

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: March 06, 2013

All Reporting Sites, Through the Week Ending March 02, 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 02, 2013, the following viruses were identified through PEWSS with a high volume of testing (Fig. 1): Influenza A, Influenza B, Adenovirus, Human Metapneumovirus, Parainfluenza 1 and RSV.

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

Influenza A, Influenza B and RSV have been circulating at high levels.

Adenovirus has 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
	2/2		2/9		2/16		2/23		3/2		
	n	%	n	%	n	%	n	%	n	%	
All negative	7	30%	6	25%	3	13%	1	17%	10	36%	
Influenza A Positive	7	30%	9	38%	7	29%	0	0%	1	4%	High
Influenza B Positive	5	22%	3	13%	5	21%	2	33%	5	18%	High
Adenovirus Positive	1	4%	1	4%	2	8%	1	17%	1	4%	Low
Human Metapneumovirus Positive	0	0%	0	0%	2	8%	0	0%	2	7%	Sporadic
Parainfluenza 1 Positive	0	0%	0	0%	0	0%	0	0%	1	4%	Sporadic
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Parainfluenza 3 Positive	1	4%	2	8%	0	0%	0	0%	0	0%	Sporadic
RSV Positive	2	9%	3	13%	5	21%	3	50%	10	36%	High
Co-infections	0	0%	0	0%	0	0%	1	17%	2	7%	
Specimens Tested	23	-	24	-	24	-	6	-	28	-	High Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	2/2		2/9		2/16		2/23		3/2		n	%
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	1	14%	0	0%	2	29%	0	-	0	0%	3	13%
Influenza A H1	0	0%	0	0%	0	0%	0	-	0	0%	0	0%
Influenza A H3	6	86%	9	100%	5	71%	0	-	1	100%	21	88%

