

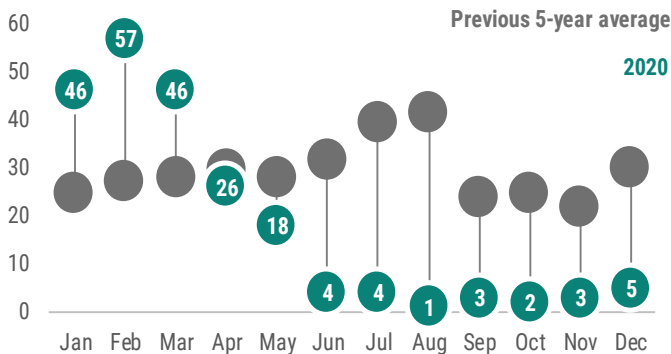
Pertussis Surveillance

2020 Yearly Summary

The COVID-19 pandemic affected health care seeking behavior, which may be impacting the diagnosis and reporting of pertussis that are shown in this report. For more information on the COVID-19 pandemic in Florida, please visit FloridaHealthCOVID-19.gov.

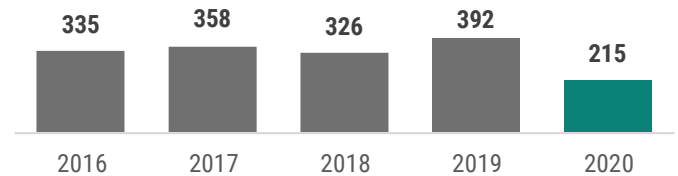
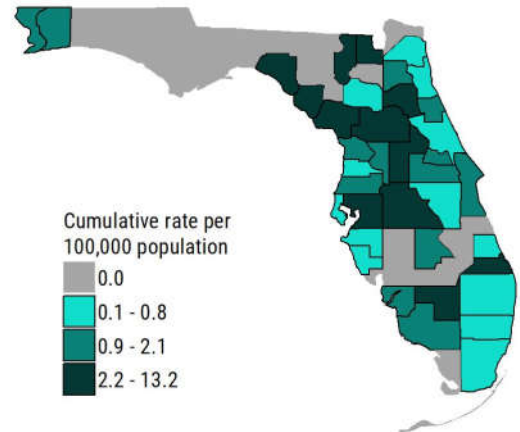


Pertussis cases decreased below the previous 5-year average in May and remained low for the duration of 2020.

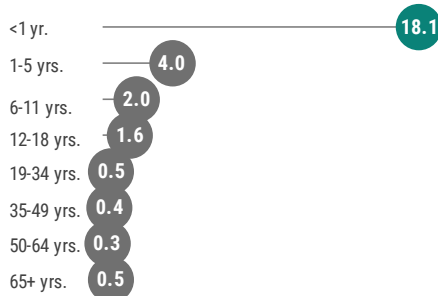


In 2020, **215 pertussis cases** were reported in **38 counties**. Compared to 2019, this was a 45% decrease in reported pertussis cases

In 2020, **Northwest Florida** reported **less pertussis cases** than other regions, while **Central Florida** had the highest cumulative incidence rates overall.



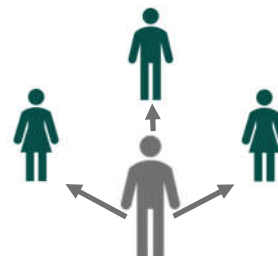
Pertussis rates were highest among infants <1 year old at 18.1 cases per 100,000 population in 2020.



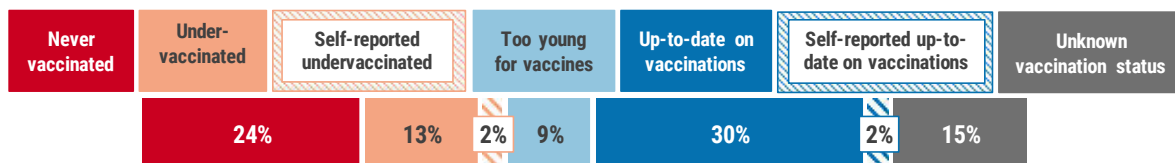
An average of 3 contacts per case in 2020 was reported. Contacts are classified as people whom antibiotics were recommended to prevent illness.

