

Current Week's Data at a Glance: April 15-21, 2012 (Week 16)

Oregon Influenza-Like Illness (ILI) Activity Level¹	Minimal
Oregon Influenza Activity Geographic Spread²	Local
Percent of outpatient visits for ILI	0.81%
Positive influenza tests³	2
Influenza-associated hospitalizations⁴	8
Reported ILI outbreaks	0
Influenza-associated pediatric mortality	0
Respiratory Syncytial Virus (RSV) activity⁵	14%

¹Based on proportion of outpatient visits—levels include minimal, low, moderate, and high

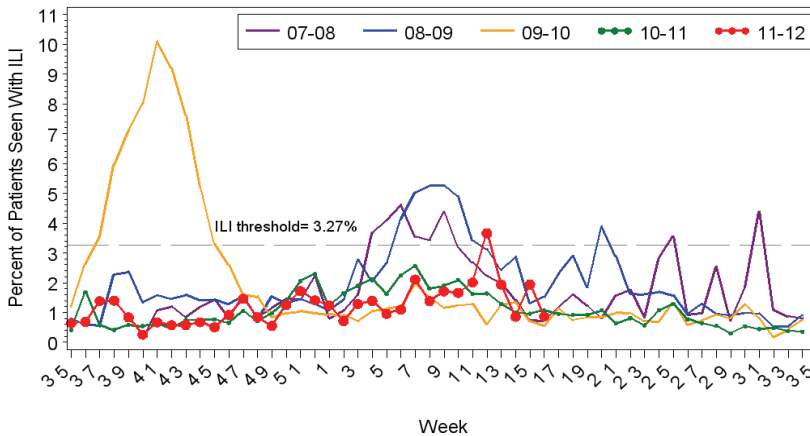
²Levels for geographic spread include no activity, sporadic, local, regional, and widespread

³Reported by state public health lab (OSPHL) from outbreaks, tri-county hospitalizations, and sentinel ILI surveillance; includes only current week positive tests

⁴Based on hospitalization surveillance in Clackamas, Multnomah, and Washington counties only.

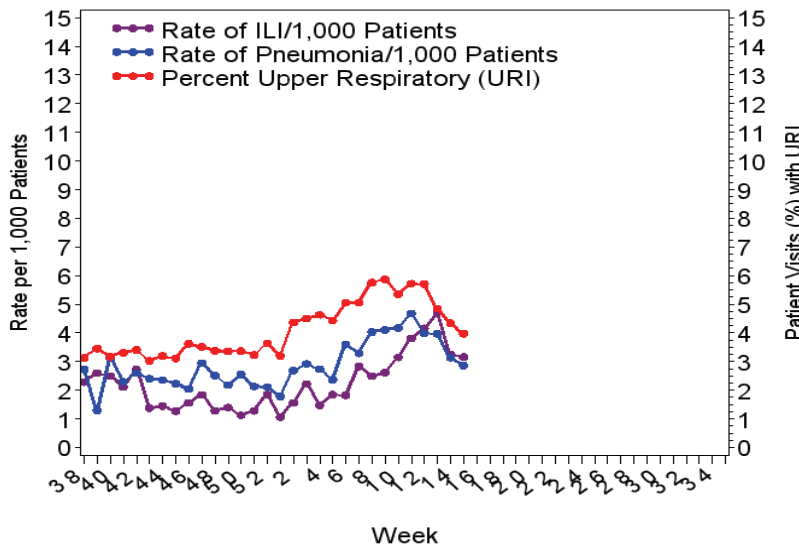
⁵Percent positivity based on data from Oregon's RSV Laboratory Surveillance System

Oregon Outpatient Influenza-Like Illness Surveillance Network (ILINet) 27APR12
Percent of Outpatients with Influenza-like Illness (ILI)
2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012



Surveillance weeks run from Sunday through Saturday
Sentinel providers report the number of patients seen with influenza-like illness as well as total patients seen each week.

Oregon Outpatient ILI/URI/Pneumonia Surveillance, OCHIN 2011-2012



Categories are not mutually exclusive, and are based on ICD-9 diagnosis codes or combinations of codes.

