

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: May 11, 2011

All Reporting Sites, Through the Week Ending May 07, 2011

General Update

The Southern Nevada Health District (SNHD) Pediatric Early Warning Sentinel Surveillance (PEWSS) has detected Adenovirus, Human Metapneumovirus, and Parainfluenza 3 for the week ending May 7, 2011.

Adenovirus, Human Metapneumovirus, and Parainfluenza 3 continue to be the predominating respiratory viruses circulating in Southern Nevada (Table 1). No Influenza was detected this surveillance period.

Adenoviruses most commonly cause respiratory illness; however, some serotypes may also cause other illnesses (ie. gastroenteritis, conjunctivitis, cystitis, and rash illness). Symptoms of respiratory illness range from common cold syndrome to pneumonia, croup, and bronchitis. All serotypes are transmitted by direct contact, fecal-oral transmission, and occasionally waterborne transmission. Adenovirus infection is usually acquired during childhood (Fig. 3), and infants and persons with compromised immune systems are more prone to severe complications. Outbreaks of Adenovirus-associated respiratory disease have been more common in the late winter, spring, and early summer (Fig. 2), but infections can occur throughout the year.

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	
	4/9		4/16		4/23		4/30		5/7		Since 5/26/10	
	n	%	n	%	n	%	n	%	n	%	n	%
All negative	7	35	11	44	3	50	8	50	18	75	378	45
Influenza A Positive*	1	5	0	0	0	0	1	6	0	0	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	0	0	0	0	1	6	0	0	53	6
Influenza B Positive	1	5	0	0	1	17	1	6	0	0	76	9
Adenovirus Positive	4	20	4	16	1	17	2	13	2	8	56	7
Human Metapneumovirus Positive	1	5	4	16	1	17	1	6	2	8	21	3
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	4	20	6	24	0	0	4	25	3	13	77	9
RSV Positive	4	20	2	8	1	17	0	0	0	0	99	12
Coinfections	2	10	2	8	1	17	1	6	1	4	30	4
Specimens Tested	20		25		6		16		24		835	

