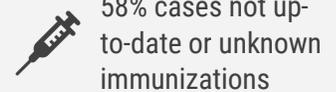
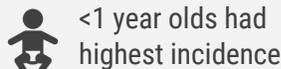


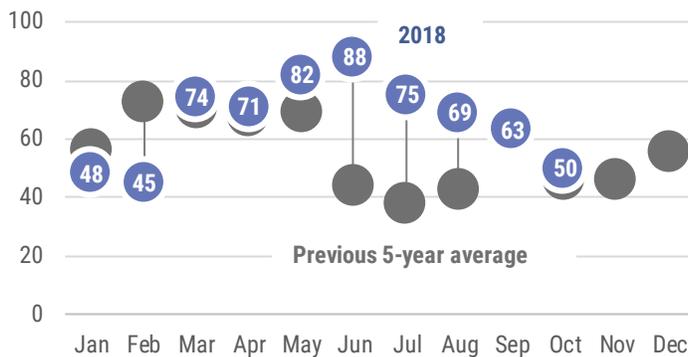
Varicella Surveillance

October 2018

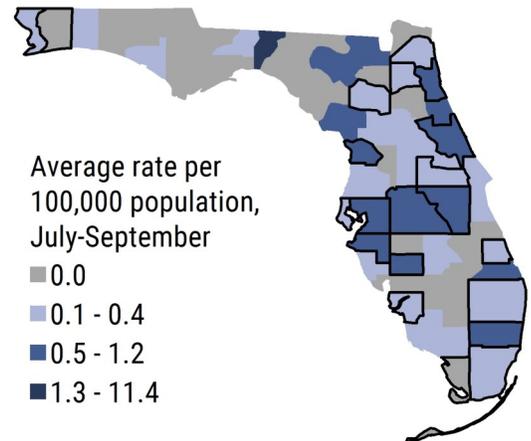
Key Points



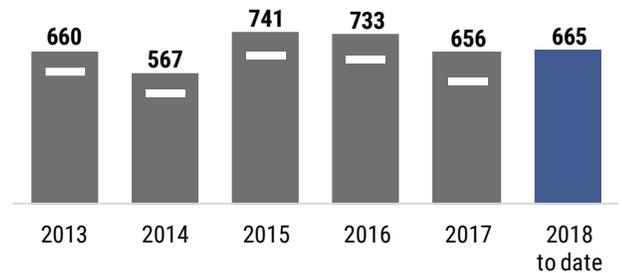
The number of varicella cases reported in October decreased from last month and was similar to the previous 5-year average. In general, more varicella cases are reported during the late winter and summer months.



The 50 varicella cases in October were reported among the 21 counties outlined in black. During the previous 3 months (July through September), the average county rate varied throughout the state.



From January 1, 2018 through October 31, 2018, 665 varicella cases were reported in 51 counties. The number of cases as of October 31st in previous years are marked by the white bars for 2013-2017. The annual number of reported varicella cases decreased from 2015 to 2017. Thus far in 2018, case counts are slightly above the total number of cases last year.



In October, 8 (16%) of 50 total cases were associated with transmission within households and 4 (8%) cases were outbreak-associated. For most varicella cases, exposure to other known cases is never identified, and they are not able to be linked to outbreaks.

Household-associated | Outbreak-associated | Total cases

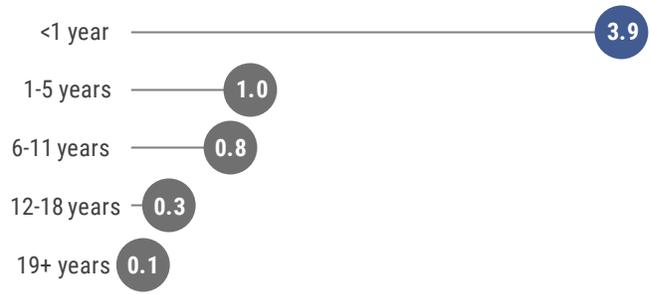


One varicella outbreak was reported in October. This outbreak was reported in a school in Manatee county and to date, consists of 4 cases.

Seven total varicella outbreaks reported in 2018, all of which occurred in schools (3 outbreaks) or correctional facilities (4 outbreaks).



