

FLU BITES

Oregon's Weekly Surveillance Report for Influenza and other Respiratory Viruses

Published October 30th, 2009



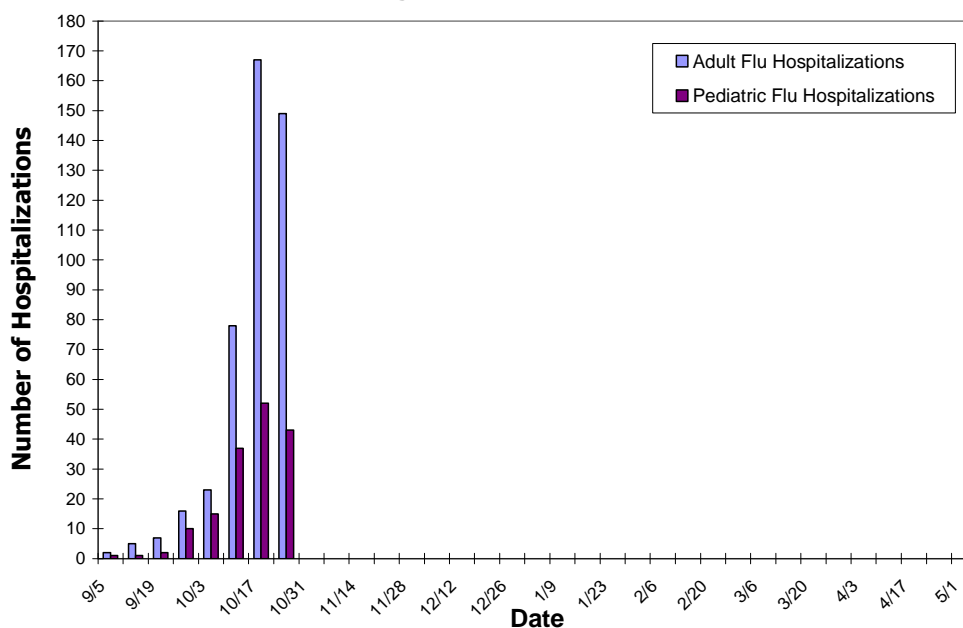
Summary

- Since September 1, 2009, 698 patients were hospitalized with influenza statewide. Eighteen people have died from influenza.
- Surveillance among outpatients and Oregon residents continue to show elevated rates of influenza-like illness.
- Outbreaks of influenza-like illness were reported this week at schools in Benton and Washington counties.
- No school closures occurred this week.

Influenza Hospitalizations and Deaths

Since September 1, 2009 there have been 698 influenza hospitalizations among residents of 25 counties.

**Adult and Pediatric Lab-confirmed Influenza Hospitalizations
Oregon, Since 09/01/09**



*Hospitalizations with known admission date

Distribution of Hospitalized Influenza Cases by County and Age Group September 1, 2009 – October 30, 2009

