

# SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: December 12, 2012

All Reporting Sites, Through the Week Ending December 08, 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 08, 2012, the following viruses were identified through PEWSS with a high volume of testing (Fig. 1): Adenovirus, 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 B, Adenovirus and Parainfluenza 1 have been sporadically identified.

Influenza A and Human Metapneumovirus have not been identified.

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

PCR Testing Results	Week Ending										Past 5 Weeks Circulation Levels
	11/10		11/17		11/24		12/1		12/8		
	n	%	n	%	n	%	n	%	n	%	
All negative	4	33%	7	58%	7	50%	10	42%	13	46%	Not Detected Sporadic Sporadic Not Detected Sporadic High Low Low High Volume
Influenza A Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Influenza B Positive	0	0%	0	0%	0	0%	1	4%	0	0%	
Adenovirus Positive	2	17%	0	0%	1	7%	0	0%	3	11%	
Human Metapneumovirus Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 1 Positive	0	0%	0	0%	0	0%	2	8%	1	4%	
Parainfluenza 2 Positive	5	42%	2	17%	3	21%	7	29%	2	7%	
Parainfluenza 3 Positive	1	8%	2	17%	2	14%	1	4%	3	11%	
RSV Positive	0	0%	1	8%	1	7%	3	13%	8	29%	
Co-infections	0	0%	0	0%	0	0%	0	0%	2	7%	
Specimens Tested	12	-	12	-	14	-	24	-	28	-	

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	11/10		11/17		11/24		12/1		12/8			
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	0	-	0	-	0	-	0	-	0	-	0	-
Influenza A H1	0	-	0	-	0	-	0	-	0	-	0	-
Influenza A H3	0	-	0	-	0	-	0	-	0	-	0	-

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

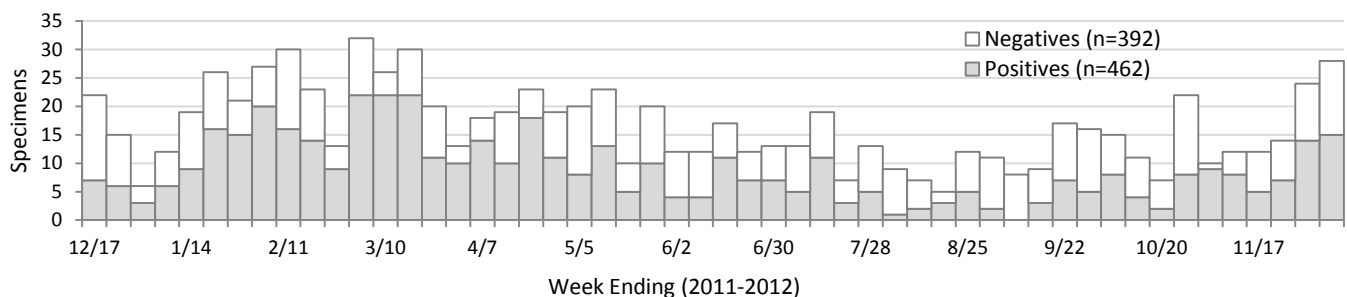
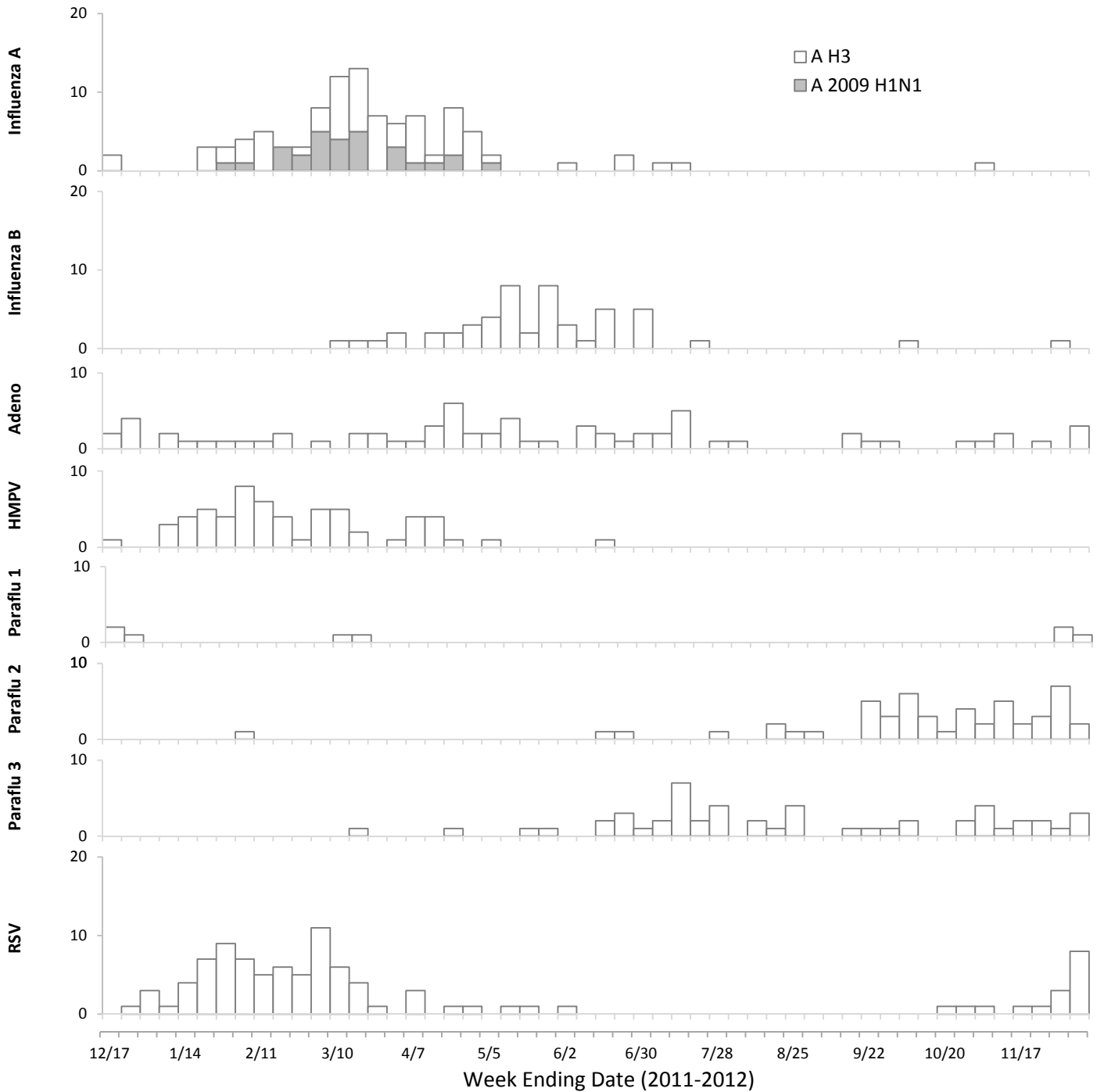


Figure 2. Weekly Positive Counts for Organisms Tested



**Other News and Information**

PEWSS detected a high variety of circulating respiratory viruses in Southern Nevada (Table 1; Fig. 2). In the past weeks, all surveyed serotypes of human parainfluenza virus (HPIV) were detected. HPIV-2 continues to circulate at high levels in the community (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.

Respiratory syncytial virus (RSV) is the most common cause of bronchiolitis and pneumonia in children under 1 year of age in the U.S, and is an important cause of respiratory illness in older adults.