

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: April 18, 2012

All Reporting Sites, Through the Week Ending April 14, 2012

The PEWSS reports are disseminated weekly 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.

General Update

During the week ending April 14, 2012, the following viruses were identified through PEWSS with a moderate volume of testing (Fig. 1): Influenza A, Influenza B, Adenovirus and Human Metapneumovirus.

Over the past five weeks (Tables 1 & 2), the following were identified in the community through PEWSS:

Influenza A has been circulating at high levels.

Influenza B, Adenovirus and Human Metapneumovirus have been circulating at low levels.

Parainfluenza 1, Parainfluenza 3 and RSV have been sporadically identified.

Parainfluenza 2 has not been identified.

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

PCR Testing Results	Week Ending										Interpretation For Past 5 Weeks	
	3/17		3/24		3/31		4/7		4/14			
	n	%	n	%	n	%	n	%	n	%		
All negative	8	27%	9	45%	3	23%	4	22%	9	47%	Moderate Volume	
Influenza A Positive	13	45%	7	35%	6	46%	7	39%	2	11%		High
Influenza B Positive	1	3%	1	5%	2	15%	0	0%	2	11%		Low
Adenovirus Positive	2	7%	2	10%	1	8%	1	6%	3	16%		Low
Human Metapneumovirus Positive	2	7%	0	0%	1	8%	4	22%	4	21%		Low
Parainfluenza 1 Positive	1	3%	0	0%	0	0%	0	0%	0	0%		Sporadic
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%		Not Detected
Parainfluenza 3 Positive	1	3%	0	0%	0	0%	0	0%	0	0%		Sporadic
RSV Positive	4	13%	1	5%	0	0%	3	17%	0	0%		Sporadic
Coinfections	3	10%	0	0%	0	0%	1	6%	1	5%		
Specimens Tested	30	-	20	-	13	-	18	-	19	-		

Table 2 - Influenza A Typing, Current Week and Previous Four Weeks

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	3/17		3/24		3/31		4/7		4/14		n	%
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	5	38%	0	0%	3	50%	1	14%	1	50%	10	29%
Influenza A H1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Influenza A H3	8	62%	7	100%	3	50%	6	86%	1	50%	25	71%

