

Weekly Influenza Surveillance Report CDC Week 7: February 15 - February 21, 2015

Influenza Summary to Date: Influenza surveillance for Winnebago County involves the weekly collection of data from hospitals, physicians and laboratories. As the data indicates, (see figure 1) Winnebago County saw an increase in positive influenza reports over the past two weeks. Based on the influenza surveillance activity returning to baseline, the adopted Infection Control Practices for Influenza were lifted in Week 3. For a historical perspective of influenza in the community, please visit our website (www.wchd.org). Thank you to all of the surveillance partners for their help in collecting this information.

Positive Influenza Tests Reported 2014-2015

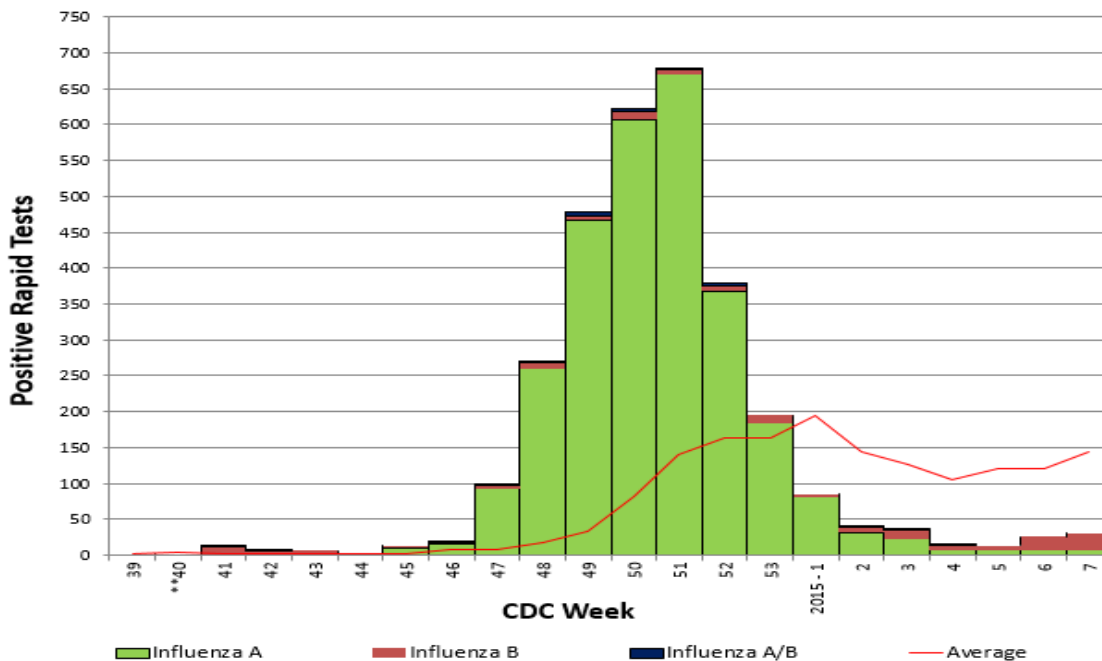


Figure 1 displays the current number of rapid flu positive test results reported to the Health Department and broken down by influenza typing compared to a 4-year historical average (the red line). The chart displays the current influenza season that began in Week 40.

31 cases of influenza have been reported for week 7.

The current level of influenza activity is lower for the current week as compared to the 2013-2014 flu season Week 7 which saw 45 reported cases of influenza.