ILINet: Oregon's Outpatient

Influenza-like Illness Surveillance Network: Oregon's outpatient influenza-like illness (ILI) network comprises 25 voluntary healthcare providers from all across Oregon who report the number of patients with influenza-like illness as well as total number of patient visits for each week during the surveillance season.

The percent of outpatients seen with ILI for Week 16 of 2012 was 0.81%, below Oregon's seasonal baseline.

Note: ILI is defined as fever ($\geq 100^{\circ}\text{F}$) and cough or sore throat. The average ILI reported during influenza weeks over the previous three seasons is 3.27% (although this figure is skewed upward by the H1N1 pandemic of 2009).

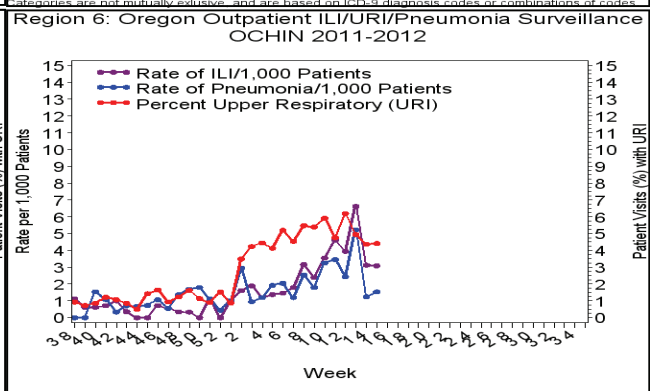
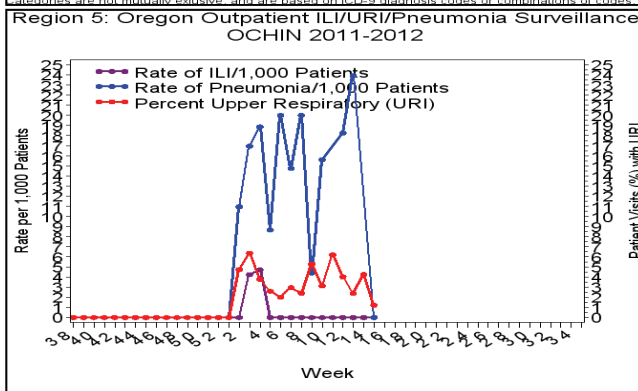
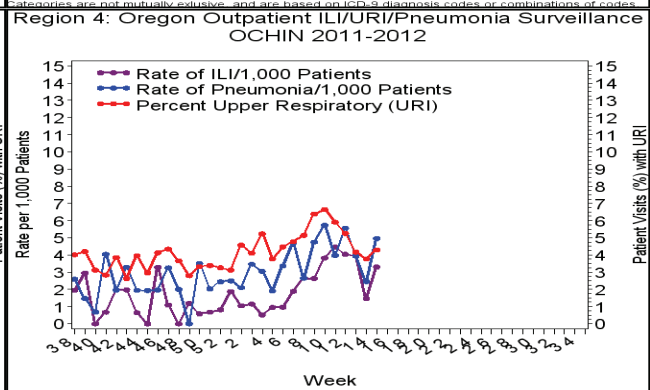
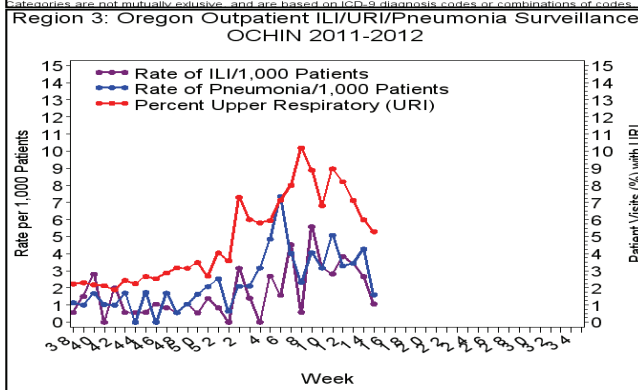
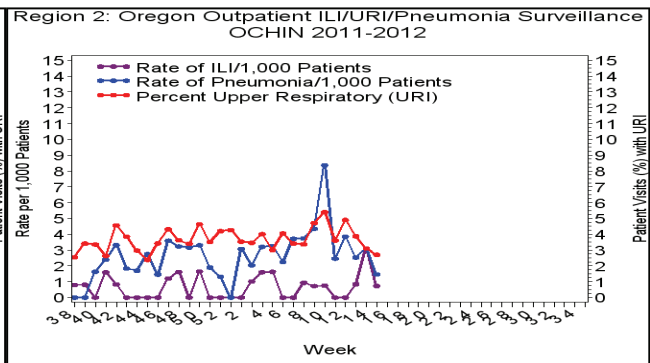
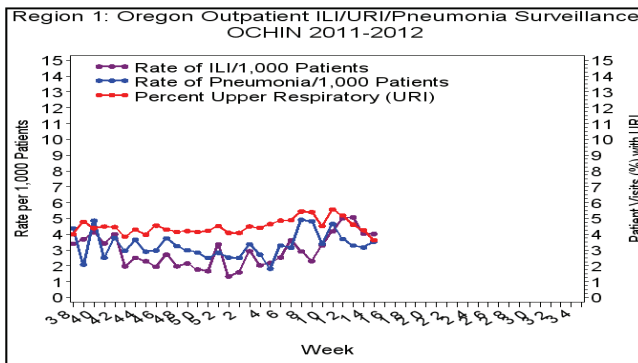
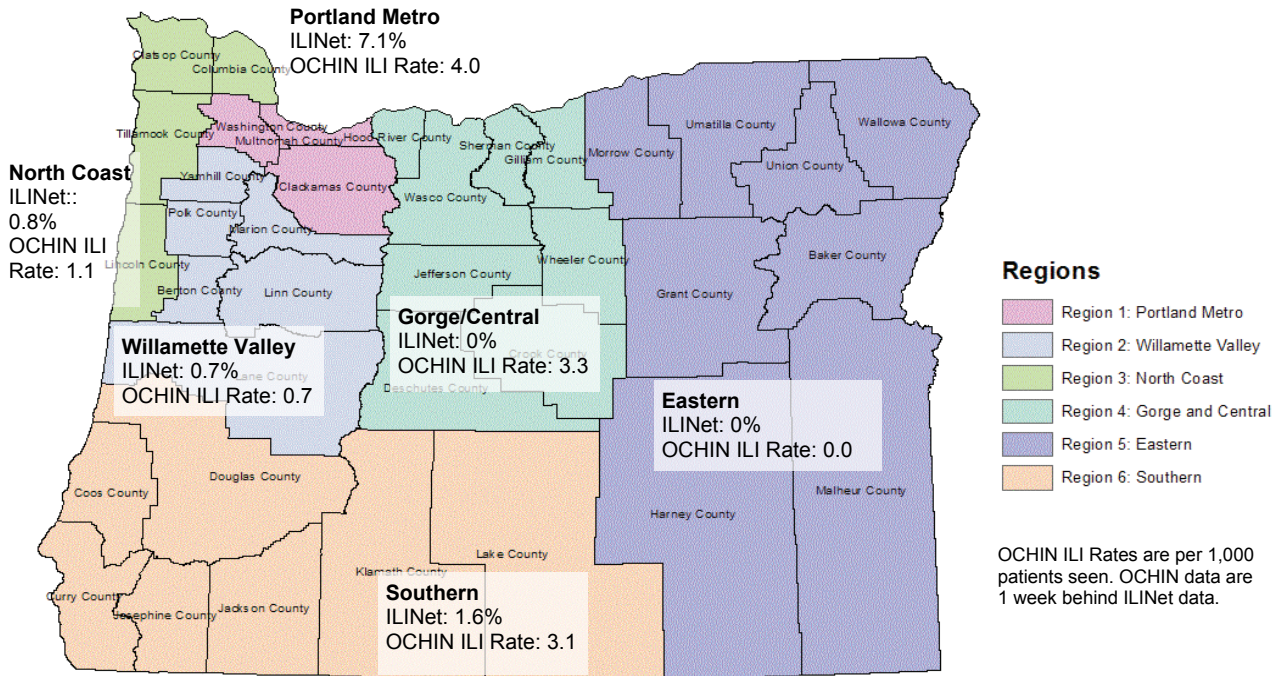
OCHIN Influenza-like Illness Surveillance:

