



Director's Update Brief

Tuesday

09 JUN 2009 1100 EDT Day 52

The Week of Epidemiology, Budget, and Communications Analyses in Support of Vaccination Campaign Planning



Situation Awareness 09 JUN 2009



- Severe Weather
 - Missouri, Nebraska, Iowa, Kansas, Illinois

Source: FEMA National Sitrep for 9 June, 2009

- Other Public Health Events
 - Earthquake: Adak, AK (8 June 09); No reports of damage or injuries; No tsunami generated

Source: FEMA National Sitrep for 9 June, 2009

- International
 - Vibrio cholerae (Cholera) Zimbabwe: 98,441 cases; 4,277
 deaths; overall CFP=4.3% (as of 2 June 09)
 - Influenza H5N1 Humans Egypt: 79th case NAMRU-3
 confirmed

Source: GDD Ops Center Daily Report 8 June 2009



Key Events Novel Influenza A (H1N1) 09 JUN 2009



- Novel Influenza A (H1N1) Declarations
 - WHO: Pandemic Phase 5 (29 Apr 1600 EDT)
 - USG: Public Health Emergency declared (26 Apr 2009)
 - HHS: Downgraded to Phase 1 Awareness (9 May 2009)
- International Cases: 25,288 confirmed cases in 73 countries*
- US Cases: As of 05 JUN 2009 (all states reporting cases)

US TOTALS	Cases	Hosp	Deaths
CASES	13,217	1,027	27
SLTTs AFFECTED	52	41	10



Epidemiology/Surveillance Novel Influenza A (H1N1) Case Counts by State As of 05 JUN 2009 0100 EDT (n=13,217)



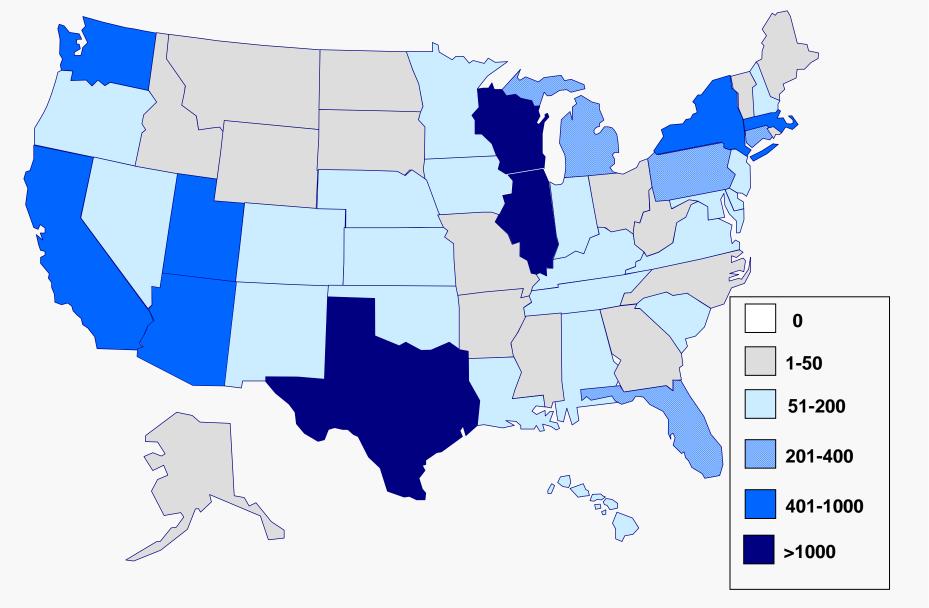
- Secondary attack rate in household contacts:
 - ARI—19%
 - ILI—12%
- Generation time:
 - ARI—2.0-3.1 days
 - ILI—2.4-3.1 days
- *Hospitalizations*: 1,027 (7.8%) as of 05 JUN 2009
- Deaths: 27 (0.20%) in 10 states as of 05 JUN 2009
- Change from daily to weekly reporting as of 03 JUN 2009
 - next update 12 JUN 2009

^{*}indicates sites reporting aggregate data to CDC



Epidemiology/Surveillance Novel Influenza A (H1N1) Cases Reported to CDC by State As of 05 JUN 2009 0100 EDT (n=13,217)