Positive Influenza Tests by Age 2014-2015

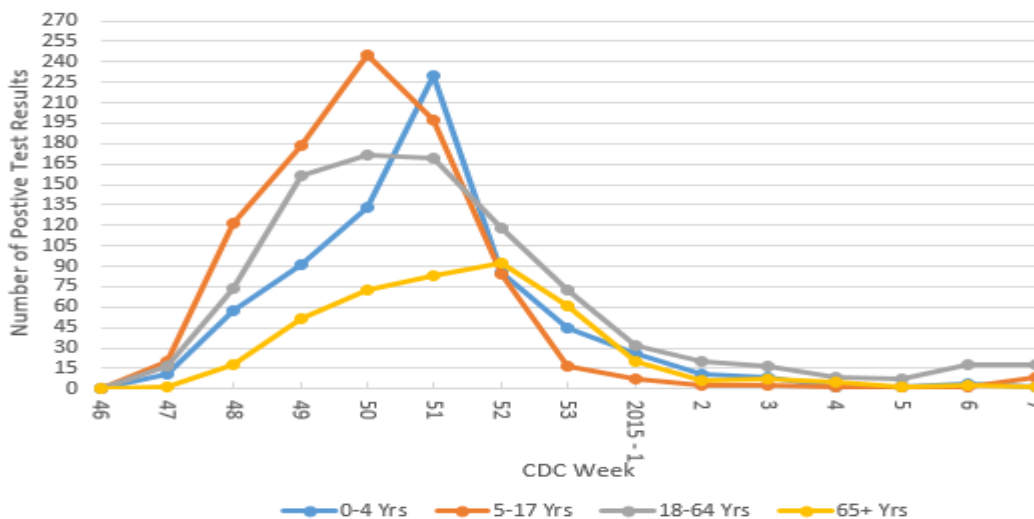


Figure 2 displays the current number of rapid positive flu tests reported to the Health Department broken down by age range.

INFLUENZA LIKE ILLNESS OUTPATIENT SURVEILLANCE 2014-2015

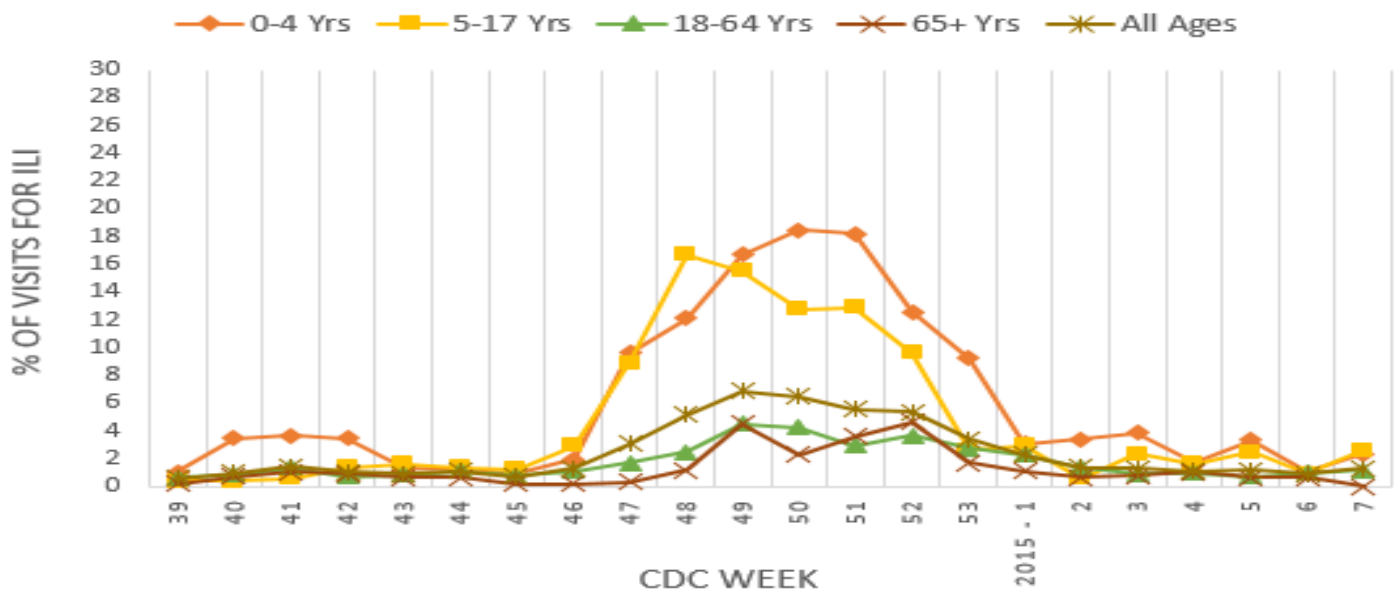


Figure 3 displays the weekly percentage of Influenza-Like Illness (ILI) Emergency Department visits in Winnebago County as identified by the Essence Syndromic Surveillance System for all age groups from the two participating hospitals.