Oregon Public Health Division also receives discharge diagnoses data from OCHIN Inc., a collaborative comprising 22 member organizations of federally qualified health centers (FQHC) and rural health centers in Oregon, representing 103 clinics throughout the state.

The rate of ILI per 1,000 OCHIN patients was 3.2 during Week 15, 2012.

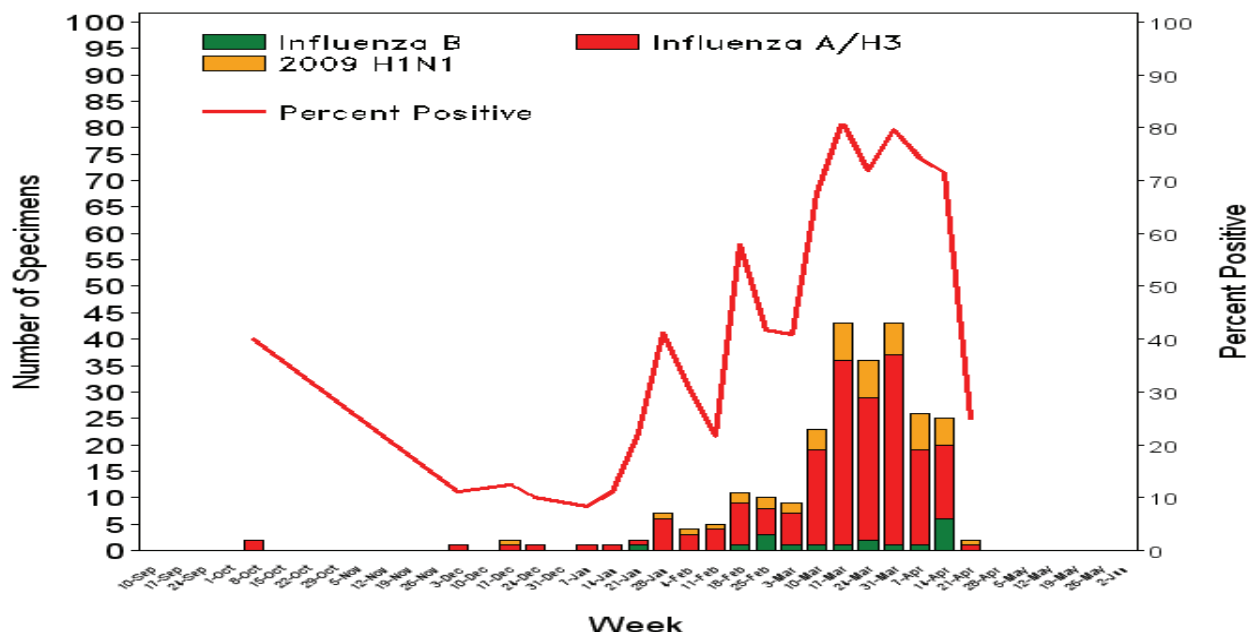
Note: OCHIN reports of ILI are one week behind ILINet reports. Respiratory illness categories for OCHIN data are based on ICD-9 diagnostic codes.