Figure 1 - Weekly Number of Specimens Tested

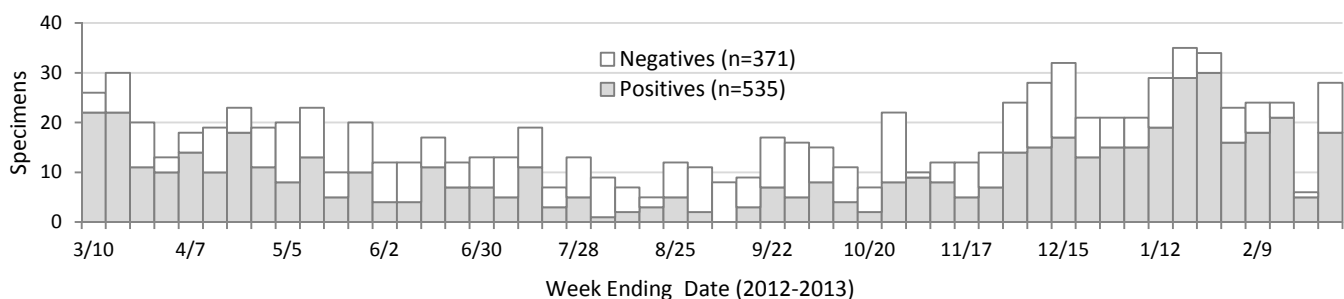
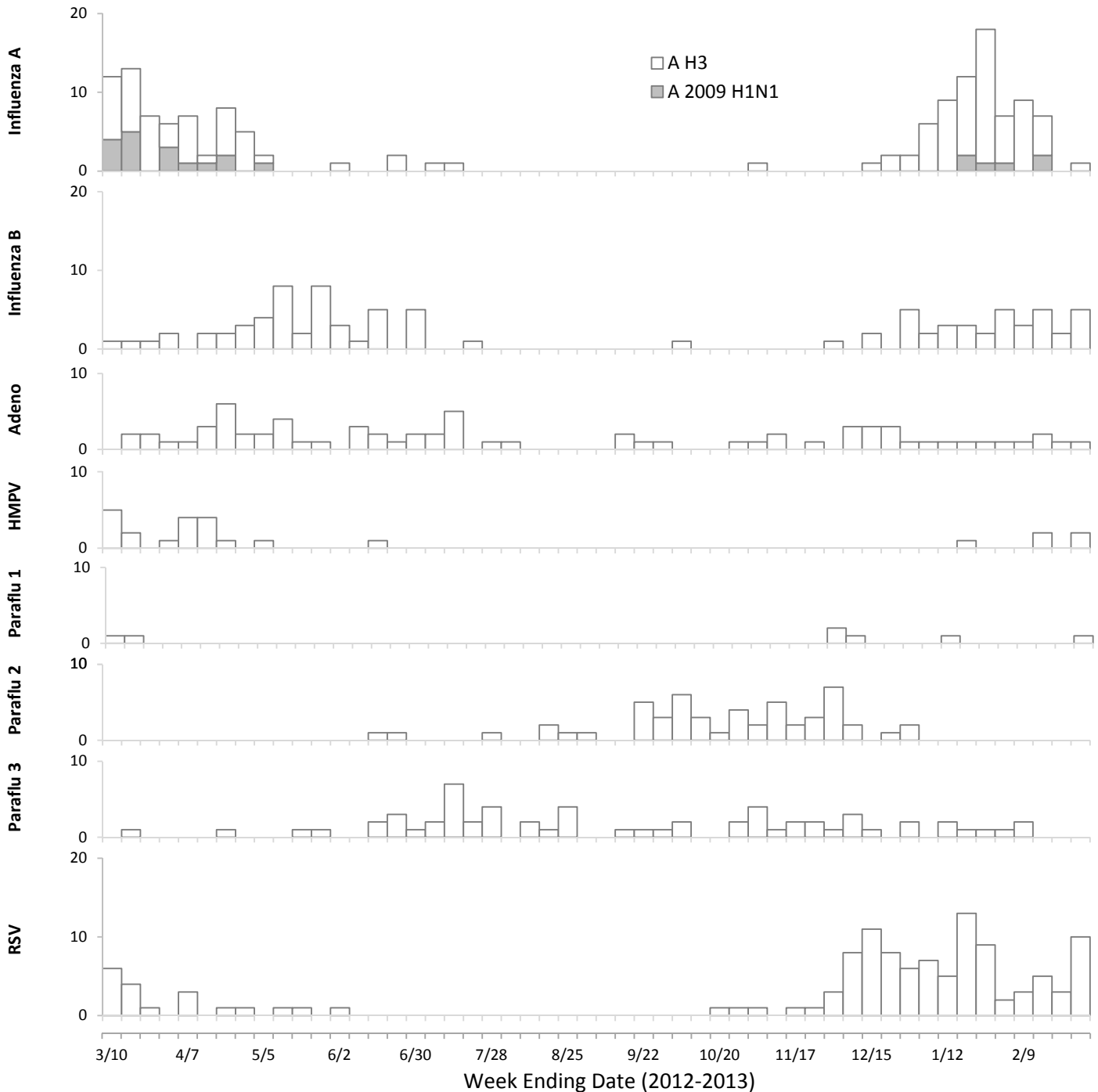


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

A high number of respiratory viruses are circulating in Southern Nevada this week (Table 1, Fig. 2). Of these, influenza A and B, and RSV continue to circulate at high levels.

The appearance of human Metapneumovirus (hMPV) in the past weeks may suggest the seasonal emergence of this pathogen in the community. Generally, the yearly distribution patterns of hMPV and RSV are similar, with peak circulation of hMPV occurring later than RSV (Fig. 2). HMPV was isolated in 2001, and circulates mainly in the winter in temperate regions. Clinical symptoms of hMPV infection resemble those caused by RSV and may include mild upper respiratory tract infections, wheezing, and severe lower respiratory tract illnesses.