

Portland Area IHS Communicable Diseases Update

TARA PERTI, MD, MPH
MEDICAL EPIDEMIOLOGIST
IHS, PORTLAND AREA OFFICE
November 18, 2025

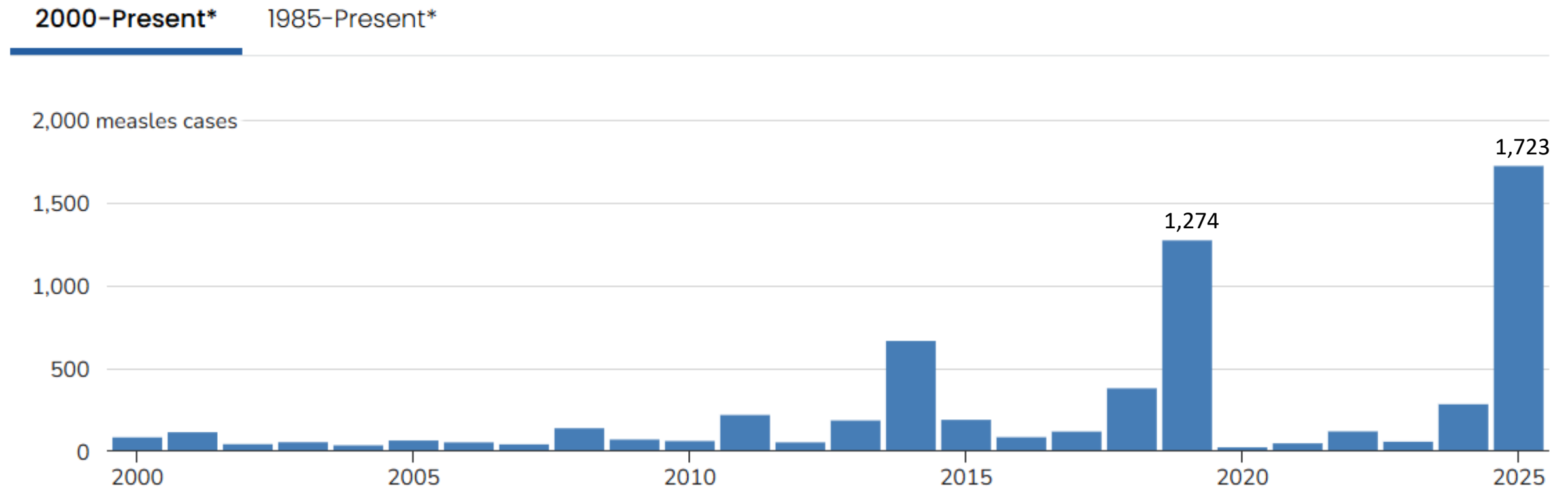


Outline

- Measles
- Respiratory Virus Season (COVID-19, Influenza, RSV) Update
- H5 Update
- Foodborne Outbreaks

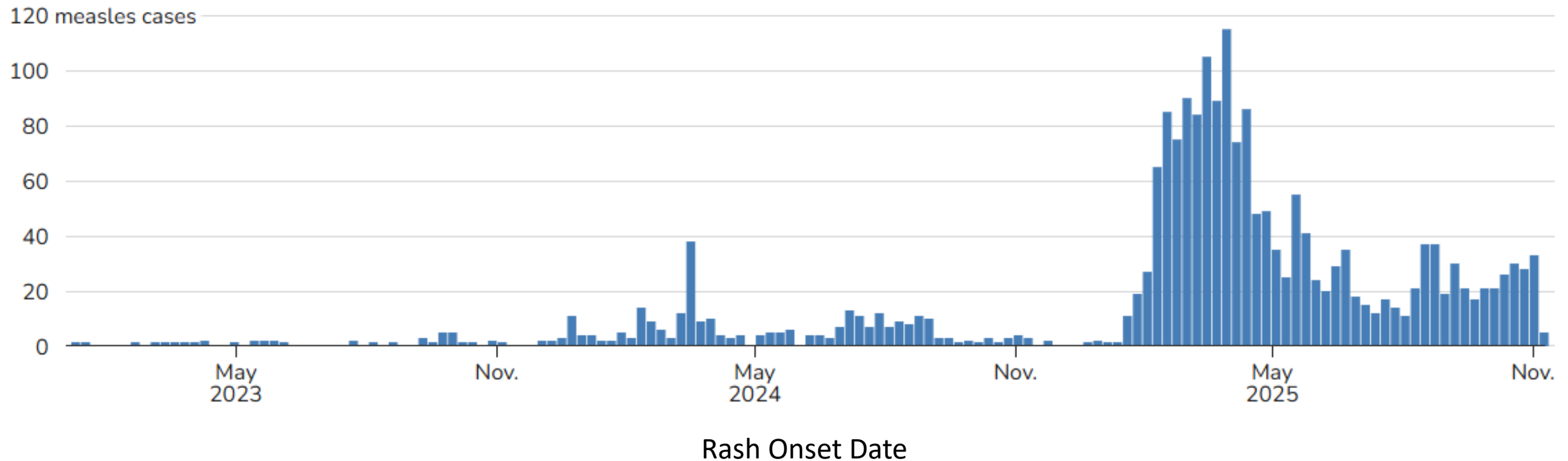
Yearly Measles Cases – United States, 2000-Present

as of November 12, 2025



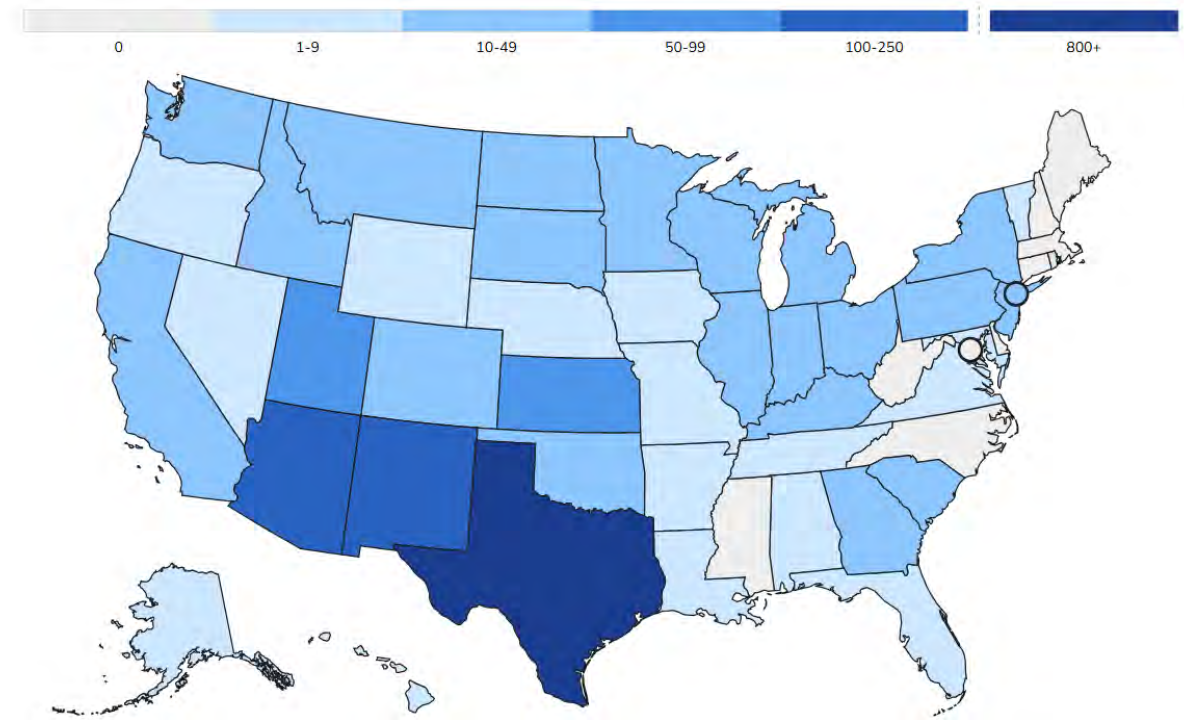
Measles – United States, 2023-2025 (through 11/12)

2023–2025* (as of November 12, 2025)

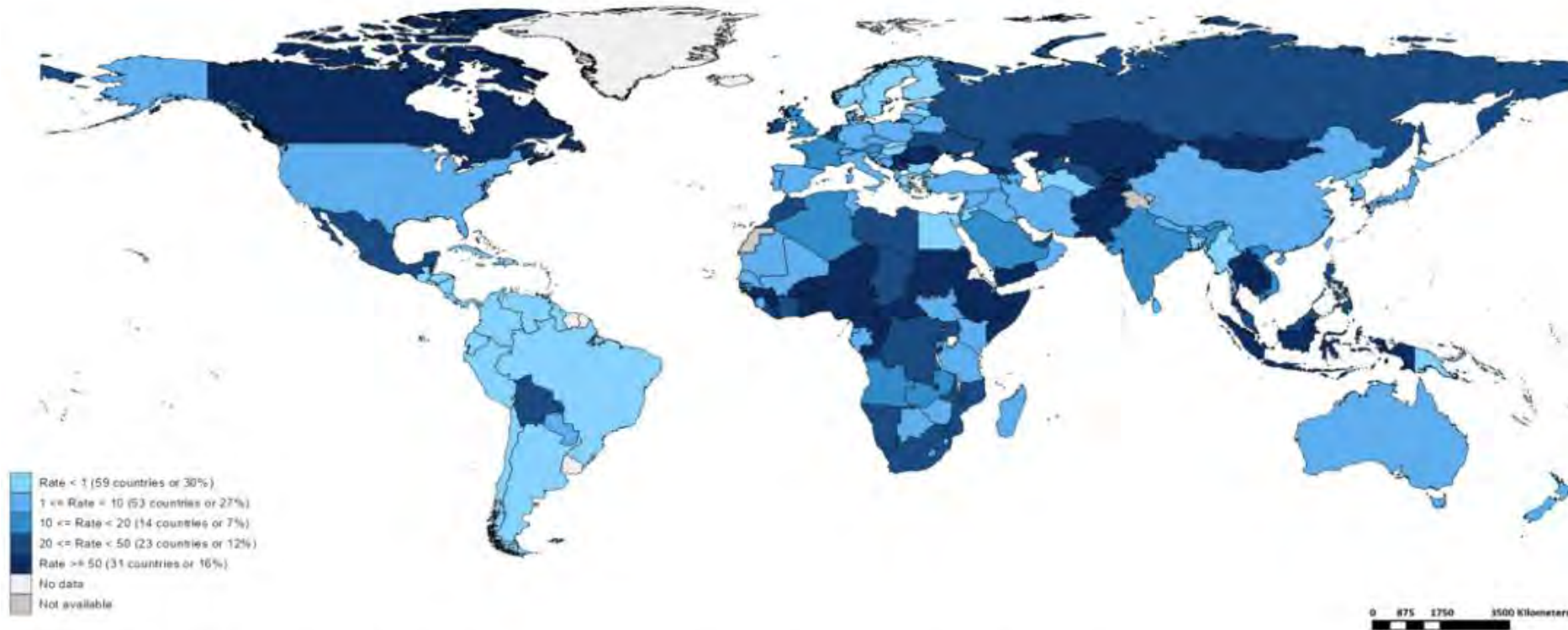


Measles — United States, 2025

- 1,723 confirmed cases among 42 states through 11/12.
- 87% of cases from one of 45 outbreaks (≥ 3 related cases).
- Age: 26% <5 years-old, 40% 5-19 years-old, 33% ≥ 20 years-old.
- 12% hospitalized overall (22% of those <5 years-old hospitalized).
- 3 deaths among unvaccinated individuals, including 2 healthy school-aged children.
- 92% unvaccinated or with unknown vaccination status, 4% one MMR dose, 4% two MMR doses.