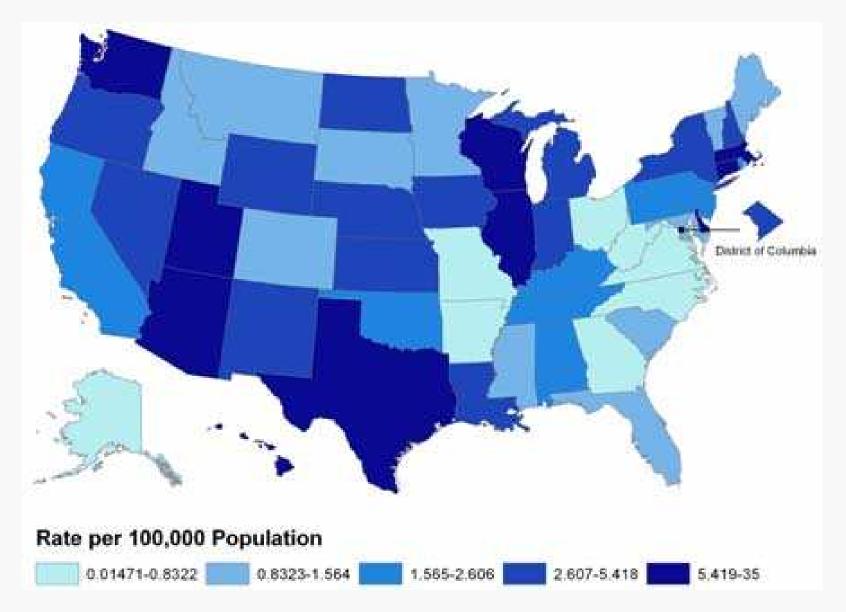






Epidemiology/Surveillance Rate of Novel Influenza A (H1N1) Reported to CDC per 100,000 Population As of 05 JUN 2009 0100 EDT (n=13,217)

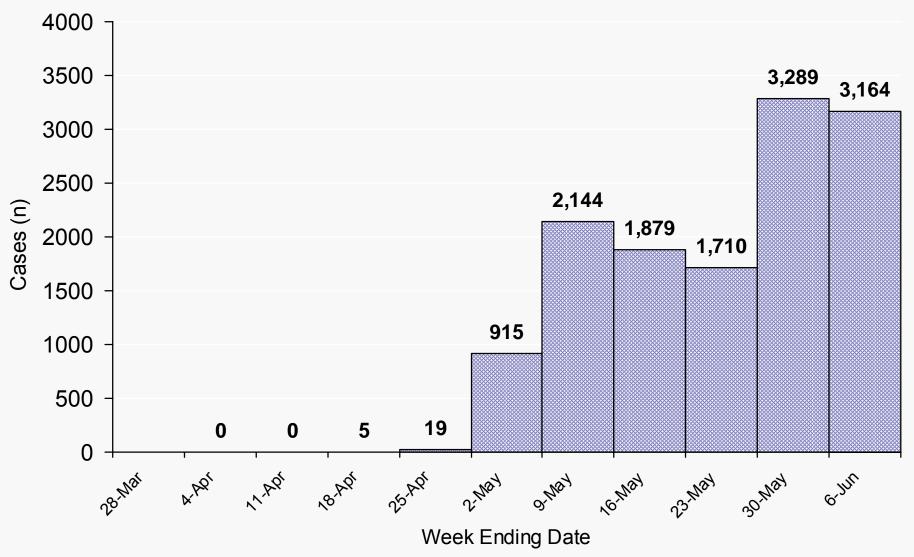






Epidemiology/Surveillance Novel Influenza A (H1N1) Cases by Report Date As of 05 JUN 2009 0100 EDT (n=13,125*) (Weekly**)





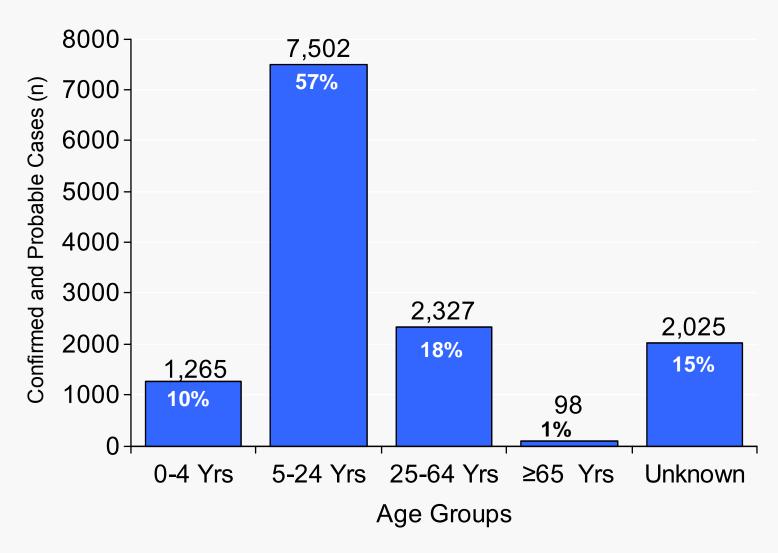
^{*}No Date available for 92 cases.

