



Epidemiology and Response Division

NEW MEXICO INFLUENZA SURVEILLANCE UPDATE 2010-2011 Influenza Season

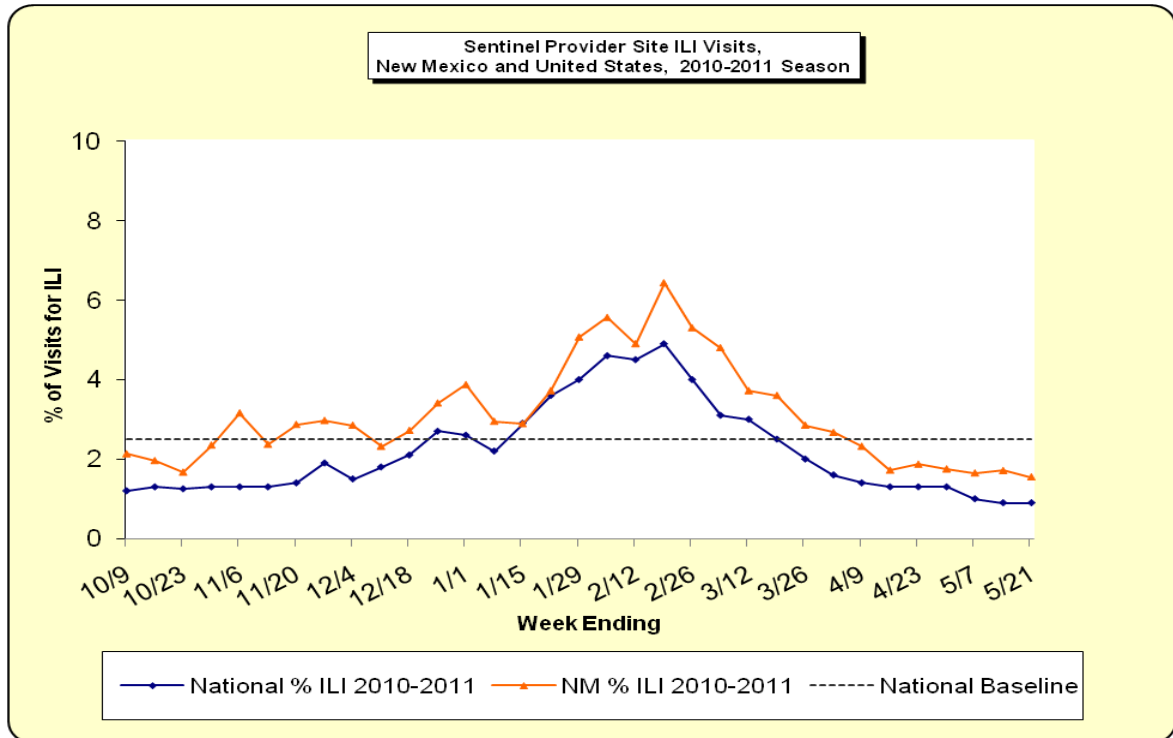
Epidemiology and Response Division, New Mexico Department of Health (NMDOH)

Influenza Activity in New Mexico for **Week Ending May 21, 2011.**

This is the last report of the 2010-2011 season.

Influenza in the state was at low to no activity by several indicators¹:

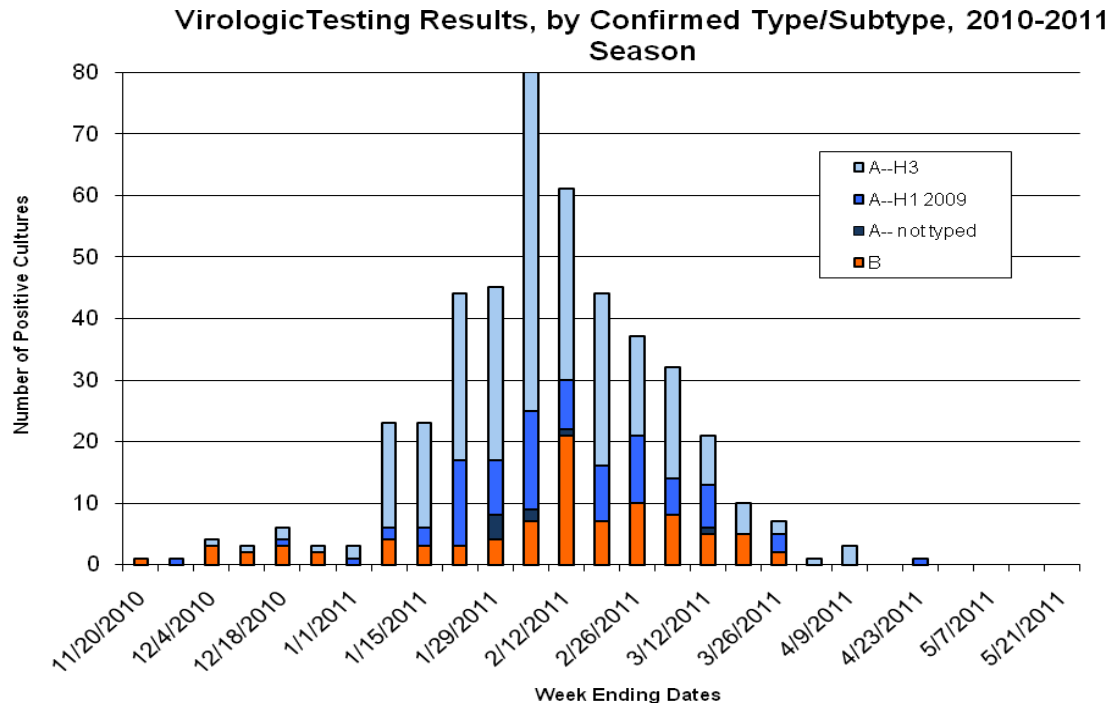
- **Sentinel Surveillance:** outpatient visits for influenza-like illness (ILI)—with twenty-four sentinel sites reporting, there was a total of 7,779 patient visits, of which 121 (1.6%) were identified as visits for ILI². The previous week ending May 14th reported 1.7% influenza-like illness visits. See graph below with comparison to national ILI activity percentage.



