

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: December 18, 2013

All Sentinel Sites, Through the Week Ending December 14, 2013

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 Linh Nguyen, PhD, MPH at the SNHD Office of Epidemiology at 702.759.1300.

General Update

During the week ending December 14, 2013, the following viruses were identified through PEWSS with a moderate volume of testing (Fig. 1): Influenza A, Human Metapneumovirus and Parainfluenza 1.

Over the past five weeks (Tables 1 & 2), the following were identified in the community through PEWSS: Parainfluenza 1 has been circulating at low levels.

Influenza A, Human Metapneumovirus and RSV have been sporadically identified.

Influenza B, Adenovirus, Parainfluenza 2 and Parainfluenza 3 have not been identified.

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

PCR Testing Results	Week Ending										Past 5 Weeks Circulation Levels
	11/16		11/23		11/30		12/7		12/14		
	n	%	n	%	n	%	n	%	n	%	
All negative	6	67%	5	42%	3	75%	2	50%	11	58%	
Influenza A Positive	0	0%	1	8%	0	0%	0	0%	3	16%	Sporadic
Influenza B Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Adenovirus Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Human Metapneumovirus Positive	0	0%	0	0%	0	0%	1	25%	3	16%	Sporadic
Parainfluenza 1 Positive	3	33%	3	25%	1	25%	1	25%	2	11%	Low
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Parainfluenza 3 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
RSV Positive	0	0%	3	25%	0	0%	0	0%	0	0%	Sporadic
Co-infections	0	0%	0	0%	0	0%	0	0%	0	0%	
Specimens Tested	9	-	12	-	4	-	4	-	19	-	Moderate Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	11/16		11/23		11/30		12/7		12/14		n	%
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	0	-	1	100%	0	-	0	-	3	100%	4	100%
Influenza A H1	0	-	0	0%	0	-	0	-	0	0%	0	0%
Influenza A H3	0	-	0	0%	0	-	0	-	0	0%	0	0%

