

SNHD Pediatric Early Warning Sentinel Surveillance (PEWSS) Report: July 18, 2012

All Reporting Sites, Through the Week Ending July 14, 2012

The 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 the SNHD Office of Epidemiology at 702.759.1300.

General Update

During the week ending July 14, 2012, the following viruses were identified through PEWSS with a moderate volume of testing (Fig. 1): Influenza A, Adenovirus and Parainfluenza 3.

Over the past five weeks (Tables 1 & 2), the following were identified in the community through PEWSS: Adenovirus and Parainfluenza 3 have been circulating at low levels.

Influenza A, Influenza B, Human Metapneumovirus and Parainfluenza 2 have been sporadically identified.

Parainfluenza 1 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 |
|--------------------------------|-------------|-----|------|-----|------|-----|-----|-----|------|-----|---------------------------------|
| | 6/16 | | 6/23 | | 6/30 | | 7/7 | | 7/14 | | |
| | n | % | n | % | n | % | n | % | n | % | |
| All negative | 6 | 35% | 5 | 42% | 6 | 46% | 8 | 62% | 8 | 42% | |
| Influenza A Positive | 0 | 0% | 2 | 17% | 0 | 0% | 1 | 8% | 1 | 5% | Sporadic |
| Influenza B Positive | 5 | 29% | 0 | 0% | 5 | 38% | 0 | 0% | 0 | 0% | Sporadic |
| Adenovirus Positive | 2 | 12% | 1 | 8% | 2 | 15% | 2 | 15% | 5 | 26% | Low |
| Human Metapneumovirus Positive | 1 | 6% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | Sporadic |
| Parainfluenza 1 Positive | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | Not Detected |
| Parainfluenza 2 Positive | 1 | 6% | 1 | 8% | 0 | 0% | 0 | 0% | 0 | 0% | Sporadic |
| Parainfluenza 3 Positive | 2 | 12% | 3 | 25% | 1 | 8% | 2 | 15% | 7 | 37% | Low |
| RSV Positive | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | Not Detected |
| Co-infections | 0 | 0% | 0 | 0% | 1 | 8% | 0 | 0% | 2 | 11% | |
| Specimens Tested | 17 | - | 12 | - | 13 | - | 13 | - | 19 | - | Moderate Volume |

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

| Influenza A Typing (% of influenza A) | Week Ending | | | | | | | | | | 5-Week Totals | |
|---------------------------------------|-------------|---|------|------|------|---|-----|------|------|------|---------------|------|
| | 6/16 | | 6/23 | | 6/30 | | 7/7 | | 7/14 | | n | % |
| | n | % | n | % | n | % | n | % | n | % | | |
| Influenza A 2009 H1N1 | 0 | - | 0 | 0% | 0 | - | 0 | 0% | 0 | 0% | 0 | 0% |
| Influenza A H1 | 0 | - | 0 | 0% | 0 | - | 0 | 0% | 0 | 0% | 0 | 0% |
| Influenza A H3 | 0 | - | 2 | 100% | 0 | - | 1 | 100% | 1 | 100% | 4 | 100% |

