

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: May 19, 2011

All Reporting Sites, Through the Week Ending May 14, 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 14, 2011.

Although detected at low levels, these three pathogens continue to be the predominating respiratory viruses currently circulating in Southern Nevada (Table 1; Fig. 2). Neither Influenza nor RSV was detected this surveillance period.

Human Metapneumovirus (hMPV) was first isolated in 2001 and circulates mainly during the winter in temperate regions. Clinical symptoms of hMPV infection resemble those caused by RSV, and symptoms range from mild upper respiratory tract infections to wheezing, bronchiolitis and pneumonia. Most children infected with hMPV are treated as outpatients (Fig. 3); however, studies have shown hMPV is an important cause of lower respiratory tract infections in hospitalized infants and young children.

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	
	4/16		4/23		4/30		5/7		5/14		Since 5/26/10	
	n	%	n	%	n	%	n	%	n	%	n	%
All negative	11	44	3	50	8	50	18	75	11	73	389	46
Influenza A Positive*	0	0	0	0	1	6	0	0	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	0	0	0	0	1	6	0	0	0	0	53	6
Influenza B Positive	0	0	1	17	1	6	0	0	0	0	76	9
Adenovirus Positive	4	16	1	17	2	13	2	8	2	13	58	7
Human Metapneumovirus Positive	4	16	1	17	1	6	2	8	1	7	22	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	6	24	0	0	4	25	3	13	1	7	78	9
RSV Positive	2	8	1	17	0	0	0	0	0	0	99	12
Coinfections	2	8	1	17	1	6	1	4	0	0	30	4
Specimens Tested	25		6		16		24		15		850	

* Includes Influenza of all subtypes

Figure 1 - Weekly Number of Specimens Tested

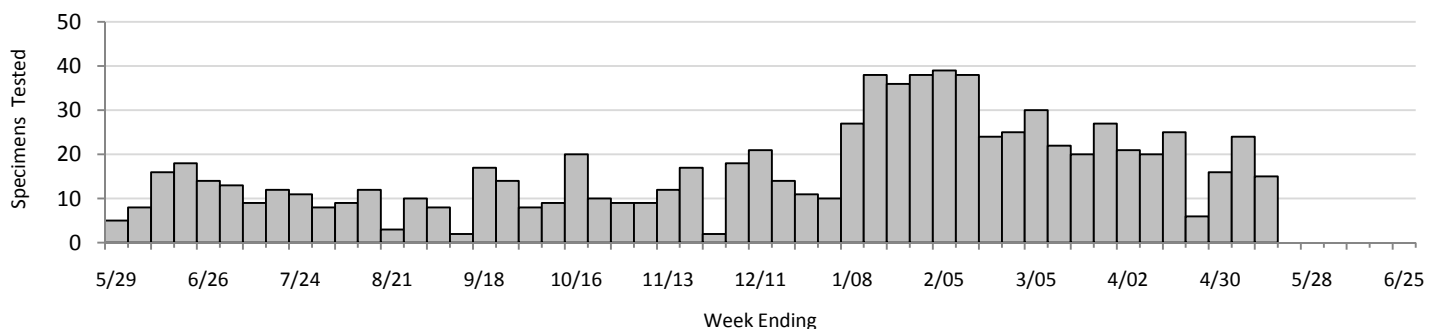


Figure 2 - Weekly Positivity Rates for Organisms Tested

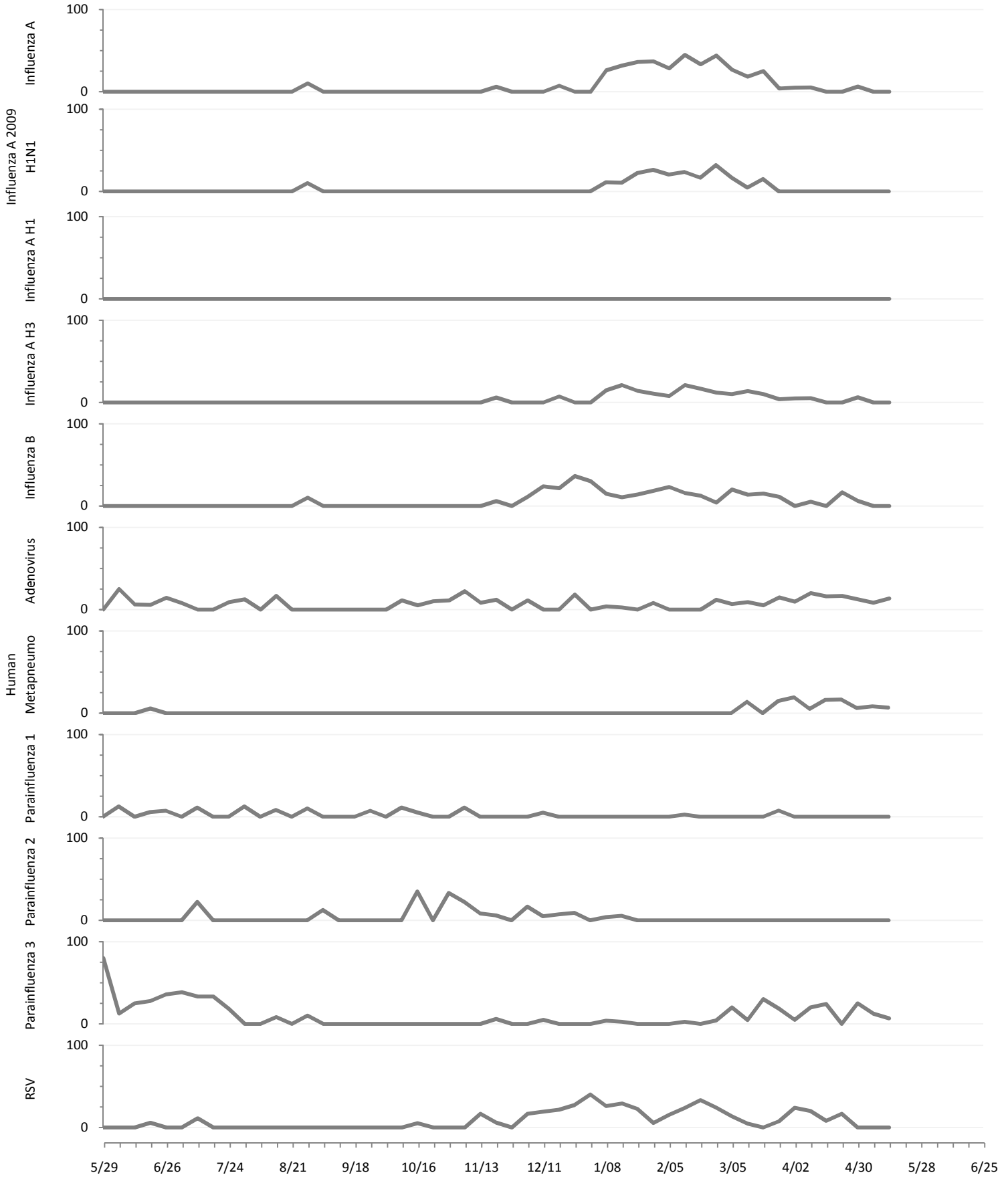


Figure 3. Age distributions of patients from whom specimens were tested and who tested positive