^{**}Data for week ending 6 June 2009 include reports submitted between 8:00 AM EDT 5/31/2009 and 1:00 AM 6/3/2009.217



Epidemiology/Surveillance Novel Influenza A (H1N1) Cases by Age As of 05 JUN 2009 0100 EDT (n=13,217)



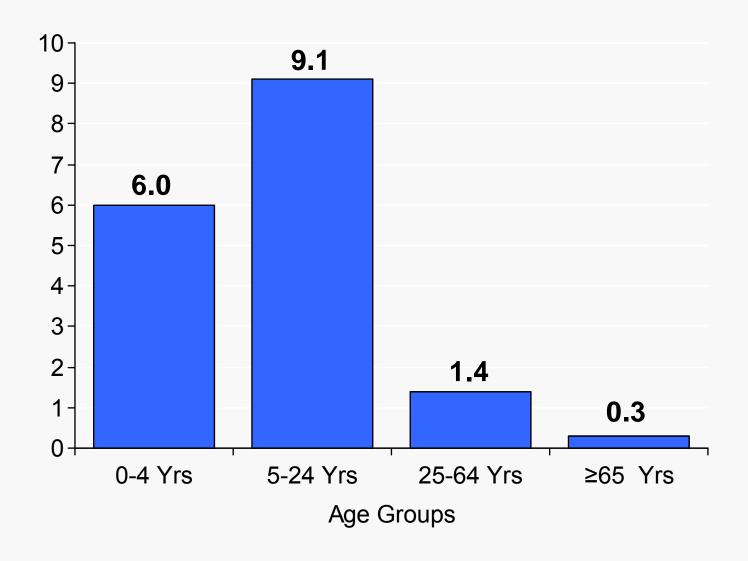


Percentages represent proportion of total cases



Epidemiology/Surveillance Novel Influenza A (H1N1) Cases per 100,000 Population by Age As of 05 JUN 2009 0100 EDT (n=13,217)

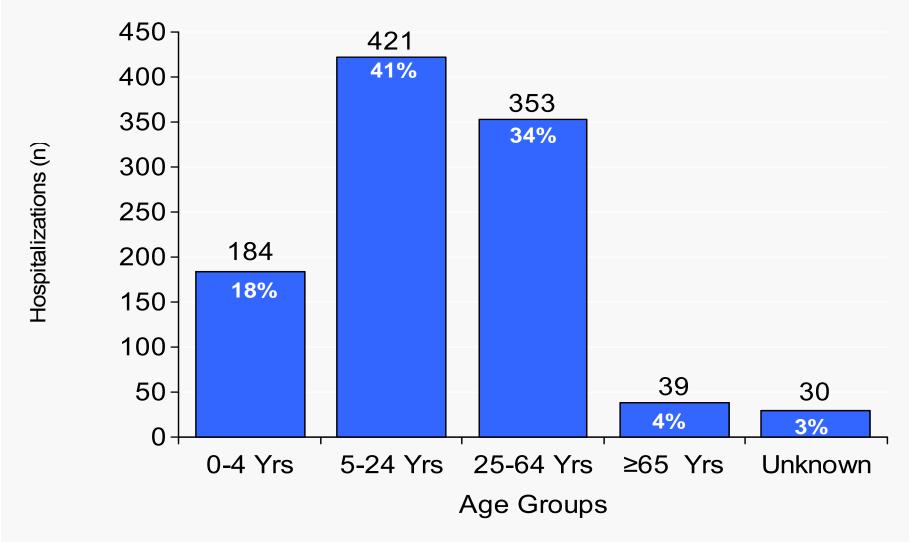






Epidemiology/Surveillance Novel Influenza A (H1N1) Hospitalizations by Age As of 05 JUN 2009 0100 EDT (n=1,027)



