

# Alaska Vaccine-Preventable Disease Surveillance Report

## 3<sup>rd</sup> Quarter 2019 (July-September)

The purpose of this report is to provide timely vaccine-preventable disease information to health care providers and other stakeholders for situational awareness.

### Summary of Reported Cases of Select Vaccine-Preventable Disease, Alaska

Disease	2019**								2018**†	
	Q3 (Jul-Sep)							Q3 Total	YTD	Annual Total
	Anch	Mat-Su	Gulf Coast	Interior	Northern	Southeast	Southwest			
<i>Haemophilus influenzae</i> , invasive disease	5	1	1	1	0	0	2	10	26	37
Hepatitis A	0	0	0	0	0	0	0	0	2	1
Hepatitis B, acute	0	0	0	0	0	0	0	0	5	7
Measles	0	0	1	0	0	0	0	1	1	0
Meningococcal invasive disease	0	0	0	0	0	0	0	0	2	3
Mumps	0	0	0	0	0	0	0	0	1	225
Pertussis	0	1	0	4	0	0	0	5	26	91
Pneumococcal invasive disease	22	3	2	5	3	1	3	39	123	141
Tetanus	0	0	0	0	0	1	0	1	1	0
Varicella	2	0	0	1	0	0	0	3	16	34

\*Counts are provisional and may be updated.

†Includes confirmed and probable cases.

#### *Haemophilus influenzae*, invasive disease

During the July-September 2019 period, 10 cases were reported to the Alaska Section of Epidemiology (SOE):

- All the cases were confirmed by culture
- Isolate serotypes: 2 Hia, 5 Hib, and 3 non-typeable
  - 2/4 (50%) isolates serotyped from cases involving children <5 years of age, were vaccine-preventable

Age Group (years)	No. Cases	No. Hib Cases, Hib Vax Up-to-Date (UTD)±
<2	3 (30%)	1 (33%)
2-4	1 (10%)	1 (100%)
≥5	6	N/A

#### Measles

During the July-September 2019 period, a single case of measles was reported to the SOE.

- The case was confirmed by PCR in an unvaccinated teenager who had recently traveled out of state. The imported case set off a large-scale investigation and response which included a public health alert notice to health care providers and measles vaccination clinics in the community which were hosted by Kenai Public Health Nursing.

#### Pertussis

During the July-September 2019 period, 5 cases were reported to the SOE:

- 3 cases were confirmed by PCR and 2 were epi-linked to laboratory-confirmed cases

Age Group (years)	No. Cases	No. Cases DTaP/Tdap Vax UTD±
<1 year	1 (20%)	0
1-6 years	0	0
7-10 years	0	0
11-19 years	0	0
≥20 years	4 (80%)	1 (25%)

#### Tetanus

During the July-September 2019 period, a single case of tetanus was reported to the SOE.

- The case was diagnosed clinically in an adult with an unknown history of vaccination who presented to a Southeast hospital Emergency Department with back spasms and trismus; commonly has had cut to hands as a result of occupation injury. He was hospitalized, treated with tetanus immune globulin (TIG) and Tdap vaccine, and remains critically ill.



### Pneumococcal invasive disease (IPD)

During the July-September 2019 period, 39 cases were reported to the SOE:

- All the cases were confirmed by culture from normally sterile body sites
- 39 isolates were submitted to Arctic Investigations Program for serotyping
  - 1/2 (50%) isolates serotypes from cases involving children <5 years of age, were due to vaccine serotypes
  - 14/14 (100%) isolates serotyped from cases involving persons ≥65 years of age, were vaccine-preventable

Age Group (years)	No. Cases	No. Cases PCV13 Vax UTD	No. Cases PPSV23 Vax UTD <sup>‡</sup>
<2	1 (3%)	0	N/A
2-4	1 (3%)	1 (100%)	N/A
5-64	28 (72%)	N/A	N/A
Non-Native 50-64	8	N/A	N/A
Alaska Native 50-64	9	N/A	7 (78%)
≥65	9 (23%)	3 (33%)	4 (44%)

### Varicella

During the July-September 2019 period, 3 cases were reported to the SOE:

- 2 cases were confirmed by laboratory culture and PCR tests
- None were epi-linked to another laboratory-confirmed case
- No outbreaks were reported

Age Group (years)	No. Cases	No. Cases VAR Vax UTD <sup>‡</sup>
< 1	0	N/A
1-6	0	0
7-10	0	0
11-19	0	0
≥ 20	3 (100%)	0

<sup>‡</sup>Based upon the Advisory Committee on Immunization Practice's routine age-appropriate immunization recommendations for children and adults who are not at increased risk for this disease.

### VPD Updates and Reminders

- **Measles:** Check the AK SOE measles webpage for information about measles in Alaska, possible exposure locations, resources for the general public, and resources for health care providers. Available at: <http://dhss.alaska.gov/dph/Epi/id/Pages/measles/default.aspx>
- **Mumps:** For information about the Alaska mumps outbreak that occurred from May 2017-July 2018 and other resources visit: <http://dhss.alaska.gov/dph/Epi/id/Pages/Mumps.aspx>. For the latest surveillance data from CDC visit: <http://www.cdc.gov/mumps/outbreaks.html>
- **Varicella:** Providers should attempt to obtain a specimen for laboratory confirmation on any patient with suspected varicella, as the result can provide assurance in the clinical setting and impact public health decisions. For more information visit: <http://dhss.alaska.gov/dph/Epi/id/SiteAssets/Pages/Varicella/Information%20for%20HealthCare%20Providers%202016.pdf>
- Conditions reportable to public health in Alaska, available at: <http://dhss.alaska.gov/dph/Epi/Pages/pubs/conditions/default.aspx>
- Recommended immunizations for children and adults, and administration schedules: <http://dhss.alaska.gov/dph/Epi/iz/Pages/parents.aspx>
- Cases are defined according to national standards: <https://www.cdc.gov/nndss/case-definitions.html>

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