

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: April 03, 2013

All Reporting Sites, Through the Week Ending March 30, 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 30, 2013, the following viruses were identified through PEWSS with a low volume of testing (Fig. 1): Influenza A, Influenza B, Adenovirus, Human Metapneumovirus, 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, Adenovirus and Parainfluenza 3 have been circulating at low levels.

Human Metapneumovirus and Parainfluenza 1 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
	3/2		3/9		3/16		3/23		3/30		
	n	%	n	%	n	%	n	%	n	%	
All negative	10	36%	8	31%	6	27%	6	33%	4	33%	
Influenza A Positive	1	4%	2	8%	2	9%	0	0%	1	8%	Low
Influenza B Positive	5	18%	8	32%	10	45%	5	28%	3	25%	High
Adenovirus Positive	1	4%	2	8%	1	5%	2	11%	1	8%	Low
Human Metapneumovirus Positive	2	7%	0	0%	0	0%	2	11%	1	8%	Sporadic
Parainfluenza 1 Positive	1	4%	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	0	0%	2	8%	2	9%	1	6%	2	17%	Low
RSV Positive	10	36%	6	24%	2	9%	2	11%	2	17%	High
Co-infections	2	7%	3	12%	1	5%	0	0%	2	17%	
Specimens Tested	28	-	26	-	22	-	18	-	12	-	Low Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	3/2		3/9		3/16		3/23		3/30			
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	0	0%	0	0%	0	0%	0	-	0	0%	0	0%
Influenza A H1	0	0%	0	0%	0	0%	0	-	0	0%	0	0%
Influenza A H3	1	100%	2	100%	2	100%	0	-	1	100%	6	100%

Figure 1 - Weekly Number of Specimens Tested

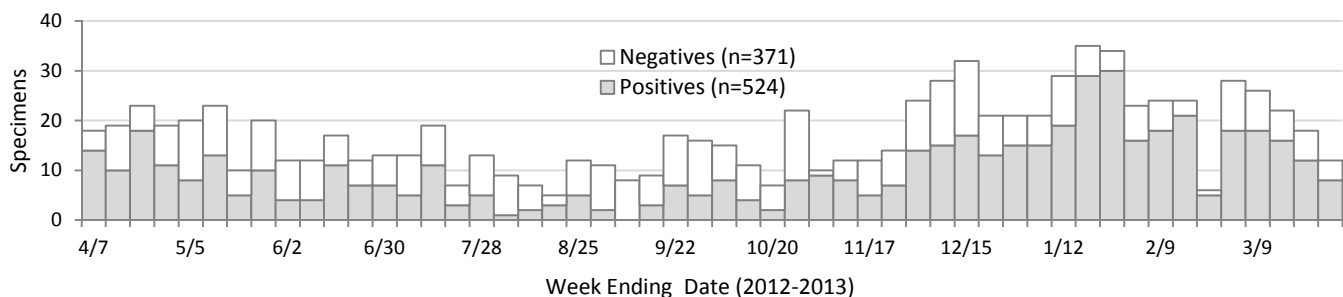
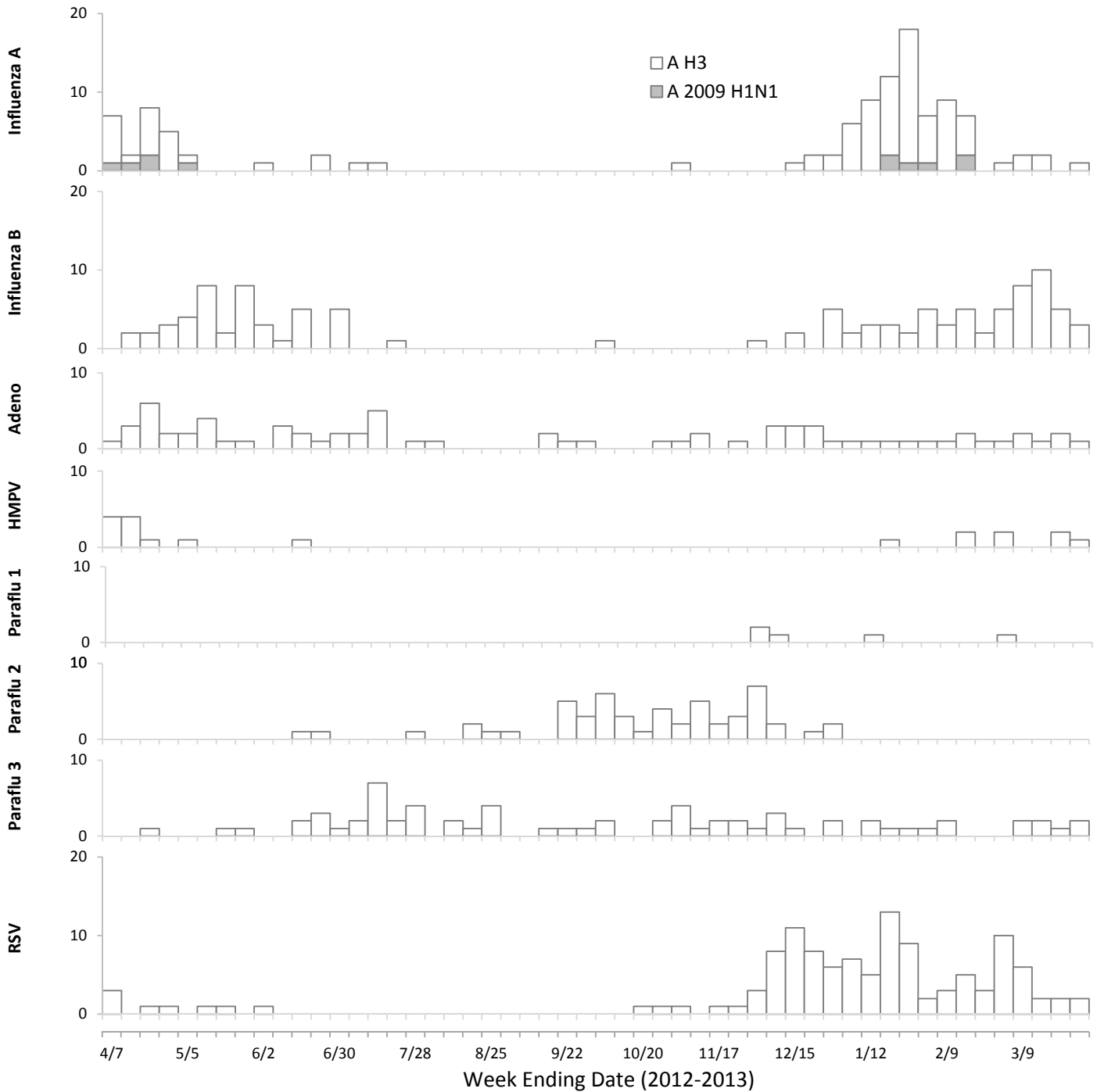


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

A high variety of respiratory viruses is circulating in Southern Nevada. Of these, influenza B and RSV continue to circulate at high levels in the community (Table 1, Fig. 2).

Respiratory syncytial virus (RSV) infects the lungs and breathing passages. Most people have had an RSV infection by age 2, but infection can occur more than once. Although recovery typically occurs within 1-2 weeks, RSV infection in children <6 months of age, in older adults and in people with weakened immune systems can be severe. In the US, RSV infections typically increase in the fall, peak in the winter and decrease in early spring (Fig. 2).