Figure 1 - Weekly Number of Specimens Tested

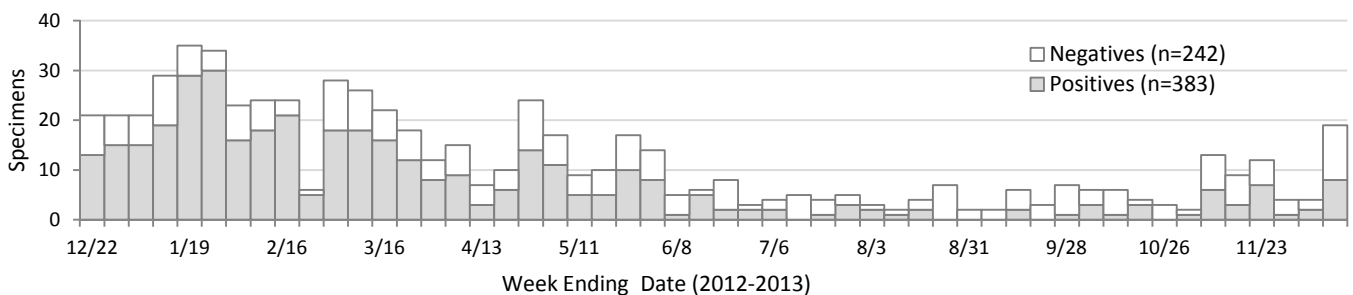
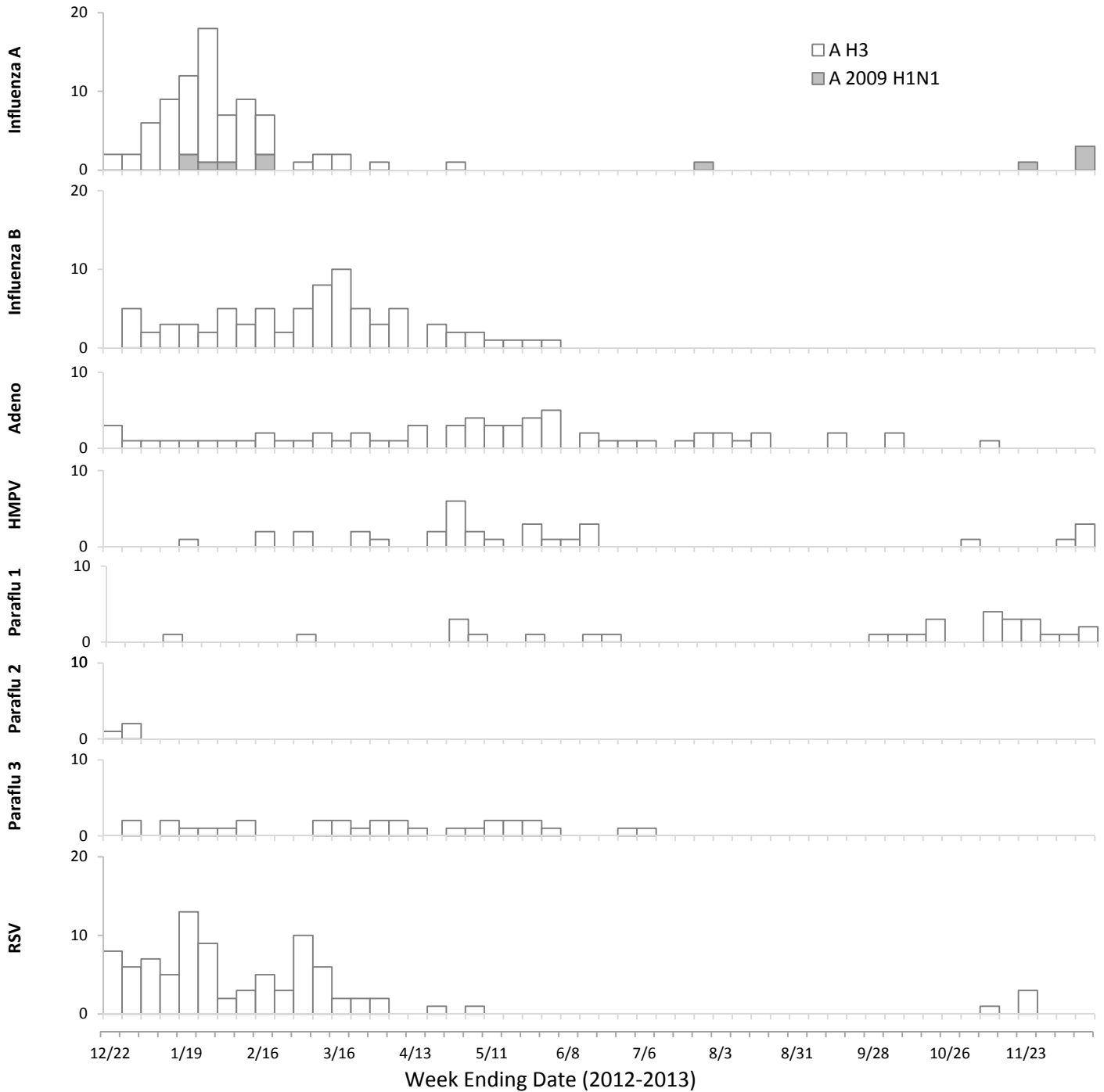


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

PEWSS detected Influenza A 2009 H1N1 during the last surveillance period in Southern Nevada.

The detection of human metapneumovirus (hMPV) might also signal the start of respiratory syncytial virus (RSV) season, as the circulation patterns of these two viruses are often similar. hMPV can cause upper respiratory tract infections such as colds, and lower respiratory tract infections such as pneumonia or bronchitis.

Human parainfluenza virus-1 (HPIV-1) has been detected frequently in the past two months in Southern Nevada (Table 1; Fig. 2). HPIV-1 is most often associated with croup (laryngotracheobronchitis) in children.