* Includes Influenza of all subtypes

Figure 1 - Weekly Number of Specimens Tested

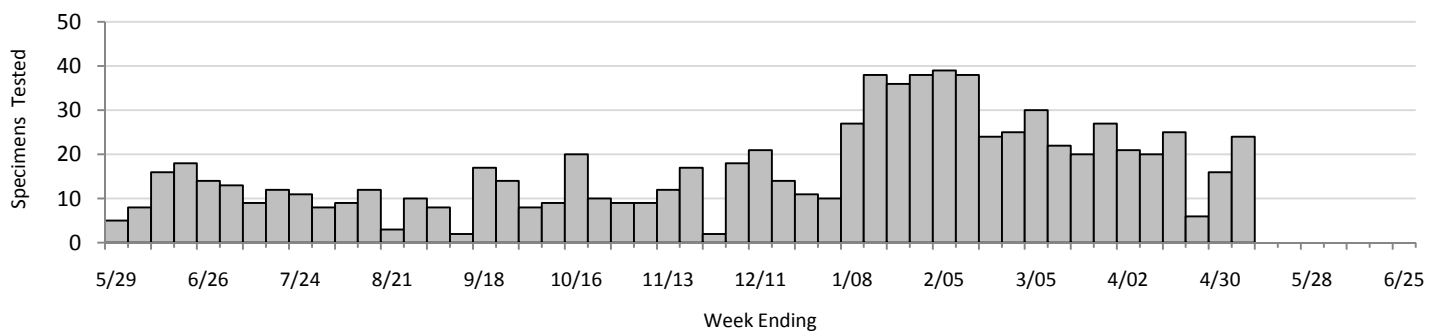


Figure 2 - Weekly Positivity Rates for Organisms Tested

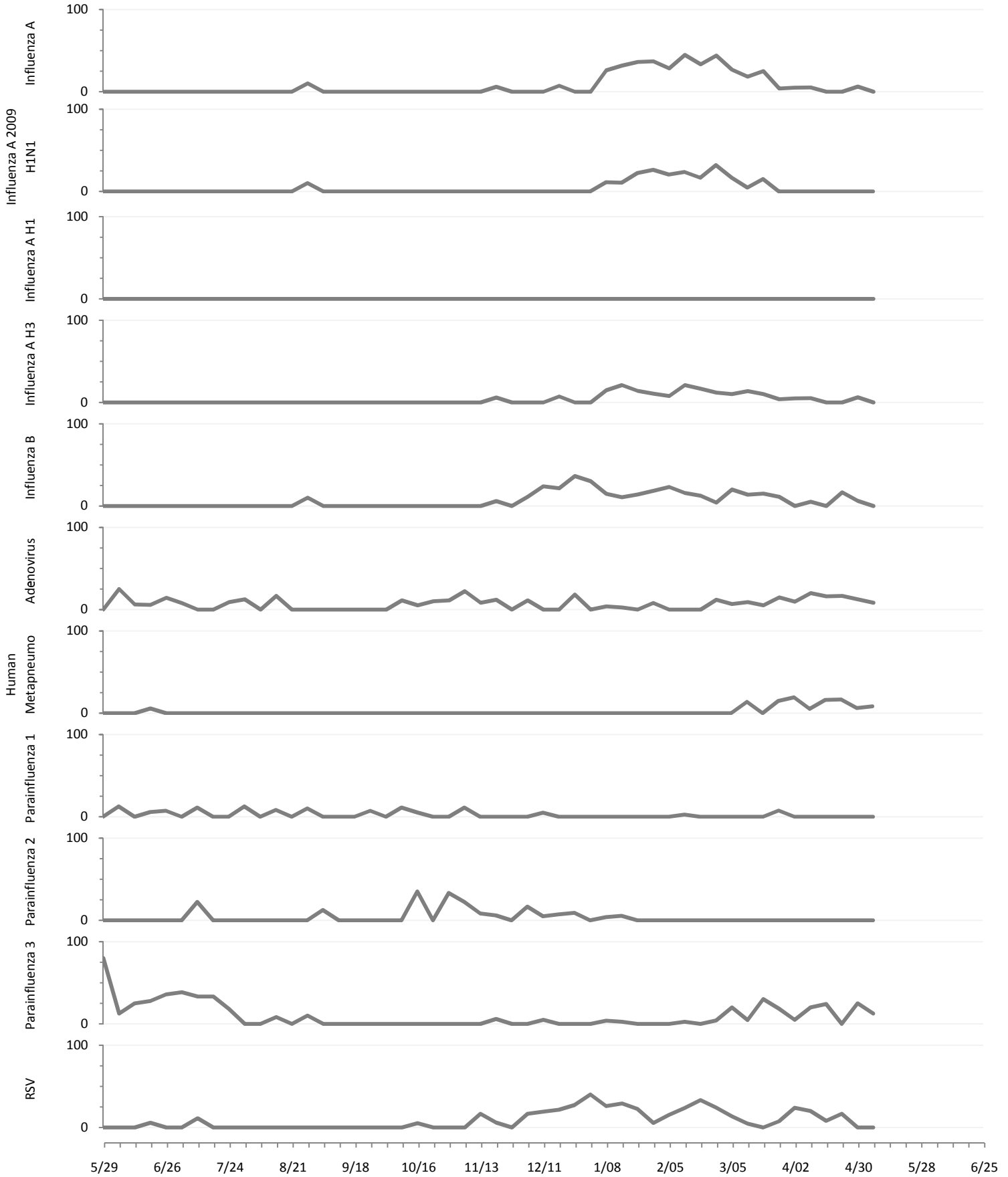


Figure 3. Age distributions of patients from whom specimens were tested and who tested positive