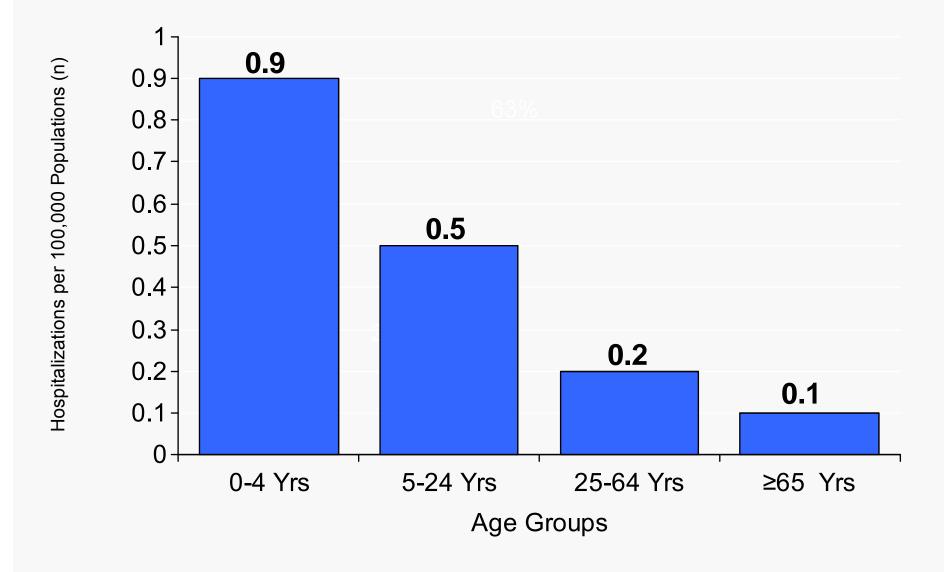


Percentages represent proportion of total hospitalizations



Epidemiology/Surveillance Novel Influenza A (H1N1) Hospitalizations / 100,000 Population by Age Group As of 05 JUN 2009 0100 EDT (n=1,027)

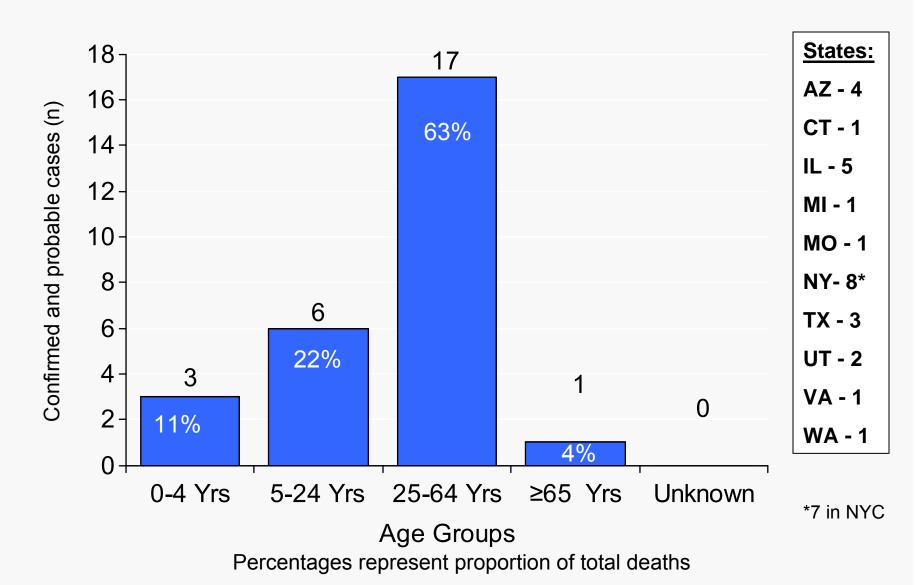






Epidemiology/Surveillance Novel Influenza A (H1N1) Deaths by Age Group As of 05 JUN 2009 0100 EDT (n=27)







Epidemiology/Surveillance Novel Influenza A (H1N1) Hospitalizations Reported to CDC by States As of 05 JUN 2009 0100 EDT



- 1,027 / 13,217 (7.8%) hospitalizations
- Detailed clinical data available on 201 / 1,027 (19.6%) hospitalized patients
 - Median time from onset of illness to hospital admission
 - 3 days (range 1-14 days)
 - Median length of stay
 - 3 days (range 1-53)
 - Median days from admission to discharge or death
 - 7 (range 2-65)



