

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: December 26, 2012

All Reporting Sites, Through the Week Ending December 22, 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 22, 2012, the following viruses were identified through PEWSS with a moderate volume of testing (Fig. 1): Influenza A, Adenovirus, Parainfluenza 2 and RSV.

Over the past five weeks (Tables 1 & 2), the following were identified in the community through PEWSS: RSV has been circulating at high levels.

Adenovirus, Parainfluenza 2 and Parainfluenza 3 have been circulating at low levels.

Influenza A, Influenza B 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
	11/24		12/1		12/8		12/15		12/22		
	n	%	n	%	n	%	n	%	n	%	
All negative	7	50%	10	42%	13	46%	15	47%	8	50%	Sporadic Sporadic Low Not Detected Sporadic Low Low High
Influenza A Positive	0	0%	0	0%	0	0%	1	3%	2	13%	
Influenza B Positive	0	0%	1	4%	0	0%	2	6%	0	0%	
Adenovirus Positive	1	7%	0	0%	3	11%	3	9%	2	13%	
Human Metapneumovirus Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 1 Positive	0	0%	2	8%	1	4%	0	0%	0	0%	
Parainfluenza 2 Positive	3	21%	7	29%	2	7%	0	0%	1	6%	
Parainfluenza 3 Positive	2	14%	1	4%	3	11%	1	3%	0	0%	
RSV Positive	1	7%	3	13%	8	29%	11	34%	4	25%	
Co-infections	0	0%	0	0%	2	7%	1	3%	1	6%	
Specimens Tested	14	-	24	-	28	-	32	-	16	-	Moderate Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	11/24		12/1		12/8		12/15		12/22		n	%
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	0	-	0	-	0	-	0	0%	0	0%	0	0%
Influenza A H1	0	-	0	-	0	-	0	0%	0	0%	0	0%
Influenza A H3	0	-	0	-	0	-	1	100%	2	100%	3	100%

