

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: May 05, 2011

All Reporting Sites, Through the Week Ending April 30, 2011

General Update

The Southern Nevada Health District (SNHD) Pediatric Early Warning Sentinel Surveillance (PEWSS) has detected Influenza A H3, Influenza B, Adenovirus, Human Metapneumovirus, and Parainfluenza 3 for the week ending April 30, 2011.

Adenovirus, Human Metapneumovirus, and Parainfluenza 3 continue to be the predominating respiratory viruses circulating in Southern Nevada (Table 1). This is consistent with these pathogens' seasonal trends, as outbreaks have been common in late winter, spring, and early summer. Influenza was detected at very low levels.

Human Parainfluenza Virus (HPIV) -3 infections comprised 25% of viruses detected this surveillance period (Table 1). HPIV illnesses are prevalent among young children (Fig. 3). Serologic surveys have shown that 90% to 100% of children aged ≥ 5 years have antibodies to HPIV-3, and about 75% have antibodies to HPIV-1 and -2. The different HPIV serotypes differ in their clinical features and seasonality. HPIV-3 is often associated with bronchiolitis and pneumonia with peak activity occurring during the spring and early summer months, particularly during seasons when HPIV-1 and HPIV-2 are absent (Fig. 2).

The PEWSS reports are disseminated weekly to the medical community by email, fax, and online at <http://www.southernnevadahealthdistrict.org/stats-reports/influenza.php>. For questions about PEWSS, please contact the SNHD Office of Epidemiology at 702.759.1300.

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

PCR Testing Results	Week Ending										Project to Date	
	4/2		4/9		4/16		4/23		4/30		Since 5/26/10	
	n	%	n	%	n	%	n	%	n	%	n	%
All negative	9	43	7	35	11	44	3	50	8	50	360	44
Influenza A Positive*	1	5	1	5	0	0	0	0	1	6	117	14
Influenza A 2009 H1N1	0	0	0	0	0	0	0	0	0	0	64	8
Influenza A H1 Positive	0	0	0	0	0	0	0	0	0	0	0	0
Influenza A H3 Positive	1	5	1	5	0	0	0	0	1	6	53	7
Influenza B Positive	0	0	1	5	0	0	1	17	1	6	76	9
Adenovirus Positive	2	10	4	20	4	16	1	17	2	13	54	7
Human Metapneumovirus Positive	4	19	1	5	4	16	1	17	1	6	19	2
Parainfluenza 1 Positive	0	0	0	0	0	0	0	0	0	0	15	2
Parainfluenza 2 Positive	0	0	0	0	0	0	0	0	0	0	26	3
Parainfluenza 3 Positive	1	5	4	20	6	24	0	0	4	25	74	9
RSV Positive	5	24	4	20	2	8	1	17	0	0	99	12
Coinfections	1	5	2	10	2	8	1	17	1	6	29	4
Specimens Tested	21		20		25		6		16		811	

