

# SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: March 02, 2011

All Reporting Sites, Through the Week Ending February 26, 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 3, and RSV for the week ending February 26, 2011.

The variety and levels of respiratory pathogens circulating in Southern Nevada remain high in recent weeks (Table 1 and Fig. 2). However, the number of clinical specimens collected by PEWSS sentinel sites appeared to be decreasing (Fig. 1), and may mean that sentinel sites were encountering fewer patients who met the respiratory illness criteria and were able to provide specimens for testing.

The Centers for Disease Control and Prevention perform routine surveillance testing of influenza virus isolates for resistance to neuraminidase inhibitors (oseltamivir and zanamivir). In the past five months, a total of 1,860 isolates of 2009 influenza A (H1N1), influenza A (H3N2), and influenza B were tested, and of these, only one (0.0005%) specimen was found to be resistant to oseltamivir. On the contrary, high levels of resistance to the adamantanes (amantadine and rimantadine) persist among 2009 influenza A (H1N1) and A (H3N2) viruses, and adamantanes are not effective against influenza B viruses.

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	
	1/29		2/5		2/12		2/19		2/26		Since 5/26/10	
	n	%	n	%	n	%	n	%	n	%	n	%
All negative	12	32	14	36	7	18	6	25	6	25	293	47
Influenza A Positive*	14	37	11	28	17	45	8	33	10	42	95	15
Influenza A 2009 H1N1	10	26	8	21	9	24	4	17	7	29	54	9
Influenza A H1 Positive	0	0	0	0	0	0	0	0	0	0	0	0
Influenza A H3 Positive	4	11	3	8	8	21	4	17	3	13	41	7
Influenza B Positive	7	18	9	23	6	16	3	13	1	4	58	9
Adenovirus Positive	3	8	0	0	0	0	0	0	3	13	32	5
Human Metapneumovirus Positive	0	0	0	0	0	0	0	0	0	0	1	0
Parainfluenza 1 Positive	0	0	0	0	1	3	0	0	0	0	13	2
Parainfluenza 2 Positive	0	0	0	0	0	0	0	0	0	0	26	4
Parainfluenza 3 Positive	0	0	0	0	1	3	0	0	1	4	41	7
RSV Positive	2	5	6	15	9	24	8	33	6	25	80	13
Coinfections	0	0	1	3	3	8	1	4	3	13	16	3
Specimens Tested	38		39		38		24		24		623	

