

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: January 09, 2013

All Reporting Sites, Through the Week Ending January 05, 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 January 05, 2013, the following viruses were identified through PEWSS with a high volume of testing (Fig. 1): Influenza A, Influenza B, Adenovirus 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.

Influenza A and Adenovirus have been circulating at low levels.

Influenza B, Parainfluenza 1, Parainfluenza 2 and Parainfluenza 3 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
	12/8		12/15		12/22		12/29		1/5		
	n	%	n	%	n	%	n	%	n	%	
All negative	13	46%	15	47%	8	38%	6	29%	6	29%	Low Sporadic Low Not Detected Sporadic Sporadic Sporadic High
Influenza A Positive	0	0%	1	3%	2	10%	2	10%	6	29%	
Influenza B Positive	0	0%	2	6%	0	0%	5	24%	2	10%	
Adenovirus Positive	3	11%	3	9%	3	14%	1	5%	1	5%	
Human Metapneumovirus Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 1 Positive	1	4%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 2 Positive	2	7%	0	0%	1	5%	2	10%	0	0%	
Parainfluenza 3 Positive	3	11%	1	3%	0	0%	2	10%	0	0%	
RSV Positive	8	29%	11	34%	8	38%	6	29%	7	33%	
Co-infections	2	7%	1	3%	1	5%	2	10%	1	5%	
Specimens Tested	28	-	32	-	21	-	21	-	21	-	High Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	12/8		12/15		12/22		12/29		1/5		n	%
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	0	-	0	0%	0	0%	0	0%	0	0%	0	0%
Influenza A H1	0	-	0	0%	0	0%	0	0%	0	0%	0	0%
Influenza A H3	0	-	1	100%	2	100%	2	100%	6	100%	11	100%