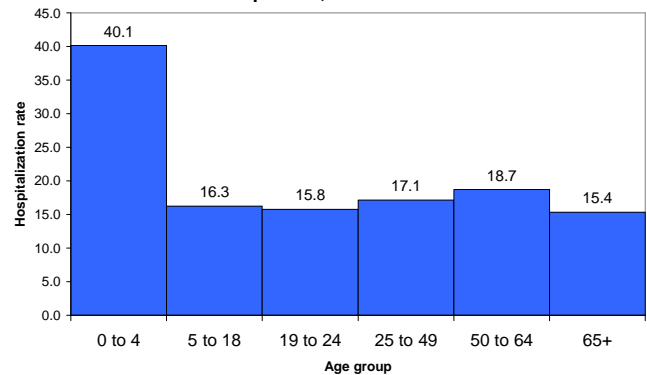
County	Total	0 to 4	5 to 18	19 to 24	25 to 49	50 to 64	65+	Unknown	County rate per 100,000 pop
Benton	13	1	2	3	4	1	2	0	15.1
Clackamas	66	8	13	8	23	9	5	0	17.5
Coos	16	1	2	1	6	4	2	0	25.3
Curry	2	0	0	0	1	1	0	0	9.3
Deschutes	29	3	6	3	11	2	4	0	17.4
Douglas	14	1	3	0	1	7	2	0	13.3
Harney	5	1	2	1	1	0	0	0	64.9
Hood River	1	0	0	0	1	0	0	0	4.6
Jackson	82	12	13	4	21	19	13	0	39.9
Jefferson	6	1	1	1	3	0	0	0	26.7
Josephine	41	7	4	1	14	8	7	0	49.2
Klamath	17	1	5	0	2	5	4	0	25.7
Lake	2	1	0	1	0	0	0	0	26.4
Lane	111	14	21	5	32	30	9	0	32.1
Linn	7	2	1	0	2	2	0	0	6.4
Malheur	2	1	0	0	0	1	0	0	6.3
Marion	36	10	10	1	7	5	3	0	11.4
Morrow	3	1	1	0	0	1	0	0	24.0
Multnomah	124	10	12	9	47	29	17	0	17.3
Polk	7	1	2	1	2	0	1	0	10.3
Umatilla	12	2	2	4	3	1	0	0	16.6
Union	5	1	2	0	1	1	0	0	19.7
Wasco	1	0	0	0	1	0	0	0	4.1
Washington	78	15	10	6	32	9	5	1	15.0
Yamhill	18	0	2	0	10	4	1	1	19.1
TOTAL	698	94 (13%)	114 (16%)	49 (7%)	225 (32%)	139 (20%)	75 (11%)	2 (1%)	18.4
Age group rate per 100,000 pop	18.4	40.1	16.3	15.8	17.1	18.7	15.4		

Characteristics of Hospitalized Influenza Cases

Age	
Median	34
Range	0-92
Sex	N (%)
Male	315 (45)
Female	370 (53)
Unknown	13 (2)
Severity	
Admitted to ICU*	16 of 268 (6)
Pregnant	35 of 370 (9)

*ICU status is only available for hospitalized patients in Clackamas, Multnomah and Washington Counties as a component of EIP hospitalization surveillance

Oregon Influenza Hospitalizations, 09/01/09 - 10/30/09
Rate per 100,000 residents



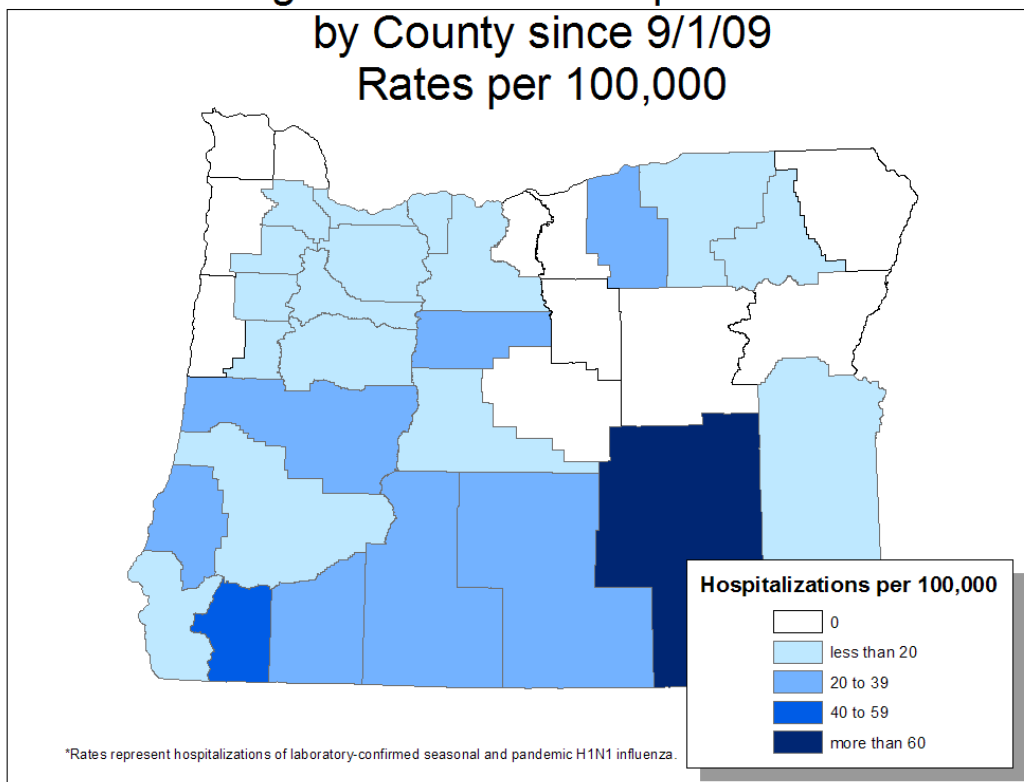
The pandemic influenza A (H1N1) situation in Oregon continues to evolve on a daily basis and these numbers are provisional. We are currently updating the number of hospitalizations and deaths daily on our web page:

http://www.flu.oregon.gov/DHS/ph/acd/swineflu_investigation.shtml.

For more information on pandemic influenza A (H1N1) and seasonal influenza in Oregon please see: <http://www.flu.oregon.gov/>.

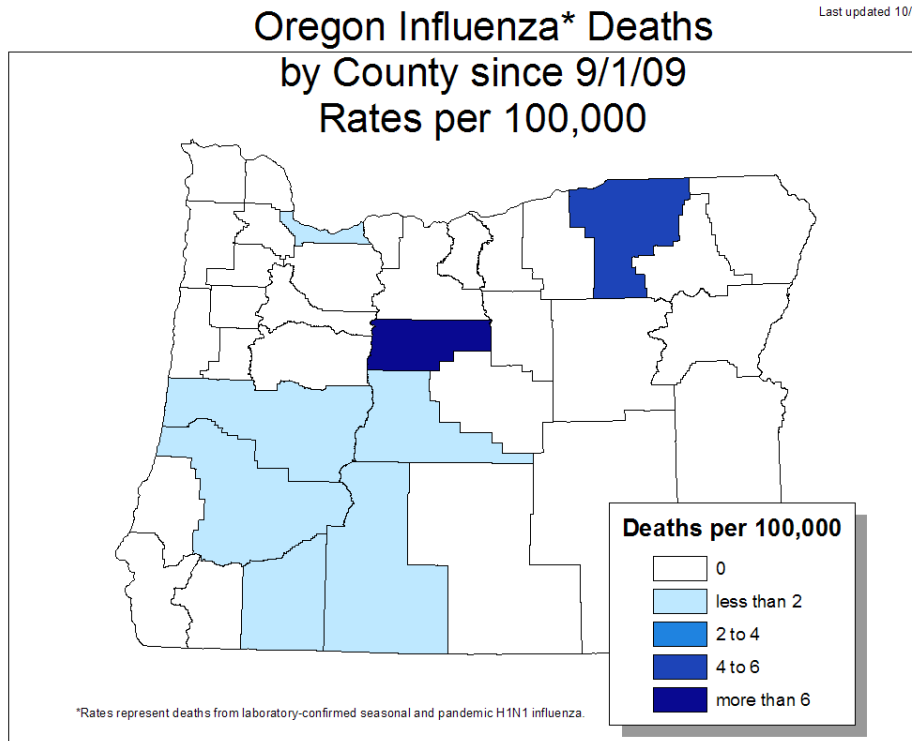
Oregon Influenza* Hospitalizations

Last updated 10/30/09



Distribution of Influenza Deaths*, by County of Residence and Age Group September 1, 2009 – October 30, 2009

County	Total	Age					
		0 to 4	5 to 18	19 to 24	25 to 49	50 to 64	65+
Deschutes	2	0	0	0	1	0	1
Douglas	1	0	0	0	0	0	1
Jackson	1	0	0	0	1	0	0
Josephine	2	0	0	0	1	0	1
Klamath	1	0	0	0	0	1	0
Lane	6	0	0	0	1	2	3
Multnomah	2	0	0	0	0	2	0
Umatilla	3	0	1	0	2	0	0
TOTAL	18	0	1	0	6	5	6

