

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: December 05, 2012

All Reporting Sites, Through the Week Ending December 01, 2012

The 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 the SNHD Office of Epidemiology at 702.759.1300.

General Update

During the week ending December 01, 2012, the following viruses were identified through PEWSS with a high volume of testing (Fig. 1): Influenza B, Parainfluenza 1, Parainfluenza 2, Parainfluenza 3 and RSV.

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

Parainfluenza 2 has been circulating at high levels.

Parainfluenza 3 and RSV have been circulating at low levels.

Influenza A, Influenza B, Adenovirus and Parainfluenza 1 have been sporadically identified.

Human Metapneumovirus has not been identified.

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

PCR Testing Results	Week Ending										Past 5 Weeks Circulation Levels
	11/3		11/10		11/17		11/24		12/1		
	n	%	n	%	n	%	n	%	n	%	
All negative	1	10%	4	33%	7	58%	7	50%	8	36%	
Influenza A Positive	1	10%	0	0%	0	0%	0	0%	0	0%	Sporadic
Influenza B Positive	0	0%	0	0%	0	0%	0	0%	1	5%	Sporadic
Adenovirus Positive	1	10%	2	17%	0	0%	1	7%	0	0%	Sporadic
Human Metapneumovirus Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Parainfluenza 1 Positive	0	0%	0	0%	0	0%	0	0%	2	9%	Sporadic
Parainfluenza 2 Positive	2	20%	5	42%	2	17%	3	21%	7	32%	High
Parainfluenza 3 Positive	4	40%	1	8%	2	17%	2	14%	1	5%	Low
RSV Positive	1	10%	0	0%	1	8%	1	7%	3	14%	Low
Co-infections	0	0%	0	0%	0	0%	0	0%	0	0%	
Specimens Tested	10	-	12	-	12	-	14	-	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	
	11/3		11/10		11/17		11/24		12/1			
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	0	0%	0	-	0	-	0	-	0	-	0	0%
Influenza A H1	0	0%	0	-	0	-	0	-	0	-	0	0%
Influenza A H3	1	100%	0	-	0	-	0	-	0	-	1	100%

