

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: March 20, 2013

All Reporting Sites, Through the Week Ending March 16, 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 at the SNHD Office of Epidemiology at 702.759.1300.

General Update

During the week ending March 16, 2013, the following viruses were identified through PEWSS with a high volume of testing (Fig. 1): Influenza A, Influenza B, Adenovirus, Parainfluenza 3 and RSV.

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

Influenza B and RSV have been circulating at high levels.

Influenza A and Adenovirus have been circulating at low levels.

Human Metapneumovirus, Parainfluenza 1 and Parainfluenza 3 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										Past 5 Weeks Circulation Levels
	2/16		2/23		3/2		3/9		3/16		
	n	%	n	%	n	%	n	%	n	%	
All negative	3	13%	1	17%	10	36%	8	31%	6	27%	
Influenza A Positive	7	29%	0	0%	1	4%	2	8%	2	9%	Low
Influenza B Positive	5	21%	2	33%	5	18%	8	32%	10	45%	High
Adenovirus Positive	2	8%	1	17%	1	4%	2	8%	1	5%	Low
Human Metapneumovirus Positive	2	8%	0	0%	2	7%	0	0%	0	0%	Sporadic
Parainfluenza 1 Positive	0	0%	0	0%	1	4%	0	0%	0	0%	Sporadic
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Parainfluenza 3 Positive	0	0%	0	0%	0	0%	2	8%	2	9%	Sporadic
RSV Positive	5	21%	3	50%	10	36%	6	24%	2	9%	High
Co-infections	0	0%	1	17%	2	7%	3	12%	1	5%	
Specimens Tested	24	-	6	-	28	-	26	-	22	-	High Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	2/16		2/23		3/2		3/9		3/16			
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	2	29%	0	-	0	0%	0	0%	0	0%	2	17%
Influenza A H1	0	0%	0	-	0	0%	0	0%	0	0%	0	0%
Influenza A H3	5	71%	0	-	1	100%	2	100%	2	100%	10	83%

Figure 1 - Weekly Number of Specimens Tested

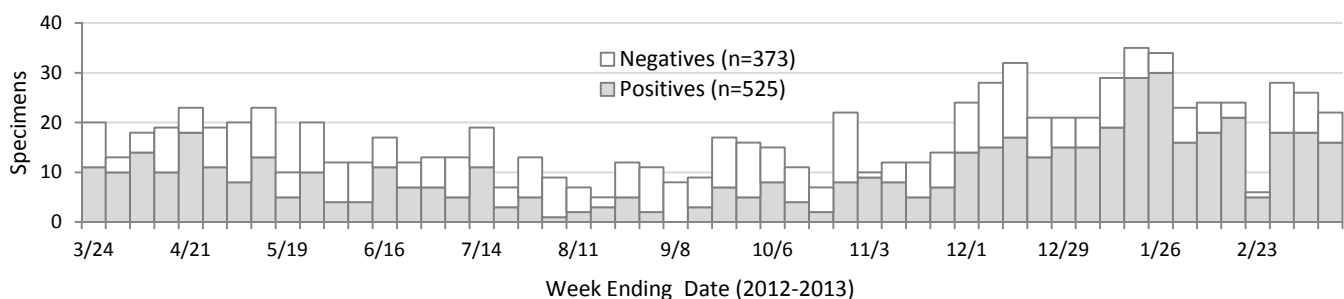
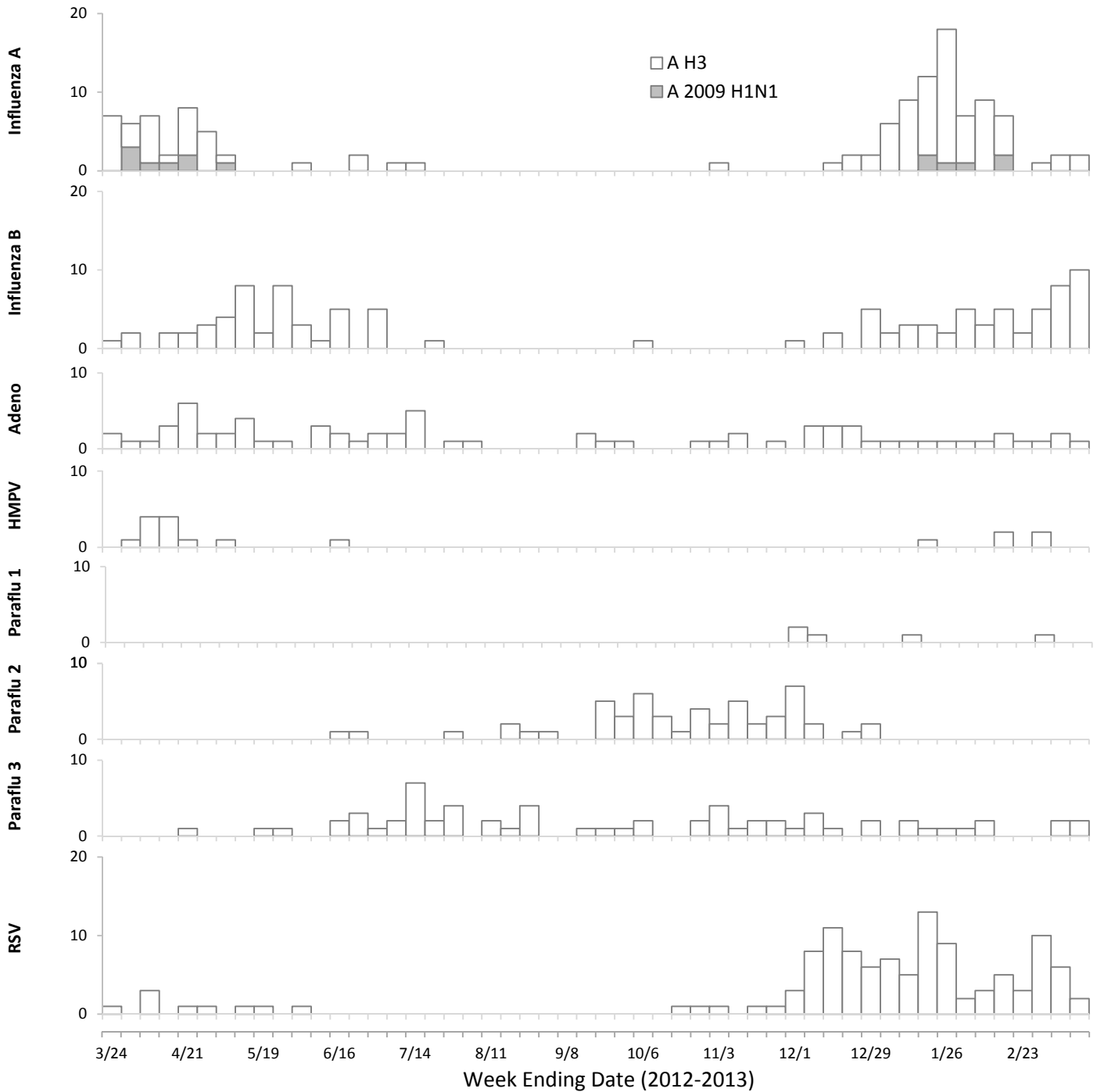


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

Influenza B and RSV continue to circulate at high levels in Southern Nevada (Table 1, Fig. 2).

Co-infections (Table 1) occur when multiple viruses are detected in a specimen. Since June 2009, PEWSS detected 88 co-infections in nasal swab samples collected from pediatric patients. RSV was the most frequently detected virus in co-infections, and was present in 53% (n=47) of these samples.