

# SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: November 28, 2012

All Reporting Sites, Through the Week Ending November 24, 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 November 24, 2012, the following viruses were identified through PEWSS with a moderate volume of testing (Fig. 1): Adenovirus, 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.

Adenovirus, Parainfluenza 3 and RSV have been circulating at low levels.

Influenza A has been sporadically identified.

Influenza B, Human Metapneumovirus and Parainfluenza 1 have not been identified.

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

PCR Testing Results	Week Ending										Past 5 Weeks Circulation Levels
	10/27		11/3		11/10		11/17		11/24		
	n	%	n	%	n	%	n	%	n	%	
All negative	14	64%	1	10%	4	33%	7	58%	7	50%	Sporadic Not Detected Low Not Detected Not Detected High Low Low
Influenza A Positive	0	0%	1	10%	0	0%	0	0%	0	0%	
Influenza B Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Adenovirus Positive	1	5%	1	10%	2	17%	0	0%	1	7%	
Human Metapneumovirus Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 1 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 2 Positive	4	18%	2	20%	5	42%	2	17%	3	21%	
Parainfluenza 3 Positive	2	9%	4	40%	1	8%	2	17%	2	14%	
RSV Positive	1	5%	1	10%	0	0%	1	8%	1	7%	
Co-infections	0	0%	0	0%	0	0%	0	0%	0	0%	
Specimens Tested	22	-	10	-	12	-	12	-	14	-	Moderate Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	10/27		11/3		11/10		11/17		11/24			
	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	0	-	1	100%	0	-	0	-	0	-	1	100%

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

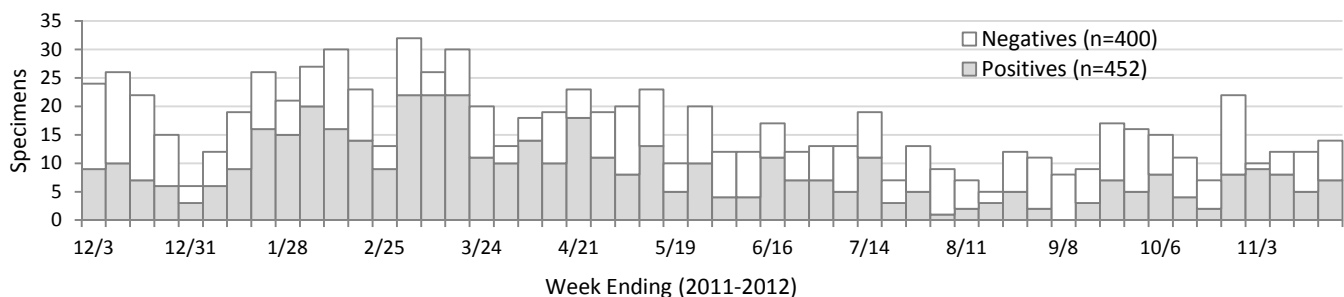
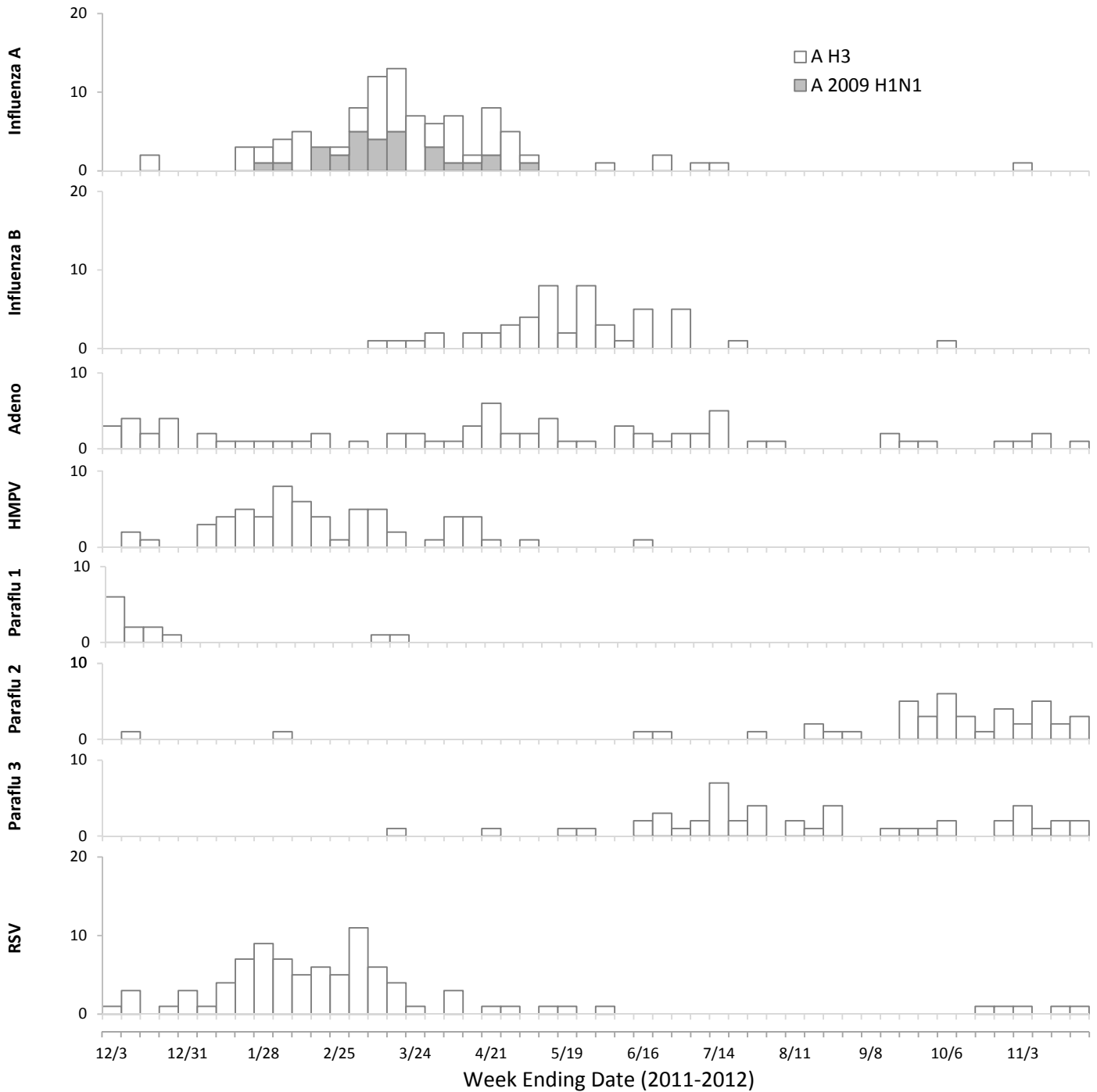


Figure 2. Weekly Positive Counts for Organisms Tested



**Other News and Information**

Human parainfluenza virus (HPIV) -2 continues to circulate at high levels in Southern Nevada (Table 1; Figure 2). HPIVs are classified into five serotypes: HPIV-1, HPIV-2, HPIV-3, HPIV-4a, and HPIV-4b. PEWSS provides year-round surveillance for HPIV-1, -2, -3 but not for -4, as it is less often detected in patients and may cause less severe disease than the other serotypes.

HPIVs are responsible for 30%-40% of all acute respiratory tract infections in infants and children. Infections cause conditions that may include common cold with fever, croup, bronchiolitis, and pneumonia. HPIVs also cause respiratory tract infections of variable severity in adults.