

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: June 19, 2013

All Sentinel Sites, Through the Week Ending June 15, 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 June 15, 2013, the following viruses were identified through PEWSS with a low volume of testing (Fig. 1): Adenovirus, Human Metapneumovirus and Parainfluenza 1.

Over the past five weeks (Tables 1 & 2), the following were identified in the community through PEWSS: Adenovirus and Human Metapneumovirus have been circulating at low levels. Influenza B, Parainfluenza 1 and Parainfluenza 3 have been sporadically identified. Influenza A, Parainfluenza 2 and RSV have not been identified.

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

PCR Testing Results	Week Ending										Past 5 Weeks Circulation Levels
	5/18		5/25		6/1		6/8		6/15		
	n	%	n	%	n	%	n	%	n	%	
All negative	5	50%	7	41%	6	43%	4	80%	1	17%	
Influenza A Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Influenza B Positive	1	10%	1	6%	1	7%	0	0%	0	0%	Sporadic
Adenovirus Positive	3	30%	4	24%	5	36%	0	0%	2	33%	Low
Human Metapneumovirus Positive	0	0%	3	18%	1	7%	1	20%	3	50%	Low
Parainfluenza 1 Positive	0	0%	1	6%	0	0%	0	0%	1	17%	Sporadic
Parainfluenza 2 Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Parainfluenza 3 Positive	2	20%	2	12%	1	7%	0	0%	0	0%	Sporadic
RSV Positive	0	0%	0	0%	0	0%	0	0%	0	0%	Not Detected
Co-infections	1	10%	1	6%	0	0%	0	0%	1	17%	
Specimens Tested	10	-	17	-	14	-	5	-	6	-	Low Volume

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

Influenza A Typing (% of influenza A)	Week Ending										5-Week Totals	
	5/18		5/25		6/1		6/8		6/15			
	n	%	n	%	n	%	n	%	n	%		
Influenza A 2009 H1N1	0	-	0	-	0	-	0	-	0	-	0	-
Influenza A H1	0	-	0	-	0	-	0	-	0	-	0	-
Influenza A H3	0	-	0	-	0	-	0	-	0	-	0	-