* Includes Influenza of all subtypes

Figure 1 - Weekly Number of Specimens Tested

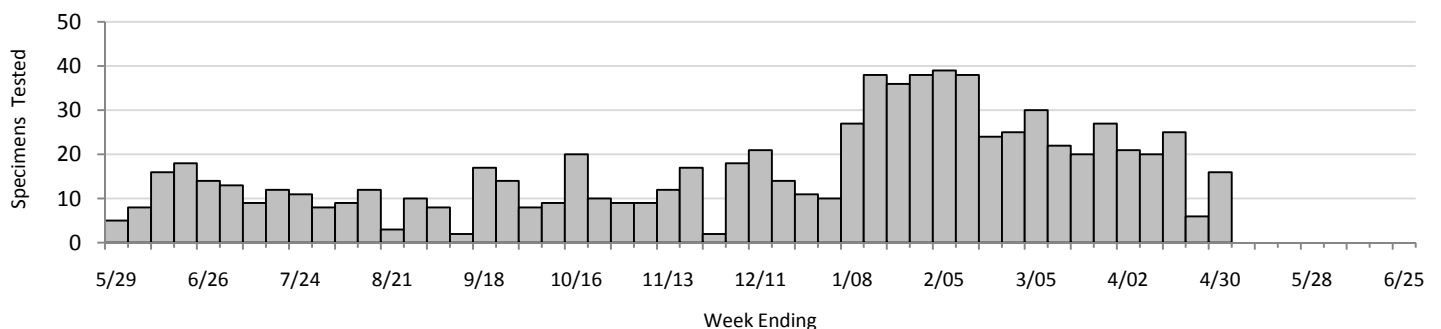


Figure 2 - Weekly Positivity Rates for Organisms Tested

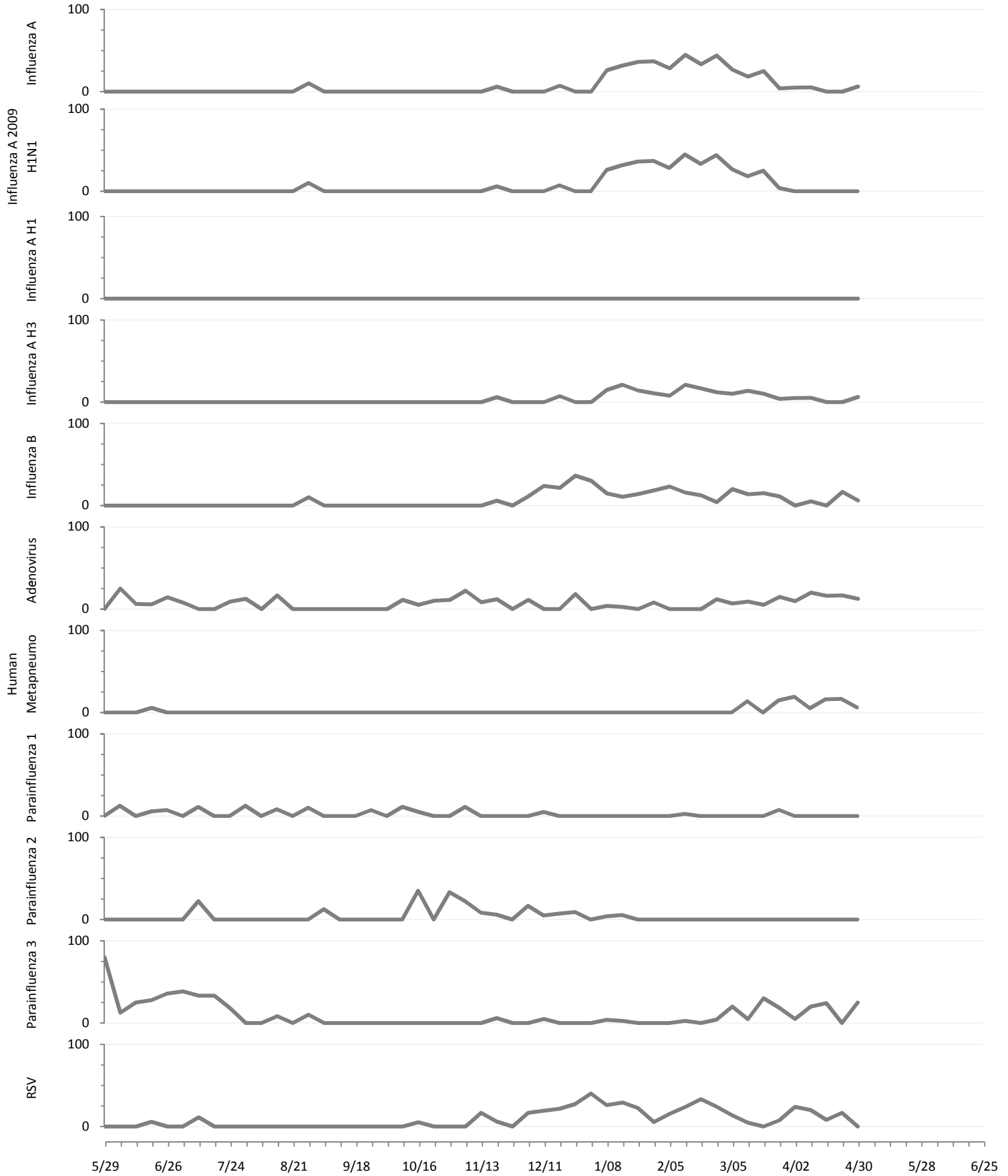


Figure 3. Age distributions of patients from whom specimens were tested and who tested positive