Figure 1 - Weekly Number of Specimens Tested

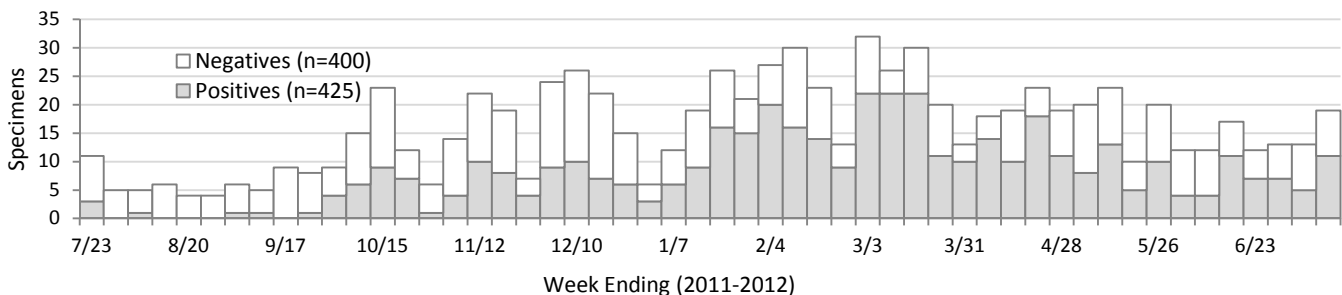
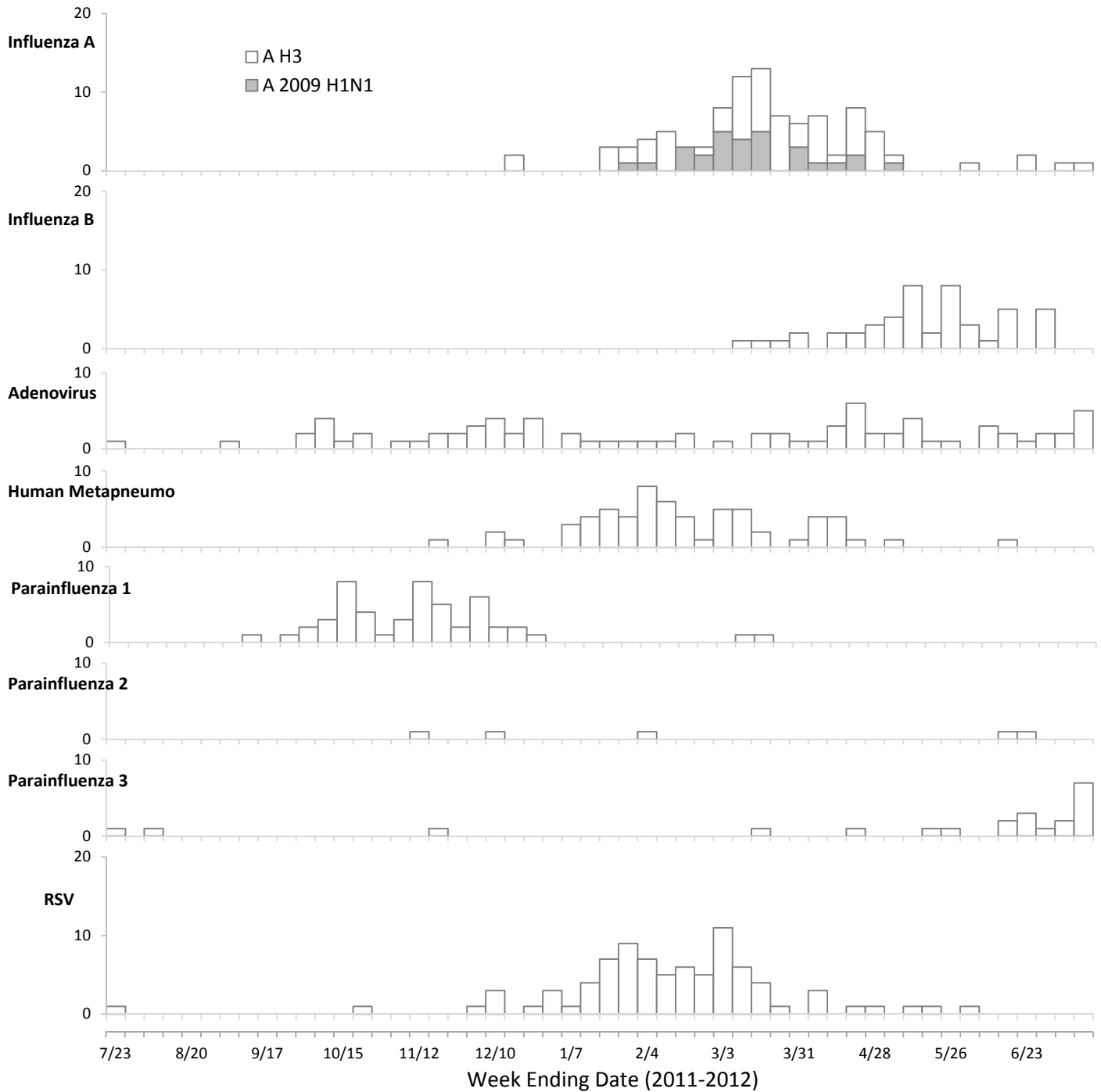


Figure 2. Weekly Positive Counts for Organisms Tested



Other News and Information

Human parainfluenza viruses (HPIVs) are common causes of respiratory tract disease in infants and young children. HPIV-1 is the leading cause of croup in children, whereas HPIV-2 is less frequently detected (Fig. 2). HPIV-3 is more often associated with bronchiolitis and pneumonia. HPIV-4 is detected infrequently.

HPIV-3 peak activity (Fig. 1) occurs during the spring and early summer months each year in temperate climates, but the virus can be isolated throughout the year, particularly during seasons when HPIV-1 and HPIV-2 are absent.

Reference: <http://www.cdc.gov/ncidod/dvrd/revb/respiratory/hpivfeat.htm>