No outbreak-associated cases and **56 household-associated cases** were identified in 2020. Transmission setting was unknown for the majority of cases (n=149).

Household-associated | **Outbreak-associated** | **Total cases**



Thirty percent of reported cases were up-to-date on their vaccinations. The current pertussis childhood immunization recommendation would not have been implemented for people born before November 1, 1982. Based on age, **47 cases would not have been vaccinated under the current childhood immunization recommendation.**



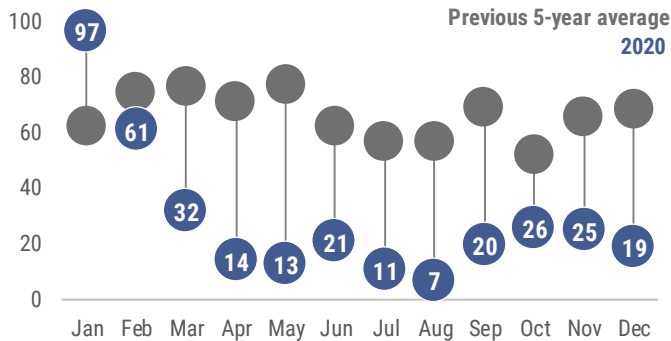
Varicella Surveillance

2020 Yearly Summary

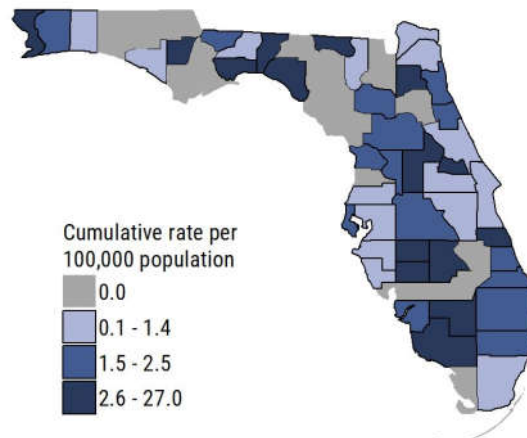
The COVID-19 pandemic affected health care seeking behavior, which may be impacting the diagnosis and reporting of varicella that are shown in this report. For more information on the COVID-19 pandemic in Florida, please visit FloridaHealthCOVID-19.gov.



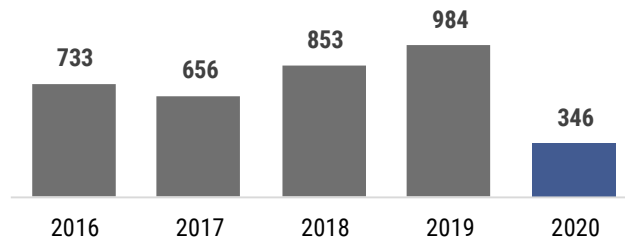
Varicella cases decreased below the previous 5-year average in February and remained low for the duration of 2020.



In 2020, varicella cases were reported throughout the state while South Florida had higher cumulative incidence rates compared to other regions.

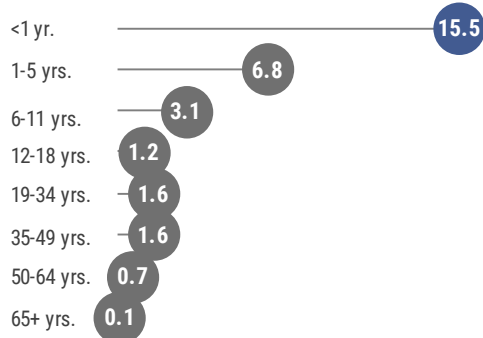


In 2020, 346 varicella cases were reported in 45 counties. Compared to 2019, this was a 65% decrease in reported varicella cases

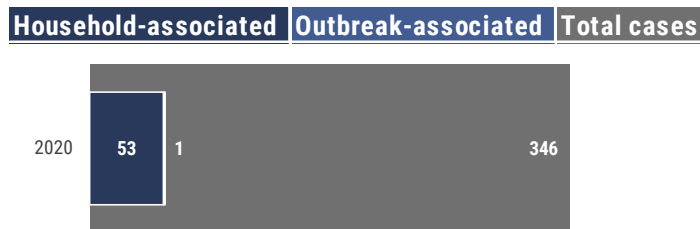


Sixty-one varicella cases reported having contact with someone diagnosed with shingles during their exposure period in 2020.