Measles Incidence (Cases per Million), 10/2024-9/2025



Map production: World Health Organization, 2025. All rights reserved
Data source: IVB Database

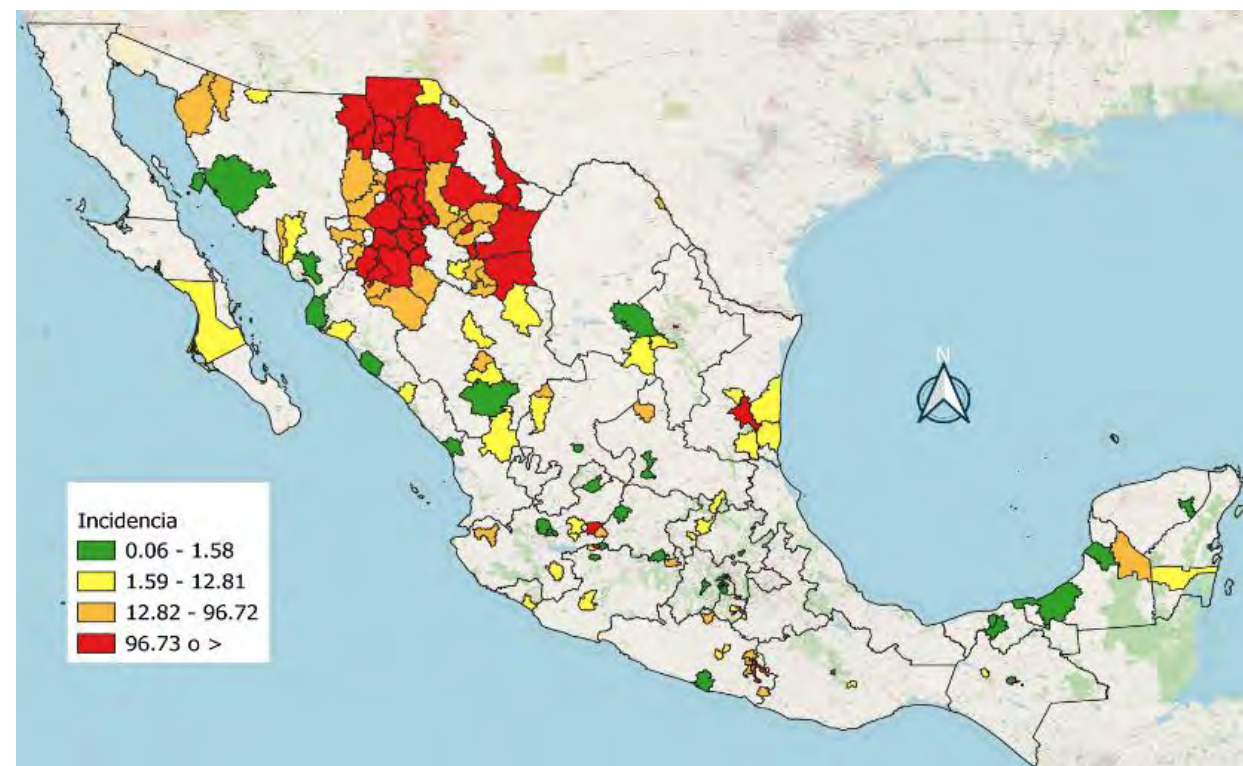
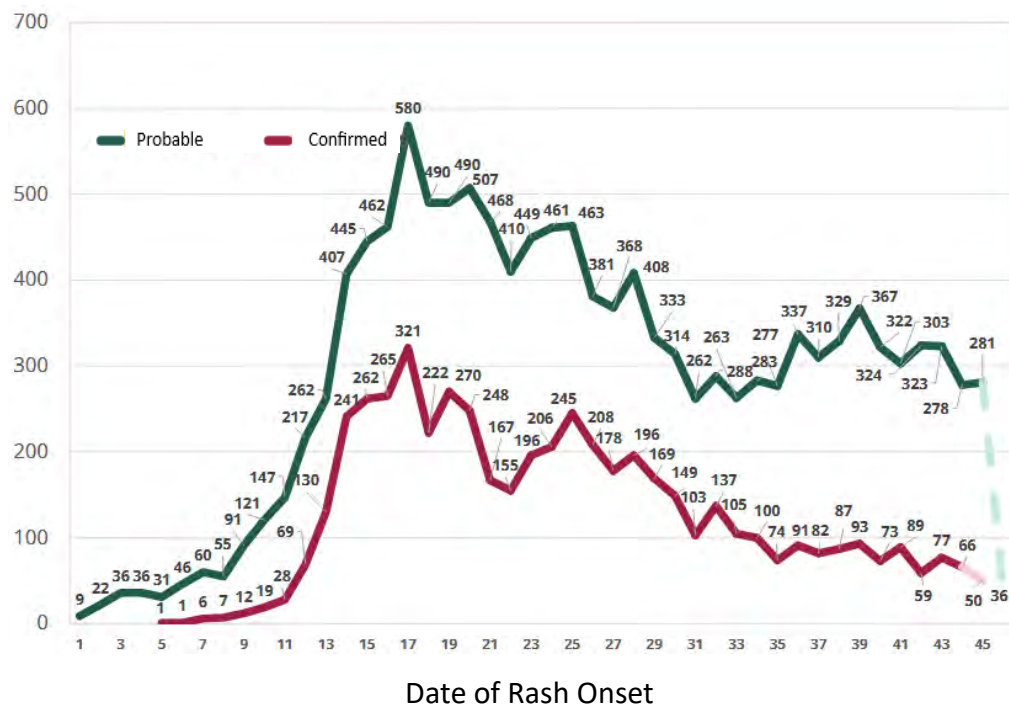
Disclaimer: The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Highest incidence rates

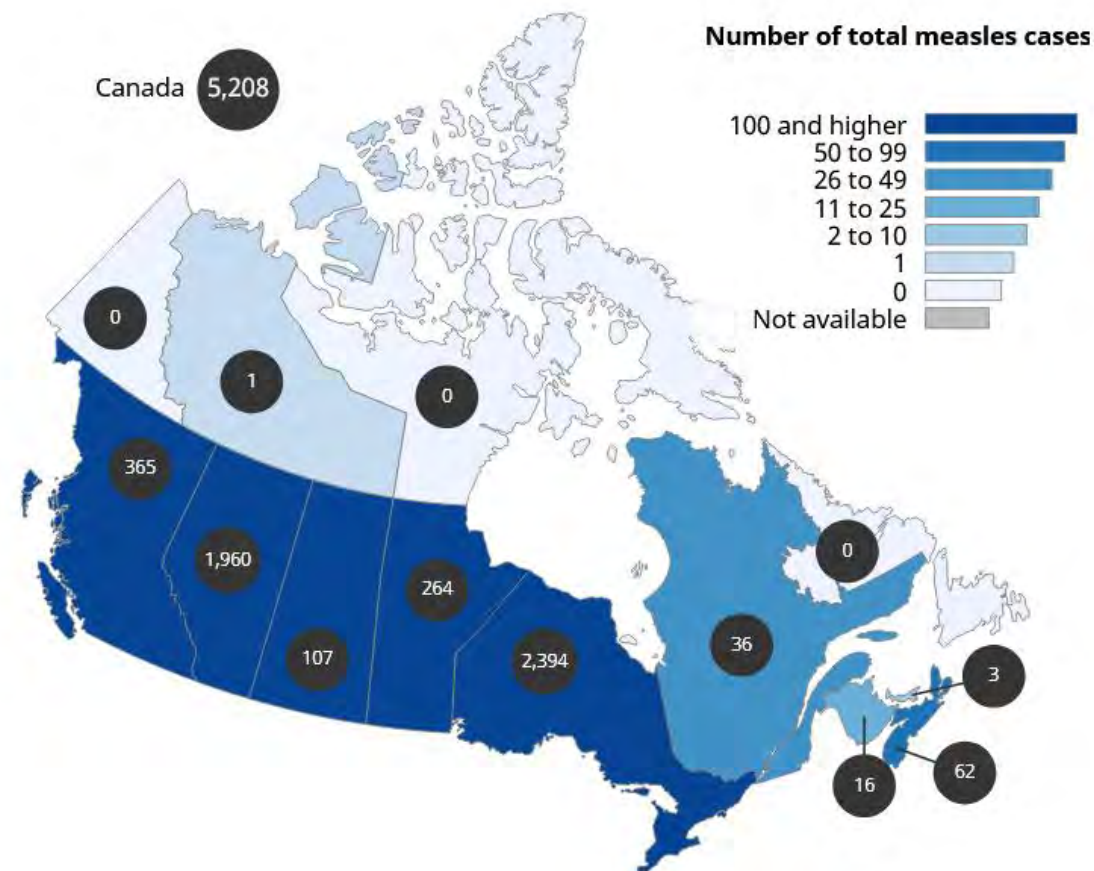
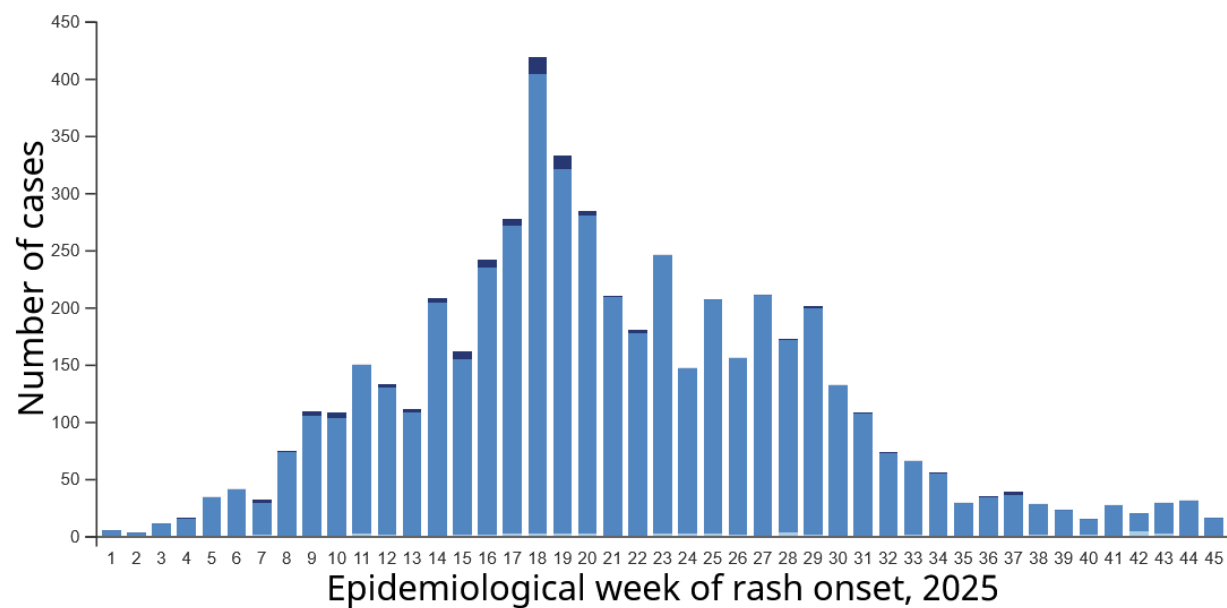
Country	Cases	Rate
Mongolia	12821	3,688.92
Kyrgyzstan	9931	1,381.99
Yemen	32012	788.80
Romania	6525	343.15
Lao People's Democratic Republic	1980	254.83
Afghanistan	10782	252.82
Tajikistan	2319	218.96
Georgia	663	174.12
Kazakhstan	2906	141.12
Canada	4780	120.27

Measles — Mexico, 2025 (through 11/13)

- 5,257 confirmed cases as of 11/13/25
- 27 states; 4,414 (84%) confirmed cases in Chihuahua
- Deaths: **23** (Chihuahua: 21, Sonora: 1, and Durango: 1)



Measles — Canada, 2025 (through 11/8)



Number of confirmed cases: 4,843

Measles — Washington, 2025 (N=12)*

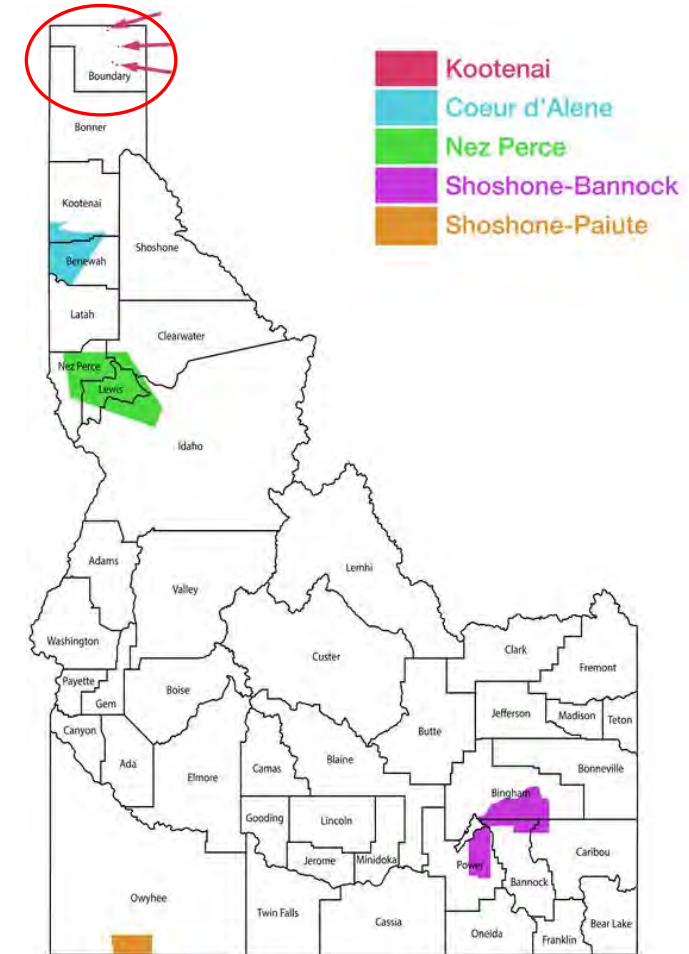
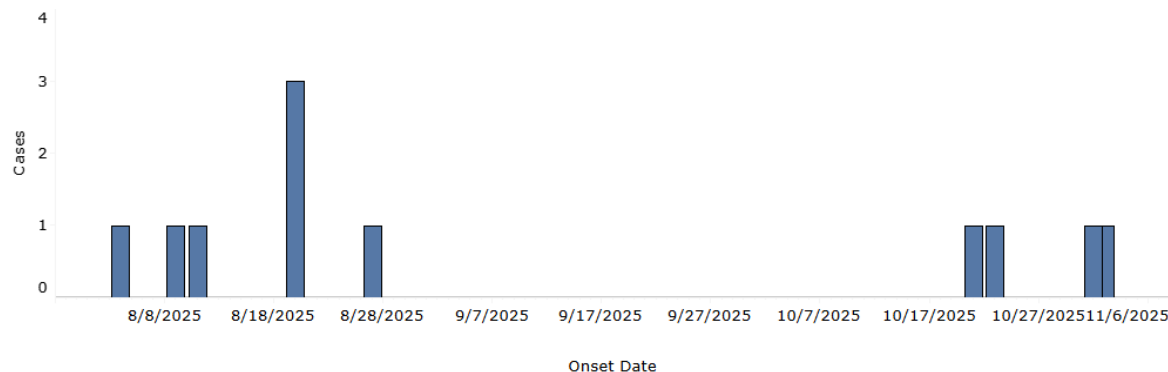
Date Reported	County	Age	Exposure
2/26/25	King	Infant	International Travel
3/17/25	Snohomish	Adult	Linked to 1 st Case
4/1/25	Snohomish	Adult	International Travel
4/4/25	King	Adult	International Travel
4/20/25	King	Infant	International Travel
5/20/25	King	Adult	International Travel
6/20/25	Whatcom	Not provided	Not Provided
6/23/25	Whatcom	Not provided	Linked to 1 st Case in Whatcom County
6/25/25	King	1 adult and 1 child in the same household	International Visitor
8/25/25	Spokane	Not Provided	Linked to Case from North Idaho
10/28/25	King	Adult	Linked to Traveler from Arizona

*On October 17, 2025 Public Health Seattle King County reported that an unvaccinated resident of Arizona was diagnosed with measles. There have also been a total of four cases among travelers to Washington State, who are not residents of Washington State.

