

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: May 01, 2013

All Sentinel Sites, Through the Week Ending April 27, 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 27, 2013, the following viruses were identified through PEWSS with a high volume of testing (Fig. 1): Influenza A, 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: Influenza B, Adenovirus and Parainfluenza 3 have been circulating at low levels. Influenza A, Human Metapneumovirus, 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
	3/30		4/6		4/13		4/20		4/27		
	n	%	n	%	n	%	n	%	n	%	
All negative	4	33%	6	40%	4	57%	4	40%	10	42%	Sporadic Low Low Sporadic Sporadic Not Detected Low Sporadic
Influenza A Positive	1	8%	0	0%	0	0%	0	0%	1	4%	
Influenza B Positive	3	25%	5	36%	0	0%	3	30%	2	8%	
Adenovirus Positive	1	8%	1	7%	3	43%	0	0%	3	13%	
Human Metapneumovirus Positive	1	8%	0	0%	0	0%	2	20%	6	25%	
Parainfluenza 1 Positive	0	0%	0	0%	0	0%	0	0%	3	13%	
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	
Parainfluenza 3 Positive	2	17%	2	14%	1	14%	0	0%	1	4%	
RSV Positive	2	17%	0	0%	0	0%	1	10%	0	0%	
Co-infections	2	17%	0	0%	1	14%	0	0%	2	8%	
Specimens Tested	12	-	15	-	7	-	10	-	24	-	High Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	3/30		4/6		4/13		4/20		4/27		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	1	100%	0	-	0	-	0	-	1	100%	2	100%

Figure 1 - Weekly Number of Specimens Tested

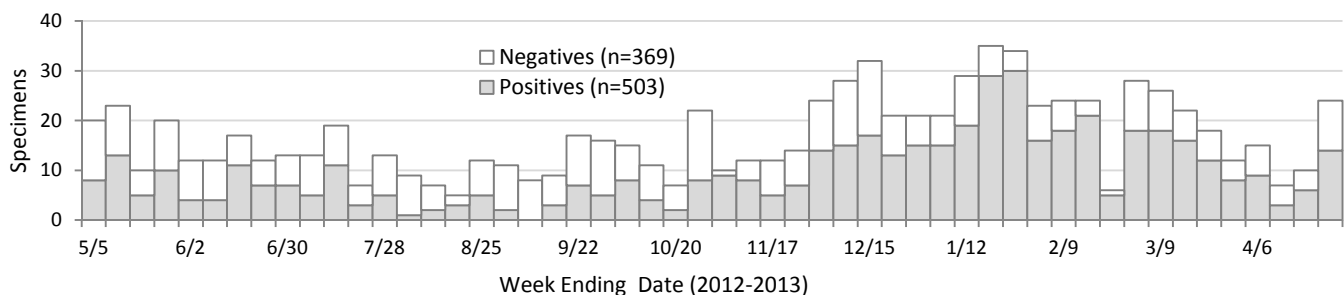
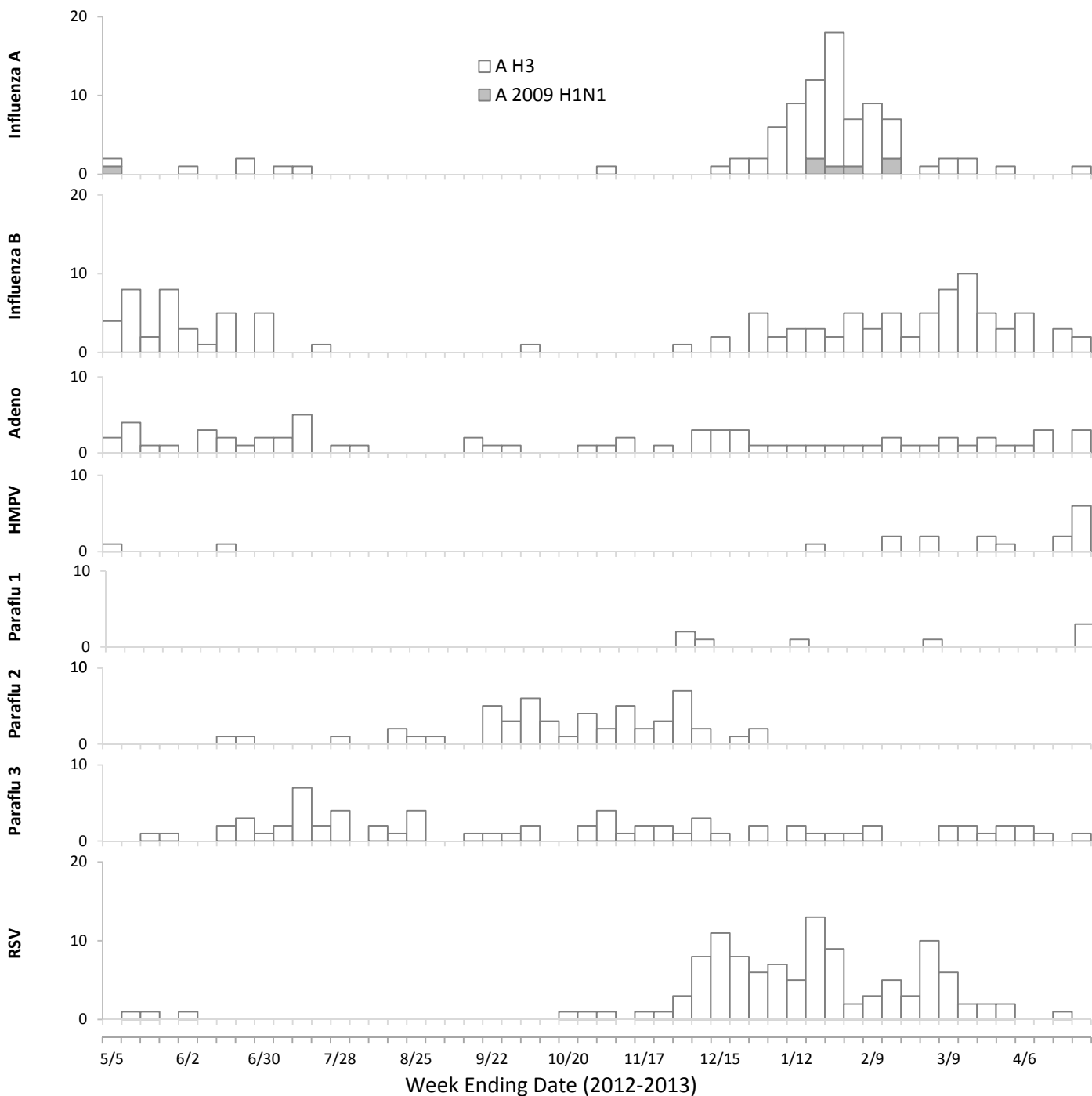


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

PEWSS detected Human Metapneumovirus (HMPV) in 25% of the specimens tested this week. The distribution of HMPV and RSV tend to be similar, with peak circulation of HMPV often lagging behind peak RSV (Fig 2). Clinical symptoms of HMPV infection also resemble those caused by RSV, and range from mild upper respiratory tract infections to wheezing and severe lower respiratory tract illnesses that require hospitalization. Most children infected with HMPV are treated as outpatients.

Also, in view of the markedly increased incidence of pertussis in the community, please consider pertussis in your evaluation of an illness with coughing.