NEW MEXICO INFLUENZA SURVEILLANCE UPDATE
2012 - 2013 Influenza Season

Epidemiology and Response Division, New Mexico Department of Health (NMDOH)

Influenza Activity in New Mexico for Week Ending April 6, 2013 (MMWR Week 14)

Influenza in the state was at low activity by several indicators:

- **Outpatient visits for influenza-like illness (ILI):** twenty-four of the 26 sentinel outpatient provider sites reported a total of 7,862 patient visits, of which 118 (1.5%) were identified as visits for ILI. The previous week ending March 30th also reported 1.5% influenza-like illness. See graph below displaying the comparison of statewide ILI activity to national ILI activity trends.

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1 Weekly ILI and lab data may change as additional reports are compiled.
2 Influenza-like Activity (ILI) is defined as Fever (≥ 100°F [37.8°C], oral or equivalent) AND cough and/or sore throat in the absence of a KNOWN cause other than influenza.
ILI activity by state health regions: by NMDOH regions within the state (refer to page 6 table footnote defining the regions by county), activity continues to drop to baseline levels in most regions with a range of 0.8% ILI (Metro Region) to 2.5% ILI (Southeast Region). See graph below for the current season's weekly ILI by region.

Sentinel outpatient reporting sites by Region:
- NW Region of state: San Juan Regional Medical Center, Farmington and Acoma-Canoncito- Laguna Indian Health Hospital, Acoma.
- NE Region: Raton Family Practice Associates, Raton; Taos-Picuris Indian Health Clinic, Taos; Pecos Valley Medical Center, Pecos; La Familia Medical Clinic, Santa Fe; Los Alamos Family Care Clinic, Los Alamos; Jicarilla Apache Indian Health Clinic, Dulce and Espanola Family Care Clinic, Espanola.
- Metro Region: Lovelace Downtown Medical Center and the University of New Mexico Student Health Clinic, both in Albuquerque and Albuquerque Health Partners Urgent Care, Rio Rancho.
- SE Region: Carlsbad Medical Center, Carlsbad; Lea Regional Medical Center, Hobbs; Eastern New Mexico Medical Center, Roswell; Ruidoso Medical Associates, Ruidoso and Roosevelt General Hospital in Portales.
- SW Region: Gila Regional Medical Center, Silver City; Hidalgo Medical Services Clinic, Lordsburg; Ben Archer Health Center, Deming; Ben Archer Health Center, Dona Ana; La Clinica de Familia, Sunland Park; Ben Archer Health Center, Columbus; Mescalero Apache Indian Health Hospital, Mescalero; Sierra Vista Hospital, Truth or Consequences and the New Mexico Mining and Technology Institute, Socorro.
- **Laboratory tests for influenza:** since early October, the Scientific Lab Division (SLD) has reported 422 positive samples for influenza by PCR and/or culture, of 910 samples tested (46%). One hundred and twenty-seven (30%) of the positive samples were influenza type B; 277 (66%) were influenza A/H3; 15 (~4%) were influenza A/H1 (former 2009 H1N1 pandemic strain) and 3 were influenza A (not subtyped). See the graph below for a representation of the circulating influenza types and subtypes, and the weekly percent of positive specimens, by week/date of collection.

![Graph showing Virologic Testing Results by Confirmed Type/Subtype, New Mexico, 2012-2013 Season](image)

- **Influenza-related hospitalizations:** the New Mexico Emerging Infections Program (EIP) conducts active, population-based surveillance for laboratory-confirmed influenza-related hospitalizations in seven New Mexico counties: Bernalillo, Chaves, Doña Ana, Grant, Luna, San Juan, and Santa Fe. Weekly de-identified data are sent to the Centers for Disease Control and Prevention. Cumulative rates by age group for NM influenza-related hospitalizations are displayed below. Rates by age group range from 6.7 per 100,000 in the 5-17 years age group to 95.6 per 100,000 in the 65+ years age group.
**Influenza-related deaths:** There have been 197 pneumonia and flu-related deaths since October 1, 2012. Of those, 19 were confirmed to have been caused by influenza. Three of the 19 deaths were children: a 2 year old female from McKinley county, a 15 year old male from Torrance county and a 3 year old male from San Juan county.
Geographic Spread of Influenza in the State: NMDOH reported the state influenza activity level as ‘Sporadic’ to the Centers for Disease Control and Prevention (CDC). See the table on the next page for full definitions of activity levels. Below is a map of the U.S displaying New Mexico activity in comparison to influenza activity in bordering states, regions and nationally. This map is produced by the CDC Influenza Division.
### TABLE OF INFLUENZA ACTIVITY LEVELS

