

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: February 16, 2011

All Reporting Sites, Through the Week Ending February 12, 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, Parainfluenza 1, Parainfluenza 3, and RSV for the week ending February 12, 2011.

The wide variety of respiratory pathogens detected during this surveillance period (Table 1) may signify that the number of respiratory viruses circulating in Southern Nevada remains high.

Laboratory-based surveillance for Influenza viral isolates is critically important for several reasons: 1) To select viruses for the next season's influenza vaccine. 2) To characterize the circulating influenza virus subtypes and strains and to determine how well they match to vaccine strains. 3) To obtain information on the emergence and prevalence of antiviral resistant strains, and to identify human infection with novel influenza A virus (e.g. an influenza A virus of animal origin that may occasionally cause illnesses in people) that may have pandemic potential. The Southern Nevada Public Health Laboratory, a partner in the PEWSS program, has been valuable in these endeavors.

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	
	1/15		1/22		1/29		2/5		2/12		Since 6/1/10	
	n	%	n	%	n	%	n	%	n	%	n	%
All negative	9	24	12	33	12	32	14	36	7	18	280	49
Influenza A Positive*	12	32	13	36	14	37	11	28	17	45	77	14
Influenza A 2009 H1N1	4	11	8	22	10	26	8	21	9	24	43	8
Influenza A H1 Positive	0	0	0	0	0	0	0	0	0	0	0	0
Influenza A H3 Positive	8	21	5	14	4	11	3	8	8	21	34	6
Influenza B Positive	4	11	5	14	7	18	9	23	6	16	54	9
Adenovirus Positive	1	3	0	0	3	8	0	0	0	0	29	5
Human Metapneumovirus Positive	0	0	0	0	0	0	0	0	0	0	1	0
Parainfluenza 1 Positive	0	0	0	0	0	0	0	0	1	3	13	2
Parainfluenza 2 Positive	2	5	0	0	0	0	0	0	0	0	26	5
Parainfluenza 3 Positive	1	3	0	0	0	0	0	0	1	3	36	6
RSV Positive	11	29	8	22	2	5	6	15	9	24	66	12
Coinfections	2	5	2	6	0	0	1	3	3	8	12	2
Specimens Tested	38		36		38		39		38		570	

* Includes Influenza of all subtypes

Figure 1 - Weekly Number of Specimens Tested

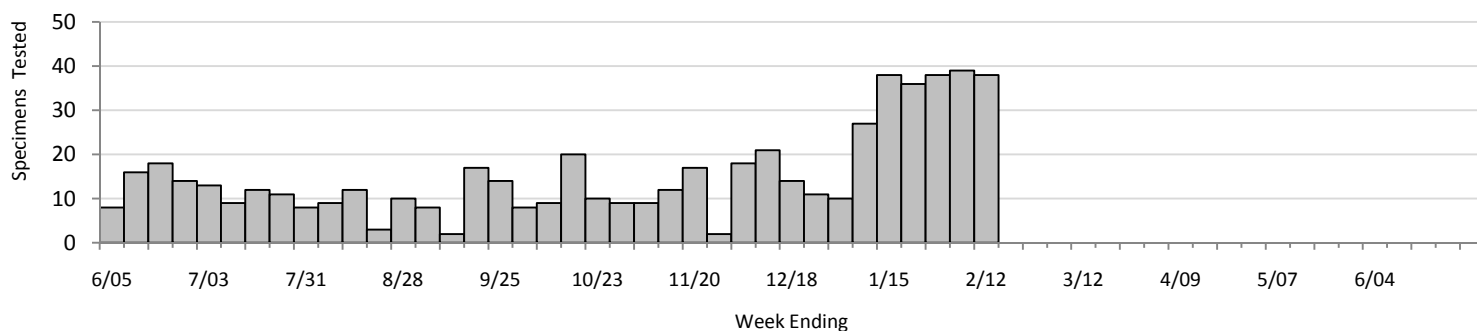


Figure 2 - Weekly Positivity Rates for Organisms Tested