Measles — Idaho, 2025 (N=11)

Date Reported	County	Age	Exposure
8/12/25	Kootenai (Panhandle Health District)	Child	Unknown
8/14/25	Bonneville (Eastern Idaho Public Health)	Child	International Traveler (household)
8/20/25	Bonner (Panhandle Health District)	Child	Unknown
~9/12/25	Bonneville (Eastern Idaho Public Health)	4 individuals (details not provided)	Linked to First Case in Bonneville County
10/30/25	Boundary (Panhandle Health District)	Child	Recent travel (details not provided)
~11/10/25	Boundary (Panhandle Health District)	3 additional cases	Details not provided

*There have been 2 additional cases among travelers to Idaho, who are not residents of Idaho (one reported on 8/7/25 in Bonneville County) and one previously reported on 5/23/25 by South Central Health District (Cassia County).



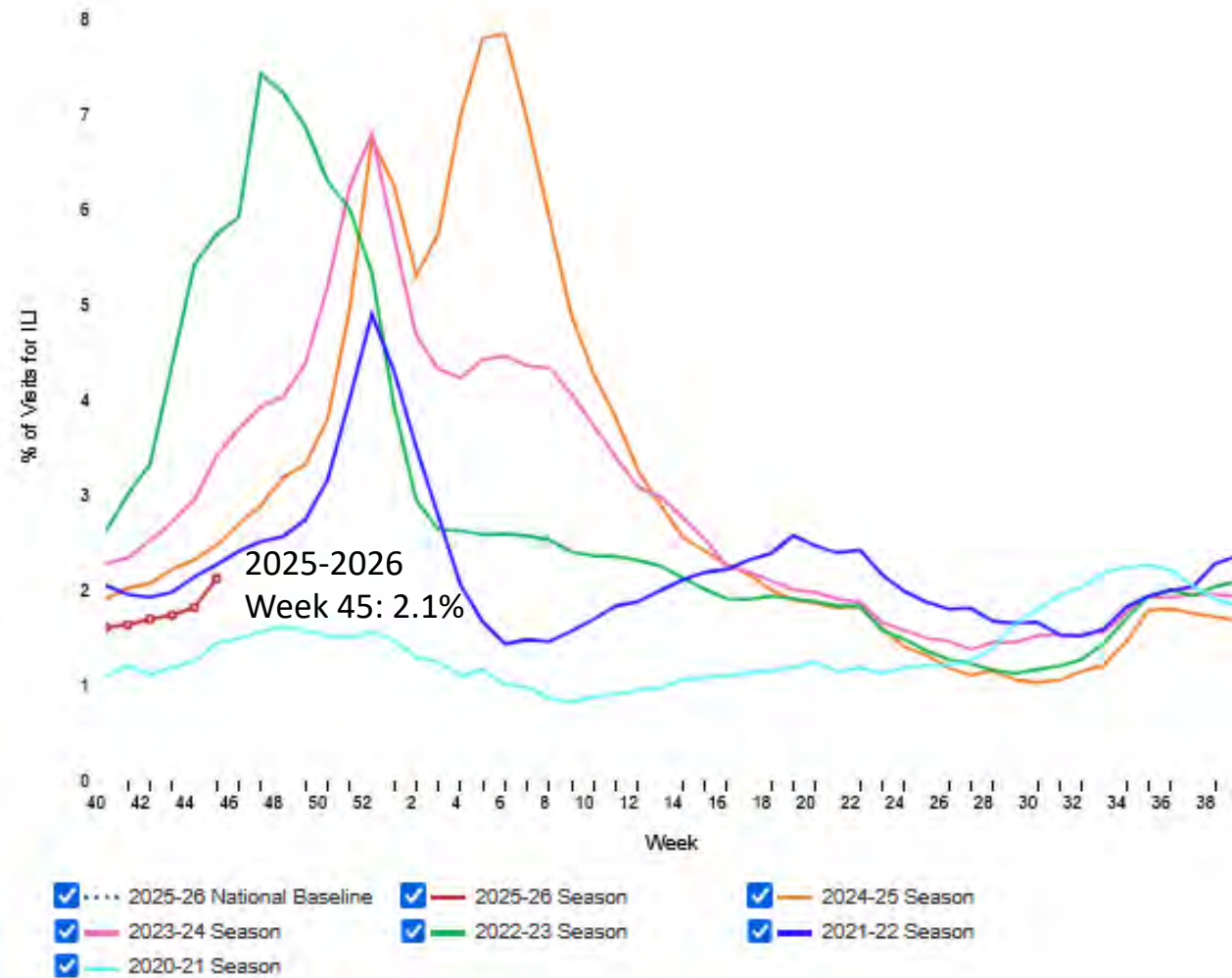
Map of Tribal Lands and Counties in Idaho
Source: PBS Learning Media

Measles — Oregon, 2025 (N=1)

Date Reported	County	Age	Exposure
6/24/25	Multnomah	Not provided	International Travel

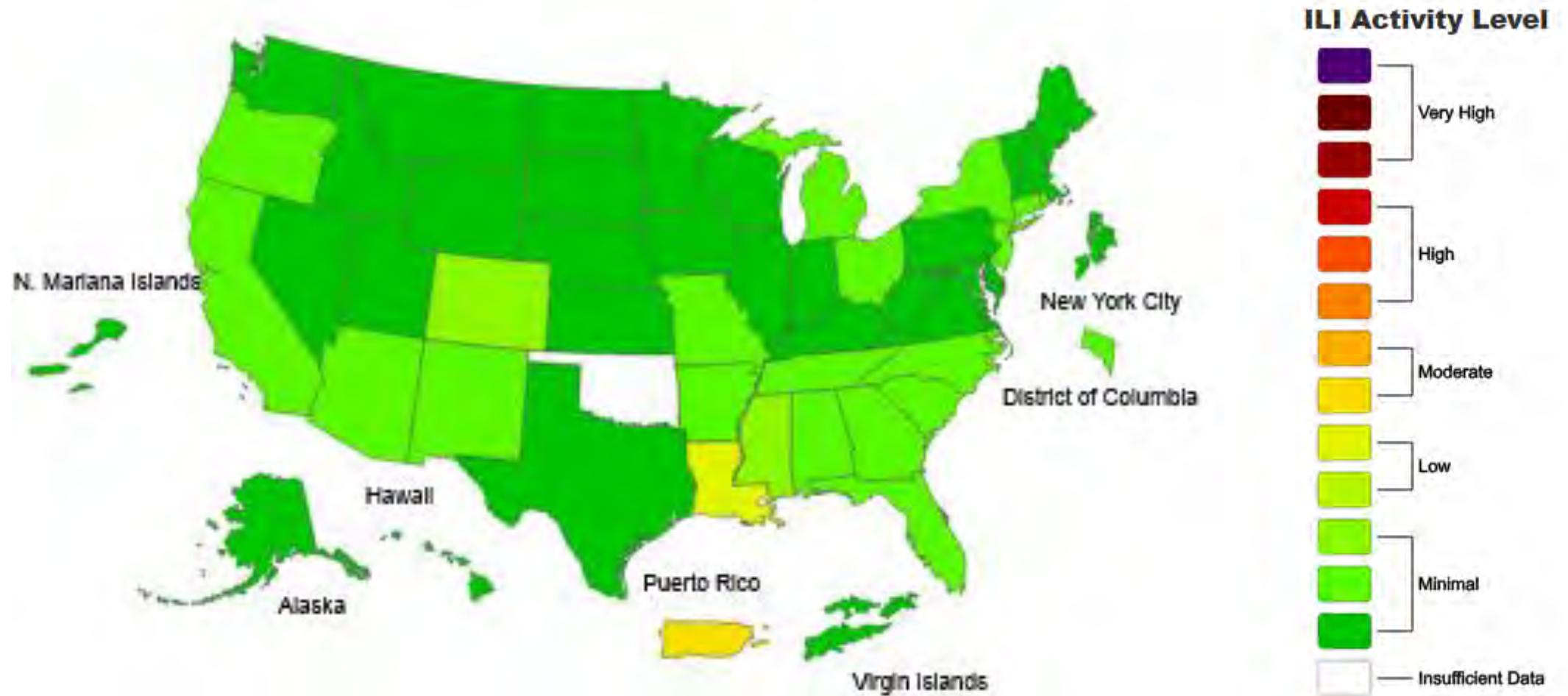
* Measles virus detected in wastewater from Marion County on 10/6/25 and Josephine County on 10/30. No cases reported.

Percentage of Outpatients Visits for Influenza-like Illness (ILI) — United States (through 11/8/25)