Epidemiology/Surveillance Novel Influenza A (H1N1) Hospitalizations Reported to CDC Clinical Characteristics As of 05 JUN 2009 0100 EDT (n=201)



Symptom	Percent
Fever*	92%
Cough	84%
Shortness of breath	54%
Fatigue/weakness	42%
Chills	35%
Myalgias	33%
Rhinorrhea	33%
Sore throat	30%
Headache	29%
Vomiting	28%
Wheezing	23%
Diarrhea	21%



Epidemiology/Surveillance Novel Influenza A (H1N1) Hospitalizations Reported to CDC Underlying Conditions As of 05 JUN 2009 0100 EDT (n=201)



Condition	Percent
Any underlying condition	71%
Asthma or COPD	32%
Diabetes	16%
Immunocompromised	12%
Chronic cardiovascular disease**	11%
Current Smoker	10%
Chronic Renal Disease	8%
Neurocognitive disorder	8%
Neuromuscular disorder	7%
Pregnant	7%
Seizure disorder	6%
Cancer	3%



Epidemiology/Surveillance Novel Influenza A (H1N1) Hospitalizations Reported to CDC Clinical Information As of 05 JUN 2009 0100 EDT (n=201)



Characteristic	(%)
Chest radiograph with pneumonia at admission	41%
ARDS	9%
Dx with sepsis at admission	9%
Mechanical ventilation	16%
Treated with antivirals	72%
Treated with antibiotics	80%
Treated with steroids	36%
Admitted to ICU	24%
Died	8%
Recovered	86%



Epidemiology/Surveillance Novel Influenza A (H1N1) - 05 JUN 2009 Surveillance Systems



WHO/NREVSS Collaborating Laboratories

- Seasonal influenza A (H1), A (H3), and B viruses co-circulated with novel influenza A (H1N1) viruses
- ILINet (week ending 30 May)
 - % of ILI outpatient visits ↓ the national baseline
 - Overall, the percentage of outpatient visits for ILI is decreasing
- 122 Cities Mortality Reporting System (graph)
 - % pneumonia and influenza deaths not exceeding the epidemic threshold
 - % deaths due to pneumonia and influenza remains stable
- Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists – state reporting:

Widespread: 4 states Regional: 11 states

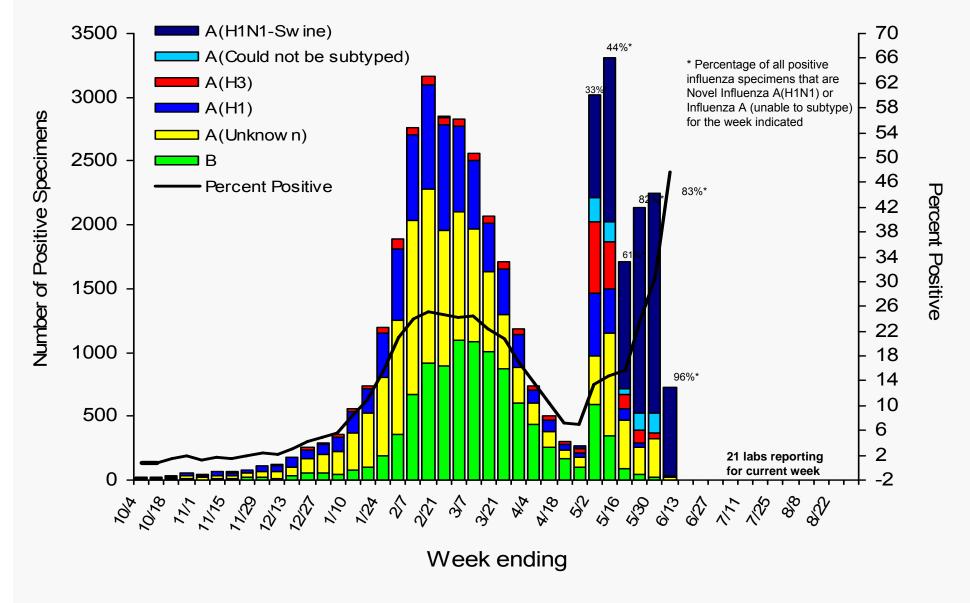
Local: 13 states + DC Sporadic: 21 states

