

# SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: March 27, 2013

*All Reporting Sites, Through the Week Ending March 23, 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 23, 2013, the following viruses were identified through PEWSS with a moderate volume of testing (Fig. 1): 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.

Adenovirus has been circulating at low levels.

Influenza A, 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
	2/23		3/2		3/9		3/16		3/23		
	n	%	n	%	n	%	n	%	n	%	
All negative	1	17%	10	36%	8	31%	6	27%	6	33%	Sporadic High Low Sporadic Sporadic Not Detected Sporadic High
Influenza A Positive	0	0%	1	4%	2	8%	2	9%	0	0%	
Influenza B Positive	2	33%	5	18%	8	32%	10	45%	5	28%	
Adenovirus Positive	1	17%	1	4%	2	8%	1	5%	2	11%	
Human Metapneumovirus Positive	0	0%	2	7%	0	0%	0	0%	2	11%	
Parainfluenza 1 Positive	0	0%	1	4%	0	0%	0	0%	0	0%	
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 3 Positive	0	0%	0	0%	2	8%	2	9%	1	6%	
RSV Positive	3	50%	10	36%	6	24%	2	9%	2	11%	
Co-infections	1	17%	2	7%	3	12%	1	5%	0	0%	
Specimens Tested	6	-	28	-	26	-	22	-	18	-	Moderate Volume

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

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

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

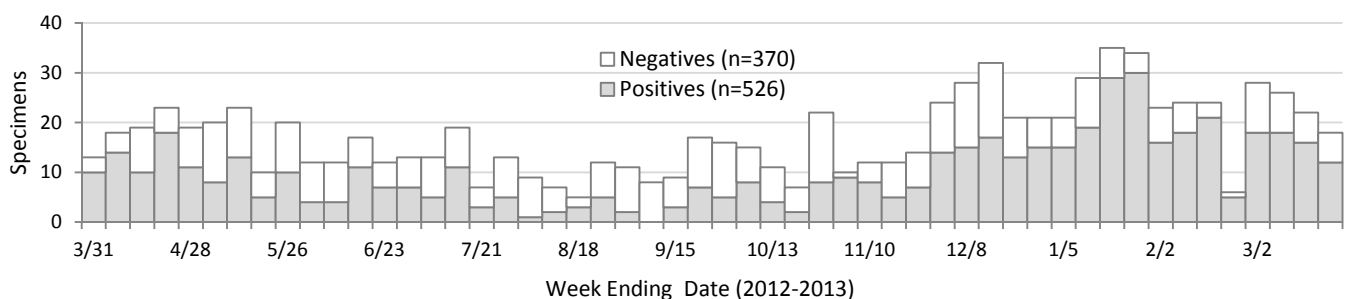
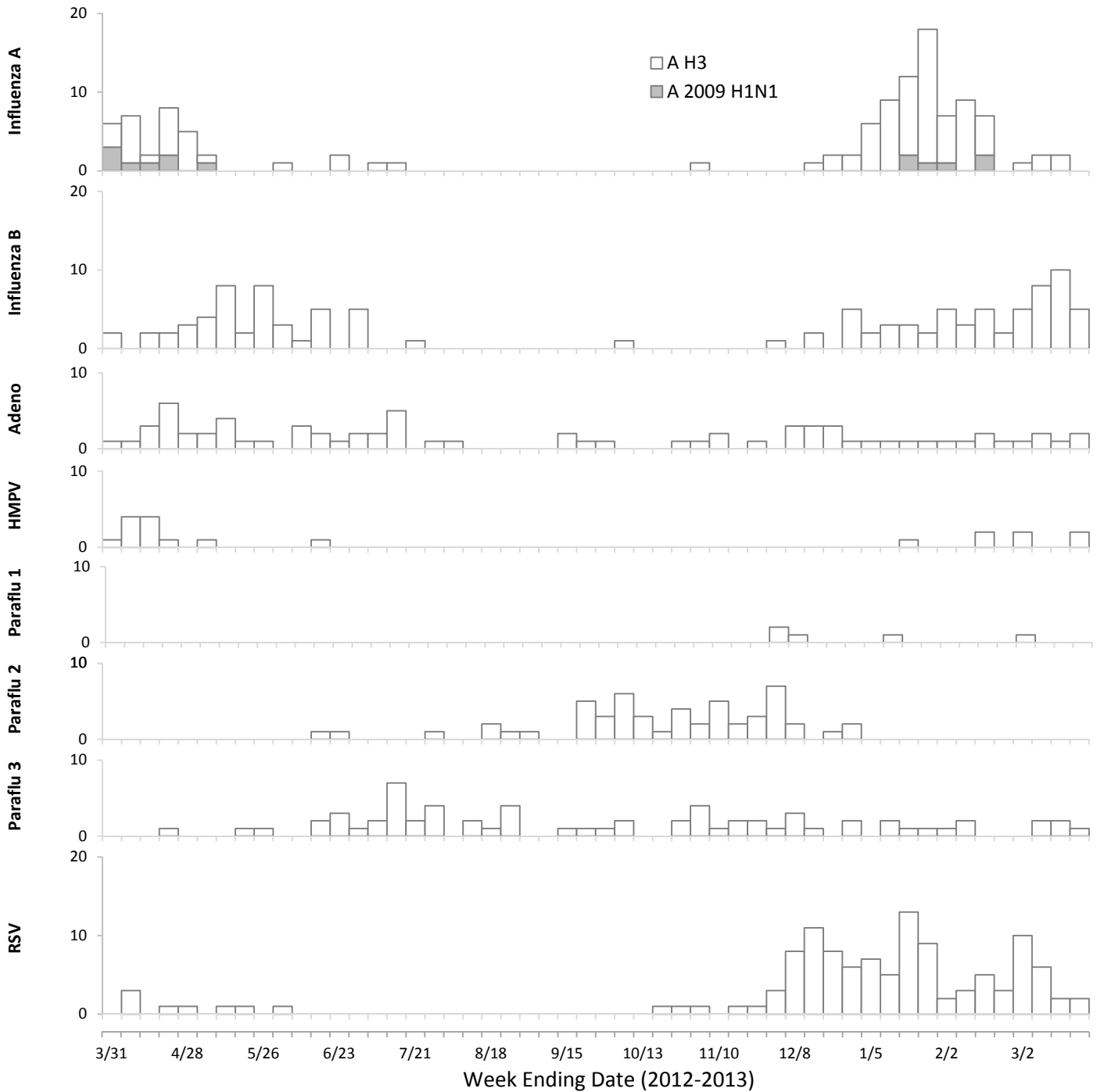


Figure 2. Weekly Positive Counts for Organisms Tested



**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).

Circulating influenza B viruses are separated into two distinct genetic lineages (Yamagata and Victoria), and viruses from both lineages have circulated in most recent influenza seasons. Influenza viruses expected to be circulating among people worldwide during 2012-2013 include influenza A (H3N2), 2009 H1N1, B (Yamagata lineage) and B (Victoria lineage) viruses. The annual influenza vaccination is the most effective method for preventing influenza virus infection and its complications.