

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: January 12, 2011

All Reporting Sites, Through the Week Ending January 08, 2011

General Update

The Southern Nevada Health District (SNHD) Pediatric Early Warning Sentinel Surveillance (PEWSS) has detected Influenza A 2009 H1N1, Influenza A H3, Influenza B, Adenovirus, Parainfluenza 2, Parainfluenza 3 and RSV for the week ending January 8, 2011.

Last week, 27 patient specimens were submitted, which is an increase over the previous three weeks. This is likely to be the result of three factors. First, a fifth sentinel site was added to the network and began submitting specimens. Second, office closures over the holidays decreased the number of patients seen and the number of specimens submitted in the previous two weeks. Third, there has been increased respiratory disease activity (Table 1).

Influenza viruses were identified in 40% (10 of 25) of specimens tested (at the time of this report, influenza testing results were pending for two specimens). Influenza activity typically begins to increase in Southern Nevada during the month of January. Based on antigenic characterization performed at the national levels, the three influenza strains contained in this season's vaccine match the three influenza strains that have been circulating.

The PEWSS reports are disseminated weekly to the medical community by email, fax, and online at <http://www.southernnevadahealthdistrict.org/stats-reports/influenza.php>. For questions about PEWSS, please contact the SNHD Office of Epidemiology at (702) 759-1300.

Table 1 - Testing Results, Current Week and Previous Four Weeks

PCR Testing Results	Week Ending										Project to Date	
	12/11		12/18		12/25		1/1		1/8		Since 6/1/10	
	n	%	n	%	n	%	n	%	n	%	n	%
All negative	9	43	6	43	1	9	4	40	8	30	227	60
Influenza A Positive*	0	0	1	7	0	0	0	0	6	22	9	2
Influenza A 2009 H1N1	0	0	0	0	0	0	0	0	2	7	3	1
Influenza A H1 Positive	0	0	0	0	0	0	0	0	0	0	0	0
Influenza A H3 Positive	0	0	1	7	0	0	0	0	4	15	6	2
Influenza B Positive	5	24	3	21	4	36	3	30	4	15	23	6
Adenovirus Positive	0	0	0	0	2	18	0	0	1	4	25	7
Human Metapneumovirus Positive	0	0	0	0	0	0	0	0	0	0	1	0
Parainfluenza 1 Positive	1	5	0	0	0	0	0	0	0	0	12	3
Parainfluenza 2 Positive	1	5	1	7	1	9	0	0	1	4	24	6
Parainfluenza 3 Positive	1	5	0	0	0	0	0	0	1	4	34	9
RSV Positive	4	19	3	21	3	27	4	40	7	26	30	8
Coinfections	0	0	0	0	0	0	1	10	1	4	4	1
Specimens Tested	21		14		11		10		27		381	

