

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: March 30, 2011

All Reporting Sites, Through the Week Ending March 26, 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, Parainfluenza 1, Parainfluenza 3, and RSV for the 2010-2011 Influenza Week 12 ending March 26, 2011.

Seven of the ten respiratory pathogens that are routinely monitored by PEWSS were detected this week (Table 1). This suggests that the levels of respiratory viruses circulating in Southern Nevada remain very high.

Human Metapneumovirus continued to be detected this month (Table 1). Infected persons may be asymptomatic and range of symptoms include severe bronchiolitis and pneumonia. Seroprevalence studies conducted in the Netherlands revealed that all children ≤ 5 years of age had evidence of past infections by this virus. Although Human Metapneumovirus infection is prevalent during infancy and early childhood (Fig. 3), recent studies also highlight its role in causing respiratory illness in adults, particularly among the elderly who reside in long term care facilities.

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	
	2/26		3/5		3/12		3/19		3/26		Since 5/26/10	
	n	%	n	%	n	%	n	%	n	%	n	%
All negative	6	24	6	20	8	36	8	40	7	26	322	45
Influenza A Positive*	11	44	8	27	4	18	5	25	1	4	114	16
Influenza A 2009 H1N1	8	32	5	17	1	5	3	15	0	0	64	9
Influenza A H1 Positive	0	0	0	0	0	0	0	0	0	0	0	0
Influenza A H3 Positive	3	12	3	10	3	14	2	10	1	4	50	7
Influenza B Positive	1	4	6	20	3	14	3	15	3	11	73	10
Adenovirus Positive	3	12	2	7	2	9	1	5	4	15	41	6
Human Metapneumovirus Positive	0	0	0	0	3	14	0	0	4	15	8	1
Parainfluenza 1 Positive	0	0	0	0	0	0	0	0	2	7	15	2
Parainfluenza 2 Positive	0	0	0	0	0	0	0	0	0	0	26	4
Parainfluenza 3 Positive	1	4	6	20	1	5	6	30	5	19	59	8
RSV Positive	6	24	4	13	1	5	0	0	2	7	87	12
Coinfections	3	12	2	7	0	0	3	15	1	4	22	3
Specimens Tested	25		30		22		20		27		723	