ILI Activity by Region: ILINet (% ILI) and OCHIN (ILI Rate)



Laboratory Surveillance:

Number and Percent Positive for Influenza by PCR
OSPHL 2011-2012



The Oregon State Public Health Laboratory (OSPHL) is performing influenza typing and sub-typing by PCR on specimens from the following groups of patients:

- Patients seen by Oregon Sentinel providers from ILINet & Influenza Incidence Surveillance Project (IISP).
- Patients hospitalized with influenza-like illness in the Portland Tri-County area (Multnomah, Clackamas and Washington counties) as part of the CDC-funded study, The Influenza Hospitalization Network (FluSurv-NET). We encourage submission of specimens to OSPHL even if rapid influenza tests are negative or have not been performed.
- Patients identified as part of an outbreak of respiratory illness. Please report clusters of respiratory illness to the on-call ACDP epidemiologist at (971-673-1111), who will then make decisions about the need for testing at the OSPHL.

Tables 1 and 2 show the current week and cumulative totals (since Oct. 1, 2011) for influenza and other respiratory virus specimens tested at OSPHL.

Table 1. Oregon State Public Health Laboratory Influenza Specimen Type and Subtype, 2011-12. *

	Current Week	Cumulative
Influenza A	2 (25%)	232 (45%)
2009 pH1N1	0	35 (7%)
Seasonal A H3	2 (25%)	197 (38%)
Influenza B	0	18 (3%)
Pending	5	-
Unsatisfactory	0	7 (1%)
Undetected	1 (13%)	266 (51%)
Total Tested	8	516 (100%)

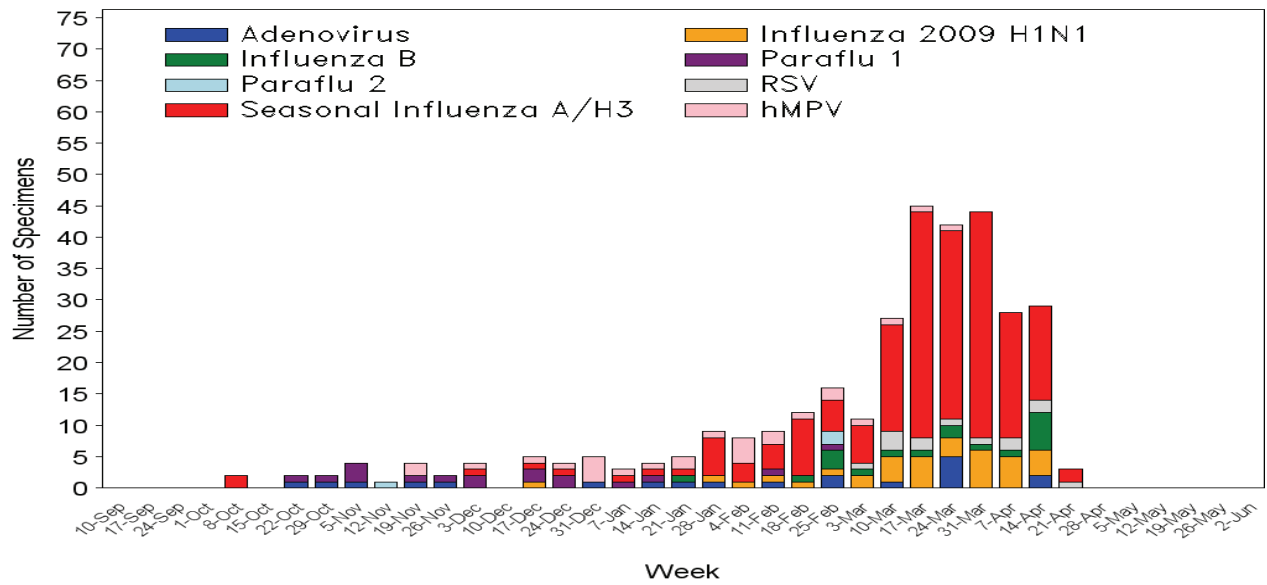
¹ Specimens where influenza not detected— other respiratory virus detection shown in Table 2. Includes PCR and culture positive labs.