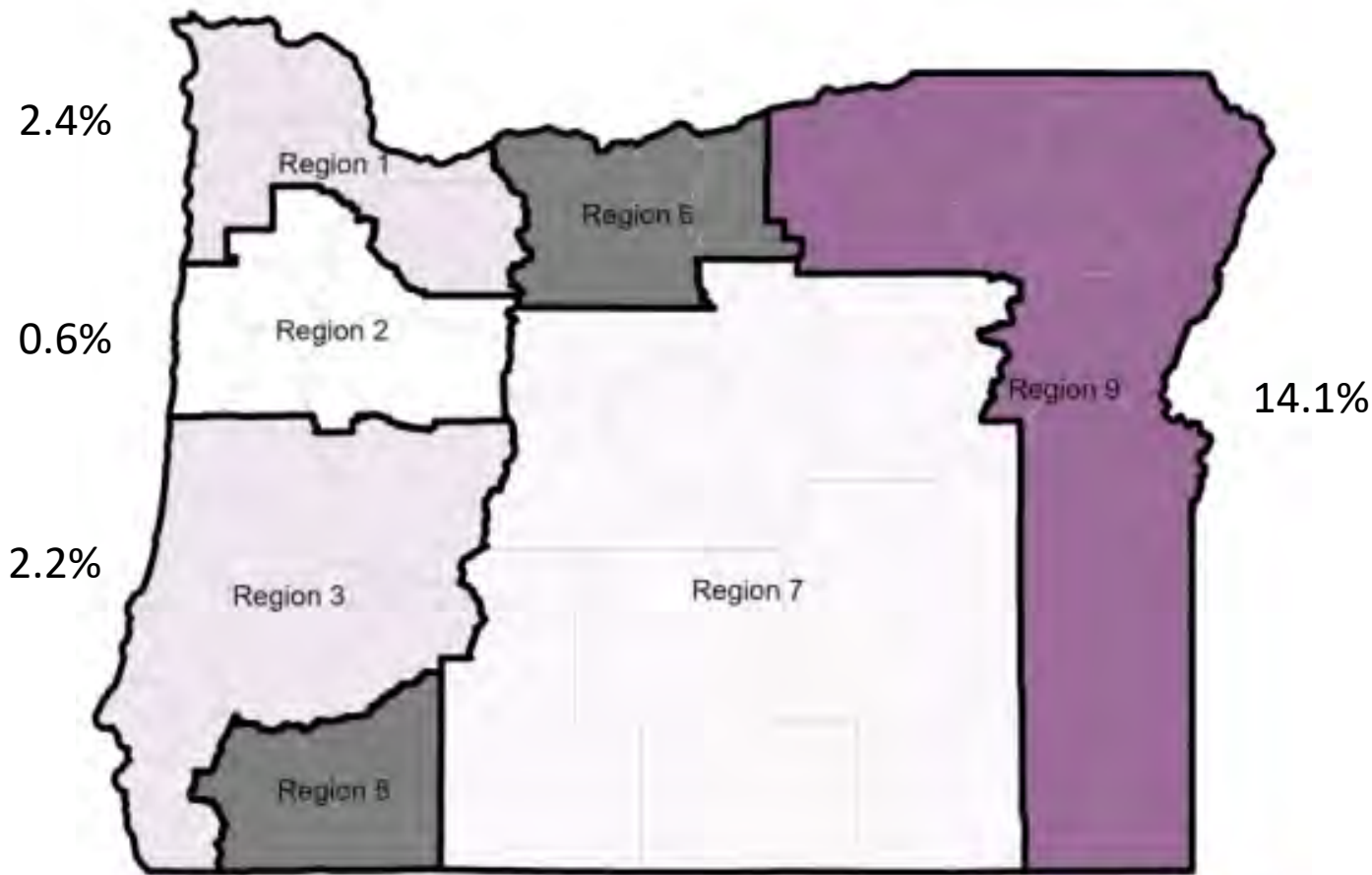


IHS: Week 45
National: 0.5%
Portland Area: 0.3%

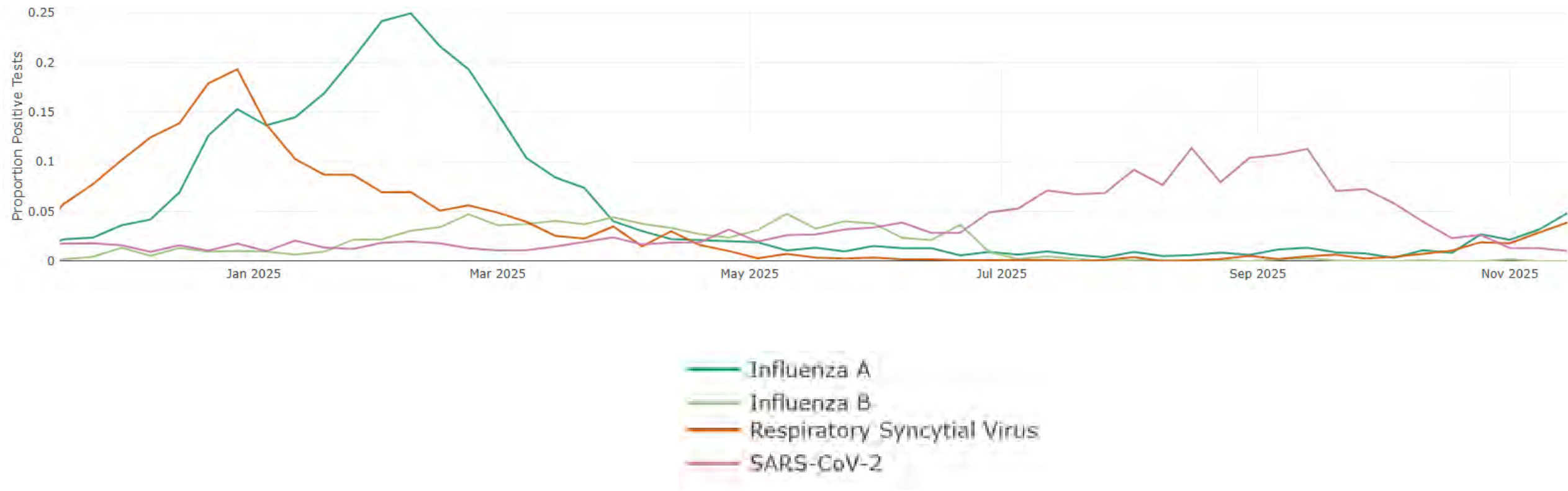
ILI Activity — United States, 2025 (Week 44)



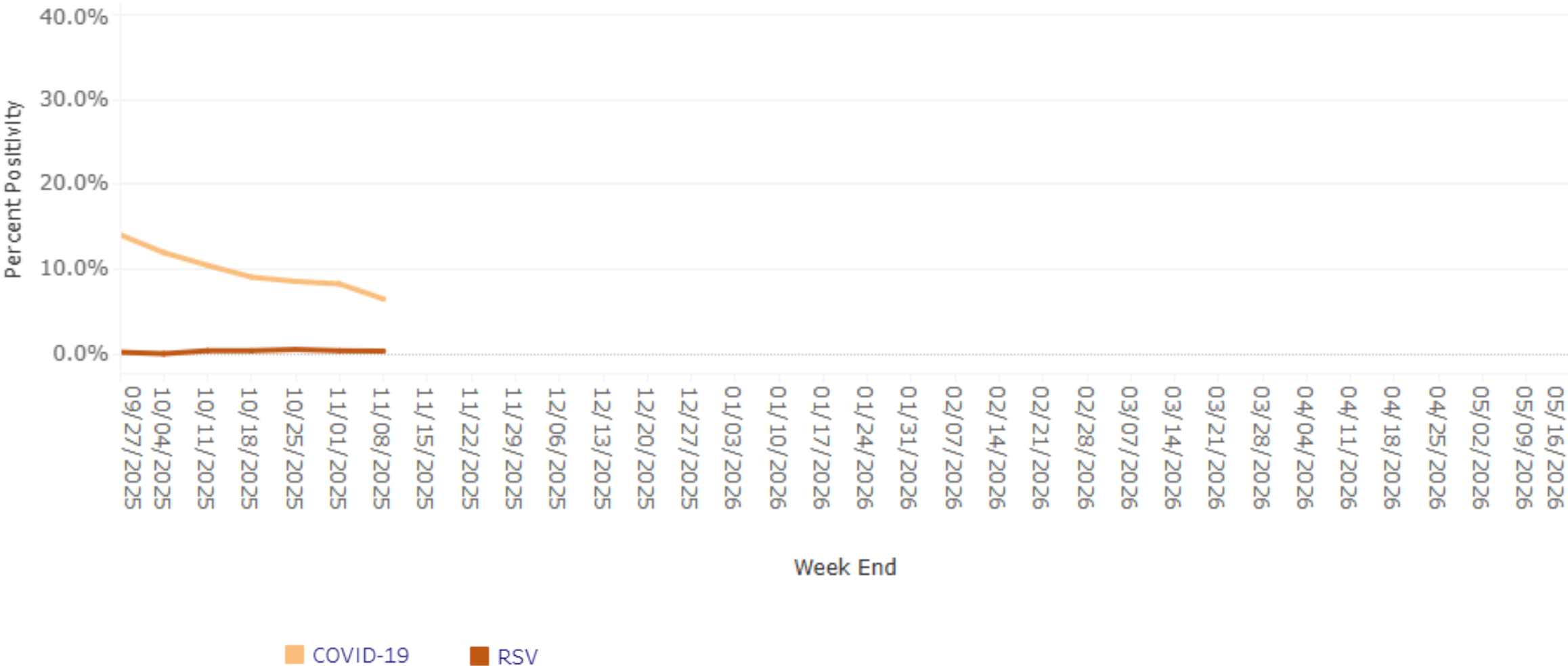
Percent of Tests Positive for Influenza — Oregon, 2025-2026 (week 44, through 11/8)



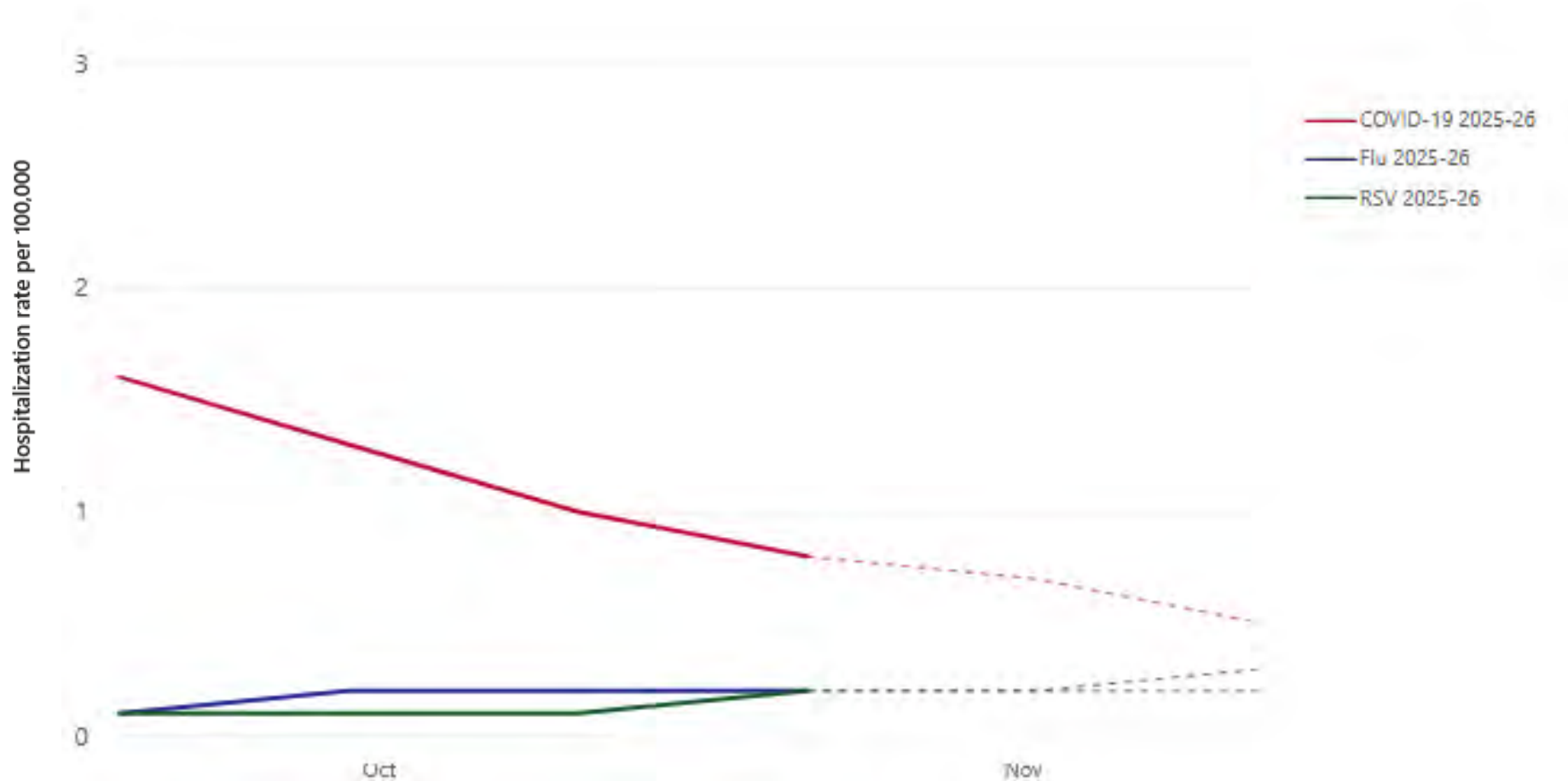
Proportion of Tests Positive for COVID-19, Influenza and RSV in the Northwest — University of Washington and Seattle Children's Hospital, 2024-2025 (through 11/15)



Percent of Tests Positive for COVID-19 and RSV — Idaho, 2025-26 (through 11/8/25)



Weekly Rates of Respiratory Virus-Associated Hospitalization — United States, 2025-2026 (through 11/8/25)



Influenza Immunization Rates – IHS, Portland Area vs. Nationally, 2025-26 (through 11/8/25)

Age Group	% Vaccinated Portland Area	% Vaccinated Nationally
6 mo – 17 years	6.0	12.4
18+ years	14.8	17.0
65 + years	31.7	31.8
Overall (6 months +)	12.5	15.8

* % Vaccinated with at least one dose

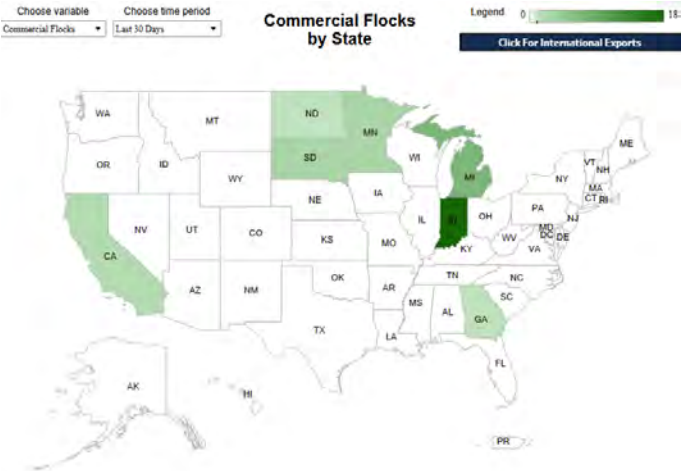
H5 Update

First human case of H5N5 reported. Identified in Washington State (first case of avian influenza in Washington State in 2025), occurring in Grays Harbor County contracted from a backyard poultry flock exposed to wild birds. The case is an older adult with underlying health conditions hospitalized in early November after presenting with a fever, confusion and respiratory distress.

Confirmed and Probable Cases of H5 Since 2024

Exposure Sources of Cases

	Total Number of Cases	Dairy Herds	Poultry Farms/ Culling Operations	Other (backyard flocks, wild birds, other mammals)	Unknown
U.S.	71 confirmed 7 probable	41 confirmed 1 probable	24 confirmed 5 probable	3 confirmed	3 confirmed 1 probable
Washington	12 confirmed 3 probable	0	11 confirmed 3 probable	1	0
Oregon	1 confirmed	0	1 confirmed	0	0
Idaho	0	0	0	0	0



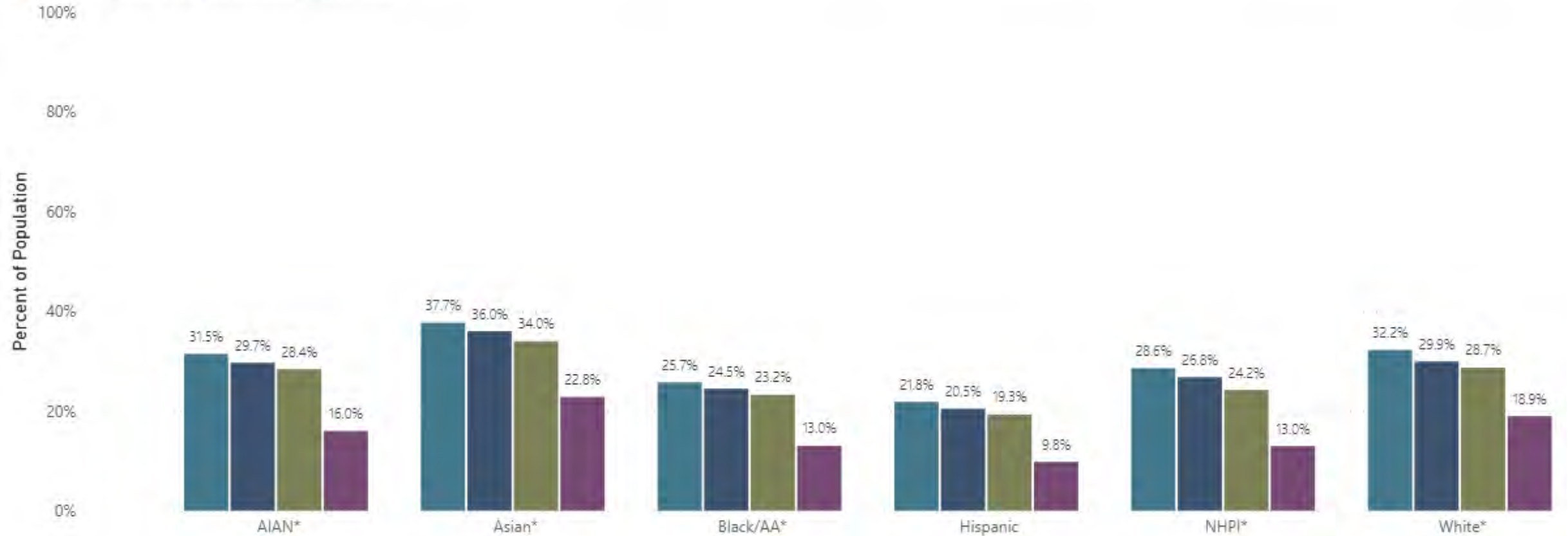
Highly Pathogenic Avian Influenza Cases in Commercial/Backyard Flocks and Livestock in the Past 30 days:

- 35 commercial flocks and 37 backyard flocks affected.
- In the past 30 days there have been no cases among cattle in the U.S.