None: 1 state



Epidemiology/Surveillance Novel Influenza A (H1N1) - U.S. WHO/NREVSS Collaborating Laboratories Summary, 2008-09



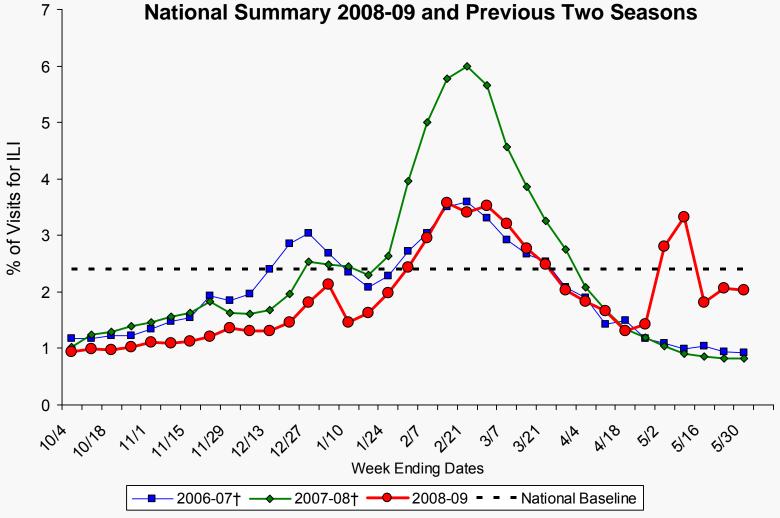




Epidemiology/Surveillance Novel Influenza A (H1N1) – 05 JUN 2009



Percentage of Visits for Influenza-like Illness (ILI) Reported by the US Outpatient Influenza-like Illness Surveillance Network (ILINet),



NOTE: Week ending dates vary by influenza season

† There was no week 53 during the 2006-07 and 2007-08 seasons, therefore the week 53 data point for those seasons is an average of weeks 52 and 1.

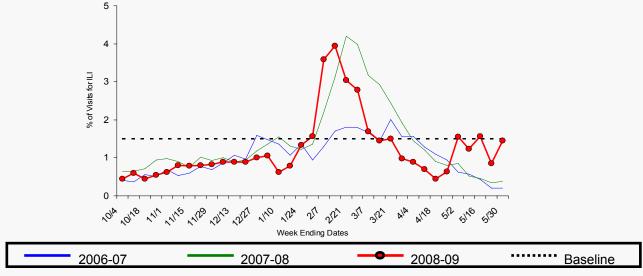
^{*}Preliminary ILI data for week 21, as of June 5, 2009 (n=934 weekly ILI reports received from 48 states)



Epidemiology/Surveillance Novel Influenza A (H1N1) – 05 JUN 2009 Current Influenza Surveillance – ILINet Regions I-III

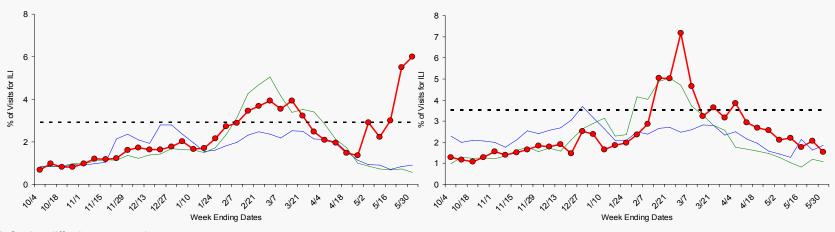


Region I - CT, ME, MA, NH, RI, VT



Region II - NJ, NY

Region III - DE, DC, MD, PA, VA, WV



NOTE: Scales differ between regions

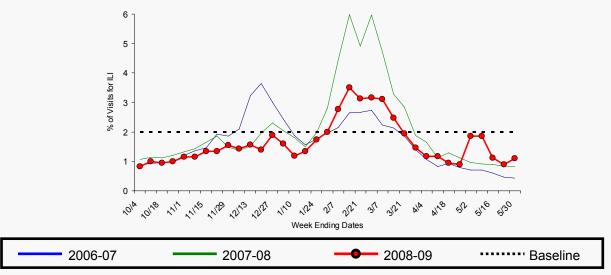
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Epidemiology/Surveillance Novel Influenza A (H1N1) – 05 JUN 2009 Current Influenza Surveillance – ILINet Regions IV-VI