Table 2. Oregon State Public Health Laboratory Non-Influenza Respiratory Viruses, 2011-12. *

	Current Week	Cumulative
Adenovirus	0	20 (6%)
Human Metapneumovirus	0	27 (7%)
Parainfluenza type 1	0	17 (5%)
Parainfluenza type 2	0	3 (<1%)
Respiratory Syncytial Virus	1 (13%)	13 (3%)
Total Tested	8	363

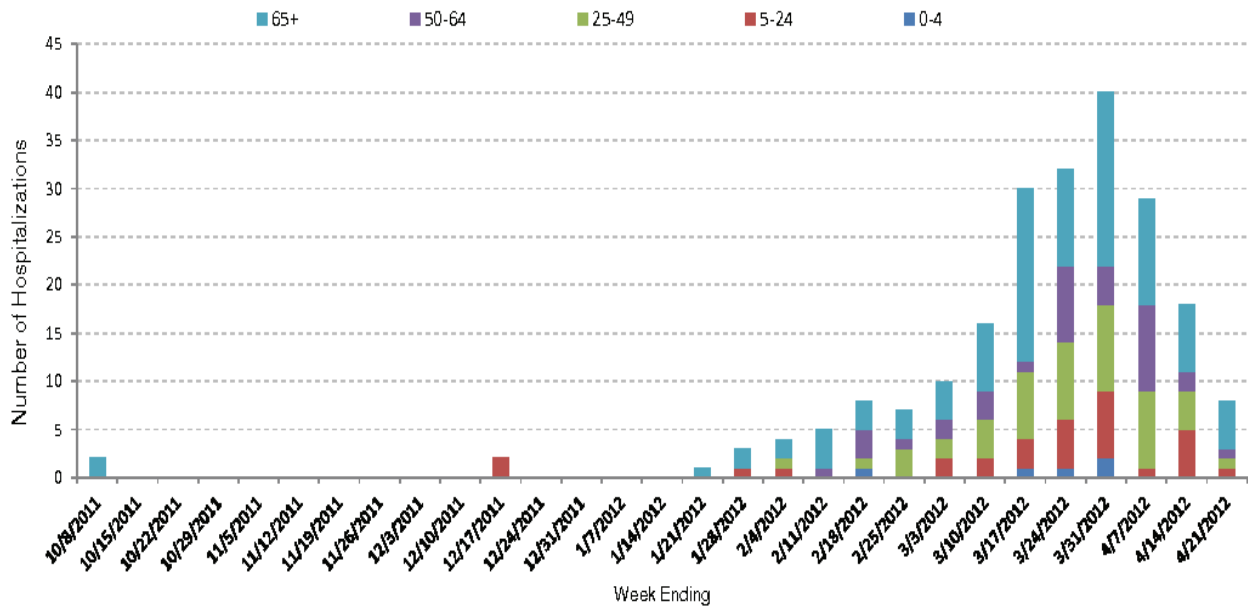
*Includes specimen testing from outbreaks, hospitalized cases, statewide ILINet sentinel provider surveillance, and the state Influenza Incidence Surveillance Project (IISP). Totals tested from Table 1 & 2 not mutually exclusive.

Viral Respiratory Pathogens Positive at OSPHL by Week, 2011-2012



Outbreaks: No lab-confirmed influenza outbreaks have been reported so far for Week 16 (April 15-21, 2012). Through Week 16 of the 2011-2012 season, 13 ILI outbreaks have been reported.

Portland Metro Area Influenza-Associated Hospitalizations, 2011-2012, by Week and Age Group



Laboratory-Confirmed Influenza Associated Hospitalizations: Laboratory-confirmed influenza-associated hospitalizations are reported by hospitals in the Portland Tri-County area (Clackamas, Multnomah, and Washington counties) for all ages where patients are admitted to the hospital and have tested positive for influenza by rapid test, direct or indirect fluorescent antibody test, culture, PCR, or serology. **8 influenza-related hospitalizations were reported during Week 16, 2012.** 215 influenza-related hospitalizations have been reported so far during the 2011-2012 season. To report hospitalizations in the Portland Metro area, contact matthew.laidler@state.or.us

Clinicians interested in becoming an ILINet sentinel provider:

Because Oregon has about 17 counties lacking sentinel flu surveillance, we need you. We are especially interested in new ILI sentinel providers in the eastern and rural areas of Oregon. Please either email Patricia Newman at Patricia.Newman@state.or.us, or telephone at 971-673-1076. Reporting is simple, includes free PCR testing, and helps us monitor influenza activity including emerging influenza strains.

