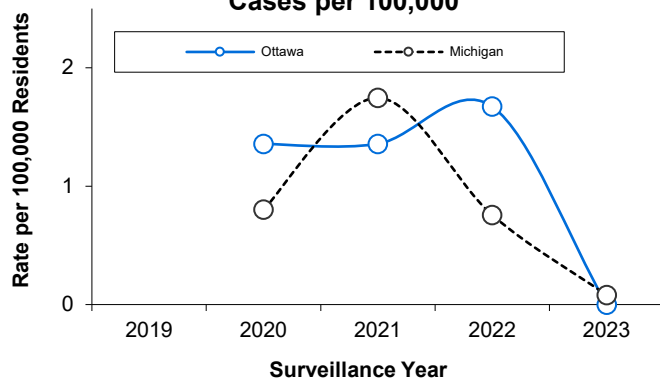
Multisystem Inflammatory Syndrome Cases in Ottawa County by Month, Previous 5 Years



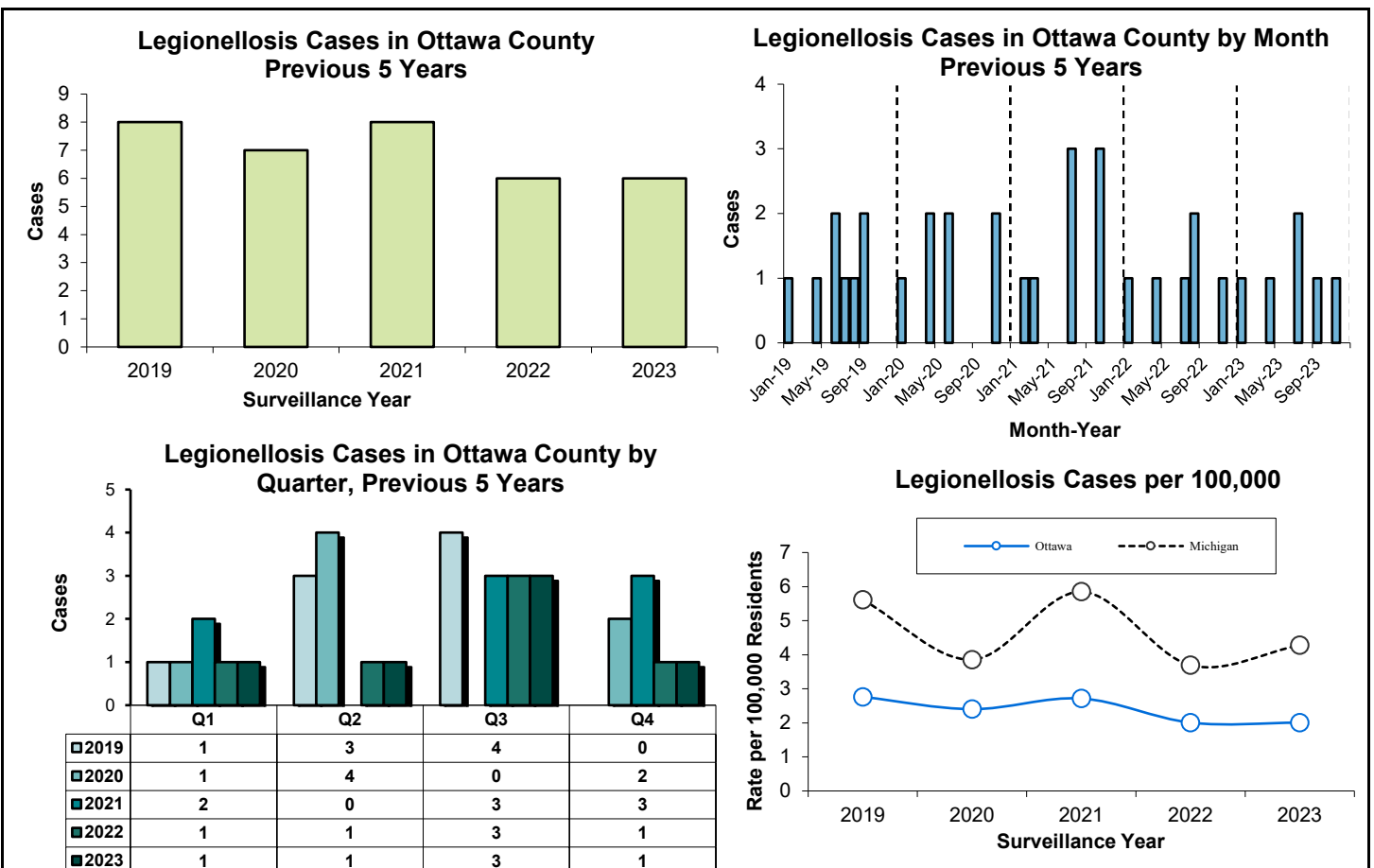
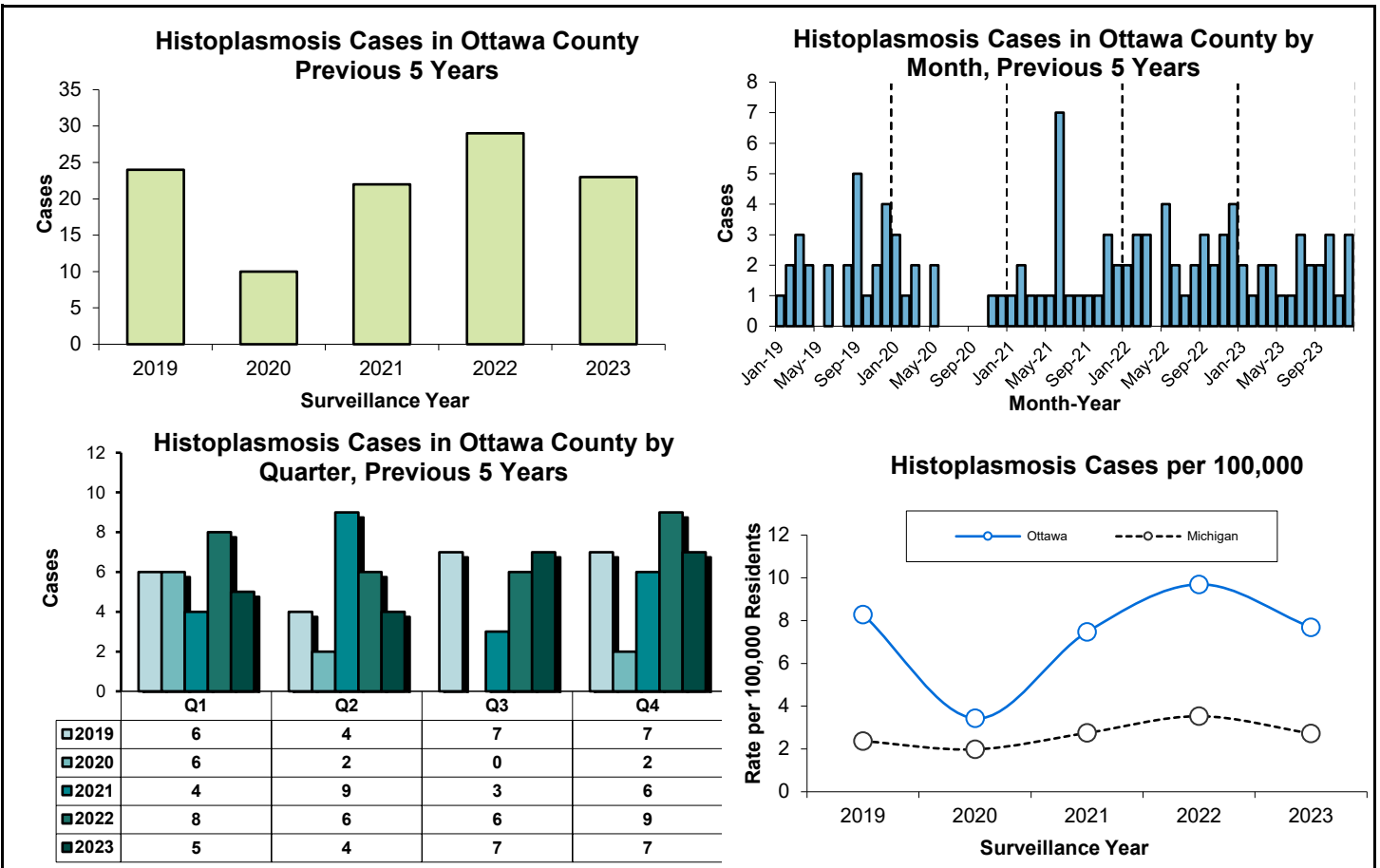
Multisystem Inflammatory Syndrome Cases in Ottawa County by Quarter, Previous 5 Years