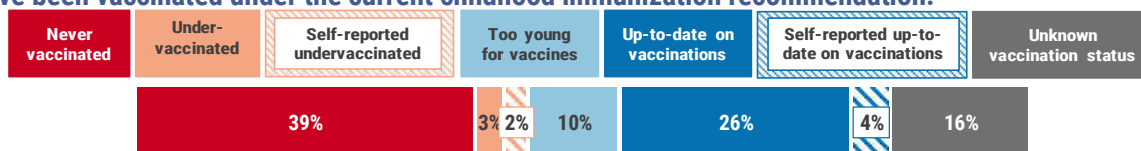
Varicella rates were highest among infants <1 year old at 15.5 cases per 100,000 population in 2020.



One outbreak-associated case and 53 household-associated cases were identified in 2020. Transmission setting was unknown for the majority of cases (n=210).



Thirty-nine percent of reported cases were never vaccinated. The current varicella childhood immunization recommendation would not have been implemented for people born before July 1, 1994. Based on age, 146 cases would not have been vaccinated under the current childhood immunization recommendation.



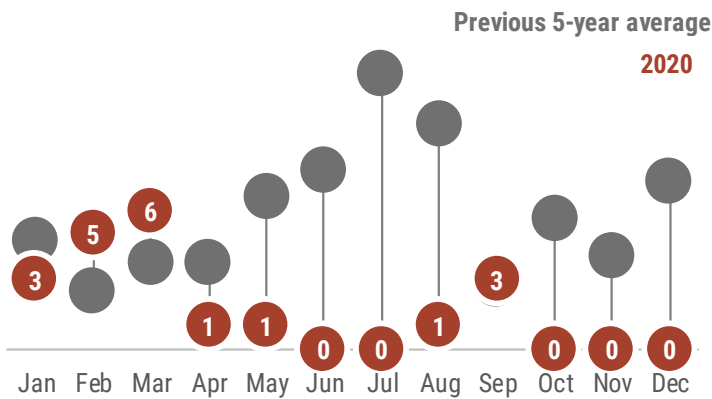
Mumps Surveillance

2020 Yearly Summary

The COVID-19 pandemic affected health care seeking behavior, which may be impacting the diagnosis and reporting of mumps that are shown in this report. For more information on the COVID-19 pandemic in Florida, please visit [FloridaHealthCOVID-19.gov](https://www.floridahealth.gov/covid-19).

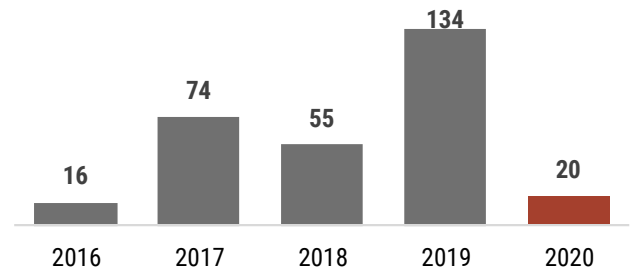
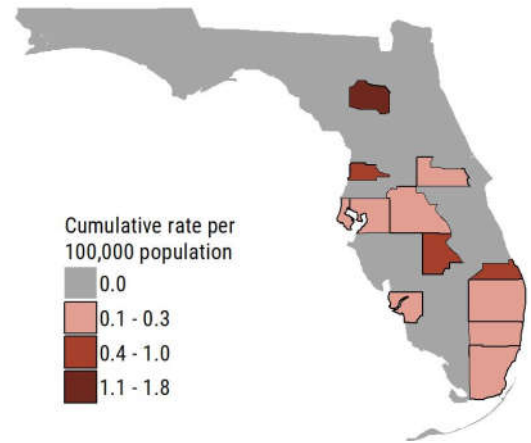


Mumps cases decreased below the previous 5-year average in April and remained low for the duration of 2020.