National Data

U.S. Virologic Surveillance: Of the 2,987 specimens tested by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories and reported to CDC/Influenza Division, 662 (22.2%) were positive for influenza.

Pneumonia and Influenza (P&I) Mortality Surveillance: The proportion of deaths attributed to P&I was below the epidemic threshold.

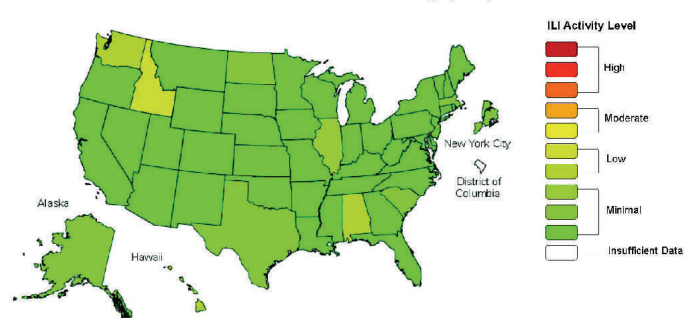
Influenza-associated Pediatric Mortality: Three influenza-associated pediatric deaths were reported. One was associated with a 2009H1N1 virus, one was associated with a seasonal influenza A/H3 virus, and one was associated with an influenza A virus for which the subtype was not determined. This brings the total number of influenza-associated pediatric deaths reported during the 2011-2012 season to 18.

Outpatient Illness Surveillance: The proportion of outpatient visits for influenza-like illness (ILI) was 1.3%, which is below the national baseline of 2.4%. Region 10 reported ILI above its region-specific baseline level. Four states experienced low ILI activity; New York City and 46 states experienced minimal ILI activity, and the District of Columbia had insufficient data to calculate ILI activity.

Geographic Spread of Influenza: Four states reported widespread geographic activity; 10 states reported regional influenza activity; 14 states reported local activity; the District of Columbia and 21 states reported sporadic activity; Guam, the U.S. Virgin Islands, and one state reported no influenza activity, and Puerto Rico did not report.

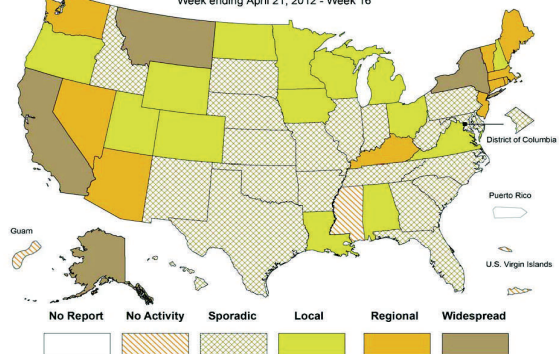
Neuraminidase Inhibitor Resistance Testing: Nationally, since October 01, 2011, of 1072 Seasonal FluA(H3N2), 217 Flu B, and 682 2009 H1N1 samples tested, 15 (2.2%) of 2009 H1N1 tested resistant to oseltamivir. To date, none of these resistant specimens are among the 18 Oregon samples tested by the CDC.

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2011-12 Influenza Season Week 16 ending Apr 21, 2012



Map above left: This map uses the proportion of outpatient visits to ILINet sentinel providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*
Week ending April 21, 2012 - Week 16



Map above Right: This map measures the geographic spread of influenza viruses, but does not measure the intensity of influenza activity.

Additional resources:

- For additional information on influenza testing guidelines for the 2011-12 season, go to: <http://healthoregon.org/fludata> and select 'Influenza Testing'.
- For more information on influenza in Oregon please see: <http://www.flu.oregon.gov/>
- CDC Weekly Surveillance Report: <http://www.cdc.gov/flu/weekly>
- Quadrivalent (4th Vaccine Component) Recommendation: <http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm294057.htm>