\* Includes Influenza of all subtypes

**Figure 1 - Weekly Number of Specimens Tested**

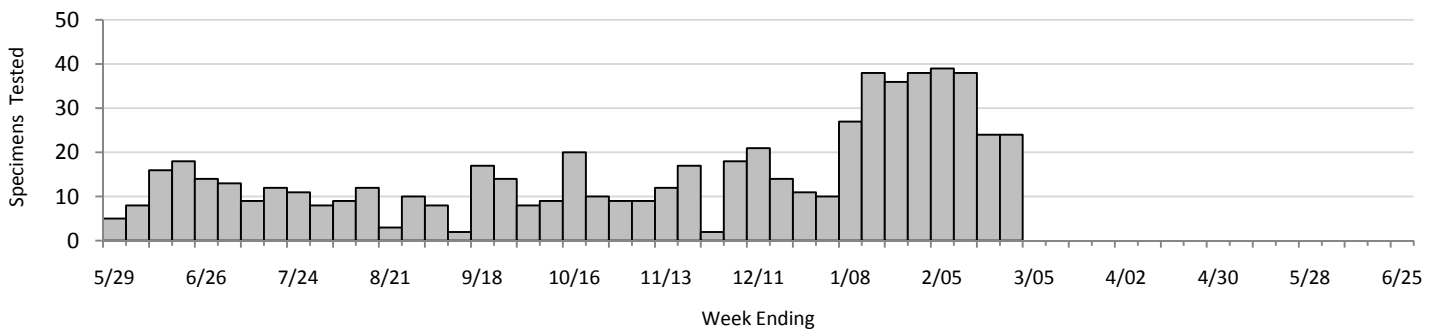
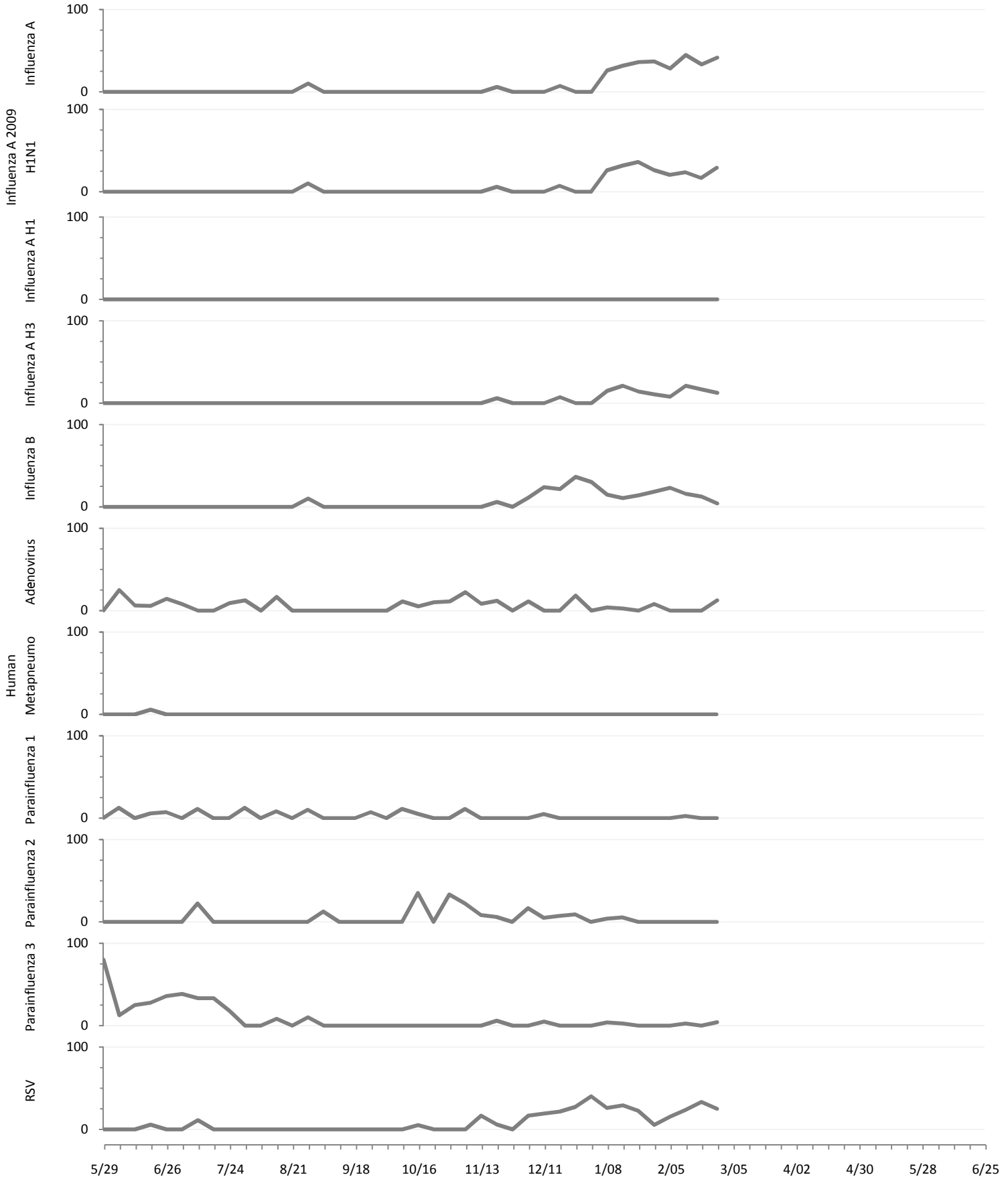


Figure 2 - Weekly Positivity Rates for Organisms Tested



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