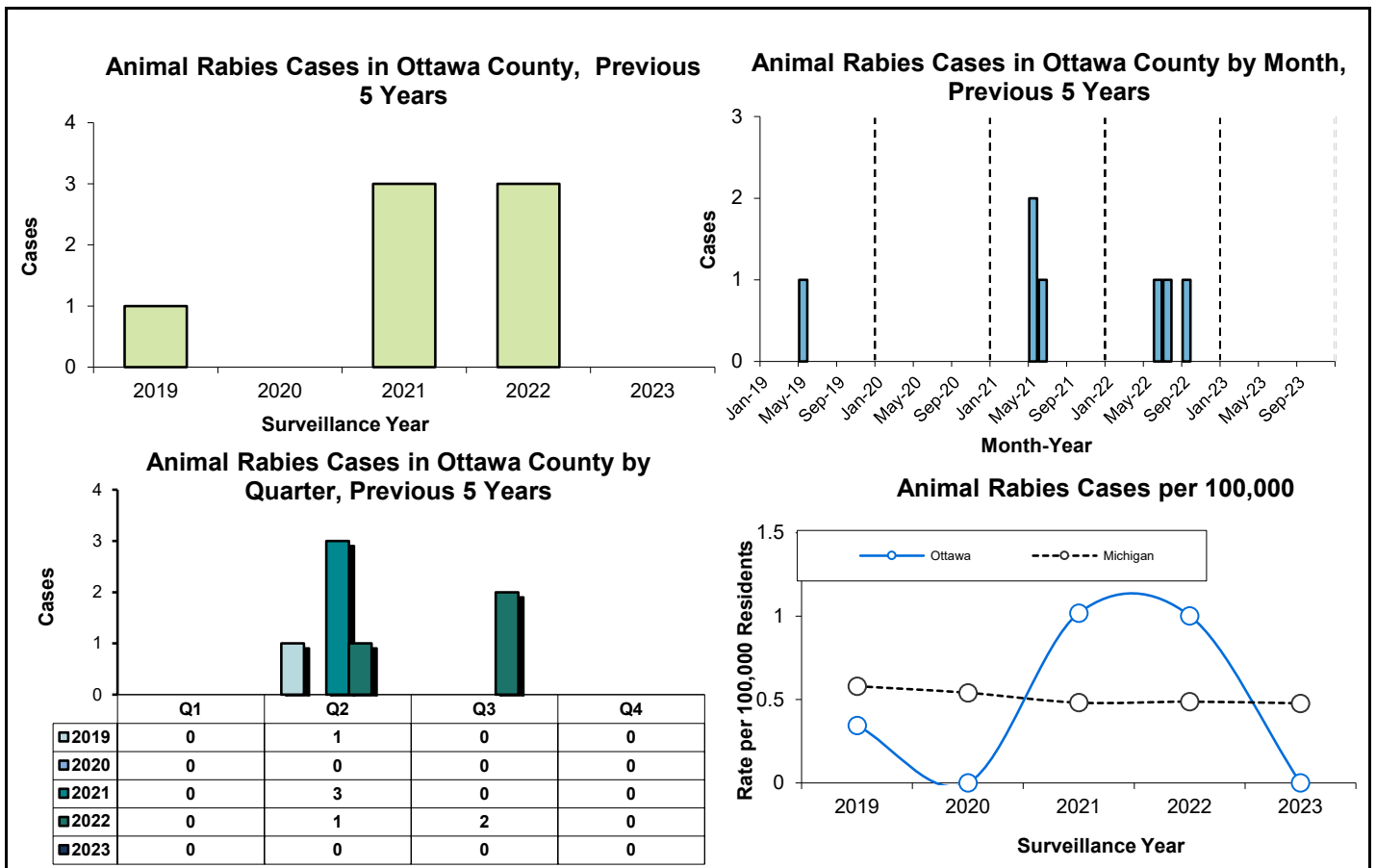
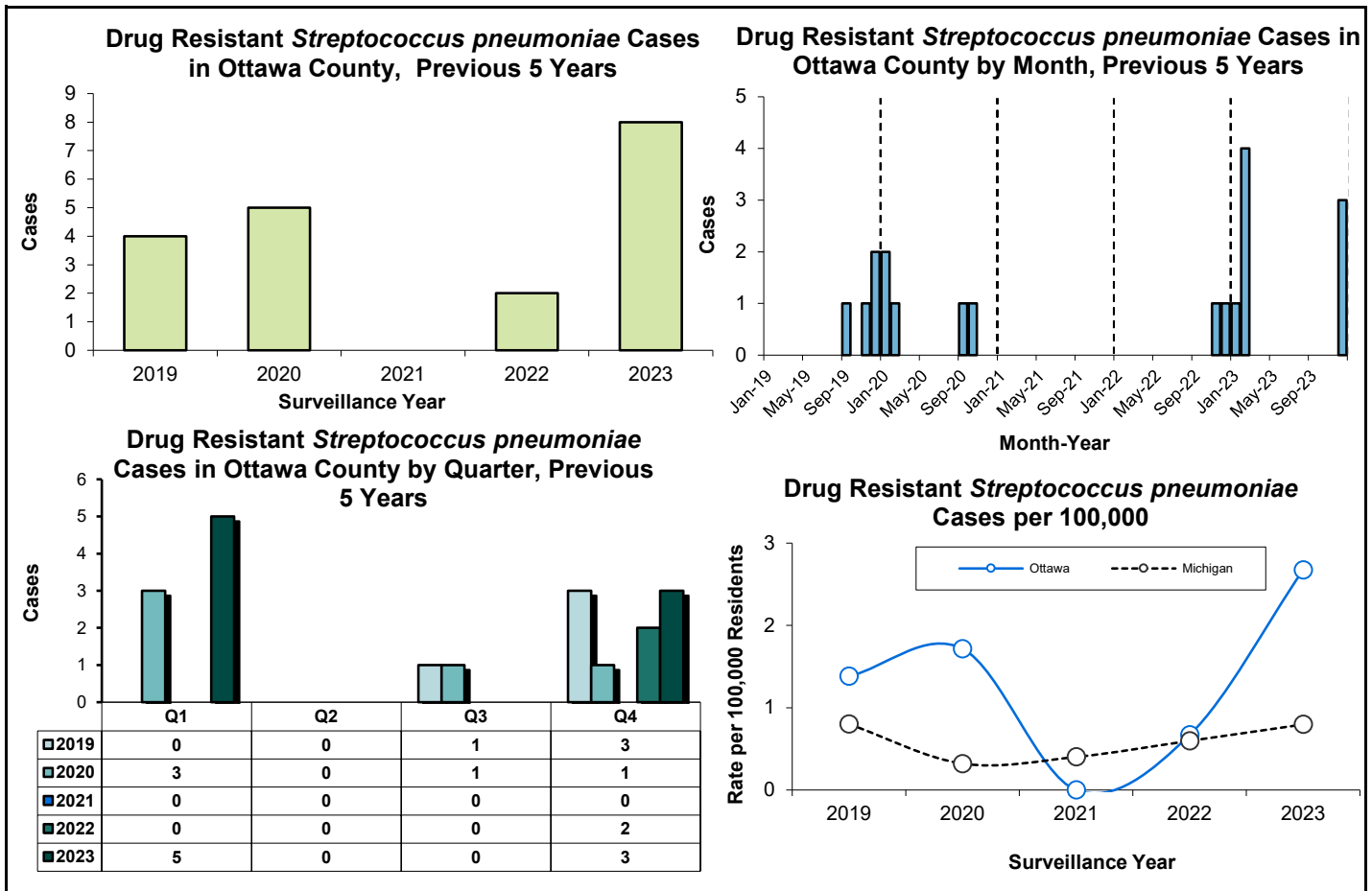
Multisystem Inflammatory Syndrome Cases per 100,000



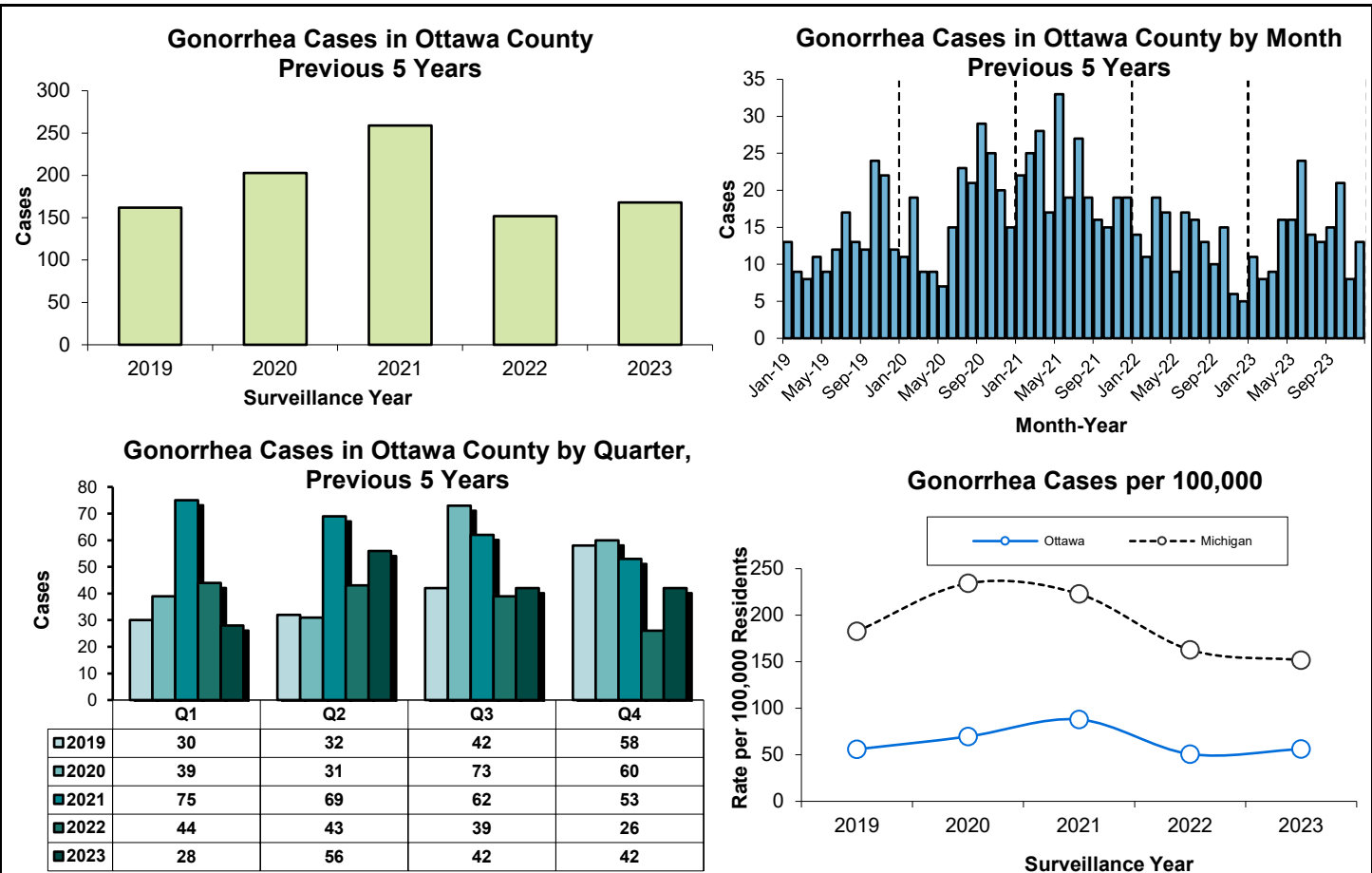
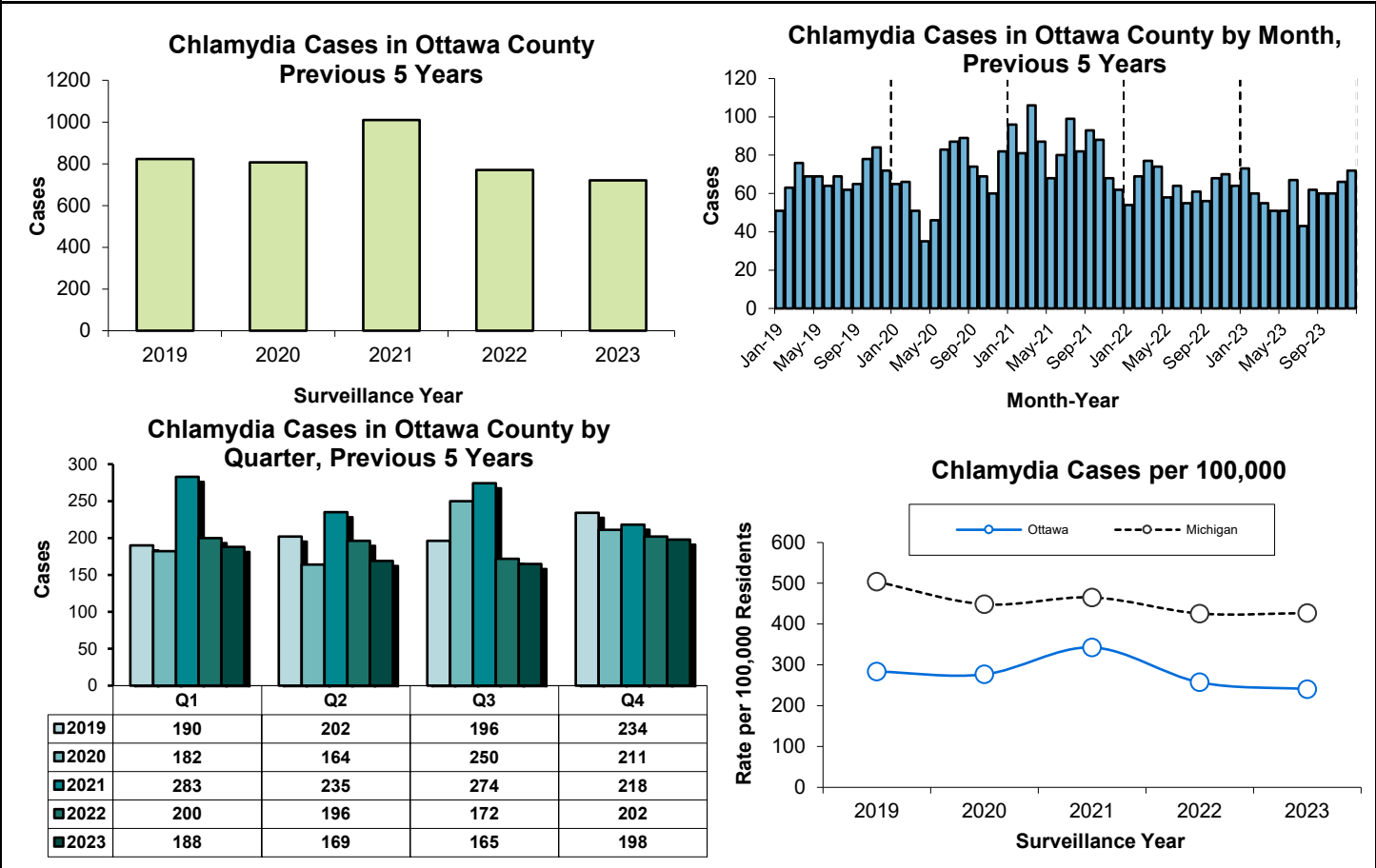
Other Illnesses:



Other Illnesses:

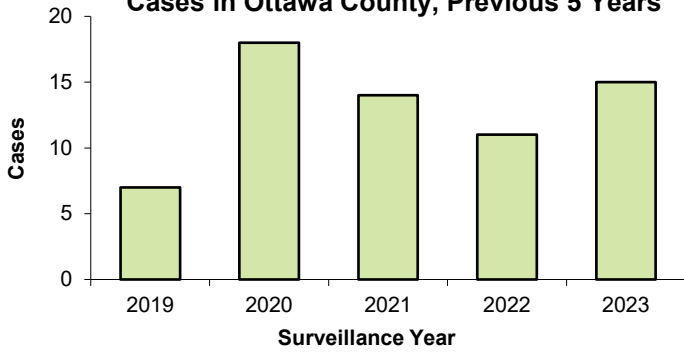


Sexually Transmitted Infections:

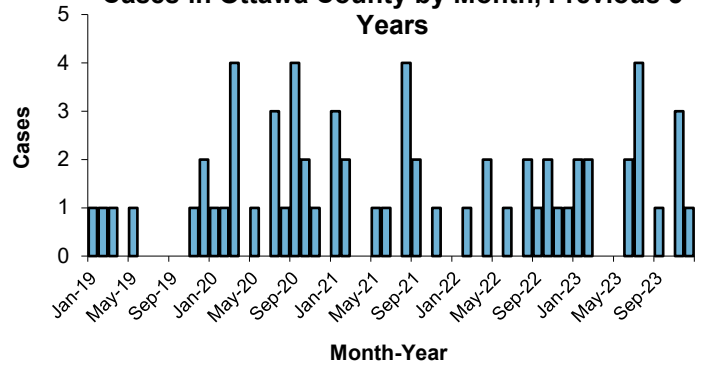


Sexually Transmitted Infections and Mpox:

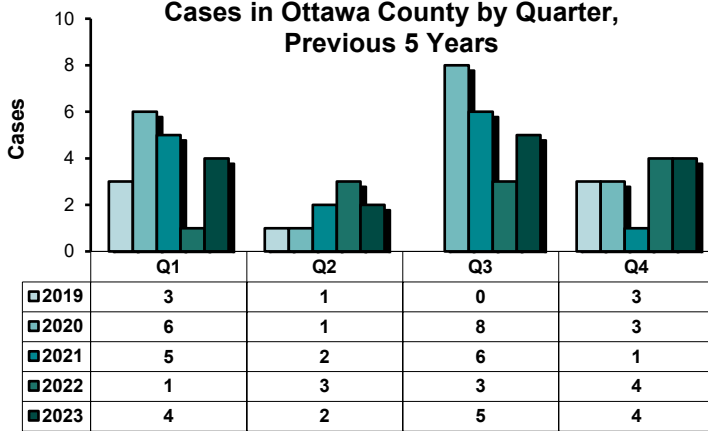
Primary, Secondary, & Early Latent Syphilis Cases in Ottawa County, Previous 5 Years



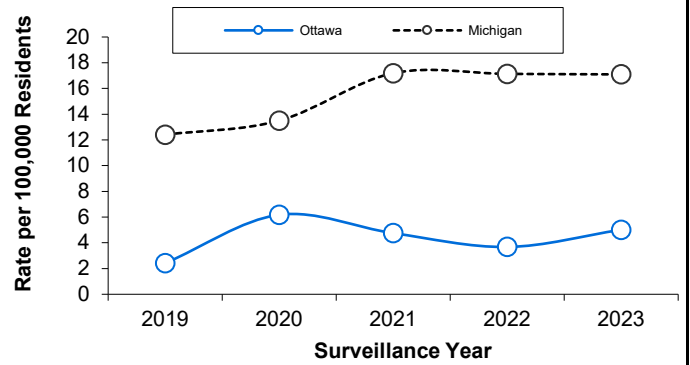
Primary, Secondary, & Early Latent Syphilis Cases in Ottawa County by Month, Previous 5 Years



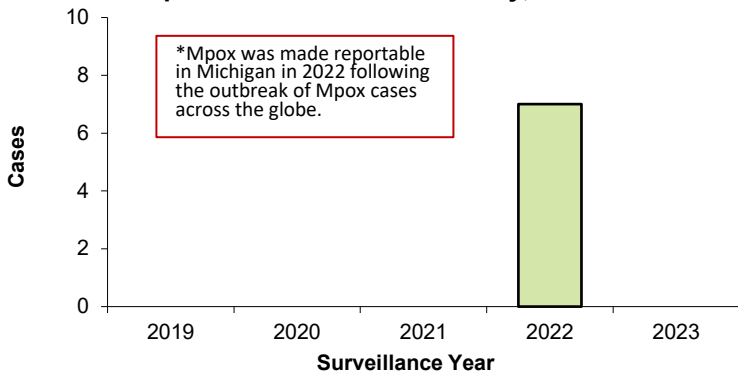
Primary, Secondary, & Early Latent Syphilis Cases in Ottawa County by Quarter, Previous 5 Years



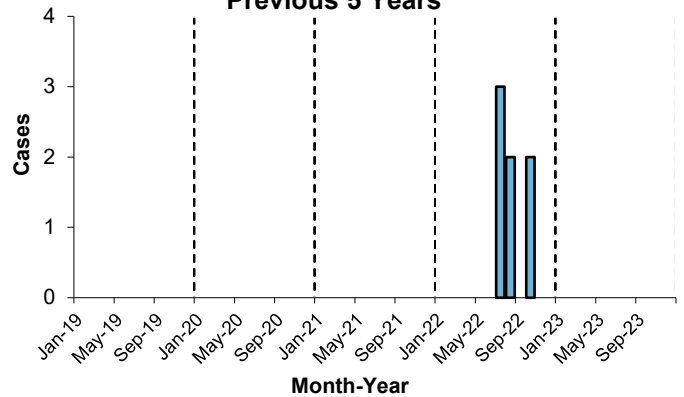
Primary, Secondary, & Early Latent Syphilis Cases per 100,000



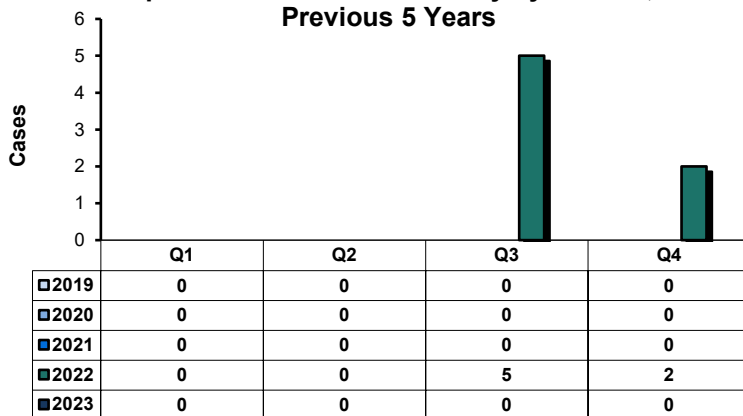
Mpox Cases in Ottawa County, Previous 5 Years



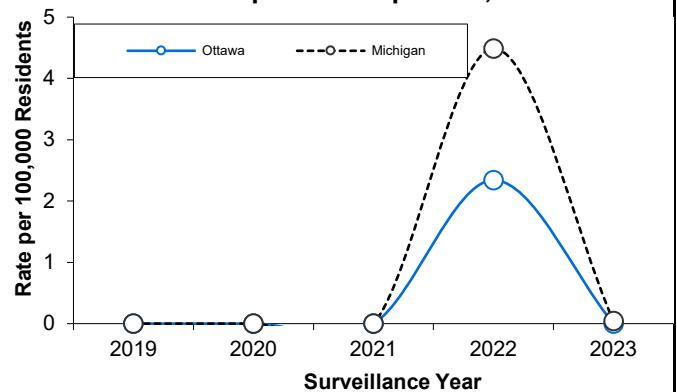
Mpox Cases in Ottawa County by Month, Previous 5 Years