* Includes Influenza of all subtypes

Figure 1 - Weekly Number of Specimens Tested

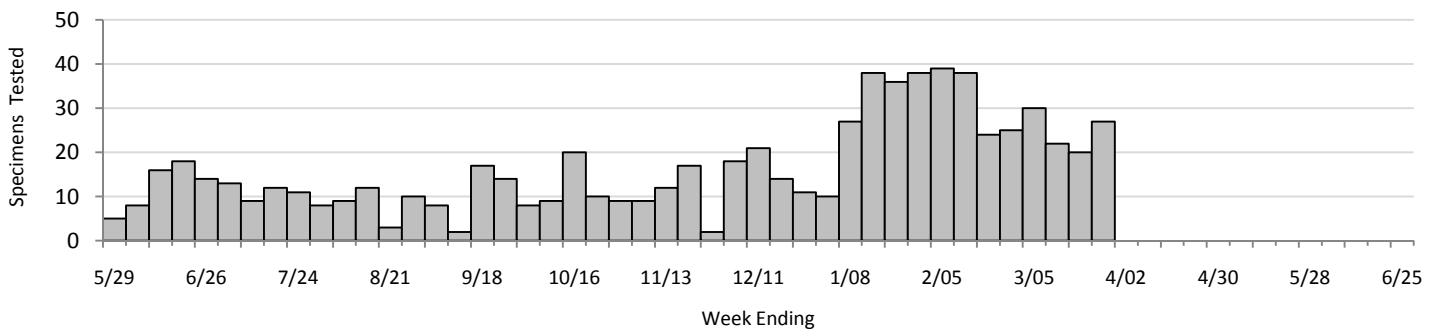


Figure 2 - Weekly Positivity Rates for Organisms Tested

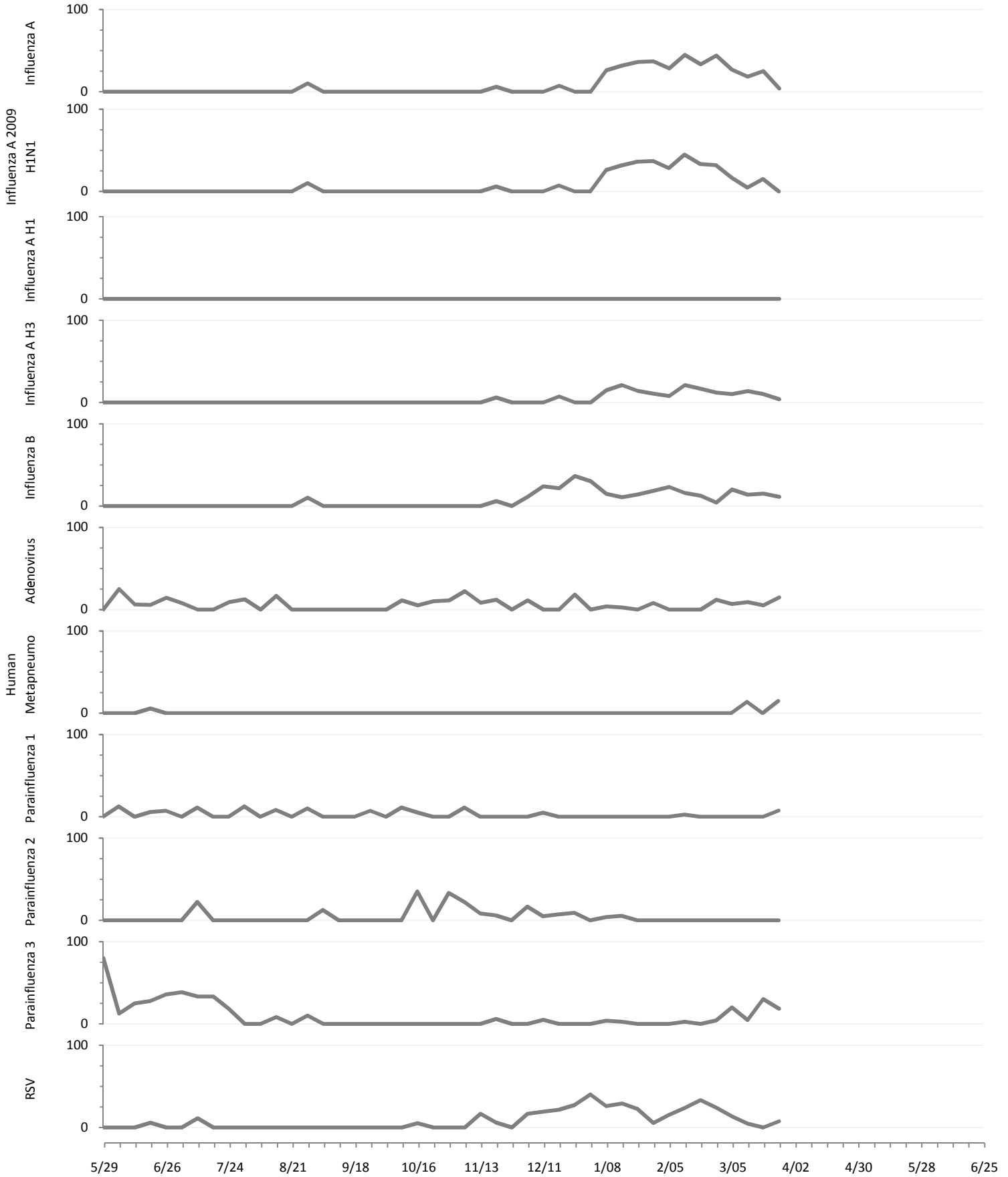


Figure 3. Age distributions of patients from whom specimens were tested and who tested positive