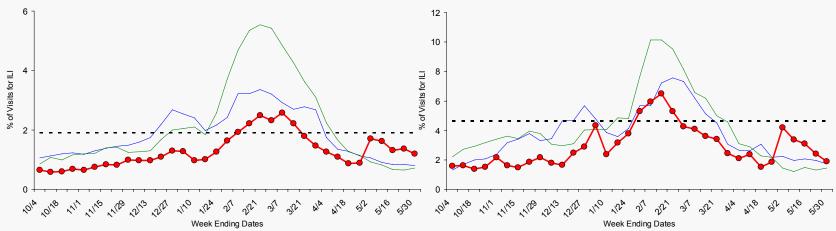


Region IV - AL, FL, GA, KY, MS, NC, SC, TN



Region V - IL, IN, MI, MN, OH, WI

Region VI - AR, LA, NM, OK, TX



NOTE: Scales differ between regions

NOTE: There was no week 53 during the 2006-07 and 2007-08 seasons, therefore the week 53 data point for those seasons is an average of weeks 52 and 1.

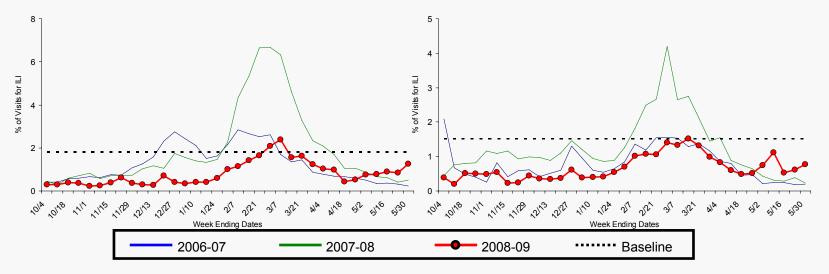


Epidemiology/Surveillance Novel Influenza A (H1N1) – 05 JUN 2009 Current Influenza Surveillance – ILINet Regions VII-X



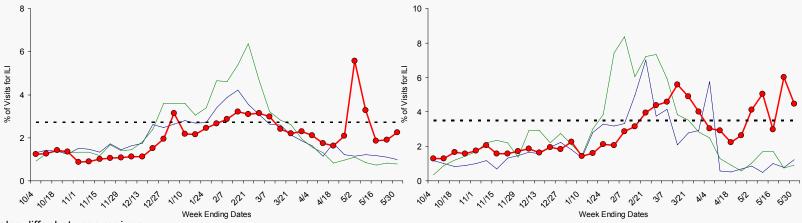
Region VII - IA, KS, MO, NE

Region VIII - CO, MT, ND, SD, UT, WY



Region IX - AZ, CA, HI, NV

Region X - AK, ID, OR, WA



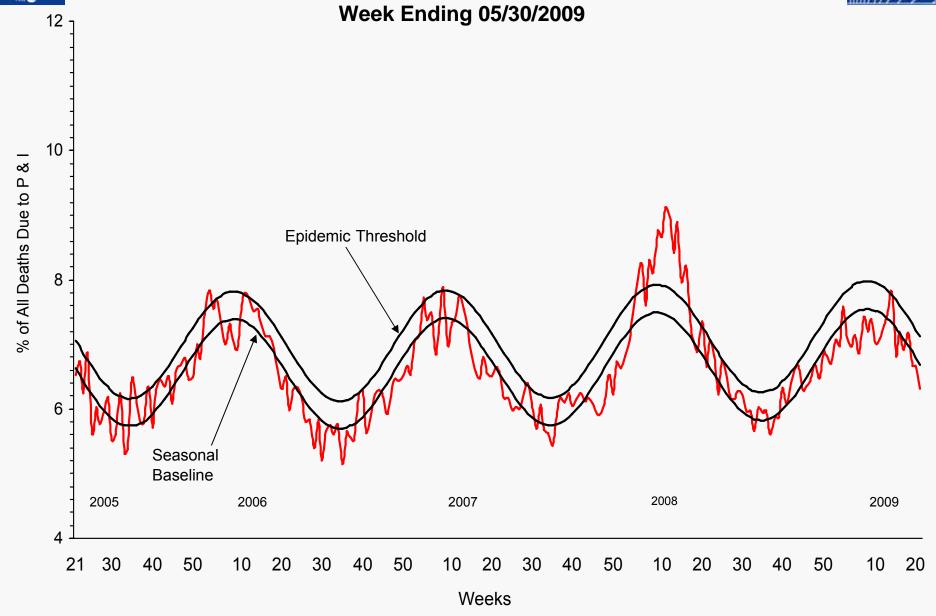
NOTE: Scales differ between regions

NOTE: There was no week 53 during the 2006-07 and 2007-08 seasons, therefore the week 53 data point for those seasons is an average of weeks 52 and 1.