Figure 1 - Weekly Number of Specimens Tested

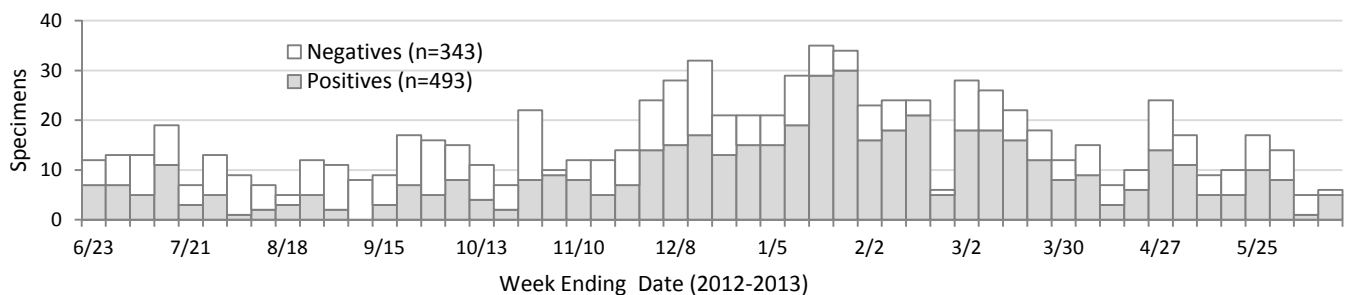
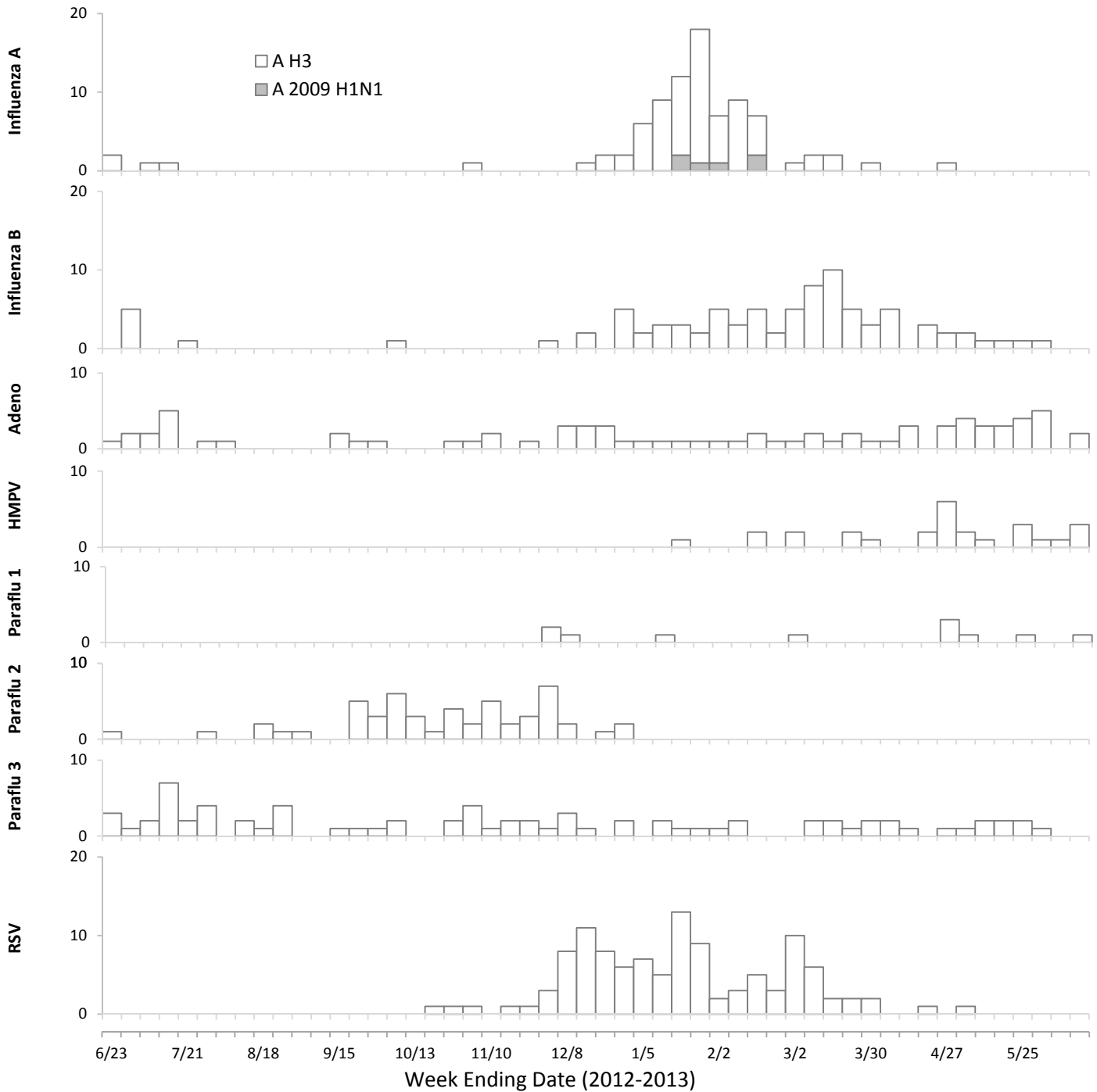


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

PEWSS detected Human Metapneumovirus (HMPV) in 50% of the specimens tested this week (Table 1). Clinical symptoms of HMPV infection 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.

Adenovirus circulates at varying levels in Southern Nevada year round (Fig. 2). Adenovirus outbreaks usually involve respiratory illnesses or conjunctivitis. These outbreaks are more common in late winter, spring, and early summer but can occur throughout the year.