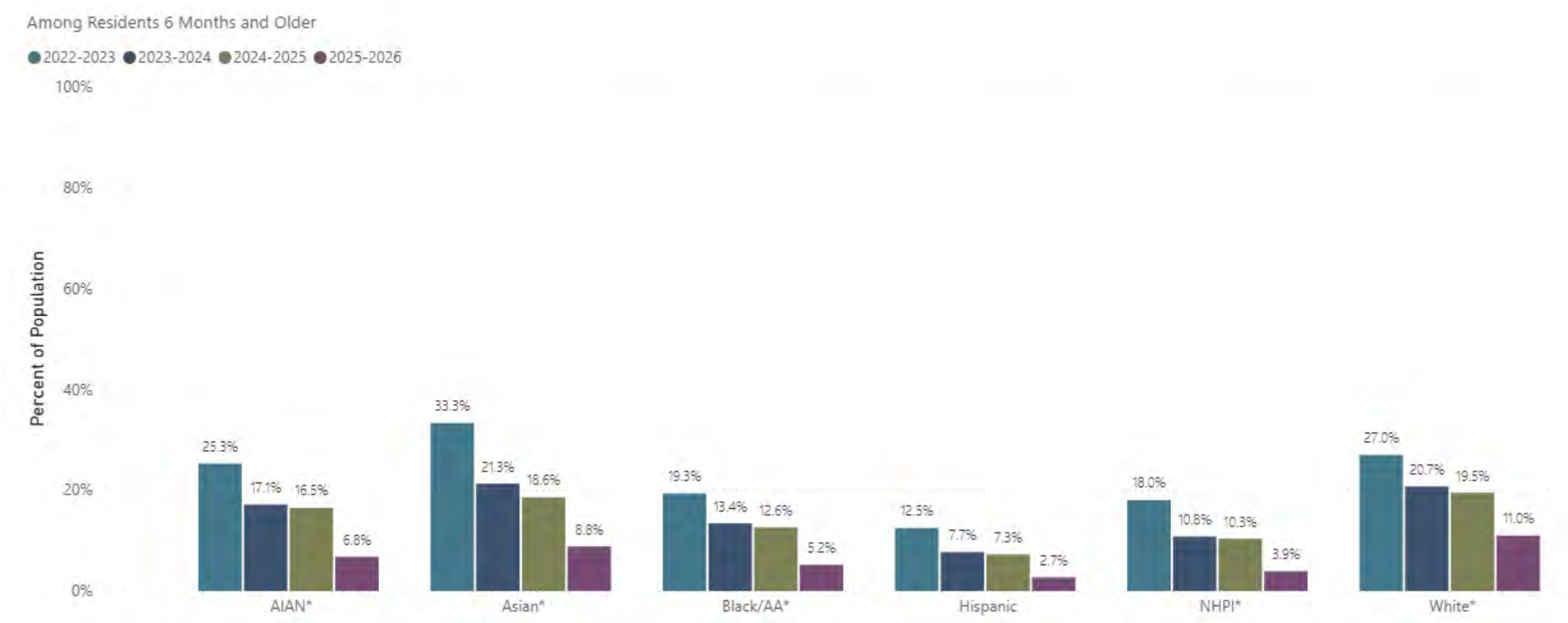
Percent of People who Received an Influenza Vaccine by Race/Ethnicity — Washington State, Current (through 11/10) and Past 3 Seasons

Among Residents 6 Months and Older

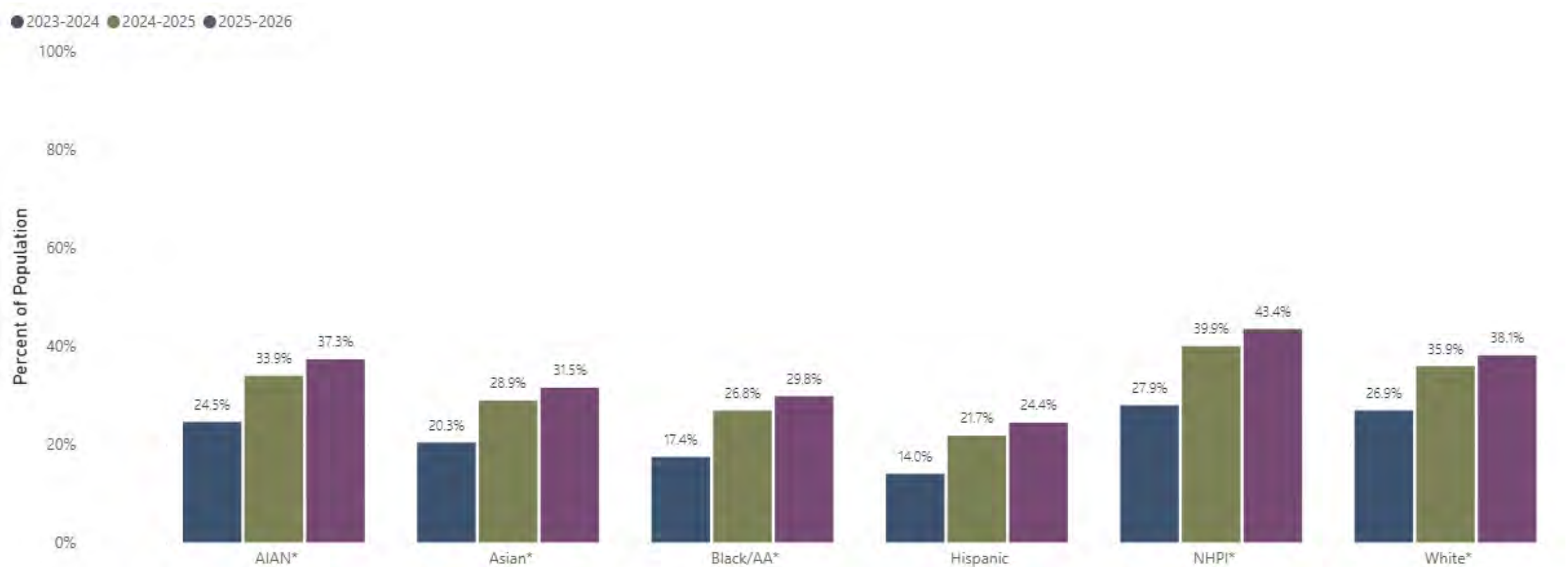
● 2022-2023 ● 2023-2024 ● 2024-2025 ● 2025-2026



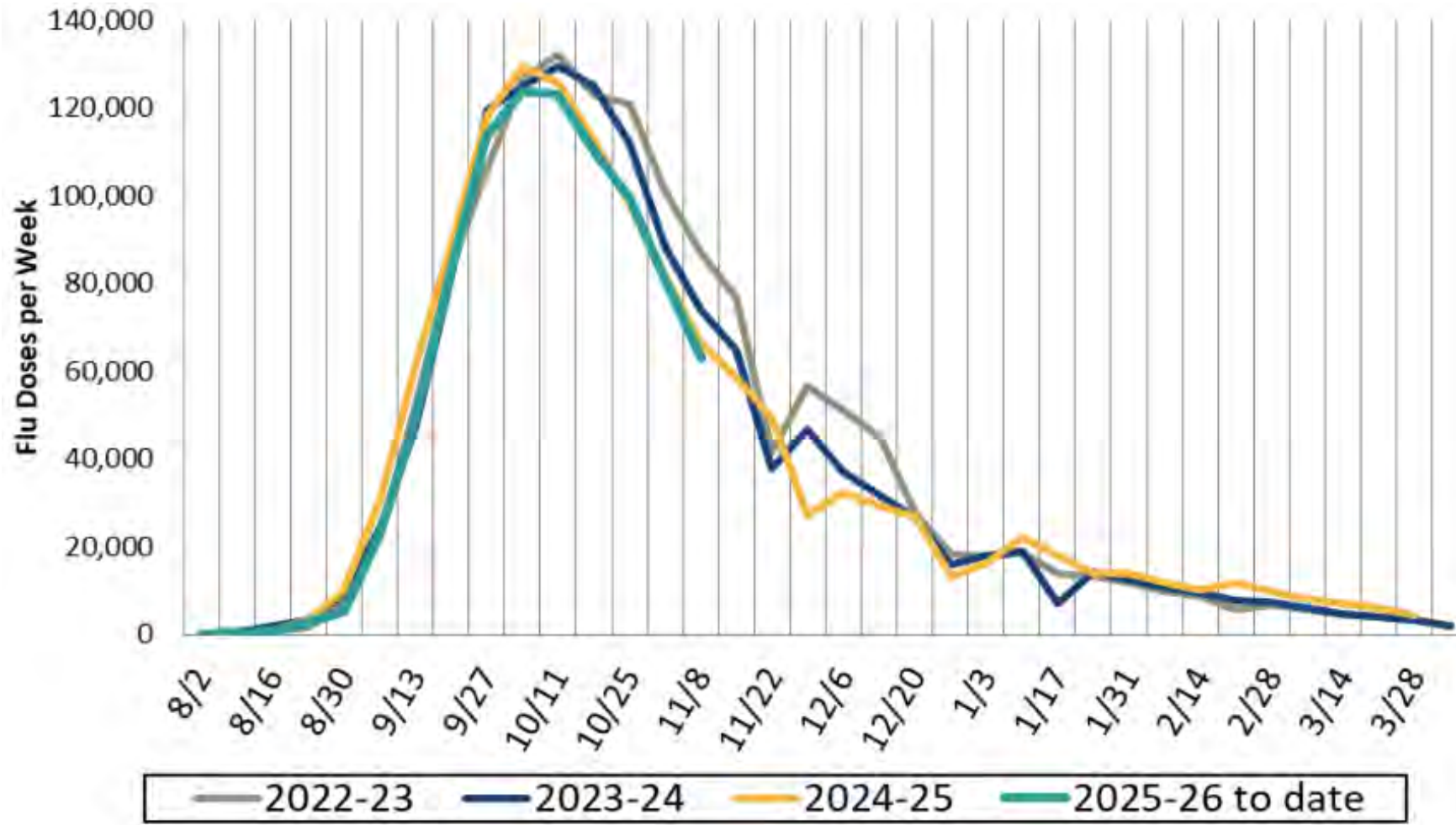
Percent of People who Received a COVID-19 Vaccine by Race/Ethnicity — Washington State, Current (through 11/10) and Past 3 Seasons



Percent of Adults ≥ 75 Years Old Ever Vaccinated for RSV by Race/Ethnicity — Washington State, Current (through 11/10) and Past 2 Seasons



Weekly Number of Influenza Immunizations Administered — Oregon, Current (through 11/8) and Past 3 Seasons



Foodborne Outbreaks

Infant Botulism Outbreak Linked to ByHeart Whole Nutrition Infant Formula

- All ByHeart Whole Nutrition infant formula products have been recalled due to cases of infant botulism.
- 23 cases in 13 states including 2 cases in Oregon and 1 case in Washington (sold at major retailers nationwide and online). All cases have been hospitalized with no deaths.
- Parents/caregivers are advised to stop using and discard any ByHeart Whole Nutrition infant formula products (record lot numbers of any opened formula before discarding). Anything in contact with the formula should be washed in hot soapy water.

[Infant Botulism Outbreak Linked to Infant Formula, November 2025 | Botulism | CDC](#)

[Oregon Health Authority Health Alert: Recall Expanded in Infant Botulism Outbreak Linked to Infant Formula, November 2025](#)

[Washington DOH Provider Alert: Infant Botulism Associated with ByHeart Infant Formula](#)

Outbreak of Listeria linked to premade pasta products

- 27 cases from 18 states with 6 deaths; 3 cases in Oregon (1 death), 1 case in WA).

[Oregon Health Authority Health Alert: Two current outbreak investigations involving Oregon residents - STEC and Listeria. Multiple product recalls](#)

[2025 Listeria Outbreak Linked to Prepared Pasta Meals | Washington State Department of Health](#)

[Investigation Update: Prepared Meals Outbreak, October 2025 | Listeria Infection | CDC](#)

Outbreak of Shiga Toxin-Producing E. coli (STEC) infections caused by E.coli O103 linked to consumption of aged, *raw milk cheese* from Twin Sisters Creamery

- One case in Oregon and nine cases in Washington.