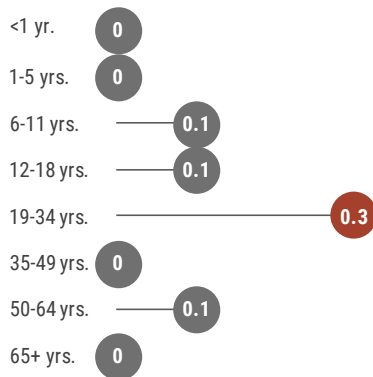


In 2020, **20 mumps cases** were reported in 12 counties. Compared to 2019, this was a 85% decrease in reported mumps cases.

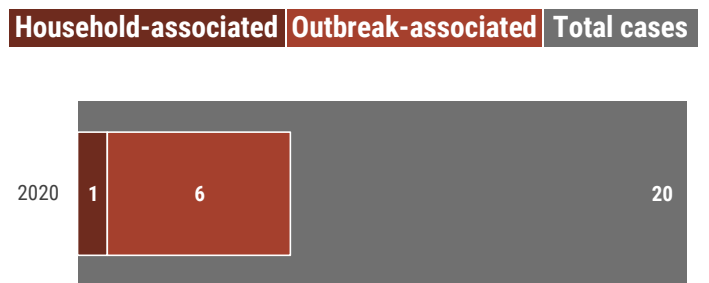
In 2020, **Northwest Florida** did not report any mumps cases while **Alachua county** had the highest cumulative incidence rate.



Mumps rates were highest among **19-34 years old** at **0.3 cases** per 100,000 population in 2020.



Seven outbreak-associated cases and **13 household-associated cases** were identified in 2020. **Transmission setting** was college or school for **35%** of cases and unknown for the remaining cases reported.



The **majority of mumps cases** in 2020 were not up-to-date on vaccinations or had unknown vaccination status. Vaccination is the best way to prevent mumps infections.



Laboratory Surveillance

2020 Yearly Summary

The COVID-19 pandemic affected health care seeking behavior, which may be impacting laboratory testing for pertussis and varicella that are shown in this report. For more information on the COVID-19 pandemic in Florida, please visit [FloridaHealthCOVID-19.gov](https://www.floridahealth.gov/covid-19).