The graph displays the most current Essence data, which is through CDC Week 7. ILI for CDC Week 7 for Winnebago County is 1.30% for all ages combined, compared with regional ILI baseline of 1.70%.

Pneumonia from Sentinel Sites 2014-2015

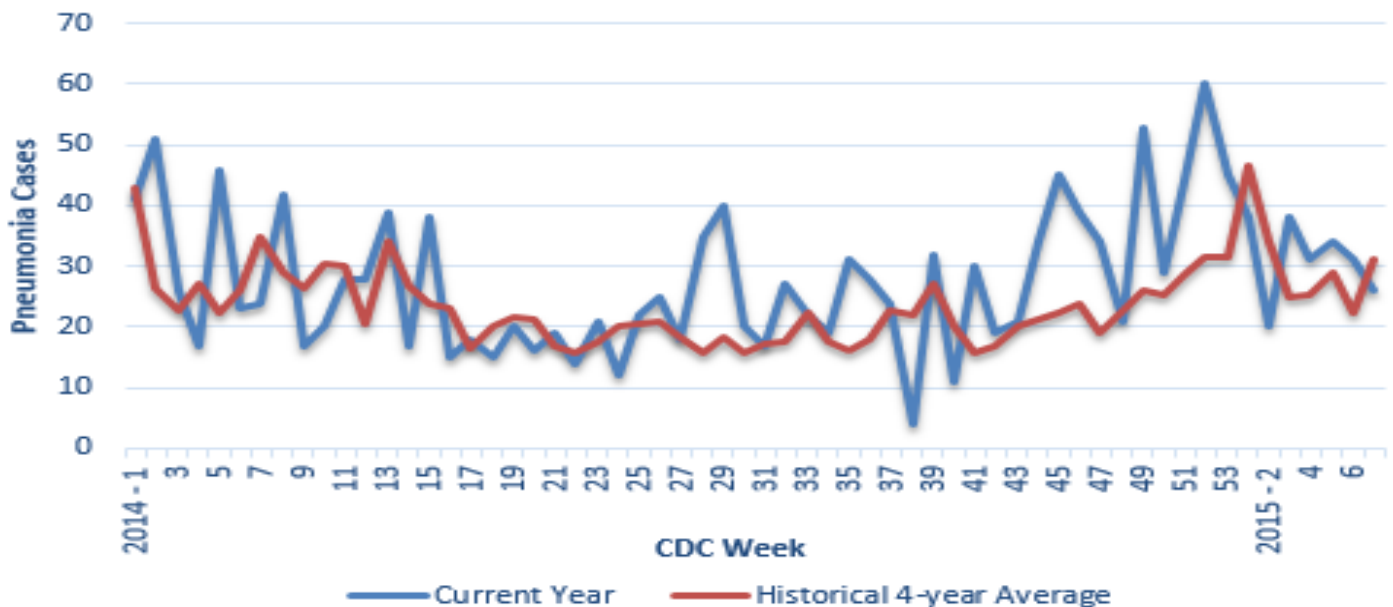


Figure 4 compares the current number of pneumonia hospital admissions (blue line) against the 4-year historical average (the red line). For CDC Week 7, there were 26 total hospital admittances reported. Note that all data is preliminary and numbers for weeks 4, 5, and 6 are still being collected.

Influenza Outbreak Activity in Long Term Nursing Facility: The Health Department uses surveillance data to monitor influenza outbreaks in long term nursing facilities as part of the community’s current activity with influenza. An outbreak is defined as two or more cases of ILI occurring within 72 hours among residents of a facility.