Figure 1 - Weekly Number of Specimens Tested

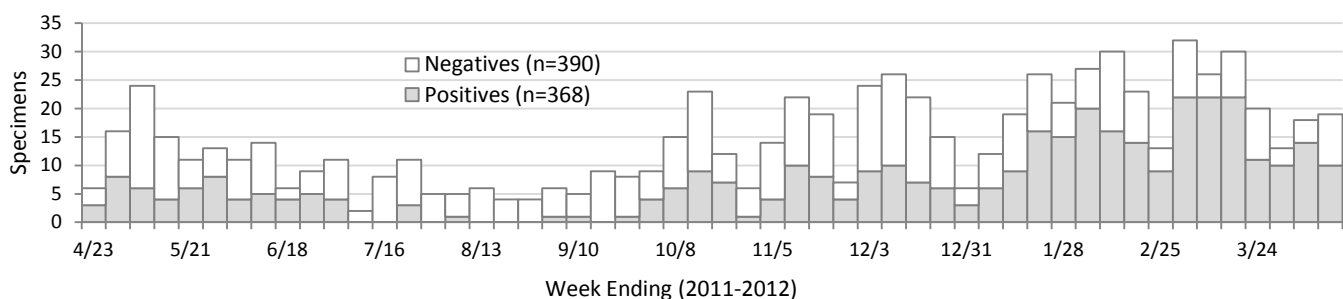
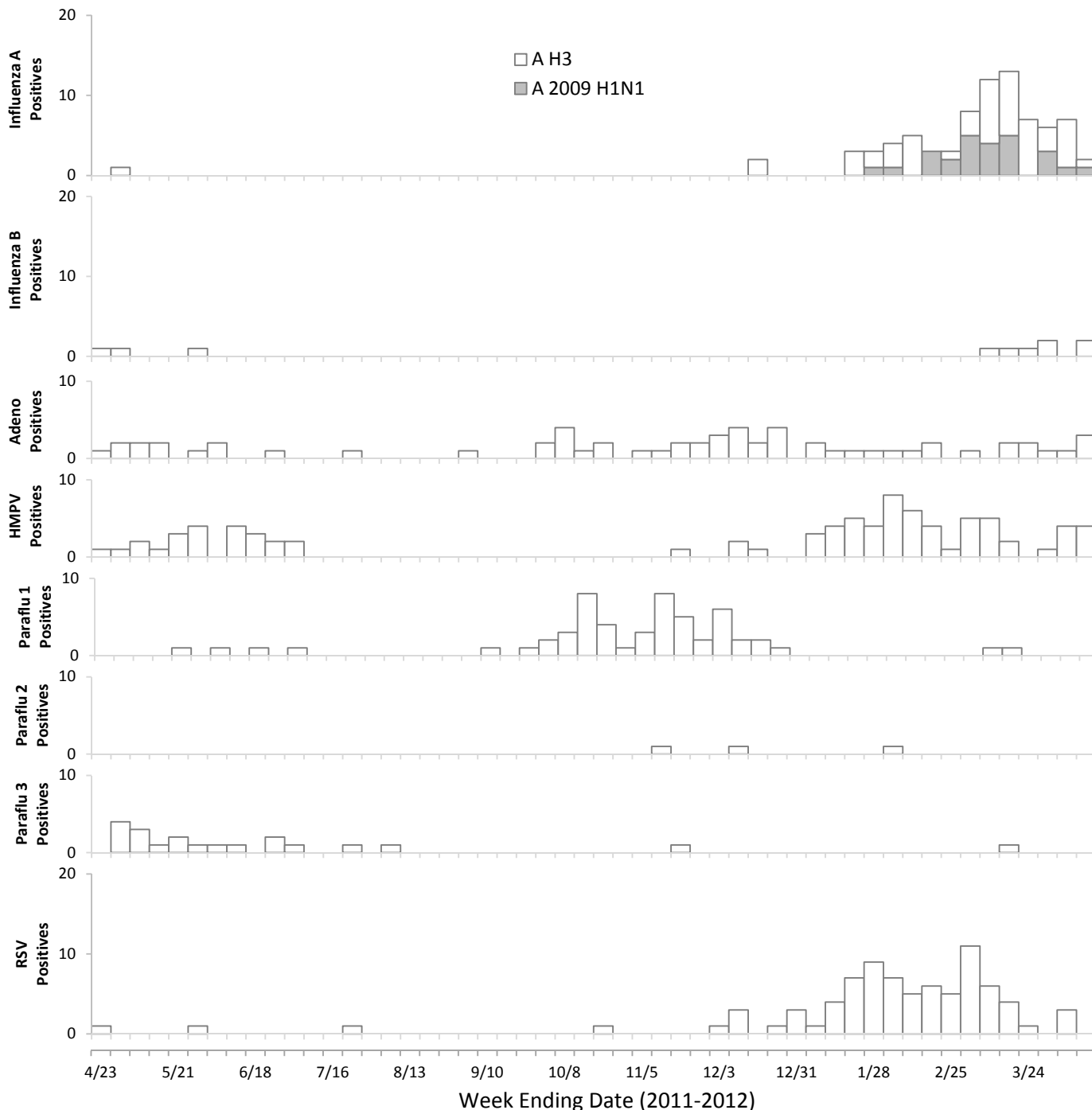


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

Since August 2011, a total of 12 human infections with influenza A (H3N2) variant viruses with genes from avian, swine, and human viruses (i.e., A [H3N2]v) have been reported to Centers for Disease Control and Prevention (CDC). Eleven of the cases occurred in children aged <10 years. Receipt of seasonal influenza vaccine continues to be recommended to protect against circulating human influenza viruses for all age groups, and might provide limited protection against A (H3N2)v infection in the adult population.

If influenza variant viruses are encountered by the PEWSS program during routine surveillance, the Southern Nevada Public Health Laboratory forwards these viruses to the CDC for further analysis.

Reference: MMWR / April 13, 2012 / Vol. 61 / No. 14 / Pages 237-241