Figure 1 - Weekly Number of Specimens Tested

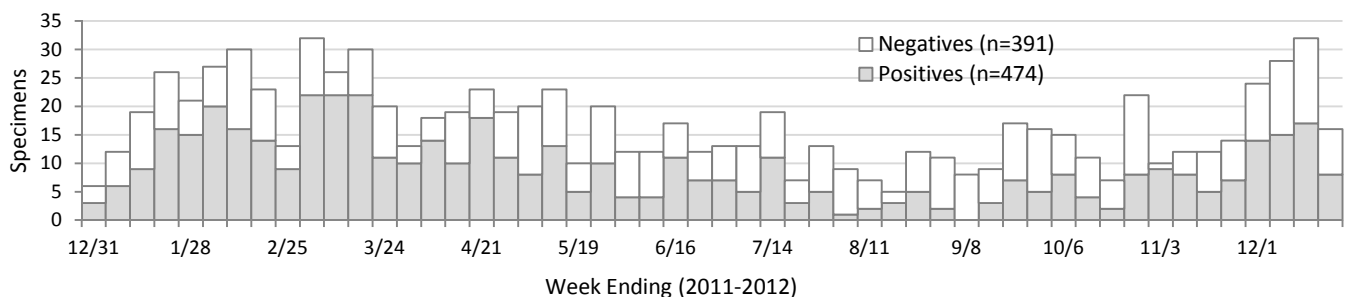
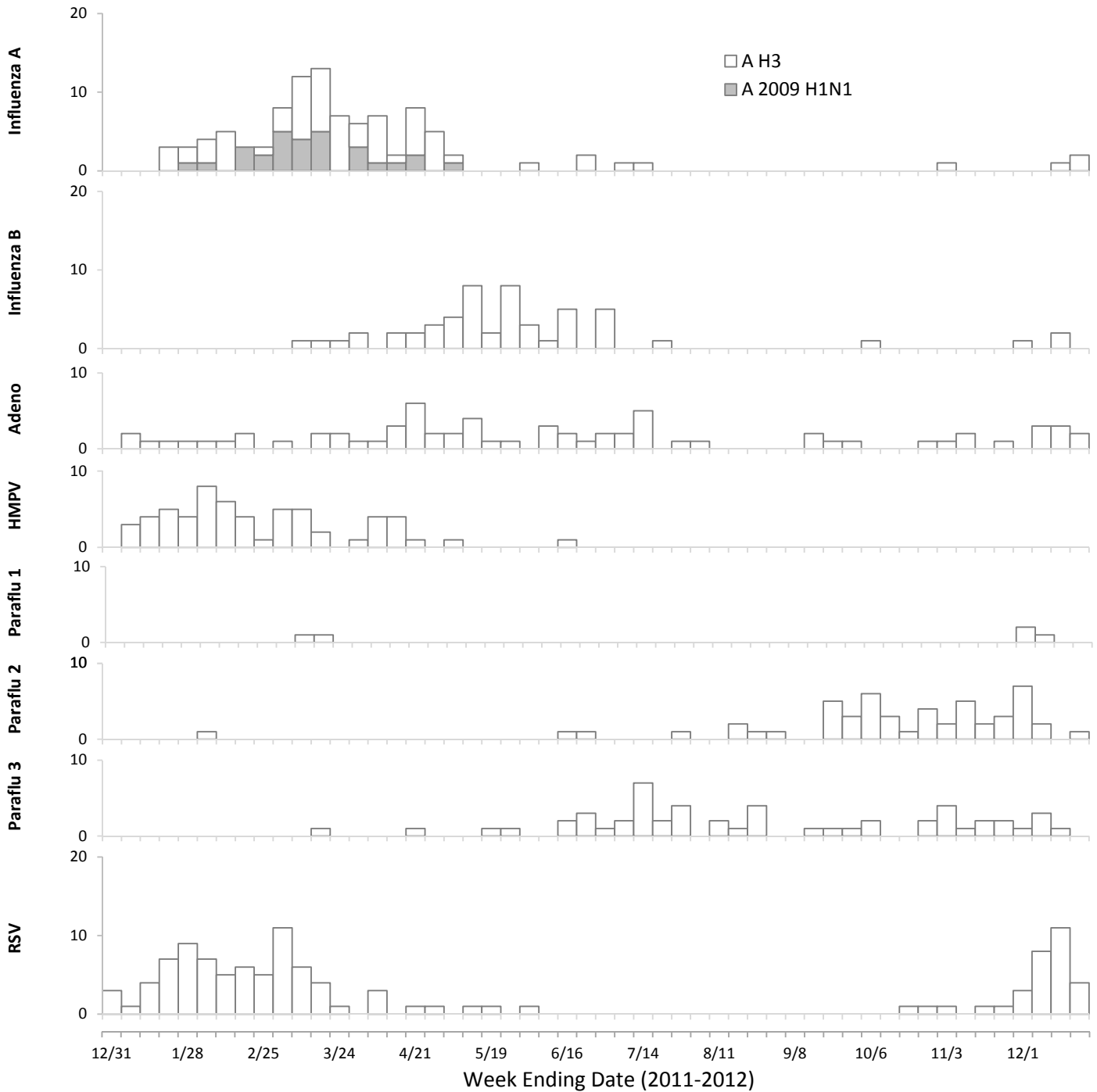


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

Respiratory syncytial virus (RSV) is circulating high levels in the community (Table 1; Fig. 2). 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.

Each year, experts from Food and Drug Administration (FDA), World Health Organization (WHO), U.S. Centers for Disease Control and Prevention (CDC) and other institutions study influenza virus samples collected worldwide. Seasonal influenza vaccines are made from viruses that were identified as most likely to cause illness in the upcoming influenza season. The influenza vaccine is offered at the Southern Nevada Health District immunization clinics.