Figure 5: Records Influenza Outbreaks in Skilled Nursing Facilities through CDC Week 7. No new outbreaks were reported during this week.

CDC Week Number	Outbreak Record #	Number of Residents with ILI Symptoms	Influenza Tests Completed	Number of Positive Tests	Vaccination Rate of Residents Tested	Number of Staff with ILI Symptoms
47	2014-0393	45	38	8	74%	3
48	2014-0442	51	13	8	73%	0
49	2014-0459	39	33	11	82%	24
50	2014-0462	2	2	2	50%	0
50	2014-0529	24	2	2	63%	8
50	2014-0460	18	18	6	56%	0
51	2014-0526	9	3	3	67%	0
51	2014-0533	6	1	1	83%	1
52	2014-0461	13	13	8	85%	5

Mortality Rates for Influenza and Pneumonia: The Health Department uses surveillance data to track the deaths caused by influenza and pneumonia. The Health Department recommends that all eligible individuals get their pneumococcal vaccination.

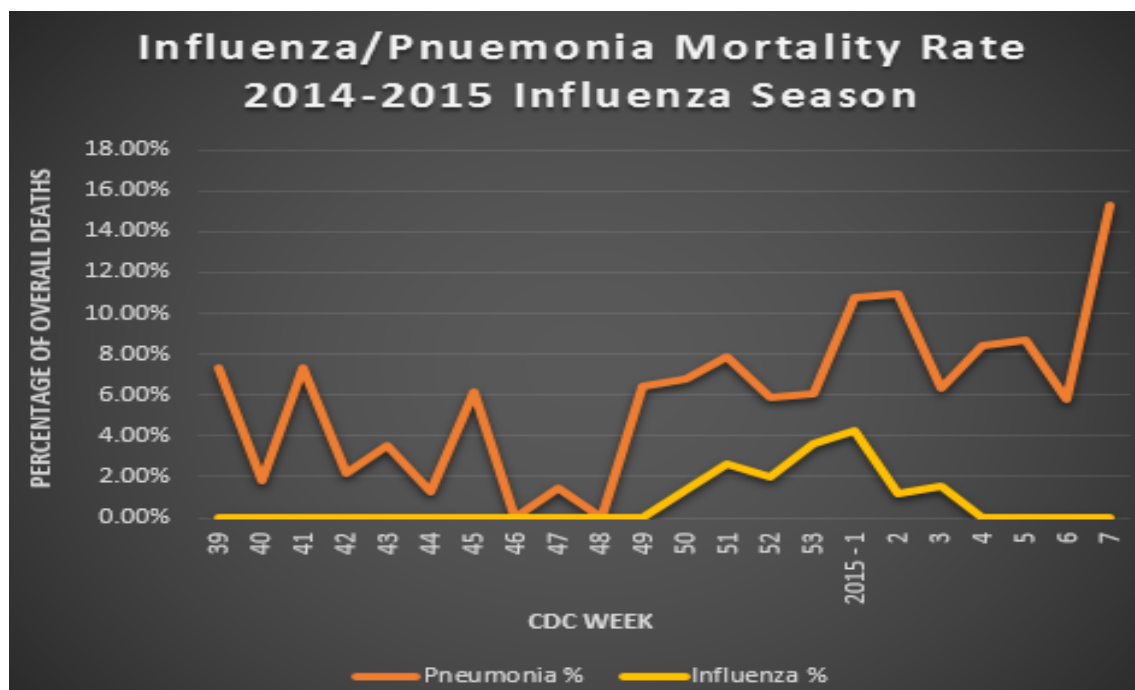


Figure 6 indicates the mortality rates for influenza and pneumonia as a percentage of the overall deaths during the current influenza season of 2014-2015.

Week 7 saw nine (9) deaths due to pneumonia. Seven (7) of the 9 deaths were over 75 years old. The remaining two (2) deaths were in the age group of 45-64 years old.