Figure 1 - Weekly Number of Specimens Tested

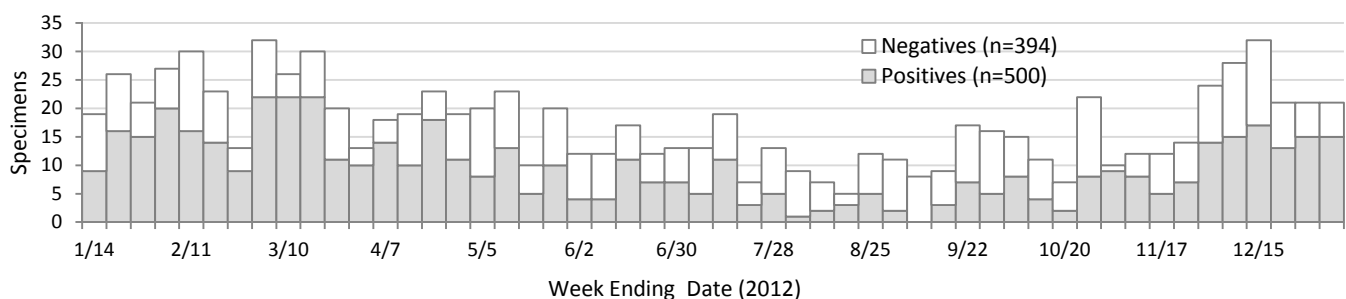
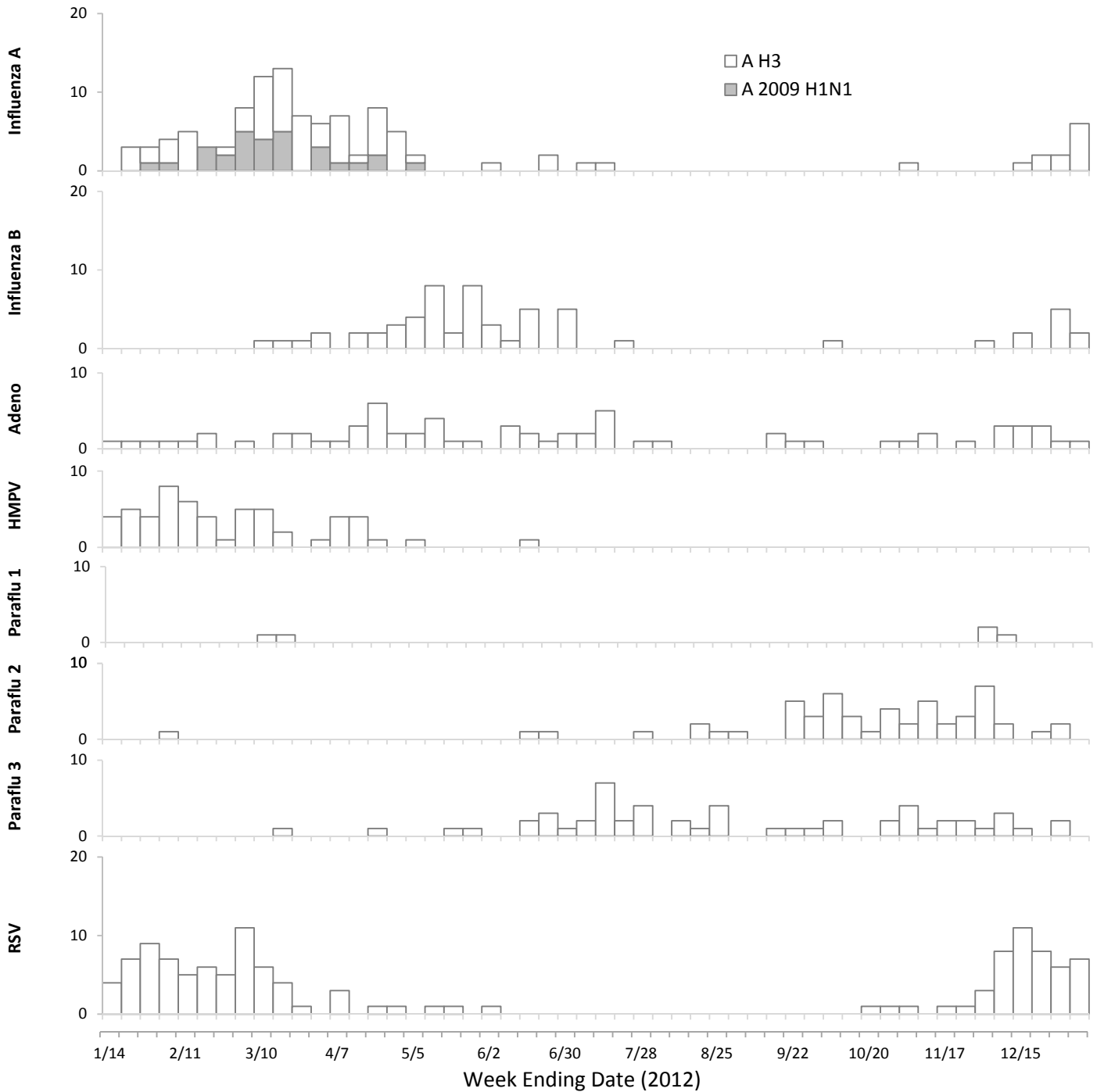


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

Respiratory syncytial virus (RSV) continues to circulate at high levels in Southern Nevada (Table 1; Fig. 2). Testing by the Centers for Disease Control and Prevention (CDC) shows the majority of currently circulating influenza viruses are susceptible to the neuraminidase inhibitor antiviral medications oseltamivir and zanamivir. Antiviral treatment with oseltamivir or zanamivir is recommended as early as possible for patients with confirmed or suspected influenza who have severe, complicated, or progressive illness; who require hospitalization; or who are at greater risk for serious influenza-related complications. Additional treatment and chemoprophylaxis information for influenza virus infection is available at <http://www.cdc.gov/flu/antivirals/index.htm>.