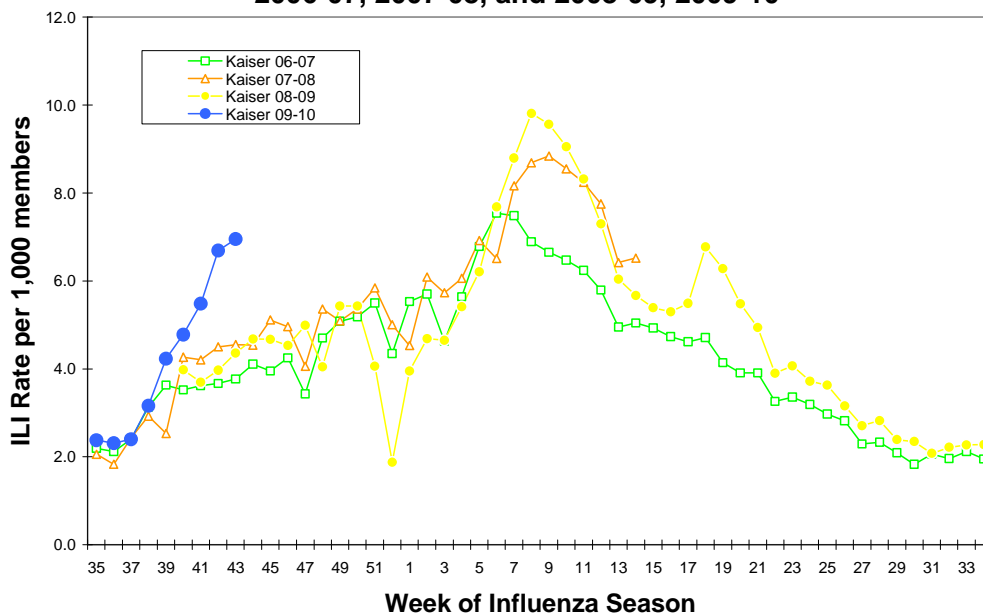


Outpatient Influenza-like Illness

Kaiser Syndromic Surveillance

Oregon Public Health Division receives discharge diagnoses data for Kaiser Permanente Northwest member outpatient visits. The number of influenza-like illness outpatient visits increased to 6.96 per 1,000 Kaiser members during the week ending October 24th.

Respiratory Illness Surveillance Kaiser Permanente Northwest 2006-07, 2007-08, and 2008-09, 2009-10



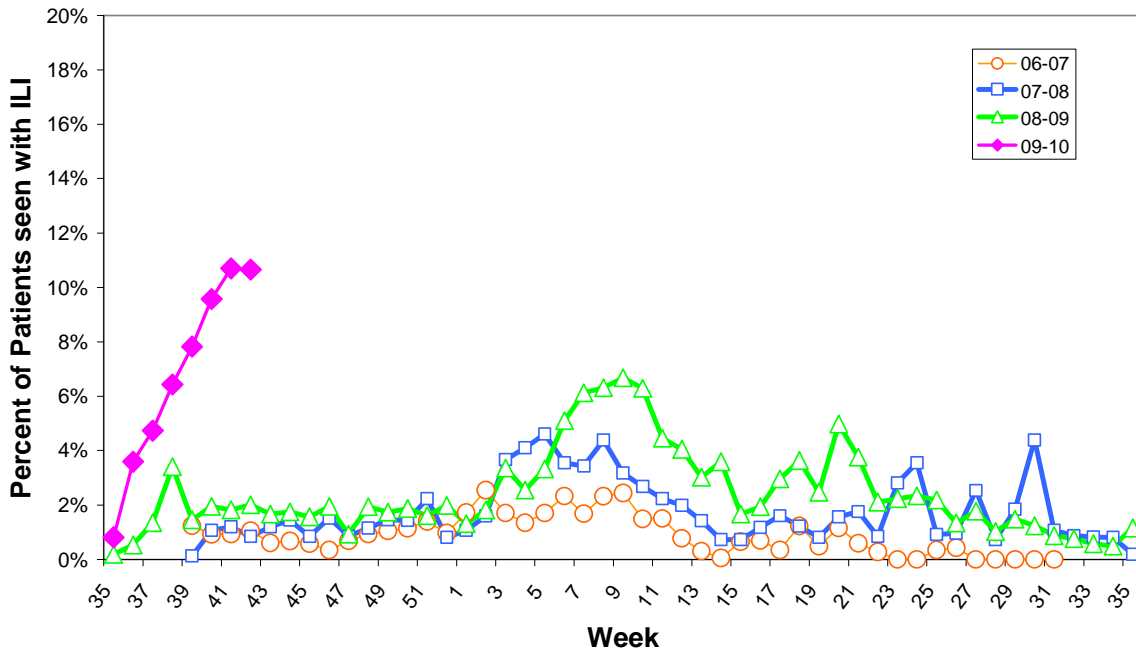
ILINet: Oregon's Outpatient Influenza-like Illness Surveillance Network