	Pertussis			Varicella				Pertussis			Varicella		
	Positive	Negative	Total	Positive	Negative	Total		Positive	Negative	Total	Positive	Negative	Total
Alachua	2	3	5	19	0	19	Lee	3	69	72	30	0	30
Baker	1	0	1	0	0	0	Leon	0	1	1	16	9	25
Bay	0	69	69	2	0	2	Levy	1	0	1	5	0	5
Bradford	0	1	1	0	0	0	Liberty	0	0	0	0	1	1
Brevard	6	9	15	0	13	13	Madison	0	0	0	0	1	1
Broward	11	143	154	34	11	45	Manatee	1	192	193	7	5	12
Calhoun	0	4	4	0	0	0	Marion	8	7	15	15	0	15
Charlotte	0	38	38	3	1	4	Martin	5	10	15	6	0	6
Citrus	4	30	34	5	0	5	Miami-Dade	14	421	435	34	46	80
Clay	1	3	4	9	1	10	Monroe	1	1	2	0	0	0
Collier	5	18	23	14	0	14	Nassau	0	0	0	4	0	4
Columbia	2	0	2	0	0	0	Okaloosa	1	4	5	2	0	2
Desoto	0	5	5	2	0	2	Okeechobee	0	10	10	0	0	0
Dixie	2	0	2	0	0	0	Orange	18	22	40	76	1	77
Duval	6	6	12	56	2	58	Osceola	1	7	8	6	0	6
Escambia	8	4	12	5	0	5	Palm Beach	14	92	106	64	77	141
Flagler	1	1	2	1	0	1	Pasco	11	315	326	25	5	30
Franklin	0	0	0	2	0	2	Pinellas	8	620	628	52	15	67
Gadsden	0	0	0	0	3	3	Polk	13	173	186	31	2	33
Gilchrist	0	1	1	0	0	0	Putnam	2	2	4	1	0	1
Glades	0	1	1	0	0	0	Santa Rosa	2	1	3	2	0	2
Gulf	0	6	6	0	0	0	Sarasota	2	100	102	3	0	3
Hamilton	0	0	0	0	0	0	Seminole	7	13	20	15	0	15
Hardee	0	7	7	1	0	1	St. Johns	1	2	3	15	0	15
Hendry	1	5	6	2	0	2	St. Lucie	1	61	62	6	3	9
Hernando	1	85	86	0	0	0	Sumter	2	12	14	2	0	2
Highlands	3	23	26	2	0	2	Suwannee	0	0	0	1	0	1
Hillsborough	19	5,660	5,679	81	4	85	Taylor	2	0	2	0	0	0
Holmes	0	4	4	0	0	0	Union	0	0	0	0	0	0
Indian River	0	11	11	6	0	6	Volusia	5	5	10	19	0	19
Jackson	0	6	6	0	2	2	Wakulla	0	0	0	0	0	0
Jefferson	0	0	0	0	1	1	Walton	0	0	0	1	0	1
Lafayette	0	0	0	1	0	1	Washington	0	4	4	0	0	0
Lake	19	16	35	6	0	6	State	0	2	2	0	2	2

Data represents laboratory positive and negative test results, regardless of case classification for pertussis and varicella infections. Test types included are cultures, direct fluorescent antibody (varicella only), and polymerase chain reactions (PCR).

Vaccine-Preventable Diseases Surveillance System Summary

Case Data

- Current case data are preliminary and will change as new information is gathered. The most recent data available are displayed in this report.
- Pertussis, varicella, and mumps are reportable diseases in Florida. Case information is documented by county health department (CHD) epidemiologists in Merlin, Florida's reportable disease surveillance system.
- Only Florida residents are included in case counts, but contact investigations are conducted for all exposed individuals.
 - Pertussis, varicella, and mumps case counts include both confirmed and probable cases.
- Map counts and rates are determined by the individual's county of residence; these data do not take into account location of exposure.
- CHD epidemiologists also report outbreaks of pertussis, varicella, and mumps into Merlin.
 - Household-associated cases are defined as ≥ 2 cases exposed within the same household.
 - Pertussis and mumps outbreaks are defined as ≥ 2 cases associated with a specific setting outside of a household.
 - Varicella outbreaks are defined as ≥ 5 cases associated with a specific setting outside of a household.
- For more information about reportable diseases, please visit [FloridaHealth.gov/DiseaseReporting](https://www.floridahealth.gov/DiseaseReporting).
- For more information about Florida's guides to surveillance and investigation, including disease-specific surveillance case definitions, please visit [FloridaHealth.gov/GSI](https://www.floridahealth.gov/GSI).

Population Data

- Population data used to calculate incidence rates are from FLHealthCHARTS (Community Health Assessment Resource Tool Set).
- For more information about FLHealthCHARTS, please visit [FLHealthCharts.com](https://www.flhealthcharts.com).

Vaccination Data

- Vaccination data for identified cases are from Merlin, as documented by CHD staff.
- Vaccination status is determined using the Advisory Committee on Immunization Practices Recommended Immunization Schedule for Children and Adolescents Aged 18 Years or Younger, 2020.
- For more information about immunization schedules, please visit [www.CDC.gov/Vaccines/Schedules/index.html](https://www.cdc.gov/Vaccines/Schedules/index.html).
- Individuals are considered up-to-date on vaccinations if they have received the recommended number of doses of vaccine for a particular disease for their age at the time of their illness onset. Individuals are considered under-vaccinated if they have received at least one but not all doses of vaccine recommended for a particular disease for their age at the time of their illness onset.