Figure 1 - Weekly Number of Specimens Tested

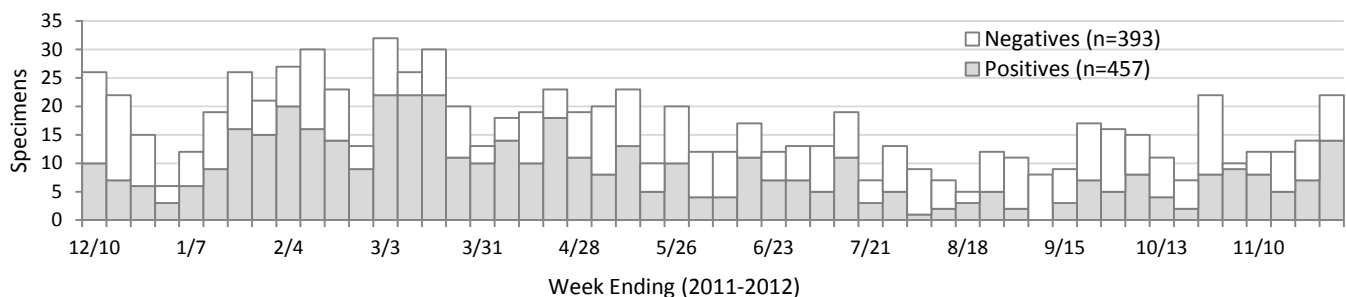
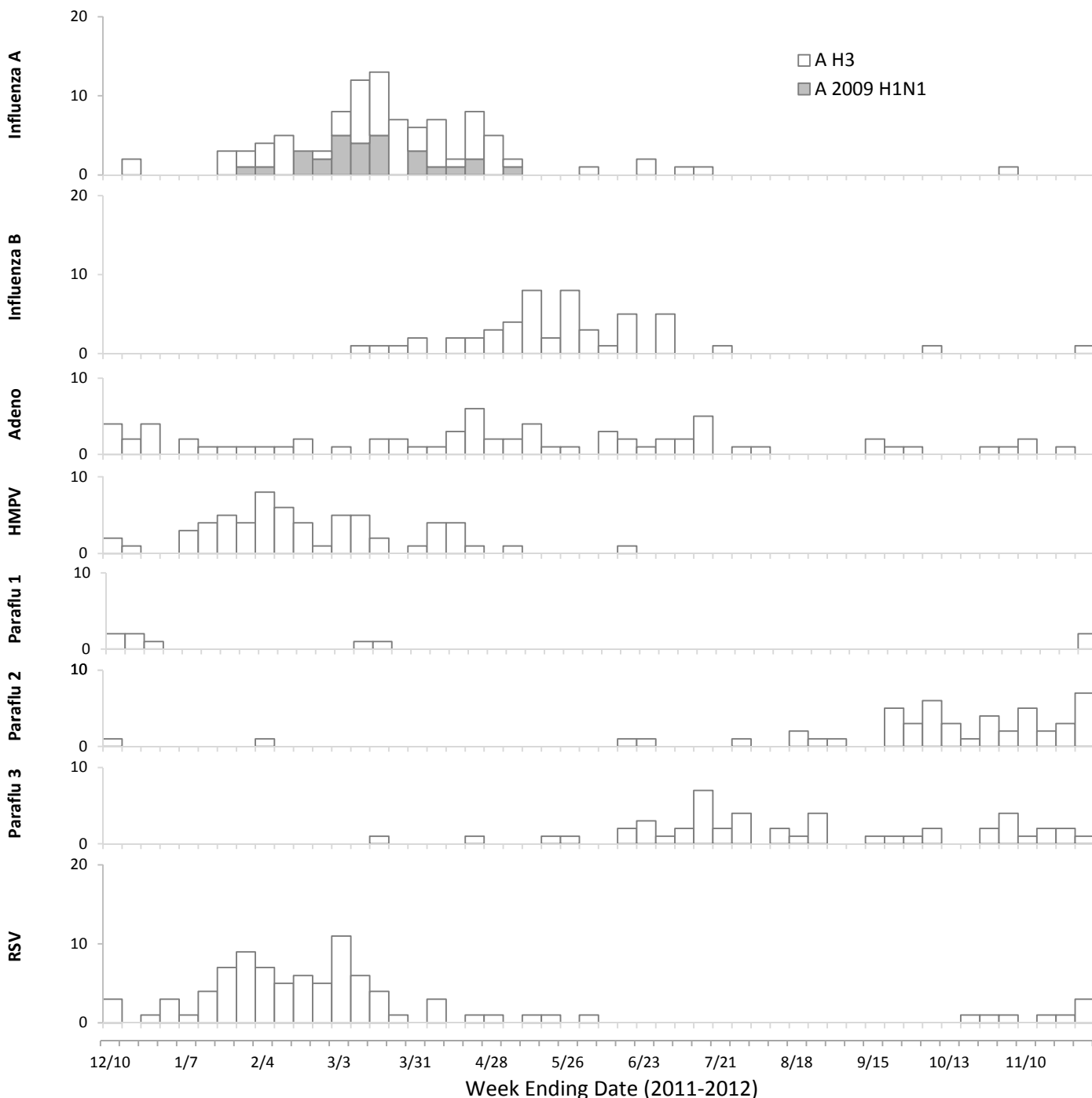


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

Influenza B was detected during this surveillance period (Table 1). The 2012-2013 influenza vaccine protects against influenza B, and is available at the Southern Nevada Health District immunization clinics. Please see <http://www.southernnevadahealthdistrict.org/immunizations/flu-shots.php> for clinic locations and hours.

PEWSS detected all surveyed serotypes of human parainfluenza virus (HPIV) this surveillance period (Table 1; Figure 2). HPIV-2 continues to circulate at high levels in Southern Nevada (Table 1). HPIVs are responsible for 30%-40% of all acute respiratory tract infections in infants and children, and also cause respiratory tract infections of variable severity in adults.