[Oregon Health Authority Health Alert: Two current outbreak investigations involving Oregon residents - STEC and Listeria. Multiple product recalls](#)

[Washington DOH 2025 Outbreak of Shiga toxin-Producing E. coli \(STEC\) Infections Linked to Twin Sisters Creamery Aged Raw Milk Cheese](#)

Summary

- Measles
 - Idaho: 11 cases among Idaho residents have now been reported.
 - **Panhandle Health District (N=6):** 4 cases have been reported in the past 2 weeks in Boundary County; initial case reported to have a history of recent travel. Previously, one case reported on 8/12 in Kootenai County and one on 8/20 in Bonner County (it was not known how these children acquired measles and they are not linked to each other, raising concern for additional unrecognized cases).
 - **Eastern Idaho Public Health (N=5):** One case reported on 8/14 in Bonneville County, exposed to an international traveler with measles. Four additional cases reported in Bonneville County.
 - Washington: 12 cases among Washington State residents have been reported, last on 10/28 in King County. Prior cases from King, Snohomish, Whatcom, and Spokane Counties, most related to international travel; no outbreak so far.
 - Oregon: No new cases reported. One case in Multnomah County reported on 6/24.
 - 1,723 measles cases in 42 states (through 11/12) with 3 deaths. 92% unvaccinated or with unknown vaccination status.
- Influenza, COVID-19, RSV: Still early in respiratory virus season with low levels of activity.
- AI/AN have a higher risk of more severe disease due to influenza, COVID-19, and RSV, yet vaccination coverage is limited [Influenza: 12.5% for Portland Area IHS (11/8), for WA (as of 11/10), Influenza: 16.0%; COVID-19: 6.8%; RSV (age 75+): 37.3%].
- There is a window of opportunity now to vaccinate against influenza, COVID-19, and RSV prior to increased respiratory virus activity.
- H5: Case of H5N5 in Grays Harbor County with a backyard flock exposed to wild birds hospitalized in early November – first case of avian influenza in Washington this year (11 confirmed cases + 3 probable cases in WA and 1 confirmed case in OR in 2024 related to poultry farms). Higher risk of avian influenza in fall and winter due to migratory birds.

Recommendations

- **Ensure patients at your clinics are up to date on immunizations, including influenza, COVID-19 and RSV, to protect your patients, their families, and the community during respiratory virus season.**
- **Consider using multiple strategies to increase vaccination rates** (e.g. reminder/recall, electronic prompts, standing orders, increasing patient access, provider audit and feedback with benchmarks, CME on provider communication techniques (e.g. boostoregon.org webinars including on motivational interviewing), vaccine clinics, reviewing/addressing vaccination status with WIC beneficiaries, messaging utilizing trusted messengers).
- **Ensure anyone traveling internationally (including to Mexico and Canada) without presumptive evidence of measles immunity are vaccinated at least 2 weeks prior to travel (those ≥ 12 months old should receive 2 doses at least 28 days apart, infants ≥ 6 months old should receive 1 dose (revaccinated with 2 dose series starting at 12 months)).**
- **Patients with influenza A should be asked about exposures** to wild and domestic animals (e.g. backyard flocks, cats, wild birds, commercial poultry/livestock operations) and animal products (e.g. raw dairy products, poultry, raw pet food). If risk factors present, specimens should be sent for subtyping (e.g. State PHL or Quest, Labcorp, ARUP). All specimens from hospitalized patients with influenza A should be sent for subtyping. Precautions for avian influenza: Standard, contact, and airborne with eye protection.
- **H5 prevention:**
 - Farm workers: Decrease exposure to sick animals/contaminated environments through engineering controls (e.g. improved ventilation), administrative controls (e.g. monitoring for sick animals, training, hand washing stations) and appropriate use of PPE.
 - Hunters: Don't touch sick or dead animals; when dressing birds, which should be done in the field, wear gloves, preferably an N95 mask (or a surgical mask if an N95 mask is not available) and eye protection, wash hands after handling bird and wash tools/surfaces with bleach solution; cook bird to at least 165 degrees.
 - Backyard flock owners: Keep birds outside and protect them from wild birds. Do not touch sick or dead birds or contaminated areas without PPE, wash hands after handling. Sick or dead birds should be reported to the State's Department of Agriculture.
 - General public: Avoid raw dairy products and undercooked poultry/eggs. Avoid raw pet food; prevent cats from hunting birds. Don't handle sick wildlife without PPE; report to State's Department of Fish & Wildlife.
 - Anyone who may have exposure to birds should be vaccinated for seasonal flu to prevent simultaneous seasonal and avian flu infection which could lead to reassortment and the development of a more transmissible avian influenza virus.

Influenza Vaccination Recommendations for 2025-2026

- Routine annual influenza vaccination is recommended for all persons aged ≥ 6 months who do not have contraindications.
- Adults ≥ 65 years old recommended to preferentially receive a high dose or adjuvanted influenza vaccine (i.e. HD-IIV3, RIV3, or aIIV3); another age-appropriate influenza vaccine can be used if not available.
- FluMist, a live attenuated influenza vaccine (LAIV3) administered as a nasal spray, previously approved for persons age 2 through 49 years of age, was approved for self-administration for those age 18 years or older and caregiver administration for those age 2 through 17 years old (no longer requiring administration by a health care provider) in September 2024.
 - LAIV3 should not be given to pregnant or immunocompromised persons, close contacts and caregivers of severely immunosuppressed persons, children < 2 years-old, children age 2-4 years with asthma or history of wheezing in the past 12 months (asthma in persons ≥ 5 years is a precaution), or children receiving aspirin or salicylate containing therapy, persons with cochlear implants or cranial CSF leak.
- FluBlok, a recombinant influenza vaccine (RIV3), previously approved for persons 18 years or older, was approved for persons 9 years or older in March 2025.
- ACIP recommended that single-dose formulations are used which do not contain thimerosal as a preservative (This recommendation was not reviewed with a standard systematic review and evaluation of evidence. This topic was not discussed and the recommendation was not provided by the ACIP Influenza Workgroup).
- Timing: Start now and offer for entire flu season as long as flu viruses are circulating. Avoid delay particularly for:
 - Pregnant women in the third trimester.
 - Children who need 2 doses (children aged 6 months through 8 years who have never received influenza vaccine or who have not previously received a lifetime total of ≥ 2 doses) should receive their first dose as soon as possible after vaccine becomes available to allow the second dose (which must be administered ≥ 4 weeks later) to ideally be received by the end of October.
 - Patients for which concern exists that later vaccination might not be possible.

Informing “Individual Decision-Making” Discussions for COVID-19 Vaccines: AI/AN at Increased Risk for Severe COVID-19 Outcomes

ACIP recommendations: COVID-19 vaccination for all individuals ≥ 6 months old based on “individual decision-making” (i.e. shared clinical decision-making) with health care providers (including physicians, physician assistants, nurse practitioners, registered nurses, and pharmacists), noting that the risk-benefit of vaccination in individuals under age 65 is most favorable for those who are at an increased risk for severe COVID-19 and lowest for individuals who are not at an increased risk, according to the CDC list of COVID-19 risk factors.

When having discussions with patients or parents regarding COVID-19 vaccinations, as part of “individual decision-making,” it is important to consider that American Indians and Alaska Native people, including both children and adults, are at increased risk for severe outcomes from COVID-19, which is not accounted for by medical comorbidities alone.

RSV Vaccination Recommendations for Adults

- ≥ 75 years-old: One-time vaccine.
- Ages 50-74 at increased risk
 - Chronic heart, lung, or liver disease, end-stage renal disease, diabetes mellitus (c/b nephropathy, retinopathy, or other end organ damage or requiring treatment with insulin or a SGLT2 inhibitor), neurologic or neuromuscular condition affecting airway clearance or resulting in respiratory muscle weakness, hematologic disorder, morbid obesity ≥ 40 kg/m², moderate-severe immunocompromise, residence in nursing home, frailty, or residence in a remote community.

RSV Prevention for Infants and Toddlers

- September-January: RSV vaccination with Pfizer's Abrysvo (only RSV vaccine approved for pregnancy) recommended for those 32-36 weeks pregnant who did not receive RSV vaccine during a prior pregnancy.
- Monoclonal antibody (nirsevimab or clesrovimab):
 - For babies born to mothers who did not receive the maternal RSV vaccine during pregnancy or received it <2 weeks before delivery (if mother received RSV vaccine during a *prior* pregnancy, monoclonal antibody recommended for baby).
 - If born during October through March, nirsevimab (FDA approved in 2023) or clesrovimab (FDA approved in June 2025) should be given within 1 week after birth.
 - For others age < 8 months born outside of RSV season, administer nirsevimab or clesrovimab before RSV season (October-March; typically peaks in December/January).
 - Dose: < 5 kg: 50 mg IM X 1, ≥5kg: 100 mg IM X 1.
 - Children age 8-19 months at increased risk for severe RSV (all AI/AN children and others at increased risk including those with chronic lung disease of prematurity, severe immunocompromise, severe cystic fibrosis): Prior to entering their 2nd RSV season (regardless of prior receipt of monoclonal antibody or vaccination of mother during pregnancy).
 - Nirsevimab is the only approved monoclonal antibody for this indication. Dose: 200mg (100 mg IM given in 2 different sites).

Patient Education Resources for Respiratory Viruses/Immunizations

IHS Division of Epidemiology and Disease Prevention Educational Resources:

National IHS Public Health Council Public Health Messaging

Northwest Portland Area Indian Health Board (NPAIHB):

Email vaccinative@npaihb.org to access the vaccine resource folder

(while website is down; in the future, resources will be available at indiancountryecho.org).

Johns Hopkins Center for Indigenous Health. Knowledge Center: Resource Library

American Academy of Family Physicians. COVID-19 Vaccine: Fall 2025-26 Immunization Recommendations

American Academy of Pediatrics: Recommendations for COVID-19 Vaccines in Infants, Children, and Adolescents: Policy Statement. Recommended Child and Adolescent Immunization Schedule
<https://www.aap.org/immunization>; <https://www.healthychildren.org/immunizations> (e.g. COVID-19 What Families Need to Know)

American College of Obstetricians and Gynecologists. COVID-19 Vaccination Considerations for Obstetric–Gynecologic Care

Children’s Hospital of Philadelphia: Vaccine Education Center; Vaccine and Vaccine Safety-Related Q&A Sheets (e.g. Q&A COVID-19 Vaccines What You Should Know; Protecting Babies from RSV: What You should Know; RSV & Adults: What You Should Know); Influenza: What You Should Know).

Boost Oregon: Videos and Resources

Personal Testimonies: Families Fighting Flu: Our Stories

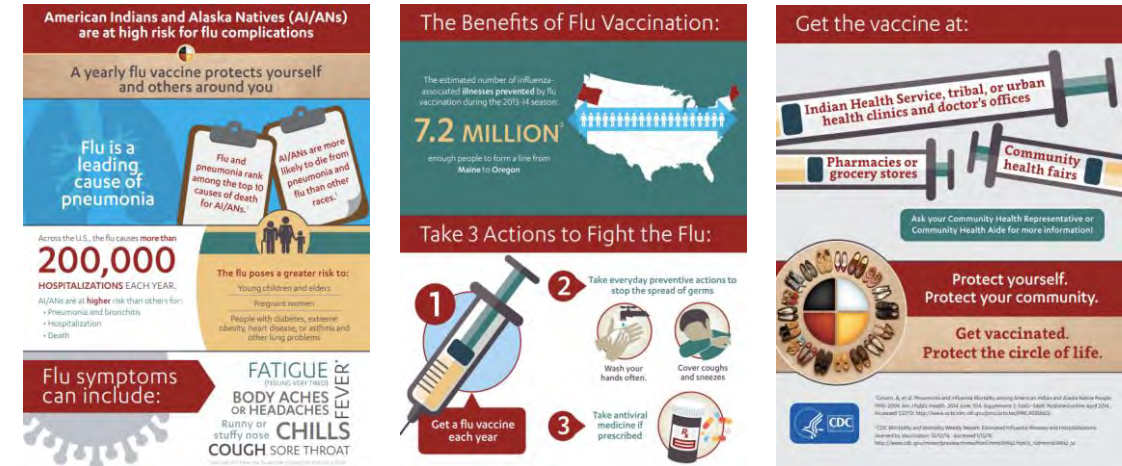
Washington State Department of Health: Flu Overview; Materials and Resources; Influenza (Flu) Information for Public Health and Healthcare

COVID-19; DOH COVID-19 Vaccine Schedule; Washington State Statewide Standing Order for COVID-19 Vaccine FAQs for the Public; West Coast Health Alliance announces vaccine recommendations for COVID-19, flu, and RSV | Washington State Department of Health

Oregon Health Authority: Flu Prevention; Immunization Resources; Immunize.org; Influenza (Flu)

Idaho Department of Health & Welfare: Flu (Seasonal and Pandemic); Child and Adolescent Immunization and Adult Immunization; COVID-19

Centers for Disease Control and Prevention: Preventing Seasonal Flu; Flu Resources; Preventing Spread of Respiratory Viruses When You're Sick
Indian Country ECHO/UNM Project ECHO: Making a Strong Vaccine Recommendation: Vaccine Communication; RSV



Examples of Patient Education Resources from the Northwest Portland Area Indian Health Board (NPAIHB)



Vaccination information for Natives by Natives

COVID-19 Vaccine

We have many ways to optimize our health and improve our lives. Vaccines are just one way we can protect ourselves from serious illnesses, like COVID-19 and the impacts of long COVID.

This handout is designed to help you understand COVID-19 and COVID-19 vaccines, so you can take care of yourself, your family, and your community.