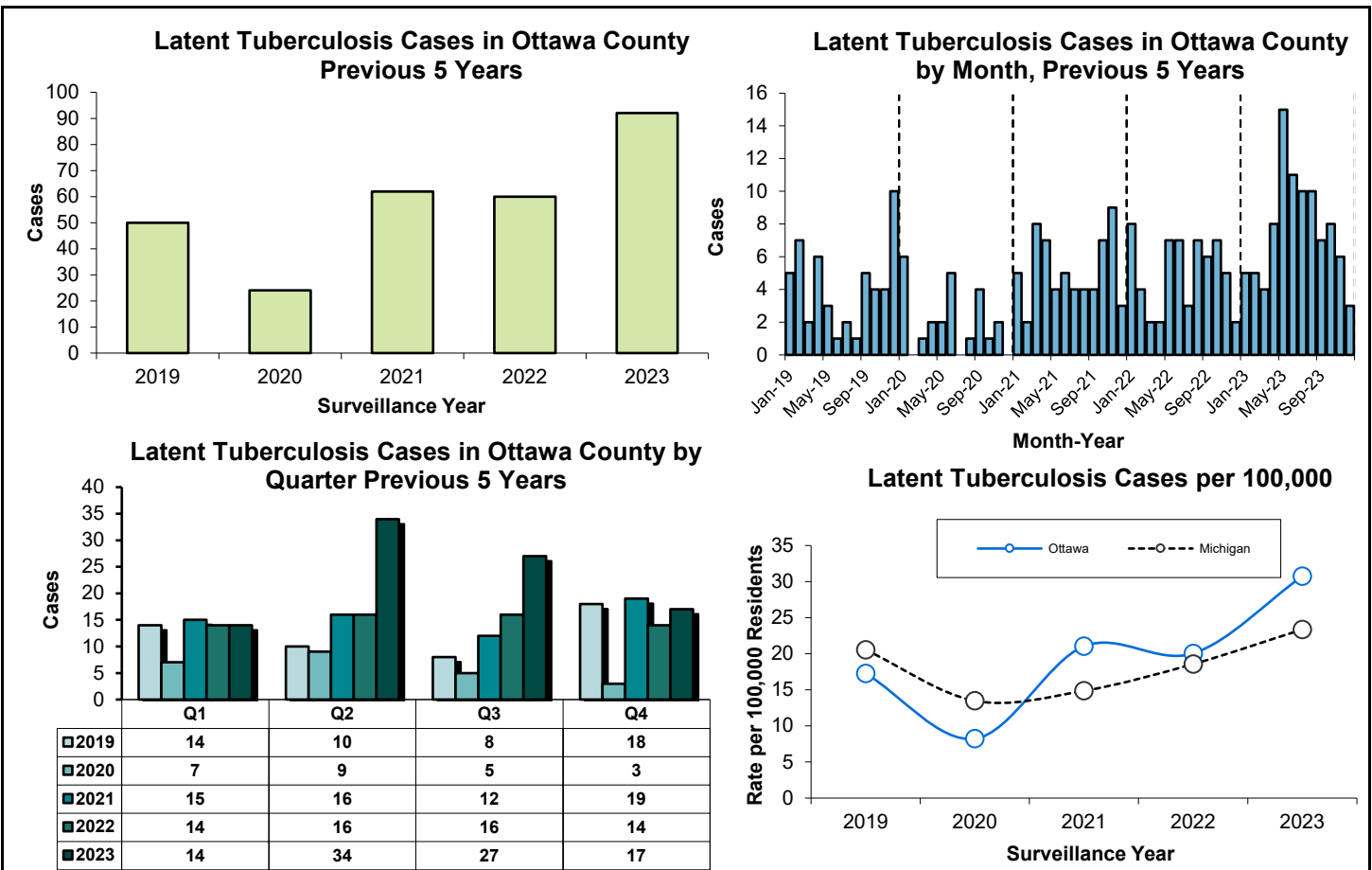
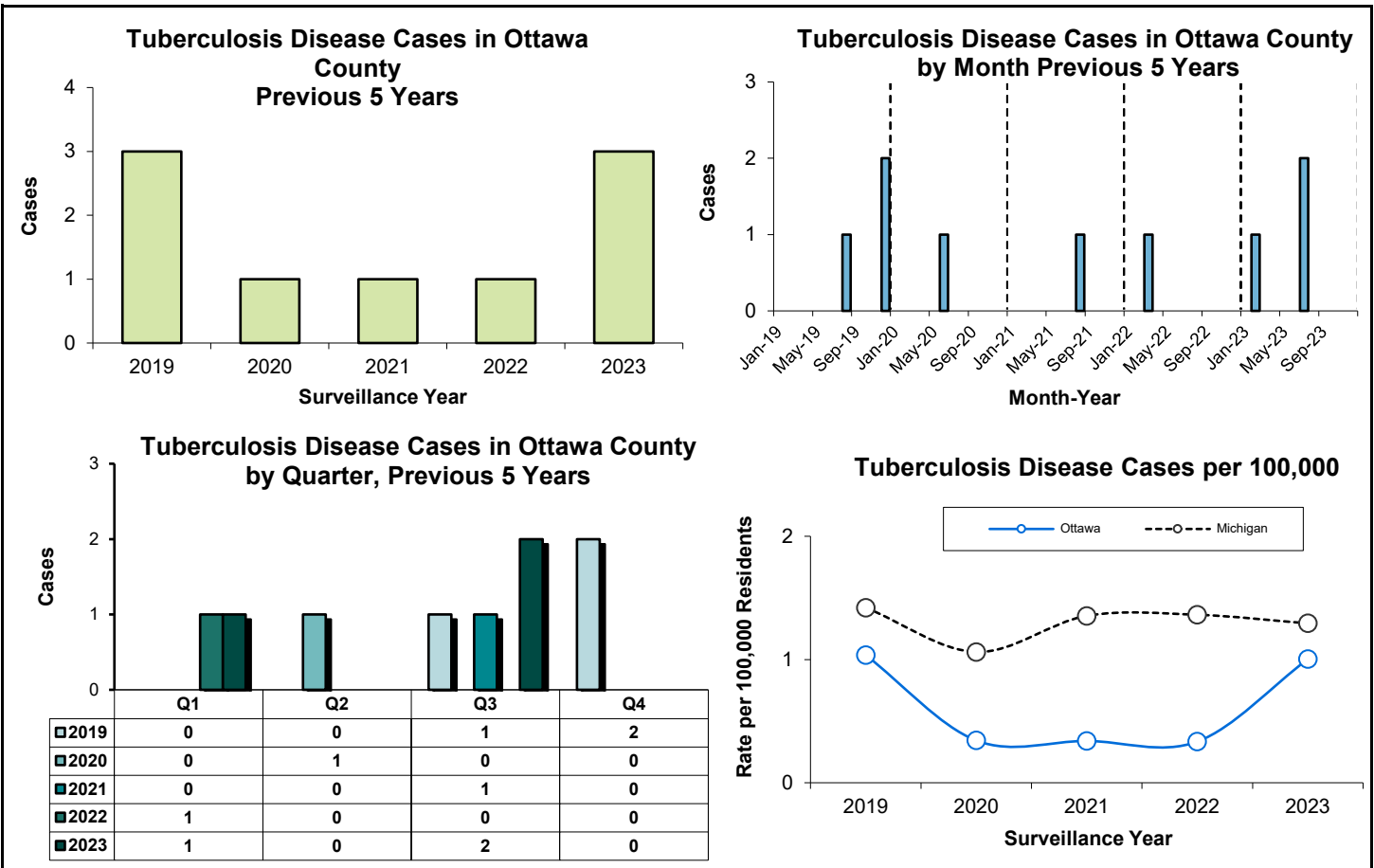
Mpox Cases in Ottawa County by Quarter, Previous 5 Years



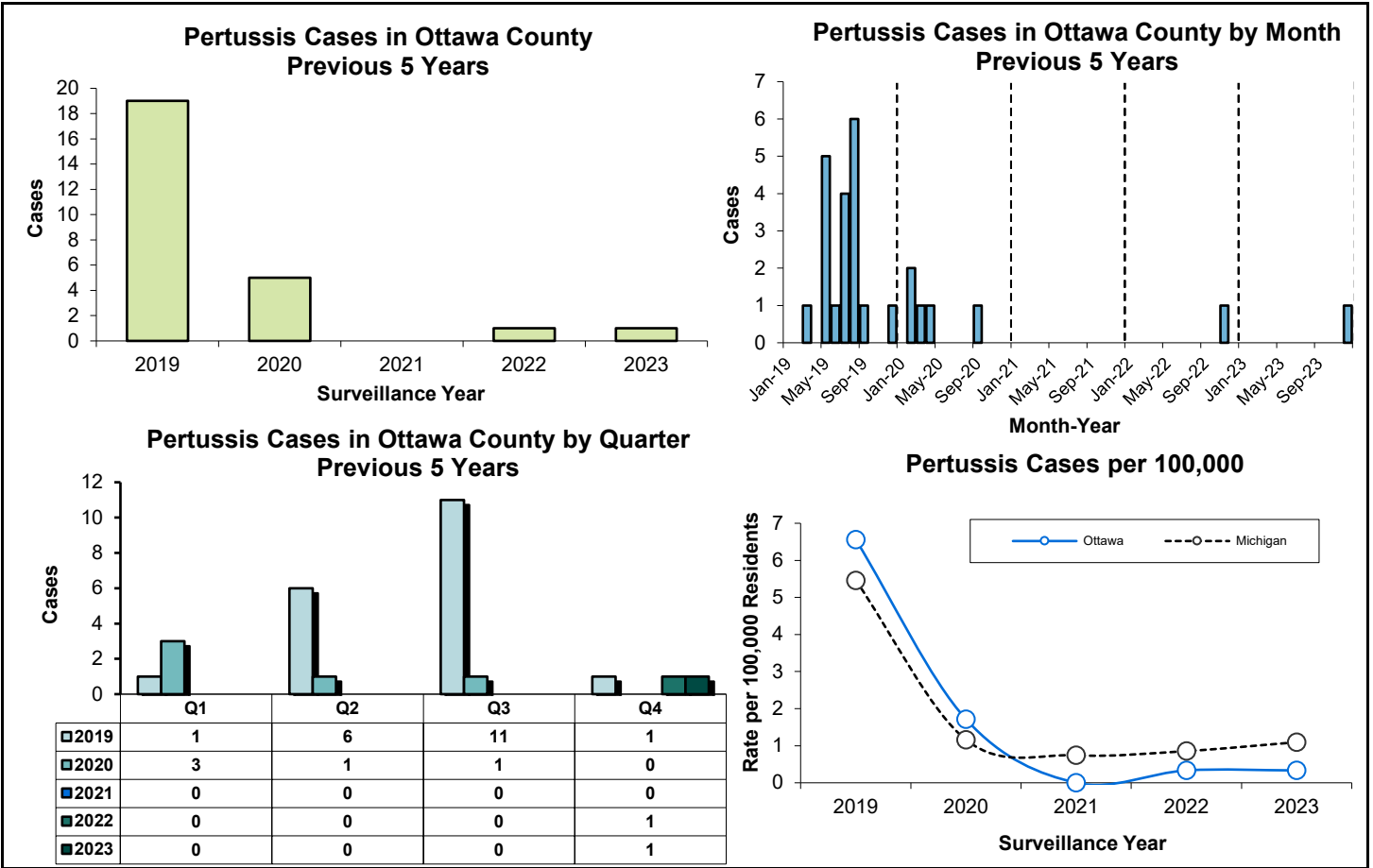
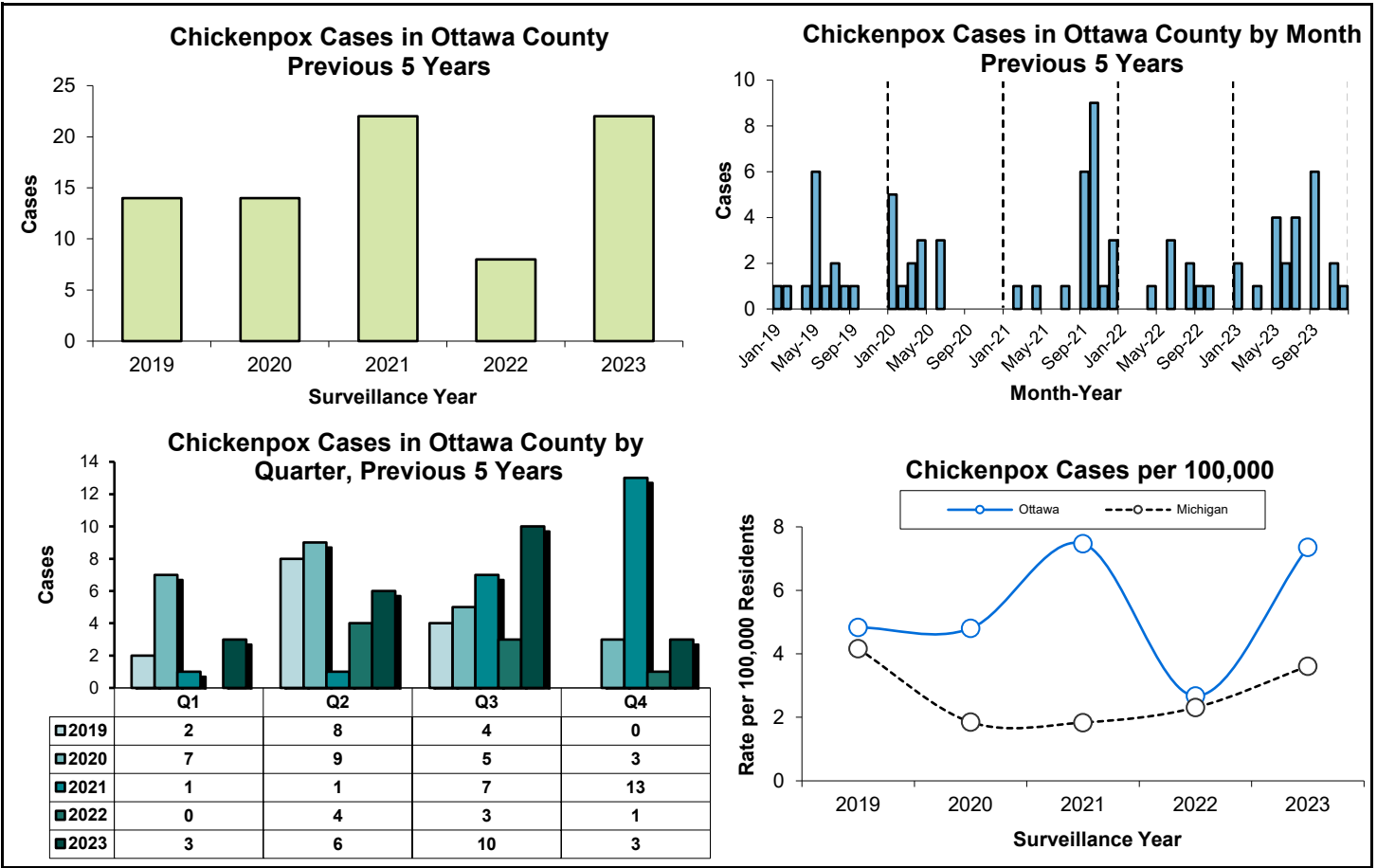
Mpox Cases per 100,000



