

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: May 29, 2013

All Sentinel Sites, Through the Week Ending May 25, 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 May 25, 2013, the following viruses were identified through PEWSS with a moderate volume of testing (Fig. 1): Influenza B, Adenovirus, Human Metapneumovirus, Parainfluenza 1 and Parainfluenza 3.

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

Adenovirus has been circulating at high levels.

Influenza B, Human Metapneumovirus and Parainfluenza 3 have been circulating at low levels.

Influenza A, Parainfluenza 1 and RSV have been sporadically identified.

Parainfluenza 2 has not been identified.

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

PCR Testing Results	Week Ending										Past 5 Weeks Circulation Levels
	4/27		5/4		5/11		5/18		5/25		
	n	%	n	%	n	%	n	%	n	%	
All negative	10	42%	6	35%	4	44%	5	50%	7	41%	Sporadic Low High Low Sporadic Not Detected Low Sporadic Moderate Volume
Influenza A Positive	1	4%	0	0%	0	0%	0	0%	0	0%	
Influenza B Positive	2	8%	2	12%	1	11%	1	10%	1	6%	
Adenovirus Positive	3	13%	4	24%	3	33%	3	30%	4	24%	
Human Metapneumovirus Positive	6	25%	2	12%	1	11%	0	0%	3	18%	
Parainfluenza 1 Positive	3	13%	1	6%	0	0%	0	0%	1	6%	
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 3 Positive	1	4%	1	6%	2	22%	2	20%	2	12%	
RSV Positive	0	0%	1	6%	0	0%	0	0%	0	0%	
Co-infections	2	8%	0	0%	1	11%	1	10%	1	6%	
Specimens Tested	24	-	17	-	9	-	10	-	17	-	

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	4/27		5/4		5/11		5/18		5/25		n	%
	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

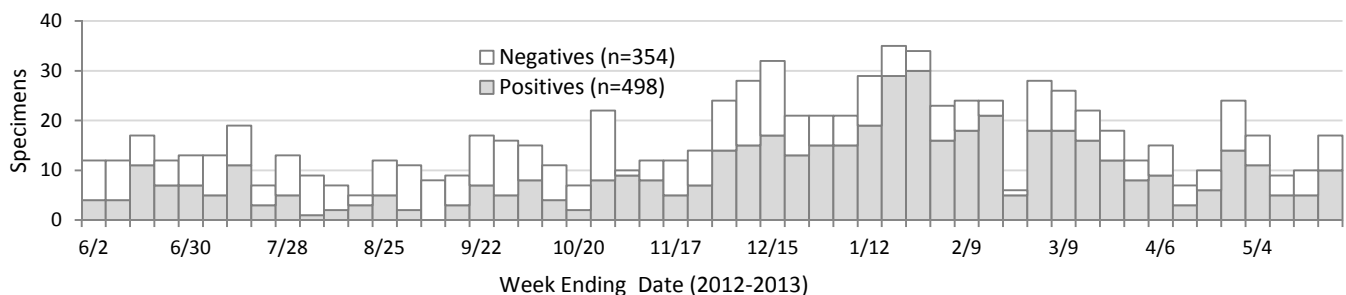
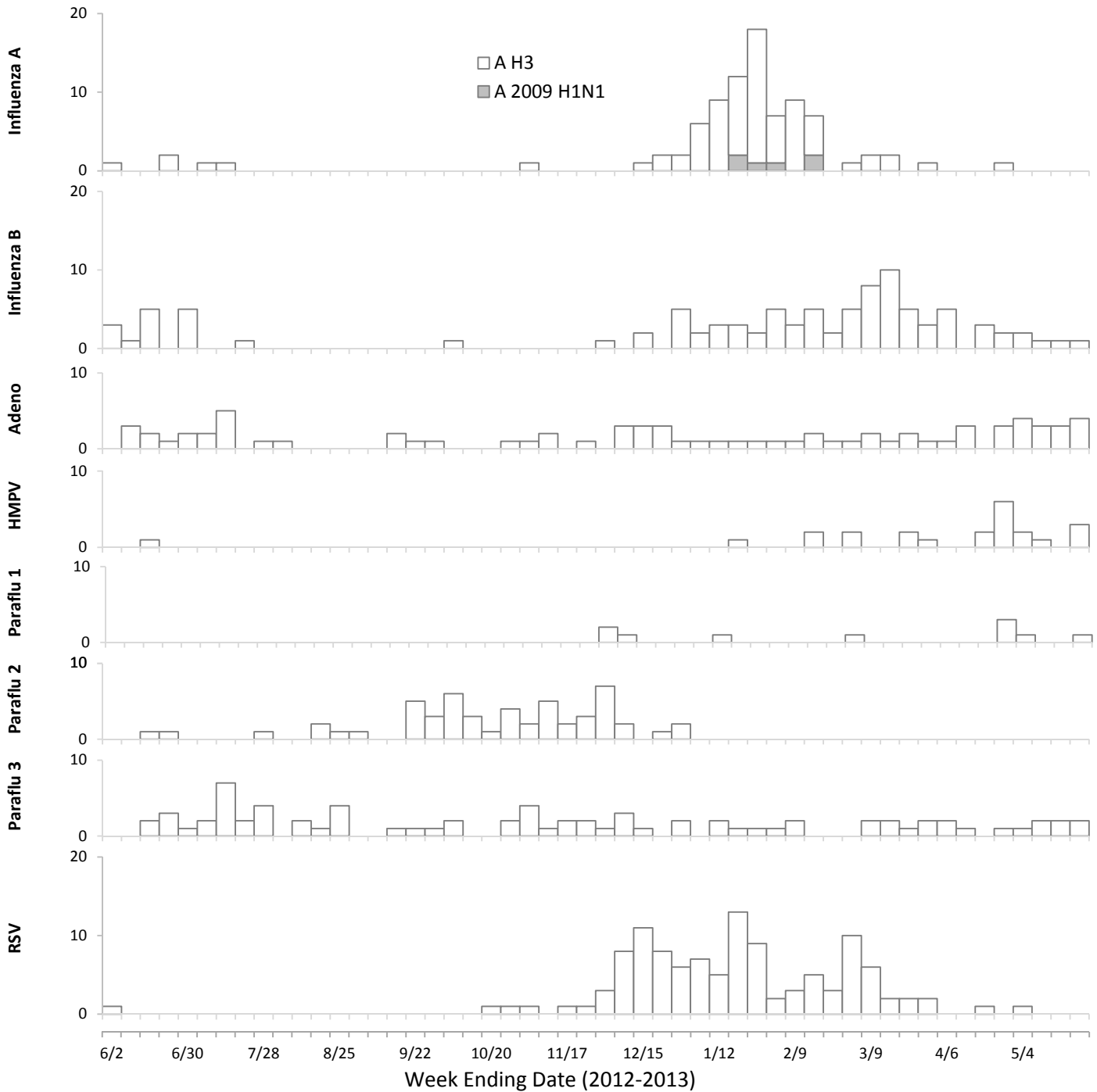


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

PEWSS detected a high number of respiratory viruses circulating in Southern Nevada this week (Table 2, Fig. 1).

Human metapneumovirus (hMPV) was identified in 2001 in the Netherlands. Most people infected with hMPV have mild symptoms, but some people have more severe illness, with wheezing, difficulty breathing, hoarseness, cough, pneumonia, and a flare-up of asthma. The elderly, children < 1 year of age, and those who are immunocompromised can have more serious hMPV infections.

The circulation of hMPV is similar to RSV, with peak hMPV circulation often appearing after RSV (Fig. 2).