“As a Crow Tribal member, we did lose a lot of Elders during the COVID pandemic, especially before vaccines... Now, we are social gathering, and we are lost without these Elders... When we get vaccinated, we are protecting our Elders and our culture. We have to protect our people. And vaccines do help with that. Even if your body is strong and healthy, it's still important to get vaccinated.”

— Lana Schendelina, Elder and Crow Tribal Member

Common COVID-19 Symptoms

COVID-19 is a virus that attacks your whole body and causes some or all of these:

- Fever
- Cough
- Loss of taste and smell
- Headaches
- Shortness of breath
- Sore throat
- Congestion

COVID-19 can also result in hospitalization and death, especially for those more vulnerable, like people with certain medical conditions and Elders. It can also result in a range of ongoing health problems – including long COVID – that can last weeks, months, or even years.

How COVID-19 Spreads

COVID-19 spreads through droplets in the air when a person with the virus coughs, sneezes, speaks, sings, or breathes. It can also spread through objects someone with the virus touches, sneezes, or coughs on. The virus can enter your body when you touch these objects and then touch your mouth, nose, or eyes.



Vaccination information for Natives by Natives

Vaccines When You Are Pregnant or Breast/Chestfeeding

Pregnancy and parenthood are sacred times when we make plans to care for ourselves and our babies. Part of this preparation includes keeping up to date on our vaccines.

While getting vaccinated is always something to discuss with your health provider, there are some important things to consider if you are pregnant or breast/chestfeeding.

How Vaccines Work

Within our bodies, each of us has warrior cells that stand guard and attack diseases. Vaccines help our warrior cells see and fight disease. For example, when we get the flu shot, the ingredients in the shot tell our warrior cells how to recognize and fight the flu. That's why if you get a flu shot, you are less likely to get sick with the flu. Getting vaccinated can also reduce the seriousness of illness if you happen to get sick.

Vaccines Protect You and Baby During Pregnancy

When you get vaccinated during pregnancy and your warrior cells learn to recognize and fight a particular illness, this information gets shared with your unborn baby. However, the protection offered to your baby starts to fade in the weeks and months after birth. That's why it's important to talk with your health provider about what vaccines both you and your newborn need to stay healthy.

Vaccines to Get When You're Pregnant

Several vaccines are recommended for pregnant people. These include:

- Tdap (whooping cough) vaccine
- Flu vaccine
- COVID-19 vaccine

Depending on your history, you and your doctor may decide that you need additional vaccines.

“We work together, using modern and traditional medicines to help keep our tribe safe from COVID-19. I got vaccinated to protect my family, my tribe, and from COVID-19. COVID vaccines are safe, and the benefits of getting a COVID vaccine outweigh the risk of getting COVID-19 infection.”

— Dr. Frank Anashkin, M.D. (LTS, Endocrinologist, UPR Eastern Inpatient Unit Clinic, medical Director of Family Medicine Physician)



Vaccination information for Natives by Natives

Vaccines and Breast/Chestfeeding

Breast/chestfeeding is one of the best ways to nourish, comfort, and connect with your baby. When you are vaccinated, breast/chestfeeding can also help you pass on important instructions for recognizing and fighting serious illnesses, like COVID-19. Likewise, getting vaccinated as a new parent makes it less likely that you will get sick and make your baby sick.

Talk with your health provider to learn what specific vaccines are recommended for you while you are breast/chestfeeding.

“One of the most common questions I get asked from many new parents and parents-to-be is whether it is safe to get vaccinated. The short answer is yes! You just need to check in with your health provider.”

— Dr. Lillian Scott, M.D. (Medical Provider and Healthy Mother, Tribal Member)

The Choice is Yours

As you think about getting vaccinated, read up and bring any questions or concerns you have to your health provider. They can talk with you and help explain why certain vaccines are safe and effective and which vaccines you may want to temporarily avoid. They will also share other tools to keep you and your family healthy.

Where to Get Vaccinated

To get vaccinated contact your local Tribal clinic, IHS facility, or visit a local pharmacy or clinic.

VaccineNative

This handout was developed by VaccineNative – a campaign dedicated to creating accurate vaccine information for Native people by Native people. We do this by gathering info from trusted Elders, Native health professionals, and other experts.

All of our materials are reviewed by the VaccineNative Alliance, a collaboration of staff from Tribal Epidemiology Centers across the nation.

Additional Information

For additional information, check out www.IndianCountryCHO.org/VaccineNative. For questions, contact us at VaccineNative@npaihb.org.



Protecting Your Kids from Respiratory Illnesses

Respiratory illnesses like whooping cough, pertussis, flu, RSV, and COVID-19 can be extremely dangerous for kids.

Who Should Get Vaccinated

Whooping Cough (Pertussis)	Whooping Cough (Pertussis)
Infants, 2, 4, and 6 mo. AND 15-18 mo. and 4-6 years old	Infants, 2, 4, and 6 mo. AND 15-18 mo. and 4-6 years old

Pneumonia	Pneumonia
Infants, 2, 4, and 6 mo. AND 15-18 mo. and 4-6 years old	Infants, 2, 4, and 6 mo. AND 15-18 mo. and 4-6 years old

RSV	RSV
Infants, 2, 4, and 6 mo. AND 15-18 mo. and 4-6 years old	Infants, 2, 4, and 6 mo. AND 15-18 mo. and 4-6 years old

COVID-19	COVID-19
Everyone 6 mo. and older every year	Everyone 6 mo. and older every year

Why Buggy Bats?

COVID-19 is a virus that spreads from people who cough, sneeze, or breathe. It can also spread through objects someone with the virus touches, sneezes, or coughs on. The virus can enter your body when you touch these objects and then touch your mouth, nose, or eyes.

Vaccines are Safe

Vaccines are safe and effective. People are more likely to get sick by ignoring signs than by getting vaccinated to stay healthy.

Don't Have Regrets

The more of these vaccines you get, the more likely you are to keep your child and others safe from serious illnesses.

Learn more www.IndianCountryCHO.org/VaccineNative



Protecting Your Kids from Respiratory Illnesses

COVID-19 Vaccine

Vaccines When You are Pregnant or Breast/Chestfeeding

NPAIHB: For access to the vaccine resource folder, email vaccinative@npaihb.org (while website is down; in the future, resources will be available at indiancountryecho.org).

Additional Resources for Measles

American Academy of Pediatrics. Measles. In: Kimberlin DW, Banerjee R, Barnett ED, Lynfield R, Sawyer MH, Long SS, eds. Red Book: 2024–2027 Report of the Committee on Infectious Diseases. 33rd Edition. Itasca, IL: American Academy of Pediatrics; 2024: 570-585.

Centers for Disease Control and Prevention. Adult Immunization Schedule by Age. Available at: <https://www.cdc.gov/vaccines/hcp/imz-schedules/adult-age.html>.

Centers for Disease Control and Prevention. Child and Adolescent Immunization Schedule by Age. Available at: <https://www.cdc.gov/vaccines/hcp/imz-schedules/child-adolescent-age.html>

Centers for Disease Control and Prevention. Guidelines for Environmental Infection Control in Health-Care Facilities. Available at: <https://www.cdc.gov/infection-control/media/pdfs/guideline-environmental-h.pdf>. 2003.

Centers for Disease Control and Prevention. Interim Infection Prevention and Control Recommendations for Measles in Healthcare Settings. Available at: <https://www.cdc.gov/infection-control/hcp/measles/index.html>

Centers for Disease Control and Prevention. Measles. In: Hall E., Wodi A.P., Hamborsky J., et al., eds. Epidemiology and Prevention of Vaccine-Preventable Diseases. 14th ed. Washington, D.C.: Public Health Foundation; 2021. Available at: <https://www.cdc.gov/pinkbook/hcp/table-of-contents/chapter-13-measles.html>

Centers for Disease Control and Prevention. Routine Measles, Mumps, and Rubella Vaccination. Available at: <https://www.cdc.gov/vaccines/vpd/mmr/hcp/recommendations.html#hcp>

Centers for Disease Control and Prevention. Questions About Measles. Available at: <https://www.cdc.gov/measles/about/questions.html>

Filardo TD, Mathis A, Raines K, et al. Measles. In: Roush SW, Baldy LM, Mulroy J, eds. Manual for the Surveillance of Vaccine Preventable Diseases. Atlanta, GA: Centers for Disease Control and Prevention. Paged last reviewed:05/13/2019. Available at: https://www.cdc.gov/surv-manual/php/table-of-contents/chapter-7-measles.html?CDC_AAref_Val=https://www.cdc.gov/vaccines/pubs/surv-manual/chpt07-measles.html

Oregon Health Authority. Measles / Rubeola (vaccine-preventable). Available at: <https://www.oregon.gov/oha/ph/diseasesconditions/diseasesaz/pages/measles.aspx>

Washington State Department of Health. Measles. Available at: <https://doh.wa.gov/you-and-your-family/illness-and-disease-z/measles>; <https://doh.wa.gov/public-health-provider-resources/notifiable-conditions/measles>

Resources for H5 Prevention

Centers for Disease Control and Prevention. Reducing Exposure for Workers to Avian Influenza A Viruses. Available at: <https://www.cdc.gov/bird-flu/worker-safety/index.html>

Idaho State Department of Agriculture. Avian Influenza. Available at: <https://agri.idaho.gov/animals/animal-disease/avian-influenza/>

Oregon Department of Agriculture. Avian Influenza. Available at: <https://www.oregon.gov/oda/animal-health-feeds-livestock-id/animal-diseases/avian-influenza/Pages/default.aspx>

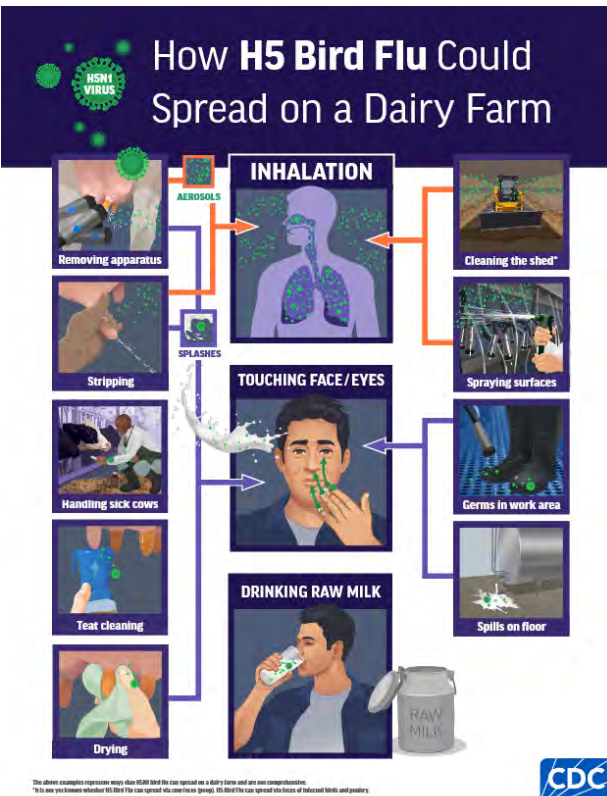
Oregon Department of Fish and Wildlife. Wildlife and Fish Health - Avian Flu. Available at: https://www.dfw.state.or.us/wildlife/health_program/avian-flu/index.asp

Washington Department of Health. Avian Influenza. Available at: <https://doh.wa.gov/you-and-your-family/illness-and-disease-z/avian-influenza>

Washington State Department of Agriculture. Available at: <https://agr.wa.gov/departments/animals-livestock-and-pets/avian-health/avian-influenza>

Washington Department of Fish and Wildlife. Wildlife and Fish Health - Avian Flu. Available at: <https://wdfw.wa.gov/species-habitats/diseases/bird-flu#human-hpai>

Examples of Flyers on PPE for Workers



Dairy Workers should wear appropriate PPE to reduce their risk of H5 bird flu.

For H5N1 Bird Flu Protection

For H5N1 Bird Flu Protection in a Milking Parlor

The milking parlor option is for limited settings, where the source of contamination is only from one side. Talk to your supervisor to know if this applies to you.

You should wear personal protective equipment (PPE) when in contact with or around dairy cows, raw milk, other animals, or surfaces and other items that might be contaminated with virus. Ask your supervisor if you have questions about what type of PPE to wear or when or how to use it. Recommended PPE may include:

- Head cover or hair cover
- Safety goggles
- Optional face shield over the top of goggles
- NIOSH Approved* particulate respirator (such as an N95*)
- Coveralls that keep you dry
- Optional waterproof apron over the top of the coveralls
- Disposable gloves with optional outer work gloves
- Boot covers or boots

In milking parlors, where the source of contamination is only from one side, you may be able to use a sleeved apron in place of the coveralls and waterproof apron.

More information on worker safety and putting on and removing PPE is available at <https://www.cdc.gov/bird-flu/prevention/farm-workers.html>. When working with animals or materials that could be infected or contaminated with H5N1 bird flu, monitor your health and continue to monitor for 10 days after your last exposure.

CDC

AVIAN INFLUENZA GUIDANCE FOR FARM WORKERS

What is Avian Flu (H5N1)?

H5N1 is a virus that can cause a disease known as avian influenza or "bird flu." Although it is rare, people can get sick with bird flu when they come into contact with infected birds or animals, their body fluids, feces, or their environments.

How Farm Workers Can Protect Themselves:

1. Wear protective clothing when working with sick or dead animals, feces, or milk.
2. Wash your hands throughout the day and before eating, drinking, or smoking.
3. Raw milk and raw milk products may contain harmful bacteria or viruses, including H5N1 virus, and consuming raw milk is a risk for infection. Pasteurization removes these germs.