Oregon's outpatient influenza-like illness network is comprised of 30 voluntary healthcare providers from all across Oregon who report the number of patients with influenza-like illness (ILI) as well as total number of patient visits for each week during the surveillance season.

Influenza-like illness (ILI) is defined as fever ($\geq 100^{\circ}\text{F}$) and cough and/or sore throat. The number of patient visits and the percent of patients with ILI for the last 3 weeks are presented below.

	Number of Patients Visits	Percent Patients with ILI	No. of Provider Reports
Week ending October 24 th	2872	10.65	13
Week ending October 17 th	4983	10.70	18
Week ending October 10 th	4764	9.57	18

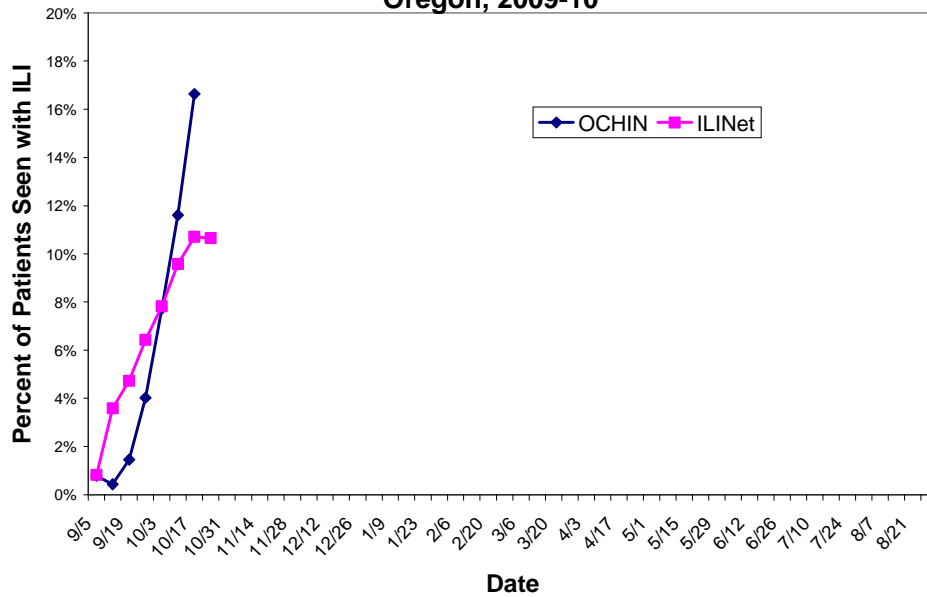
Oregon Outpatient Influenza-Like Illness Surveillance Network (ILINet)
Percent of Outpatients with Influenza-like Illness (ILI)
2006-07, 2007-08, 2008-09, 2009-10



OCHIN Influenza-like Illness Surveillance

Oregon Public Health Division also receives discharge diagnoses data from OCHIN, a health information technology and service organization that serves community health centers. The percent of OCHIN patients with ILI during the week ending October 10th was 16.6%.