<table>
<thead>
<tr>
<th>Activity Level</th>
<th>ILI activity*/Outbreaks</th>
<th>Laboratory data</th>
</tr>
</thead>
<tbody>
<tr>
<td>No activity</td>
<td>Low</td>
<td>No lab confirmed cases†</td>
</tr>
<tr>
<td>Sporadic</td>
<td>Not increased</td>
<td>Isolated lab-confirmed cases</td>
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<tr>
<td></td>
<td>And</td>
<td>Lab confirmed outbreak in one institution‡</td>
</tr>
<tr>
<td>Local</td>
<td>Increased ILI in 1 region**; ILI activity in other regions is not increased</td>
<td>Recent (within the past 3 weeks) lab evidence of influenza in region with increased ILI</td>
</tr>
<tr>
<td></td>
<td>And</td>
<td>Recent (within the past 3 weeks) lab evidence of influenza in region with the outbreaks; virus activity is no greater than sporadic in other regions</td>
</tr>
<tr>
<td></td>
<td>2 or more institutional outbreaks (ILI or lab confirmed) in 1 region; ILI activity in other regions is not increased</td>
<td>Recent (within the past 3 weeks) lab confirmed influenza in the affected regions</td>
</tr>
<tr>
<td>Regional</td>
<td>Increased ILI in less than half of the regions (2 or less)</td>
<td>Recent (within the past 3 weeks) lab confirmed influenza in the affected regions</td>
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<tr>
<td></td>
<td>And</td>
<td>Recent (within the past 3 weeks) lab confirmed influenza in the affected regions</td>
</tr>
<tr>
<td>Widespread</td>
<td>Increased ILI and/or institutional outbreaks (ILI or lab confirmed) in at least 3 of the 5 regions</td>
<td>Recent (within the past 3 weeks) lab confirmed influenza in the state.</td>
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</tbody>
</table>

*Influenza-like illness: Fever ($\geq 100^\circ\text{F} [37.8^\circ\text{C}], oral or equivalent) and cough and/or sore throat (in the absence of a known cause other than influenza)

† Lab confirmed case = case confirmed by rapid diagnostic test, antigen detection, culture, or PCR. Care should be given when relying on results of point of care rapid diagnostic test kits during times when influenza is not circulating widely. The sensitivity and specificity of these tests vary and the predicative value positive may be low outside the time of peak influenza activity. Therefore, at the start of the season, NMDOH uses lab confirmation by PCR or culture to declare the presence of lab-confirmed influenza in the state. Positivity by other lab methods is recognized and tracked as another influenza activity indicator as the season progresses.

‡ Institution includes nursing home, hospital, prison, school, etc.

**Region: population under surveillance in a defined geographical subdivision of a state. A region could be comprised of 1 or more counties and would be based on each state’s specific circumstances. In New Mexico, the NMDOH regions are: Northwest Region—San Juan, McKinley, and Cibola counties; Northeast Region—Los Alamos, Rio Arriba, Taos, Colfax, Union, Mora, Harding, Santa Fe, San Miguel and Guadalupe counties; Metro Region — Bernalillo , Sandoval, Torrance and Valencia counties; Southeast Region — Quay, Curry, DeBaca, Lincoln, Roosevelt, Chaves, Eddy and Lea counties, and Southwest Region — Socorro, Catron, Grant, Sierra, Otero, Dona Ana, Luna and Hidalgo counties.