¹ Weekly ILI and lab data may change as additional reports are compiled.

² Influenza-like Activity (ILI) is defined as Fever ($\geq 100^{\circ}\text{F}$ [37.8°C], oral or equivalent) AND cough and/or sore throat in absence of a KNOWN cause other than influenza.

- Laboratory/Virologic Surveillance:** The Scientific Lab Division (SLD) has reported up to week ending 5/21/11, four hundred and fifty-three (37%) respiratory samples, of 1,223 samples submitted since 10/1/2010, that were positive for influenza by polymerase chain reaction (PCR) and/or culture. Influenza A/H3 predominated in the season comprising 57% of the positive samples. See the graph below for a representation of the circulating influenza types and subtypes by week of collection date.



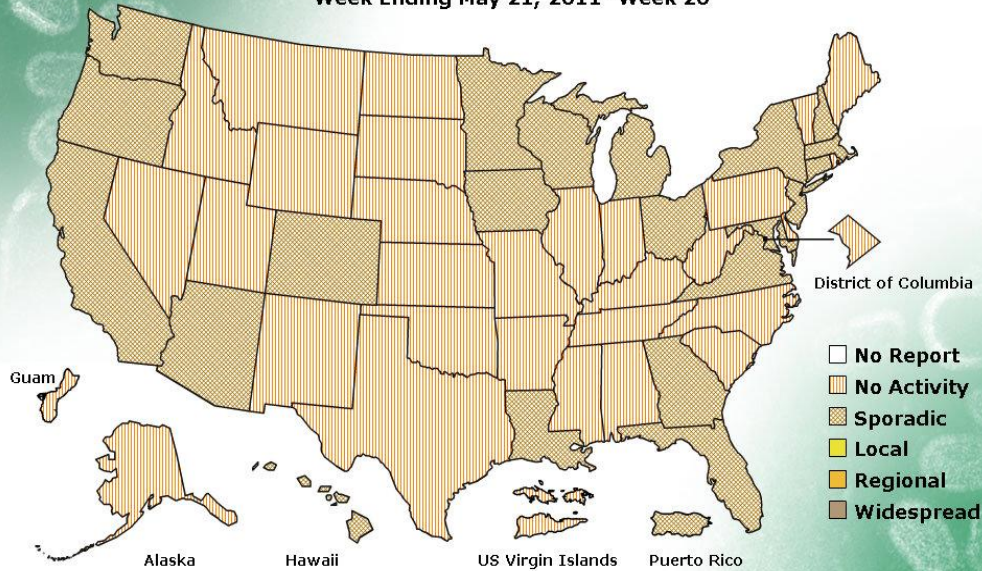
- Mortality Surveillance:** for the season October to May, there was one report of a pediatric death (during week ending 1/22/11) caused by lab-confirmed influenza in New Mexico. NMDOH also received reports of twenty-eight adult deaths in New Mexico residents, associated with *lab-confirmed influenza*, which occurred from mid-January to late March of this season. The influenza-associated deaths occurred in Eddy, Dona Ana, Bernalillo, Otero, Cibola, Valencia, Chavez, San Juan, Taos, Sandoval, Luna, Sierra, Los Alamos and one death occurred out of state in Texas. Age of the decedents ranged from 8 years old to 94 years old. 46% of cases were female.
- National Reporting:** NMDOH reported the state influenza activity as “**No Activity**” to the Centers for Disease Control and Prevention (CDC). See the table on page 3 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, related regions and nationally.

FLUVIEW



A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending May 21, 2011- Week 20



*This map indicates geographic spread and does not measure the severity of influenza activity.

Influenza Vaccine Selection for the 2011-2012 Season:

The United States Food and Drug Administration (FDA) has chosen the three influenza (flu) viruses for inclusion in the 2011-2012 seasonal flu vaccine based on recommendations from the World Health Organization (WHO). The influenza (flu) viruses selected for inclusion in the seasonal flu vaccines are

- an A/California/7/2009 (H1N1)-like virus;
- an A/Perth/16/2009 (H3N2)-like virus; and
- a B/Brisbane/60/2008-like virus.

These are the same viruses that were selected for the Northern Hemisphere for the 2010-2011 influenza vaccine. For more information on the selection process, refer to:

<http://www.cdc.gov/flu/about/qa/vaccine-selection.htm?source=govdelivery>

This information is collected by the Infectious Disease Epidemiology Bureau, Epidemiology Response Division of NMDOH.

For questions, please call 505-827-0006. For more information on influenza go to the NMDOH web page: <http://www.health.state.nm.us/flu/> or the CDC web page:

<http://www.cdc.gov/ncidod/diseases/flu/fluvirus.htm>

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

*Influenza-like illness: Fever ($\geq 100^{\circ}\text{F}$ [37.8°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 predictive 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: Region 1—San Juan, McKinley, Sandoval, Cibola and Valencia counties; Region 2—Rio Arriba, Taos, Colfax, Union, Mora, Santa Fe, San Miguel, Los Alamos and Guadalupe counties; Region 3 — Bernalillo county; Region 4 — Harding, Quay, Curry, DeBaca, Roosevelt, Chaves, Eddy and Lea counties, and Region 5 – Torrance, Lincoln, Socorro, Catron, Grant, Sierra, Otero, Dona Ana, Luna and Hidalgo counties.