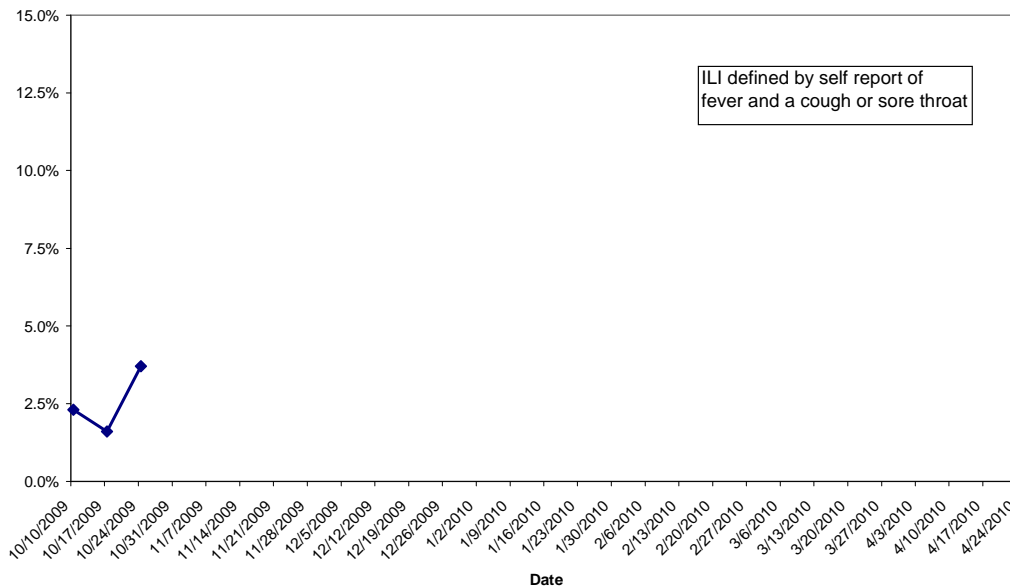
**Oregon Outpatient Influenza-Like Illness (ILI) Surveillance
ILINet & OCHIN
Oregon, 2009-10**



Community Surveillance for Influenza-like Illness

Oregon Public Health Division collects community level data on influenza-like illness via the Behavioral Risk Factor Assessment Surveillance System (BRFSS). During the week ending October 24th, 3.7% of respondents statewide reported having symptoms of ILI with an onset in the last 7 days.

**BRFSS Influenza-Like Illness (ILI) Surveillance
Percent Reporting ILI with Onset in Last 7 Days**



Laboratory Surveillance

The Oregon State Public Health Laboratory is performing the following surveillance activities for subtype specific influenza testing:

- Sentinel providers submissions (ILINet)
- Lab-confirmed hospitalization surveillance among individuals with a previous positive influenza test (viral culture, DFA, PCR or any commercially available rapid test).
- Lab-confirmed death surveillance
- Outbreak investigations

Specimens will only be tested if submitted for the above-mentioned activities.

OSPHL will NOT be accepting specimens for 'rule out influenza' submissions for the 2009-10 influenza season in order to allocate public health laboratory resources to H1N1 surveillance.

Oregon State Public Health Laboratory Specimen Type and Subtype, 2009-10

	Cumulative since September 1st, 2009				Current Week
	ILINet N (%)	Hospitalized* or Died N (%)	Outbreaks N(%)	Total N (%)	Total N(%)
Influenza A					
Pandemic H1N1	94 (55)	490 (37)	11 (79)	595 (40)	140 (57)
Seasonal A (H1)	1 (0)	1 (0)	0	2 (0)	0
Seasonal A (H3)	0	1 (0)	0	1 (0)	0
Influenza B	0	0	0	0	0
Pending	14 (8)	335 (26)	0	349 (23)	1 (0.5)
Undetected	63 (37)	485 (37)	3 (21)	551 (37)	104 (42.5)
Total Tested	172	1312	14	1498	245

Additional resources:

More Oregon influenza surveillance data is available at:

<http://egov.oregon.gov/DHS/ph/acd/flu/surveil.shtml>

CDC Weekly Surveillance Report: <http://www.cdc.gov/flu/weekly/>