

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: April 17, 2013

All Reporting Sites, Through the Week Ending April 13, 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 April 13, 2013, the following viruses were identified through PEWSS with a low volume of testing (Fig. 1): Adenovirus and Parainfluenza 3.

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

Influenza B has been circulating at high levels.

Adenovirus and Parainfluenza 3 have been circulating at low levels.

Influenza A, Human Metapneumovirus and RSV have been sporadically identified.

Parainfluenza 1 and Parainfluenza 2 have not been identified.

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

PCR Testing Results	Week Ending										Past 5 Weeks Circulation Levels
	3/16		3/23		3/30		4/6		4/13		
	n	%	n	%	n	%	n	%	n	%	
All negative	6	27%	6	33%	4	33%	6	40%	4	57%	Sporadic High Low Sporadic Not Detected Not Detected Low Sporadic
Influenza A Positive	2	9%	0	0%	1	8%	0	0%	0	0%	
Influenza B Positive	10	45%	5	28%	3	25%	5	36%	0	0%	
Adenovirus Positive	1	5%	2	11%	1	8%	1	7%	3	43%	
Human Metapneumovirus Positive	0	0%	2	11%	1	8%	0	0%	0	0%	
Parainfluenza 1 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 3 Positive	2	9%	1	6%	2	17%	2	14%	1	14%	
RSV Positive	2	9%	2	11%	2	17%	0	0%	0	0%	
Co-infections	1	5%	0	0%	2	17%	0	0%	1	14%	
Specimens Tested	22	-	18	-	12	-	15	-	7	-	Low Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	3/16		3/23		3/30		4/6		4/13			
	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	2	100%	0	-	1	100%	0	-	0	-	3	100%

Figure 1 - Weekly Number of Specimens Tested

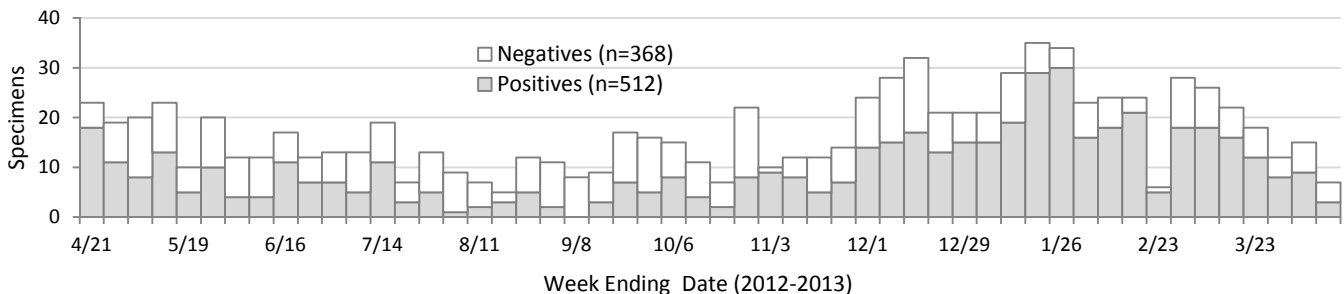
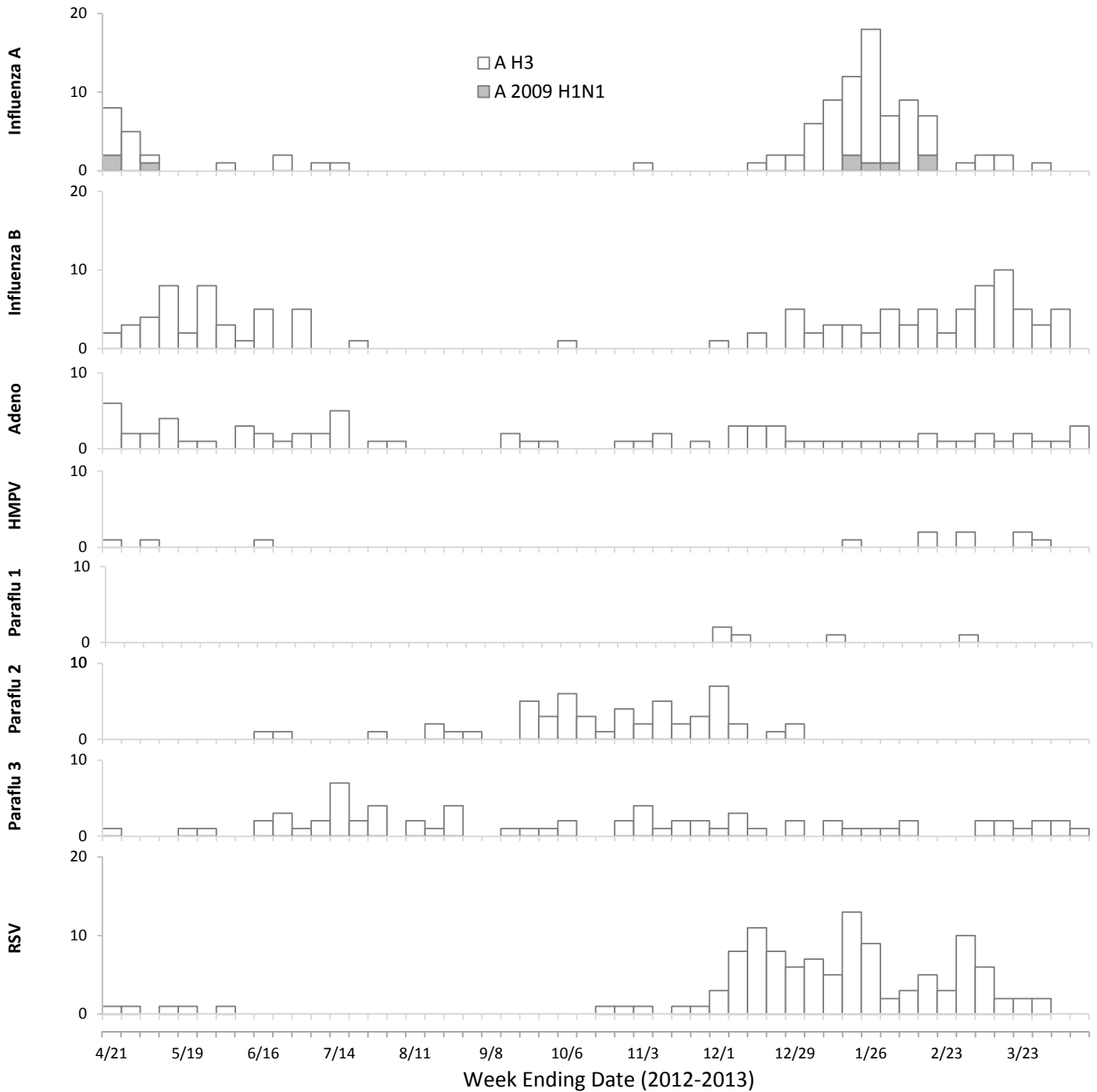


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

Although influenza B was circulating at high levels in the previous five weeks in Southern Nevada, it was not detected by PEWSS last week (Table 1, Fig. 1).

Adenovirus and parainfluenza-3 circulate at varying levels throughout the year in our community (Fig. 2). Adenovirus outbreaks are more common in late winter, spring, and early summer. Similarly, parainfluenza-3 outbreaks occur mainly in spring and summer (Fig. 2). Re-infection with any of the parainfluenza viruses can occur throughout life, often causing mild upper respiratory infections in young adults, but severe disease in immunocompromised patients.