

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

Vaccine Preventable Diseases in Ottawa County

2023 Annual Report

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Vaccine Preventable Diseases in Ottawa County

2023

Vaccine Preventable Diseases (VPDs) are conditions caused by bacteria and viruses that can be prevented or mitigated by vaccines. This report provides a summary of fifteen select reportable VPDs in Ottawa County during 2023, many of which are reported infrequently. The Ottawa County Department of Public Health (OCDPH) tracks VPD case counts to illustrate trends over time.

Although vaccines are available for COVID-19, Influenza, and Respiratory Syncytial Virus (RSV), these diseases are not included in this report because surveillance data is available elsewhere. Visit the [Weekly Respiratory Illness Report](#) or the [Monthly Reportable Diseases Summary Report](#) for more information on these diseases specific to Ottawa County.

The fifteen VPDs included in this report are (in alphabetical order):

- | | |
|---------------------------|----------------------------|
| Congenital Rubella | Mumps |
| Chickenpox (Varicella) | Pertussis (Whooping cough) |
| Diphtheria | Pneumococcal disease |
| Hepatitis A | Polio |
| Hepatitis B (acute) | Rubella |
| H. Influenzae, serotype b | Tetanus |
| Measles | Typhoid fever |
| Meningococcal disease | |

Five-Year VPD Case Counts and Trends

Of the fifteen VPDs included in this report, eight did not have cases reported over the last five years. Table 1 shows annual counts of the selected VPD cases over the last five years (2019 to 2023). The three most reported VPDs by their 5-year average were:

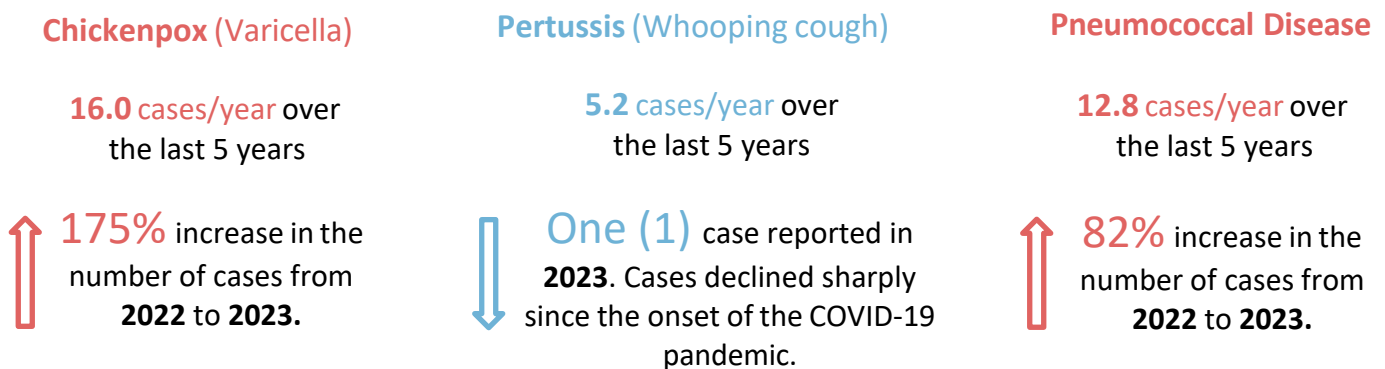


Table 1. Number of Confirmed and Probable VPD Cases, Ottawa County, 2019-2023

Vaccine Preventable Disease	2019	2020	2021	2022	2023	5-Year Total	5-Year Average
Congenital Rubella	0	0	0	0	0	0	0.0
Chickenpox (Varicella)	14	14	22	8	22	80	16.0
Diphtheria	0	0	0	0	0	0	0.0
Hepatitis A	1	0	1	0	0	2	0.4
Hepatitis B (Acute)	1	0	0	0	0	1	0.2
H. influenzae, serotype b	0	0	0	0	0	0	0.0
Measles	0	0	0	0	0	0	0.0
Meningococcal Disease	0	0	0	0	0	0	0.0
Mumps	0	1	0	0	1	2	0.4
Pertussis (Whooping cough)	19	5	0	1	1	26	5.2
Pneumococcal disease	10	8	15	11	20	64	12.8
Polio	0	0	0	0	0	0	0.0
Rubella	0	0	0	0	0	0	0.0
Tetanus	0	0	0	0	0	0	0.0
Typhoid fever	1	0	0	0	0	1	0.2

Year of Last Known Case

It is important to document the last occurrence of VPDs. Table 2 shows the year the last case was reported for select VPDs. Electronic data is available from 1984 to the present. For cases noted “Before 1984”, there may have been a case of this disease reported among Ottawa County residents prior to 1984, however this data is not currently obtainable.

Table 2. Year of Last Case Reported by VPD, Ottawa County

Vaccine Preventable Disease	Year of Last Confirmed or Probable Case Reported	Year of Last Confirmed Case Reported
Congenital Rubella	Before 1984	Unknown
Chickenpox (Varicella)	2023	2023
Diphtheria	Before 1984	Unknown
Hepatitis A	2021	2021
Hepatitis B (Acute)	2019	2019
H. influenzae, serotype b	Unknown	Unknown
Measles	1991	Unknown
Meningococcal Disease	2016	2016
Mumps	2023	2017
Pertussis (Whooping cough)	2023	2023
Pneumococcal disease	2023	2023
Polio	Before 1984	Unknown
Rubella	1994	1994
Tetanus	Before 1984	Unknown
Typhoid fever	2019	2019

Methods

Case data for this report is obtained from the Michigan Disease Surveillance System (MDSS) using the following criteria:

- Case is classified as a Confirmed or Probable case.
- Investigation status is Active, Completed, Completed Follow-up, New, or Review.
- Case counts by year are based on symptom onset date if available, otherwise referral date is used.
- Case resides in Ottawa County.

Cases are included based on the calendar year, rather than the MMWR year.

Notes

The 2023 VPD Report includes confirmed and probable cases while [complementary OCDPH surveillance reports](#) may include confirmed, probable, suspect, and/or unknown cases. For this reason, the 2023 VPD report may include fewer cases for some diseases and years compared to other OCDPH surveillance reports.

Case counts are considered preliminary and may change in future reports.

Resources

To learn more about vaccine preventable diseases, visit:

The Centers for Disease Control and Prevention

<https://www.cdc.gov/vaccines/vpd/>

The Michigan Department of Health and Human Services

<https://www.michigan.gov/mdhhs/adult-child-serv/childrenfamilies/immunization/providerinfo/surveillance/vaccine-preventable-diseases-in-michigan-annual-summaries>