* Includes Influenza of all subtypes

Figure 1 - Weekly Number of Specimens Tested

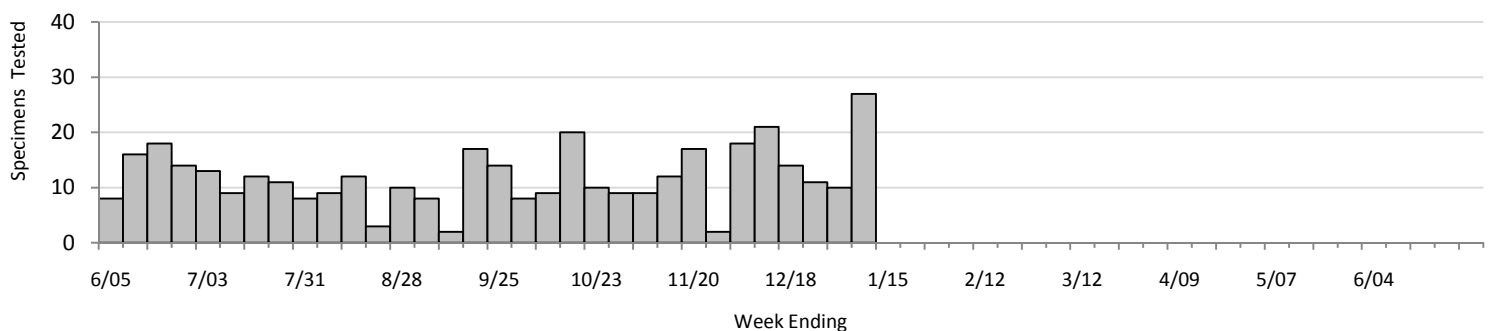


Figure 2 - Weekly Positivity Rates for Organisms Tested

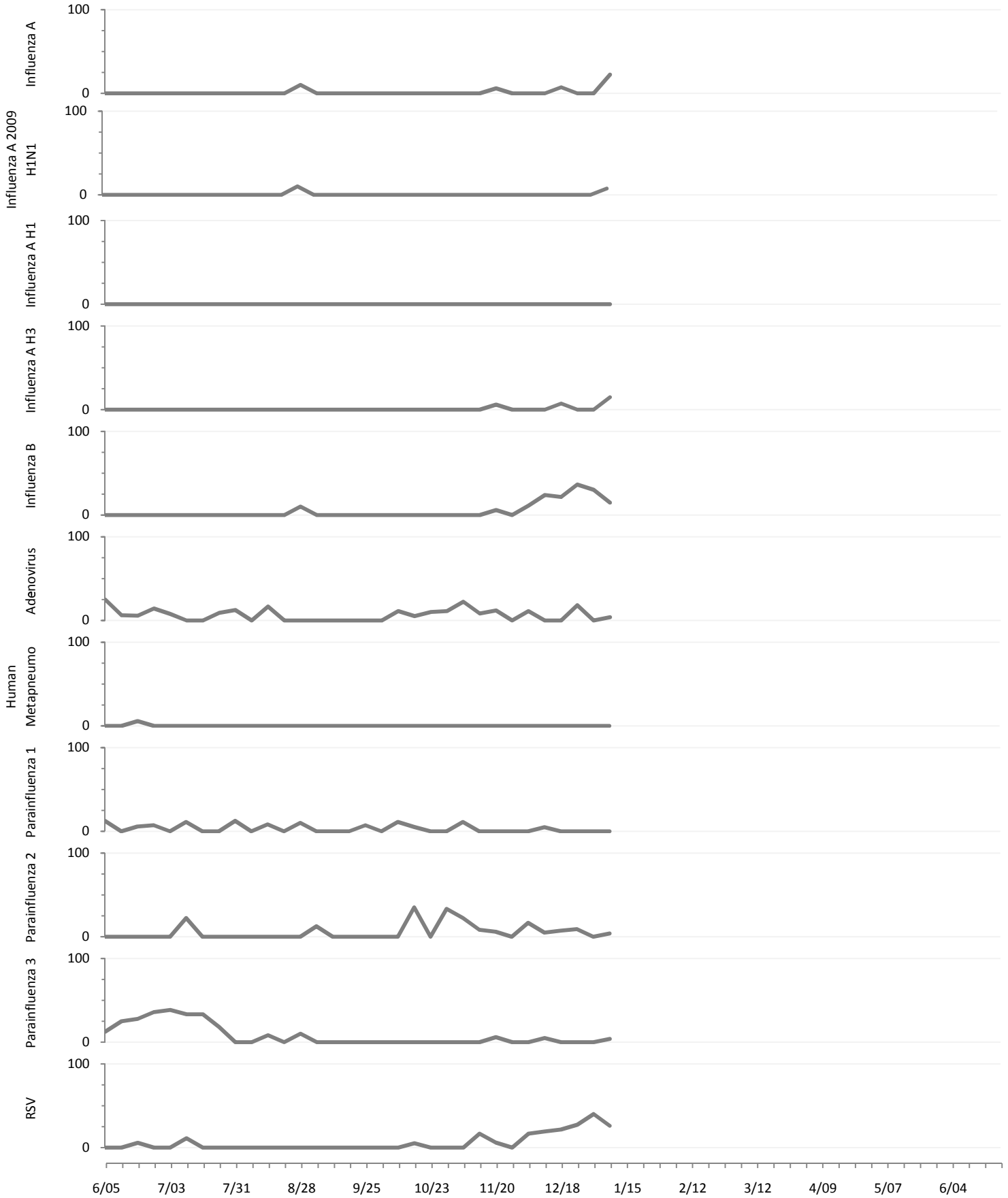


Figure 3. Age distributions of patients from whom specimens were tested and who tested positive