In October, the varicella rate was highest among infants <1 year old at **3.9 cases** per 100,000 population, which is consistent with previous months. Infants <1 year old are too young to receive varicella vaccination, which is why vaccination of siblings, parents, grandparents, and other age groups is so important to help prevent infection in infants.

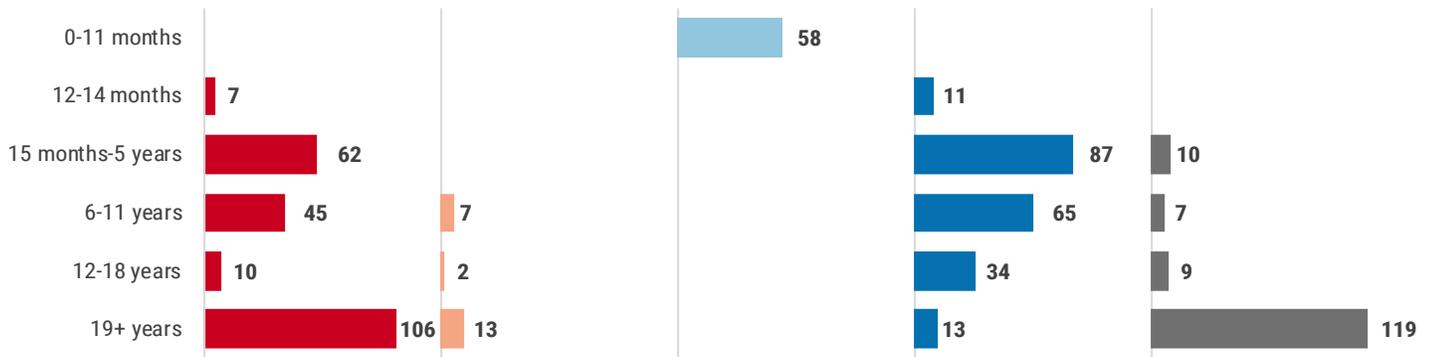


Vaccination is the best way to prevent varicella infections. In October, over half of individuals reported with varicella had not received the recommended number of varicella vaccinations for their age or had unknown vaccination status. Vaccination against varicella is important for infants, children, teenagers, and adults. See the last page of this report for links to the Center for Disease Control and Prevention (CDC) recommended vaccination schedules.

Never vaccinated **Under vaccinated** **Too young for vaccinations** **Up-to-date on vaccinations** **Unknown vaccination status**



Thus far in 2018, 45% of children aged 15 months to 5 years with varicella were not up-to-date on their varicella vaccinations. Although individuals who have been vaccinated can still get varicella, **complete and timely vaccination remains the best way to prevent varicella and severe complications.**



National activity

Varicella incidence decreased significantly following the vaccine becoming available in 1995 and has continued to decrease since 2006 when recommendations changed from 1 to 2 doses of varicella vaccine. From 2006 to 2015, all age groups had a substantial decrease in incidence with the largest decline in children aged 5 to 14 years. Although varicella is not reported to the CDC by all states, based on available data, the number of varicella cases nationally has steadily decreased each year from 2012 to 2015.

Varicella surveillance goals

- Identify and control outbreaks and monitor trends and severe outcomes
- Monitor effectiveness of immunization programs and vaccines

To learn more about varicella, please visit www.floridahealth.gov/varicella. For more information on the data sources used in Florida for varicella surveillance, see the last page of this report.

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 hepatitis A 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 hepatitis A case counts include both confirmed and probable cases, while measles case counts include only confirmed cases.
- CHD epidemiologists also report outbreaks of pertussis, varicella, and hepatitis A 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.
 - Measles outbreaks are defined as any person acquiring measles while in Florida.
- For more information about reportable diseases, please visit www.Floridahealth.gov/diseasereporting.
- For more information about Florida's guides to surveillance and investigation, including disease-specific surveillance case definitions, please visit 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 www.flhealthcharts.com.

Vaccination Data

- Vaccination data for identified cases are from Merlin, as documented by CHD epidemiologists.
- Vaccination status is determined using the Advisory Committee on Immunization Practices Recommended Immunization Schedule for Children and Adolescents Aged 18 Years or Younger, 2018.
- For more information about immunization schedules, please visit 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.
- For a full text version of a new study on pertussis vaccination, please visit www.cidid.org/publications-1/2018/3/29/the-impact-of-past-vaccination-coverage-and-immunity-on-pertussis-resurgence.