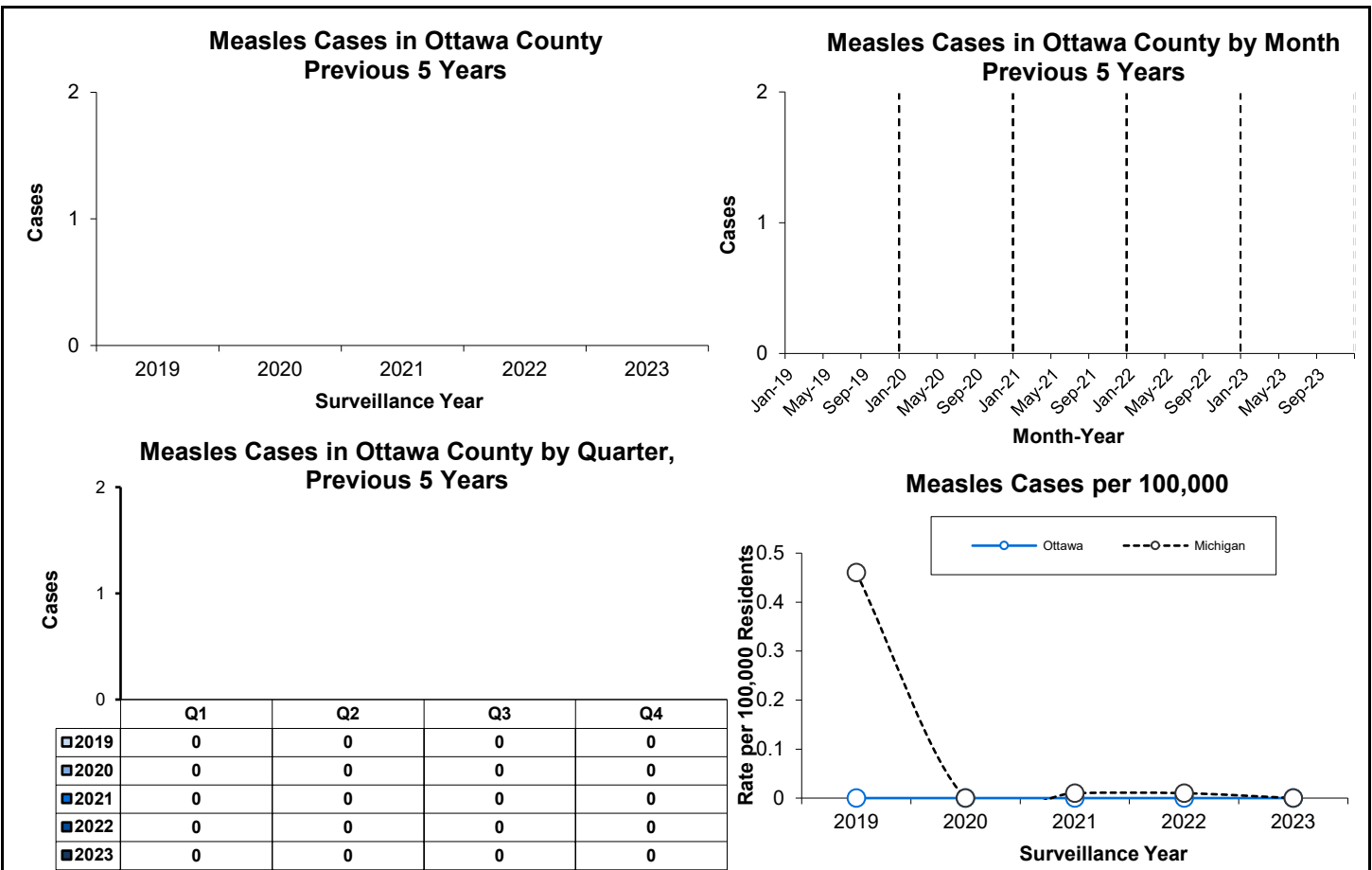
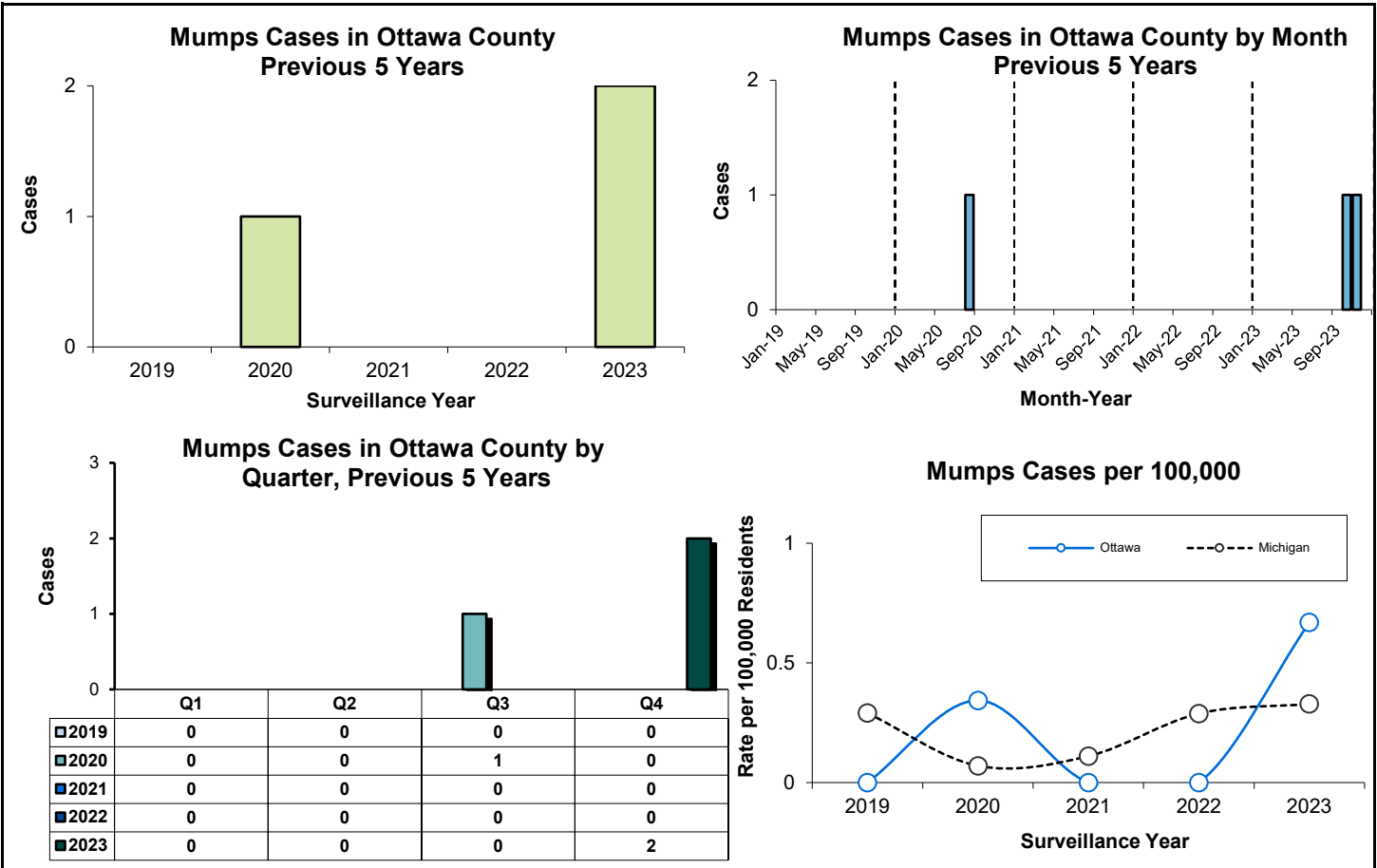
Tuberculosis:



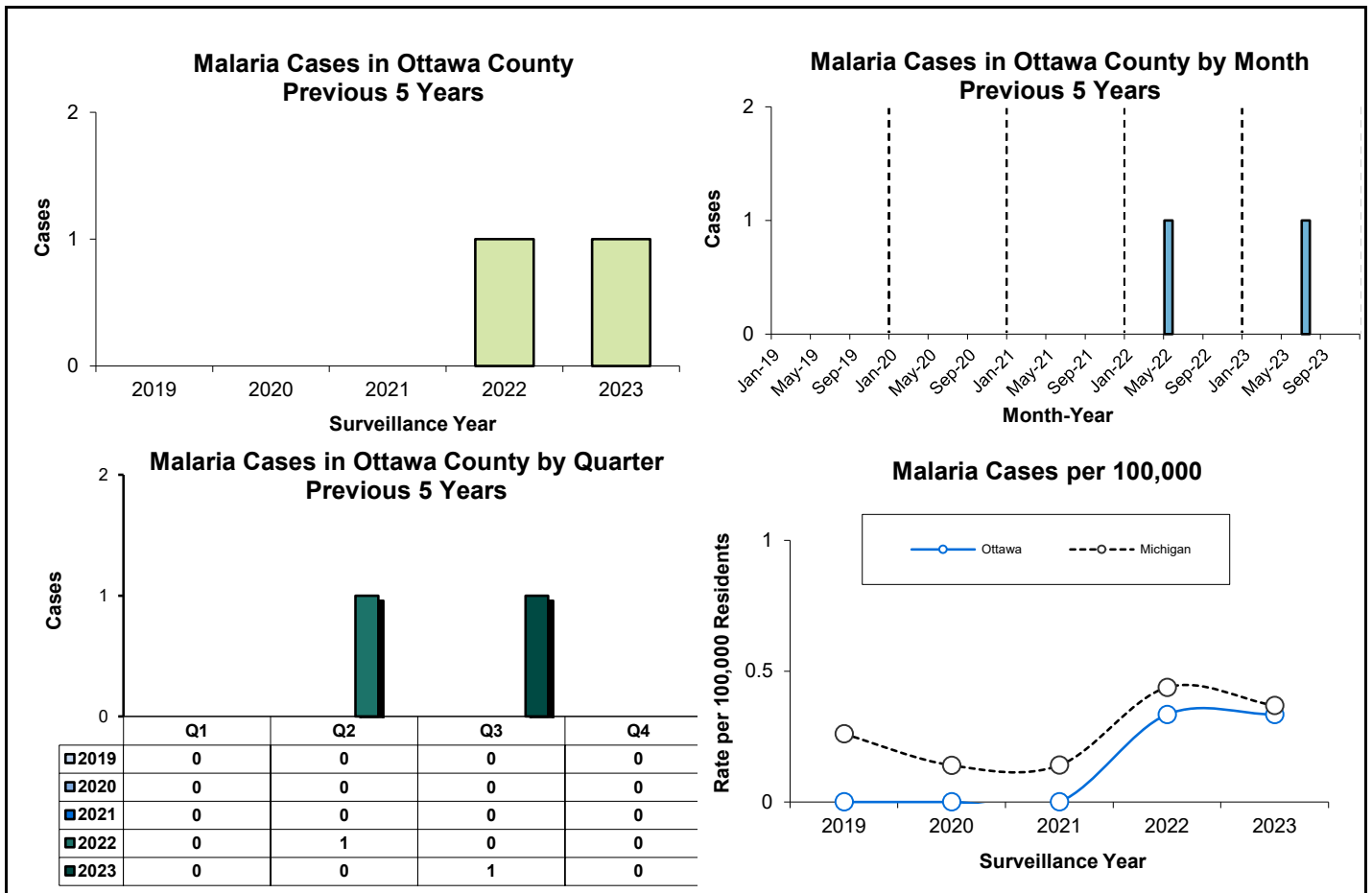
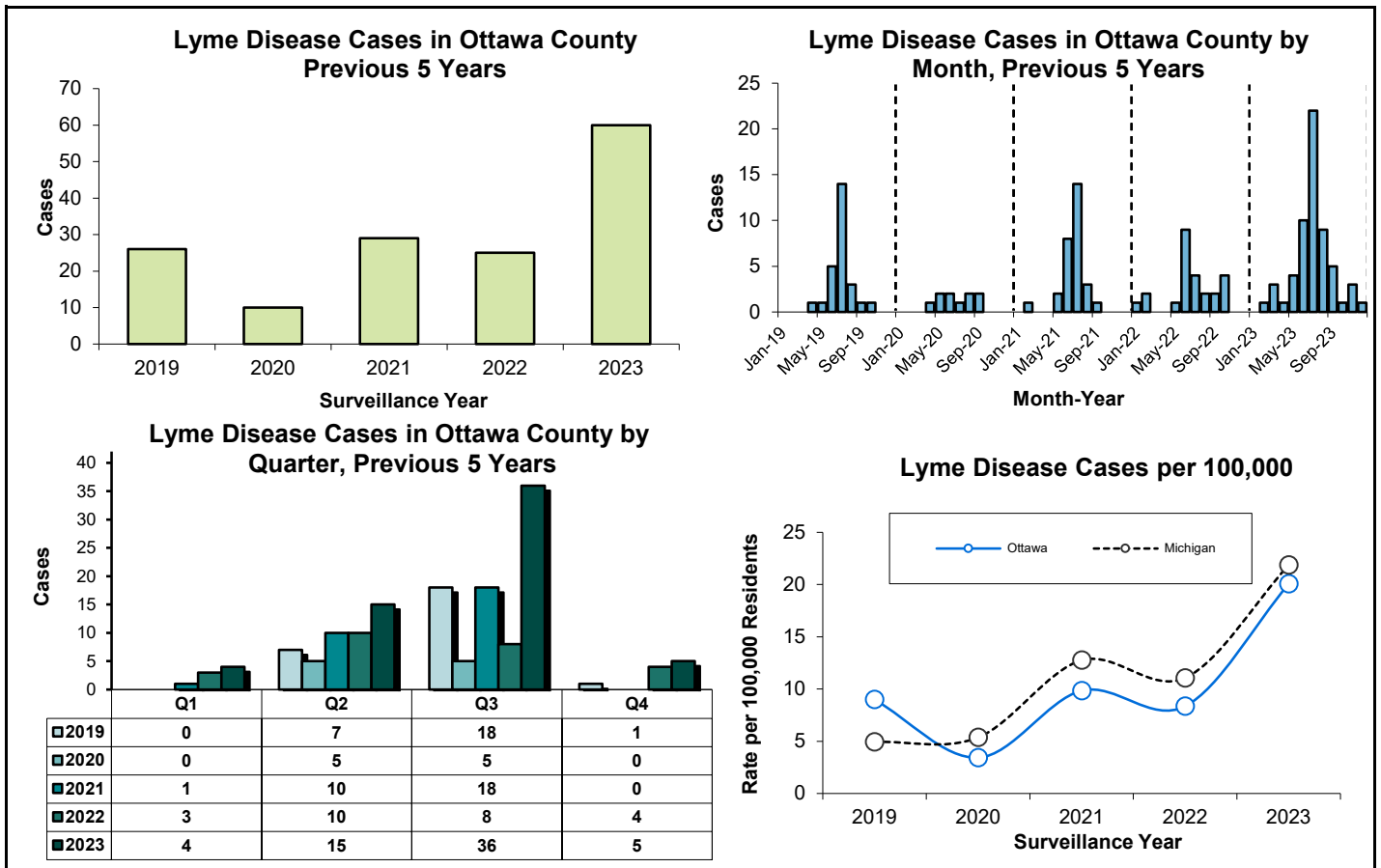
Vaccine Preventable Diseases:



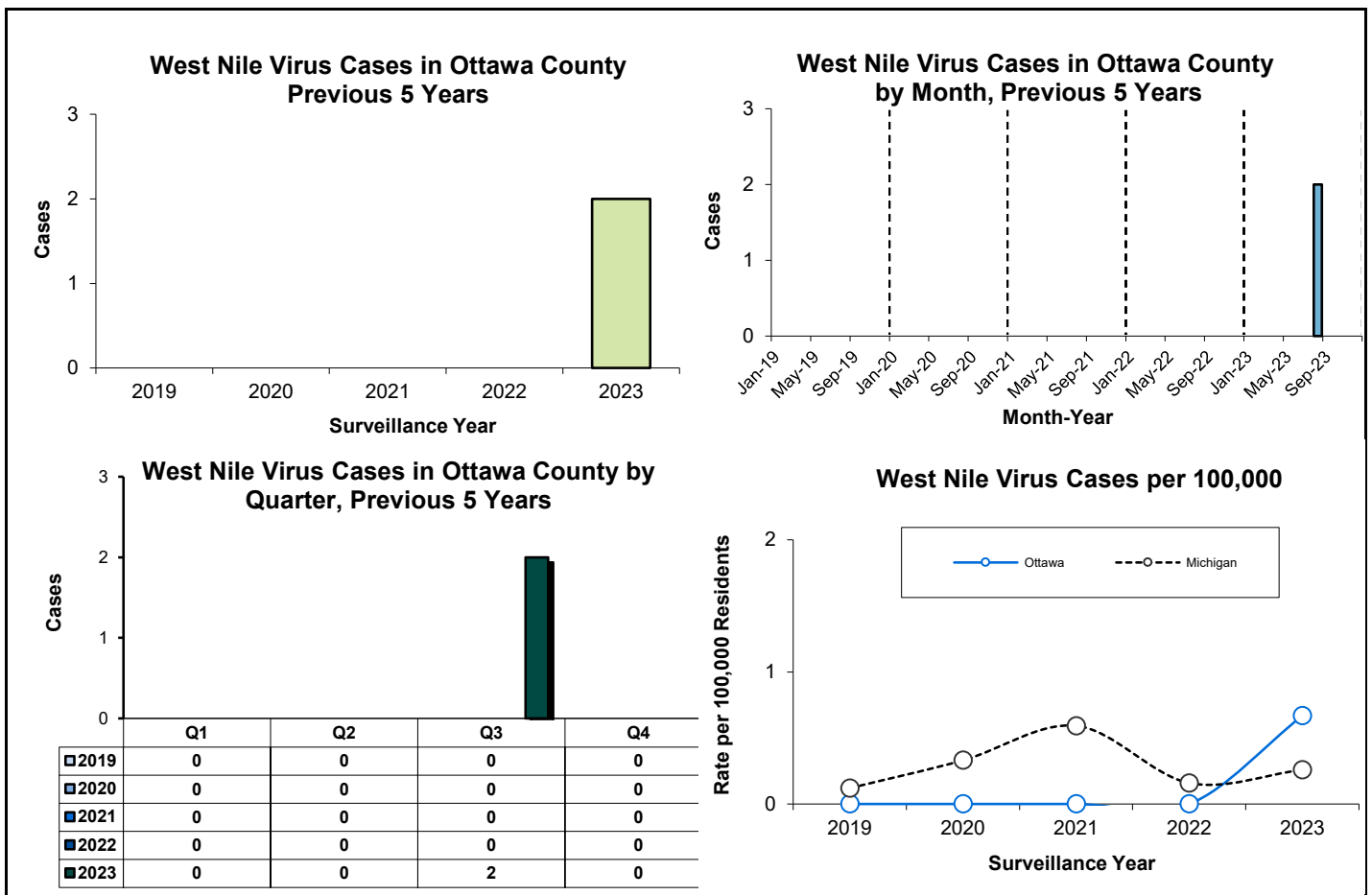
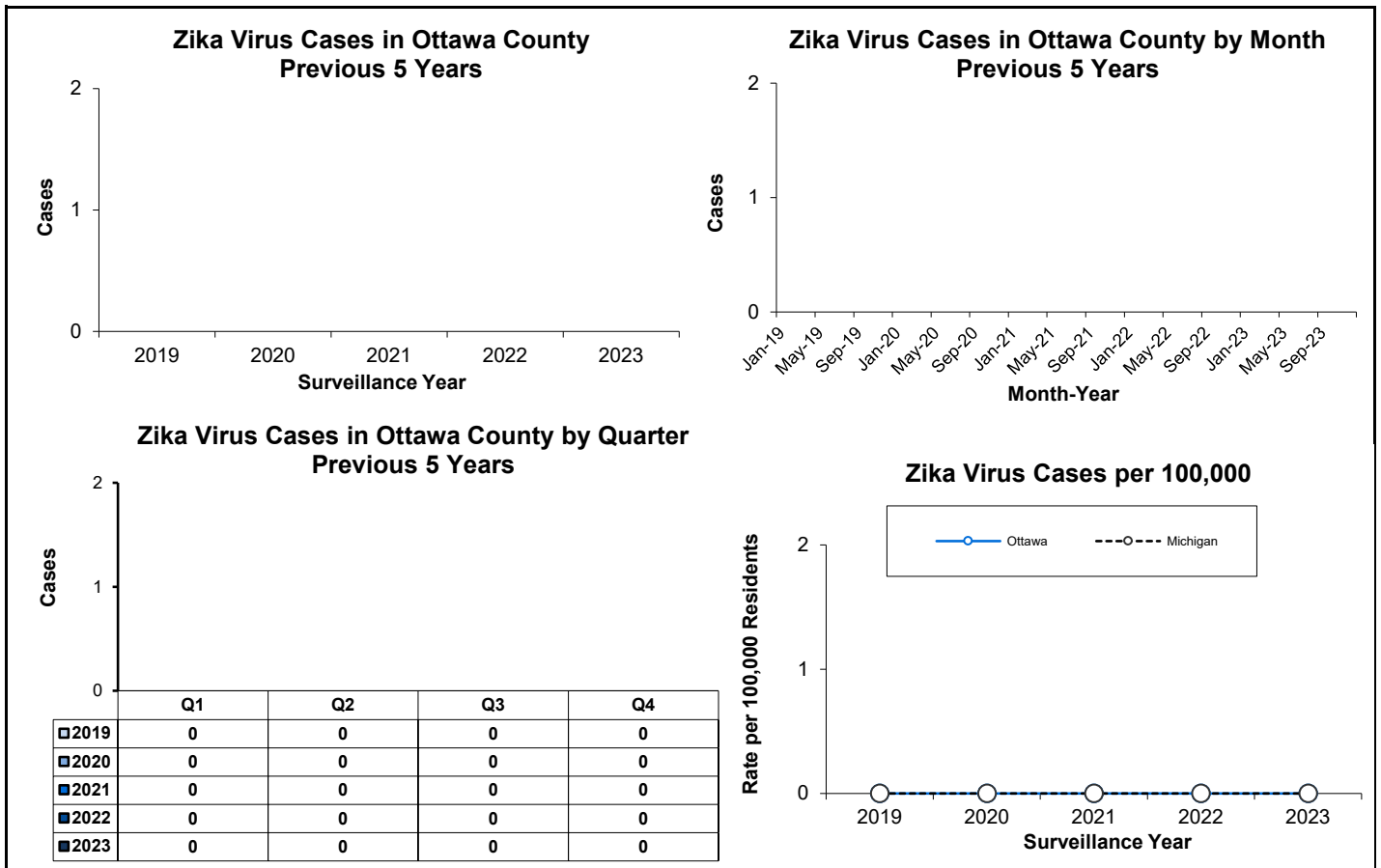
Vaccine Preventable Diseases:



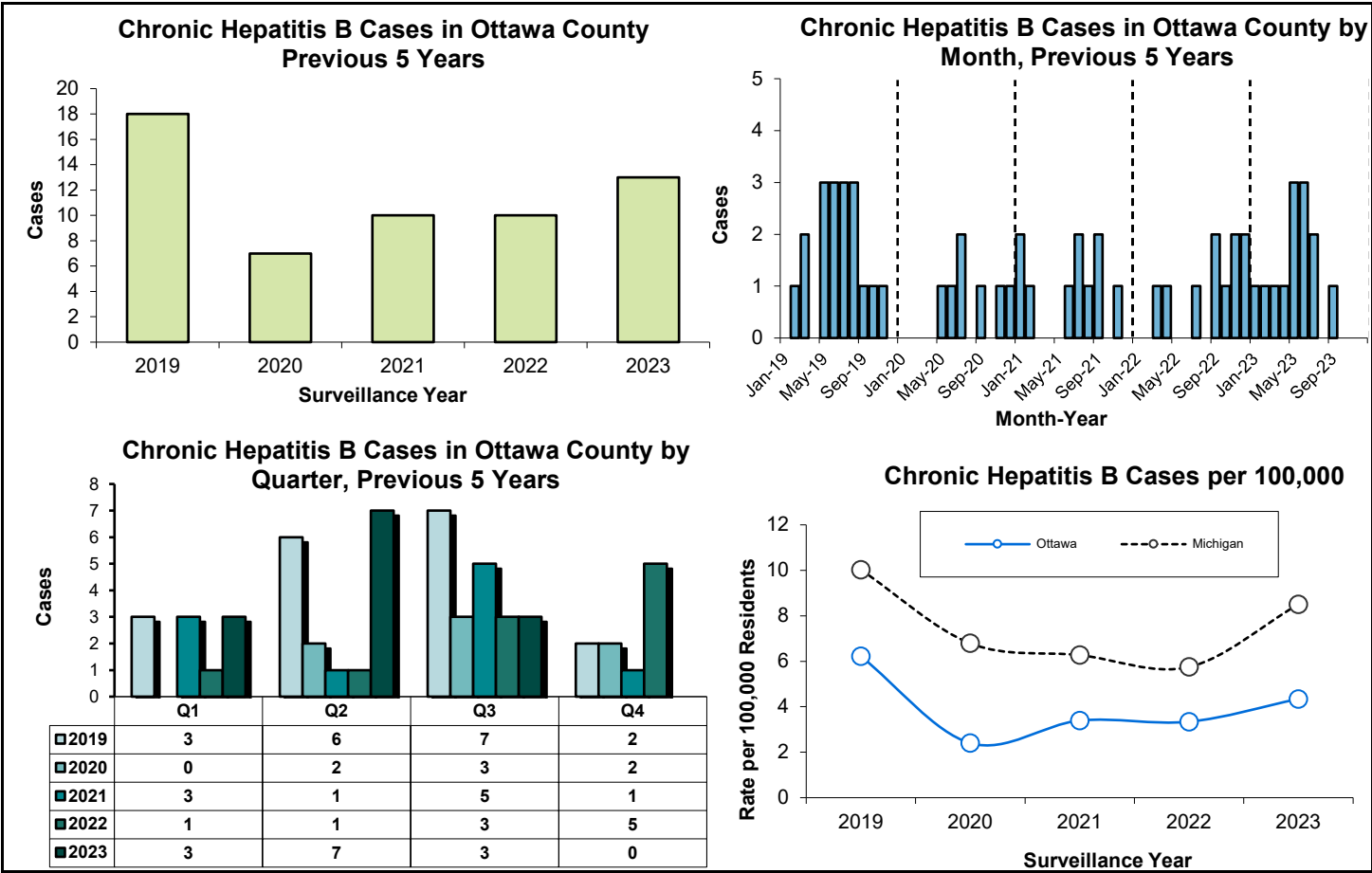
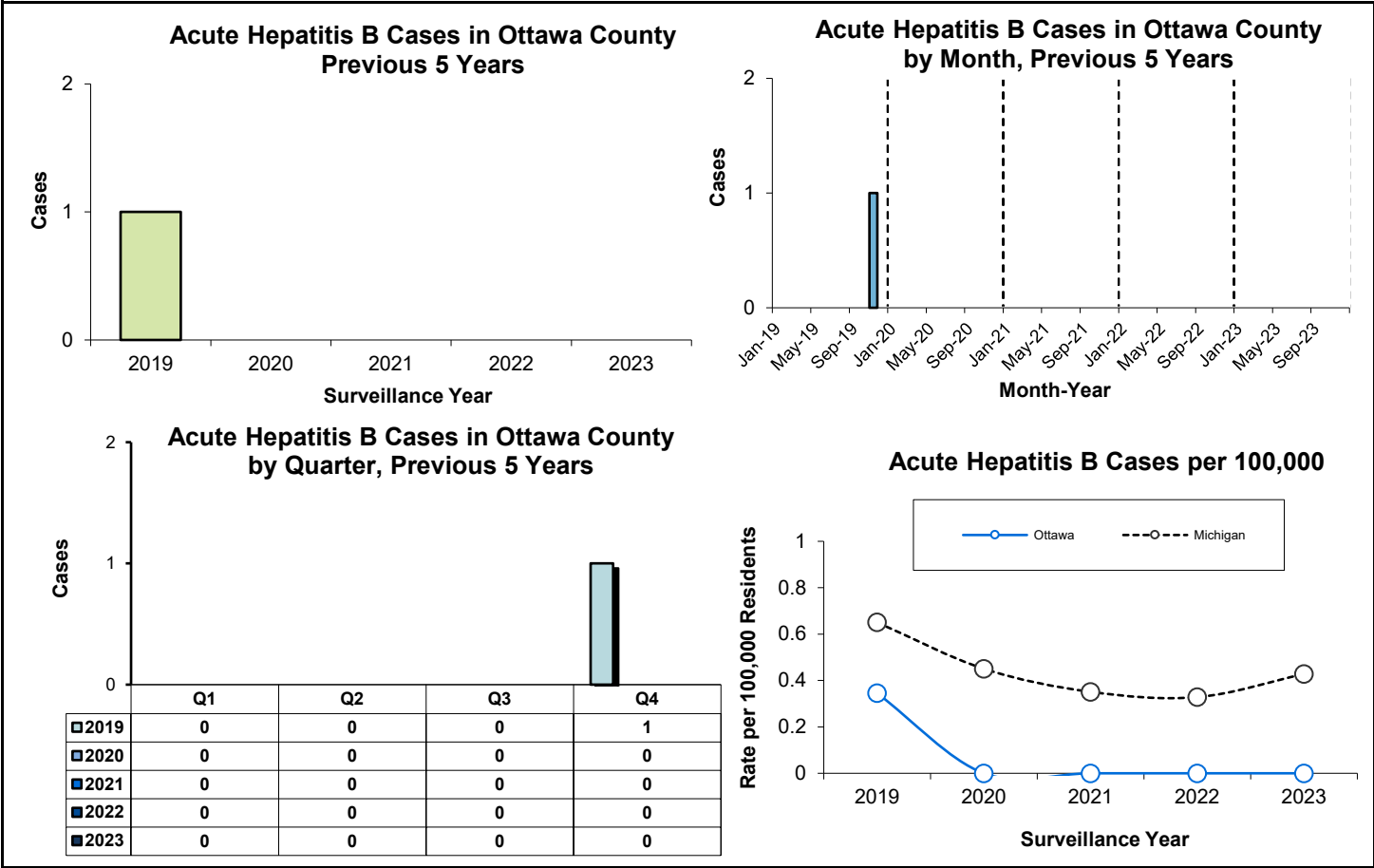
Vectorborne Diseases:



Vectorborne Diseases:

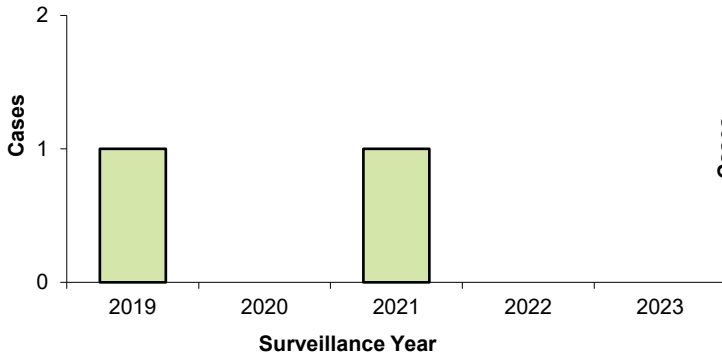


Viral Hepatitis:

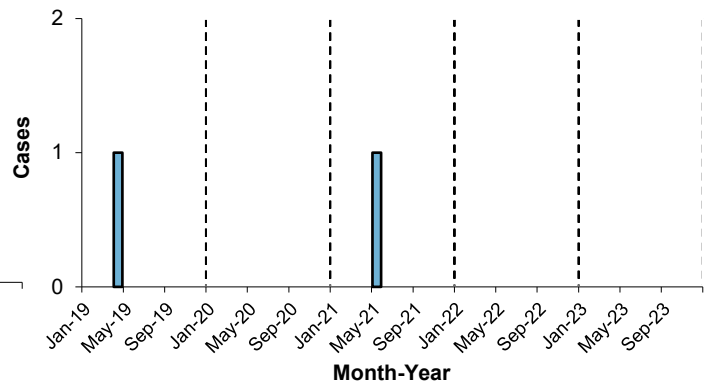


Viral Hepatitis:

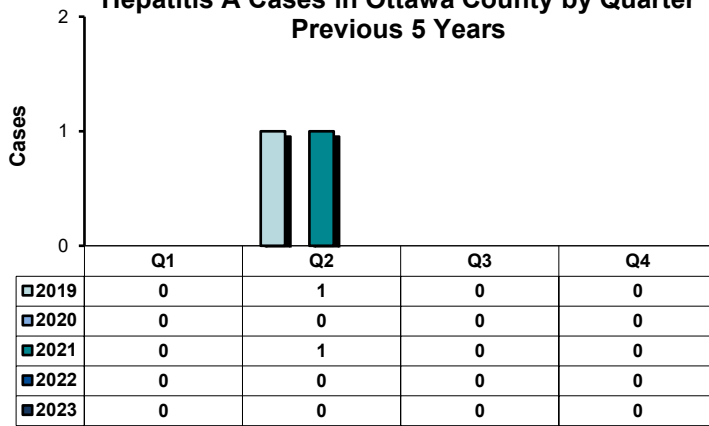
Hepatitis A Cases in Ottawa County Previous 5 Years



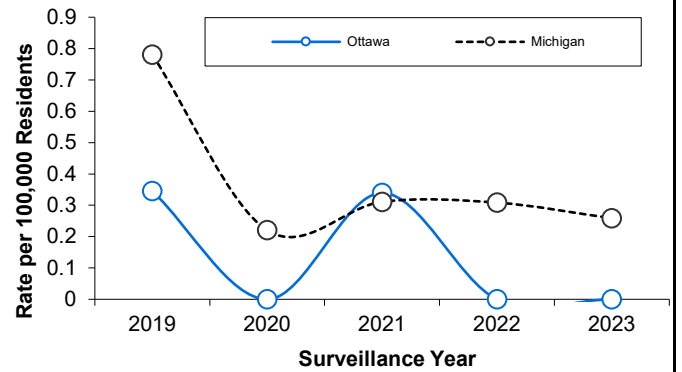
Hepatitis A Cases in Ottawa County by Month Previous 5 Years



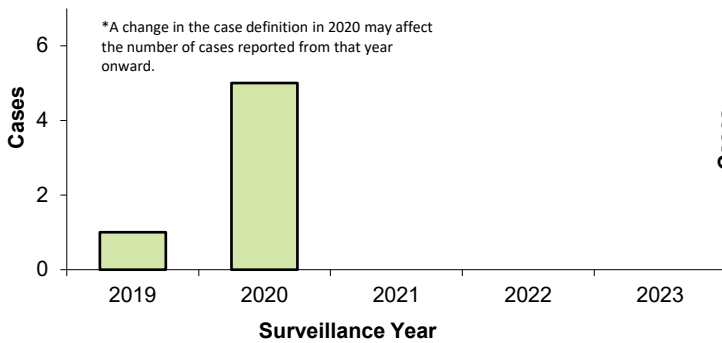
Hepatitis A Cases in Ottawa County by Quarter Previous 5 Years



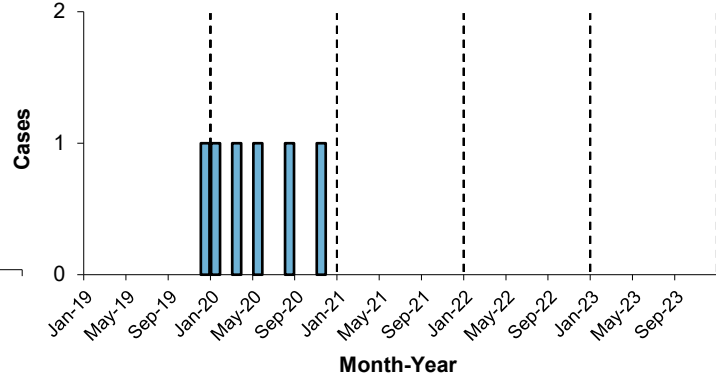
Hepatitis A Cases per 100,000



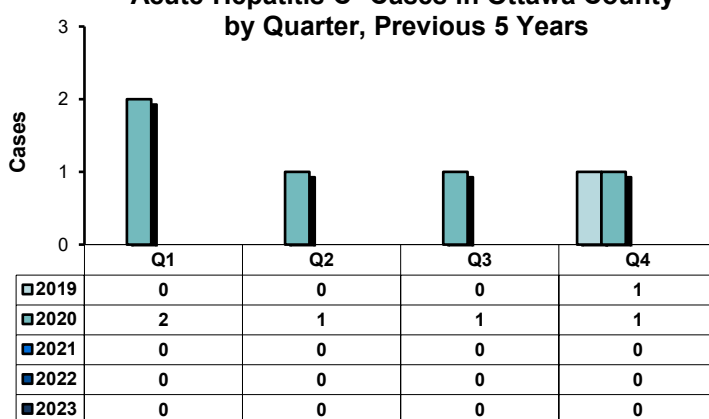
Acute Hepatitis C* Cases in Ottawa County Previous 5 Years



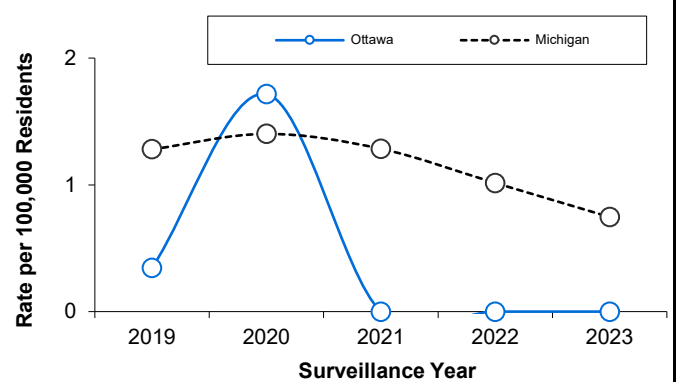
Acute Hepatitis C* Cases in Ottawa County by Month, Previous 5 Years



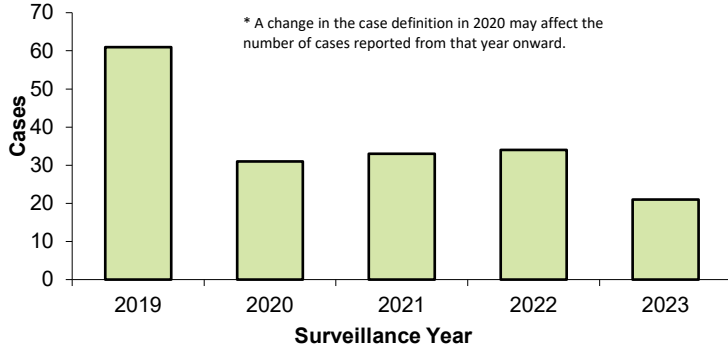
Acute Hepatitis C* Cases in Ottawa County by Quarter, Previous 5 Years



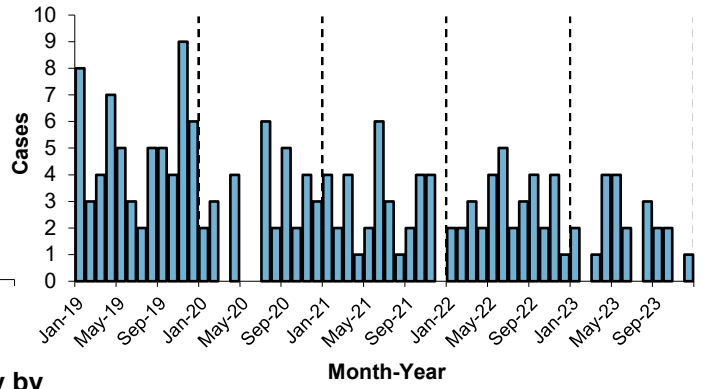
Acute Hepatitis C* Cases per 100,000



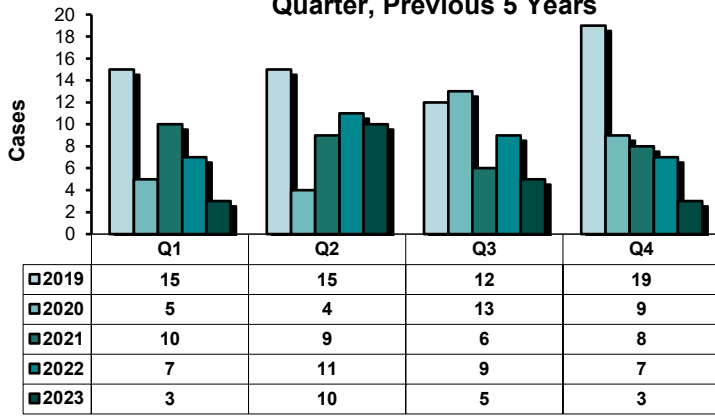
Chronic Hepatitis C* Cases in Ottawa County Previous 5 Years



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