Legend:

- Disposable head or hair cover
- Safety goggles (vented or indirectly vented)
- NIOSH approved respirator (e.g., N95 mask)
- Disposable fluid-resistant coveralls
- Disposable gloves
- Rubber boots or boot covers

Symptoms of Avian Flu in humans can include:

- Headaches
- Fatigue
- Fever
- Diarrhea
- Eye redness, tearing, or irritation
- Runny or stuffy nose
- Muscle or body aches
- Trouble breathing
- Cough
- Sore throat
- Seizures
- Sneezing
- Nausea
- Vomiting
- Rash

What to do if you are exposed or feel sick:

- If you were in contact with birds or animals infected with H5N1 virus or their environments, you should monitor yourself for symptoms during contact and for 10 days after you stopped contact.
- If you start to feel sick and have symptoms of bird flu, you should isolate away from other people and immediately contact your local health department. You can call 206-418-5500 to ask for the contact information for your local health department.

More information:

- For questions about bird flu or about how to get tested:
- Call the Washington State Department of Health at 1-800-525-0127 or visit doh.wa.gov/avian-influenza
- For questions about sick or dead animals on the farm:
- Contact your farm veterinarian.

WSDA **HEALTH**

Adapted with permission from the New Mexico Department of Health, 4/20/2016, April 2016. To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email deaf@dcsh.nm.gov.

Prevent avian influenza: keep yourself and your family safe with PPE

Legend:

- Disposable head or hair cover
- Safety goggles (vented or indirectly vented)
- NIOSH approved respirator (e.g., N95 mask)
- Disposable fluid-resistant coveralls
- Disposable gloves
- Rubber boots or boot covers

Prevent avian influenza: keep yourself and your family safe with PPE

Safely remove PPE:

1. Clean and disinfect boots
2. Remove boots
3. Remove and dispose of coveralls, avoid touching any skin or inner clothing as you go
4. Remove and dispose of gloves
5. Wash hands with soap and water
6. Remove goggles, head cover, and respirator/mask
7. Clean and disinfect goggles and respirator if reusable
8. Immediately wash hands with soap and water again
9. Remember that the outside of your PPE is contaminated; avoid touching your skin or inner clothing while wearing or removing PPE

If your flock or worksite tested positive for bird flu, or if you are awaiting results, wearing personal protective equipment (PPE) can help keep you and your family healthy.

1. Wear PPE when in contact with sick or dead poultry, their feces, or anything in their coop or when entering any structures where there are sick or dead poultry present.
2. Wash hands with soap and water after removing PPE.
3. Do not wear or store contaminated clothing or equipment in your home or away from your work site.
4. Contact your local public health department for additional guidance. You can call 206-418-5500 to ask for the contact information for your local health department.

Washington State Department of Health

To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email civilrights@doh.wa.gov.

DOH 420-487 June 2023

Handouts for Hunters

Highly Pathogenic Avian Influenza (HPAI)



Hunters—Protect Your Poultry and Pet Birds From Avian Influenza

Avian influenza, or “bird flu,” is a respiratory disease of birds caused by influenza A viruses. Wild birds, such as ducks, gulls, and shorebirds, can carry and spread these viruses but may show no signs of illness. However, avian influenza can kill domestic poultry (such as chickens, turkeys, ducks, and geese).

Avian influenza spreads quickly through direct, bird-to-bird contact. It can also spread to birds via contaminated surfaces and materials, including people's clothing, shoes, or hands.

If you raise poultry or keep pet birds, follow the recommendations below to make sure you don't spread avian influenza to your birds.

When Hunting

- Do not harvest or handle wild birds that are obviously sick or found dead.
- Wash your hands with soap and water immediately after handling game. If soap and water are not available, use an alcohol-based hand sanitizer.

When Dressing Game Birds

- Always wear disposable gloves when handling or cleaning game and wash hands with soap and water immediately afterward. If soap and water are not available, use an alcohol-based hand sanitizer.
- Dress game birds in the field whenever possible.
- If you can't dress birds in the field, clean them in a location away from poultry and other birds.
- Keep a separate pair of shoes to wear only in your game cleaning area. If this is not possible, wear rubber footwear and clean and disinfect your shoes before entering or leaving the area.
- Use dedicated tools for cleaning game, whether in the field or at home. Do not use those tools around poultry or pet birds.
- Double bag the offal and feathers. Tie the inner bag, take off your gloves, and leave them in the outer bag before tying it closed. Then wash your hands or use hand sanitizer.

- Place the bag in a trash can that poultry and pet birds cannot access. Make sure the trash can is covered and children, pets, or other animals can't get into it.
- Wash all tools and work surfaces with soap and water. Then, disinfect them using a freshly mixed chlorine solution consisting of 1/3 cup of household bleach per 1 gallon of water.

After Coming in Contact With Wild Birds on Your Property

- Do not handle wild birds that are obviously sick or found dead.
- Wear disposable gloves while cleaning bird feeders and wash hands with soap and water immediately afterward. If soap and water are not available, use an alcohol-based hand sanitizer.

Protecting Yourself

Although avian influenza viruses rarely infect people, you should still protect yourself. To reduce your risk:

- Do not eat, drink, or put anything in your mouth while cleaning or handling game.
- Avoid cross-contamination. Keep uncooked game in a separate container, away from cooked or ready-to-eat foods.
- Cook game meat thoroughly. Poultry should reach an internal temperature of 165 °F to kill disease organisms and parasites.

About Avian Influenza

Avian influenza viruses are classified based on a combination of two groups of proteins: the hemagglutinin or “H” proteins, of which there are 16 (H1–H16), and neuraminidase or “N” proteins, of which there are 9 (N1–N9). These viruses are further categorized as either low or high pathogenicity, indicating their ability to produce disease in poultry.

Low pathogenicity avian influenza is common in wild birds in the United States and around the world. In most cases, it causes few or no signs of infection. However, some strains can become highly pathogenic in poultry.

Highly pathogenic avian influenza is extremely contagious and deadly to domestic poultry. If we find it in the United States, we must quickly eradicate the disease to protect our Nation's flocks and economy.

Questions?

For more information about avian influenza in domestic and wild birds, go to www.aphis.usda.gov and search “avian influenza.”

For more information about avian influenza and human health, visit the Centers for Disease Control and Prevention (www.cdc.gov) and search “avian influenza.”

Avian Influenza and Your Health Hunters and Hunting FAQs

Avian influenza is a virus that is easily spread from bird to bird. This virus is causing significant illness and death in wild bird populations worldwide, including here in Washington state.

Birds infected with avian influenza spread the virus through their saliva, mucous and feces. **You can become infected if the virus gets into your eyes, nose, or mouth, or if you breathe it in.** Bird flu infections in people are rare and usually happen after a long period of contact with infected birds while not wearing appropriate personal protective equipment (also called PPE).

Avian influenza rarely causes illness in humans, but it is possible. Follow these guidelines to stay healthy:

Before the hunt:

- Pack the supplies you'll need to safely dress game, including:
 - Rubber or disposable gloves
 - An N95 respirator or well-fitting facemask
 - Eye protection (such as safety glasses or goggles)
 - A spray bottle with 10% bleach solution (mix 1 cup of bleach with 1 gallon of water)
 - Soap
 - Water



- Talk to your healthcare provider about getting the seasonal flu vaccine. It is especially important that people who may have exposure to sick birds get a seasonal flu vaccine. The seasonal flu vaccine will not prevent you from getting the bird flu, but it will reduce the chance you'll get sick with human and bird flu viruses at the same time.

While in the field:

- Do not harvest or handle wild birds that are obviously sick or found dead.
- Prevent dogs from having contact with or eating sick or dead wild birds.
- Dress game birds in a well-ventilated area.
- Wear rubber or disposable gloves, an N95 respirator or well-fitting facemask, and eye protection when dressing birds.
- Do not eat, drink, or smoke while cleaning game.
- When done handling game, immediately wash hands thoroughly with soap and water.
- Clean equipment used for dressing with 10% bleach solution.



doh.wa.gov/avian-influenza

DOH 420-482 May 2023
To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email civil.rights@doh.wa.gov.

Returning home:

- Clean all shoes, equipment and surfaces that have been in contact with birds with soap and water and then disinfect with a 10% bleach solution. Wash all clothes in contact with birds in hot water with detergent and dry on high heat.
- All game should be thoroughly cooked to an internal temperature of 165 degrees Fahrenheit.
- Do not feed raw meat or other parts of the carcass to dogs or other animals.
- Check yourself for symptoms of illness for 10 days after the last day of exposure to potentially infected birds or contaminated surfaces or equipment. Contact your local health jurisdiction and healthcare provider if you start to feel sick.
- Pets that have contact with wild birds, such as hunting dogs, may be at higher risk of exposure to avian flu. Seek veterinary care immediately if your pet becomes sick.

What are the symptoms of avian influenza in humans?

The reported signs and symptoms of avian influenza infections in humans include:

- Fever or feeling feverish/chills
- Cough
- Runny or stuffy nose
- Eye tearing, redness, irritation
- Sneezing
- Sore throat
- Trouble breathing
- Short of breath
- Fatigue (very tired)
- Muscle or body aches
- Headaches
- Nausea
- Vomiting
- Diarrhea (the runs)
- Seizures
- Rash

What should I do if I feel sick and I might have been exposed to avian influenza?

Contact your local health department and let them know about your contact with birds. You can look up the contact information for your

local health department here: doh.wa.gov/about-us/washingtons-public-health-system/washington-state-local-health-jurisdictions or call 206-418-5500 and ask for the contact information for your local health department.

If you need medical treatment, before you arrive in person first call your healthcare provider to let them know about your possible exposure to avian influenza.

Mental Health Resources

Animal health emergencies can cause stress in affected communities. If you notice changes in your emotions or thinking, or if a situation could be life-threatening, get immediate emergency help by dialing 911. If you have depression, suicidal thoughts, or just need to talk to someone, contact one of these groups:

Washington County Crisis Line

Call your local county crisis line to request assistance (24/7/365) for you, a friend, or family member: www.bca.wa.gov/health-care-services-supports/behavioral-health-recovery/mental-health-crisis-lines.

Washington Listens

Washington Listens is a free, anonymous service for anyone in the state, providing support to people who feel sad, anxious, or stressed. (1-833-681-0211)

National Suicide Prevention Lifeline

24/7, free and confidential crisis resources for you or your loved ones: Dial 988 or 1-800-273-TALK (1-800-273-8255).



doh.wa.gov/avian-influenza

Handouts for Those with Backyard Flocks

How to Prepare for a Healthy Family and Flock

Your new chicks, ducklings, and other birds can carry germs like *Salmonella* or bird flu that may make them – and you – sick. Follow these tips to keep your family and your birds safe.

Wash your hands after touching or caring for birds.

You can get sick if you touch your birds, or bird supplies, and then touch your eyes, nose, mouth, or face.



- Don't touch your face while handling or caring for your birds.
- Always wash your hands with soap and water after touching or caring for your birds.
- Supervise children when they are interacting with birds.

While chicks and ducklings may seem like the perfect size for your child to hold, children have a higher risk for severe illness. Children under the age of five should not touch or hold birds because of this.



Keep your birds outside.

Although it may be tempting, do not bring new birds inside your home. The best way to keep their germs outside, is to keep them outside.

- Keep a separate pair of shoes and other supplies you use when caring for birds outside your home.
- Clean your birds' supplies, such as water or food containers, outside.



Don't let your birds have contact with wild birds.

Bird flu spreads from wild birds, especially wild ducks or geese, to backyard poultry. Don't let your birds have contact with other birds or wild animals. This includes having a cover over the top of the area where they live and roam.

Don't touch sick or dead birds.

If your birds are sick or dying, wear gloves and an N95 mask when caring for them. Report sick or dead birds to your veterinarian and the Washington State Department of Agriculture at 1-800-606-3056.



Department of Health's Backyard Poultry page



CDC's Healthy Pets, Healthy People backyard poultry page

For questions, call Washington State Department of Health at 1-800-525-0127.



DOH 420-467 March 2023

To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email civil.rights@doh.wa.gov.



Avian Influenza in Idaho

Information for bird owners

Avian influenza (AI) is a virus which can infect all birds. Domesticated birds may become infected through direct contact with infected waterfowl or other infected poultry, or through contact with surfaces that have been contaminated with the viruses.

Two different strains:

*Both strains can occur naturally in wild migratory waterfowl.

- **Highly pathogenic avian influenza (HPAI)** – these virus strains are deadly to domestic poultry and can spread rapidly from flock to flock. This is a **reportable** disease. Disease can be slow and mild in waterfowl.
- **Low pathogenicity avian influenza (LPAI)** – these virus strains are most likely to be carried by wild migratory waterfowl and shorebirds without causing illness. LPAI can infect domestic poultry. Symptoms are usually milder.

How is HPAI Spread?

- HPAI is spread by direct contact between birds, by coughing and sneezing and through poop.
- People can spread HPAI by moving infected birds, moving contaminated equipment and feed, and by wearing clothing and shoes that have been in contact with infected birds.

Symptoms Include:

- Sudden death without clinical signs
- Lack of energy and appetite
- Decreased egg production or soft-shelled or misshapen eggs
- Swelling of head, comb, eyelid, wattles and hocks
- Purple discoloration of wattles, comb and legs
- Nasal discharge, coughing and sneezing
- Incoordination

Report Sick Birds

- If you have multiple sick or dying birds, call a local veterinarian, or refer to ISDA's avian influenza flow chart for reporting guidance.
- The avian influenza flow chart and bird owner reporting form can be found at agri.idaho.gov.

Poultry owners and growers are encouraged to always practice good biosecurity to prevent the spread of AI. Visit agri.idaho.gov for more information.

Source: USDA APHIS Defend the Flock