Epidemiology/Surveillance Novel Influenza A (H1N1) Pneumonia and Influenza Mortality for 122 U.S. Cities Week Ending 05/30/2009

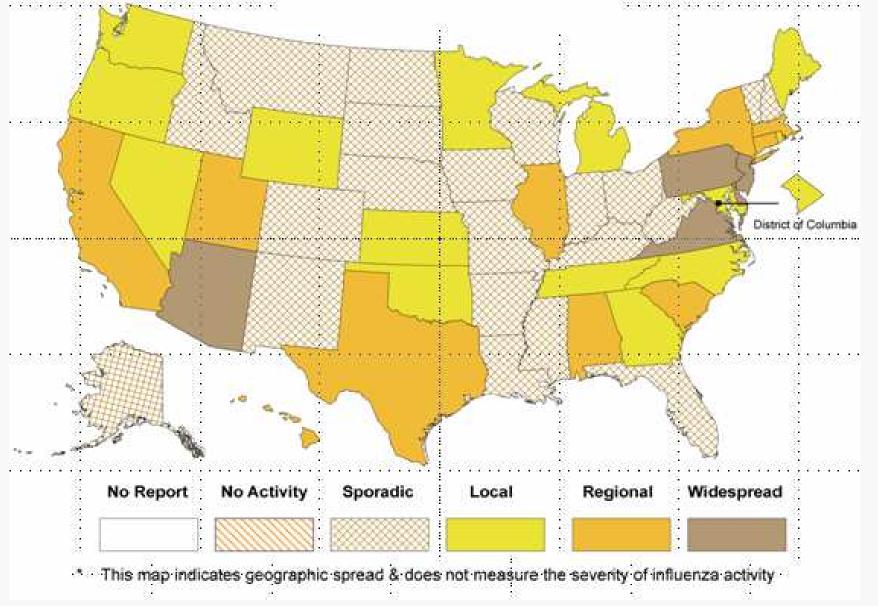






Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists Week ending May 30, 2009 – Week 21

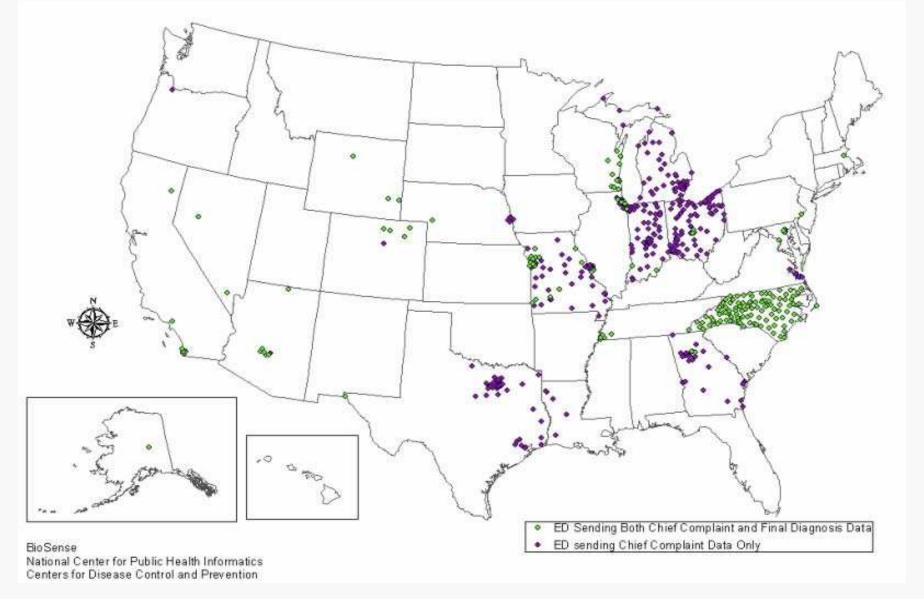






Epidemiology/Surveillance - BioSense Location of BioSense Emergency Departments (ED) Reporting Chief Complaint and Final Diagnosis Data.

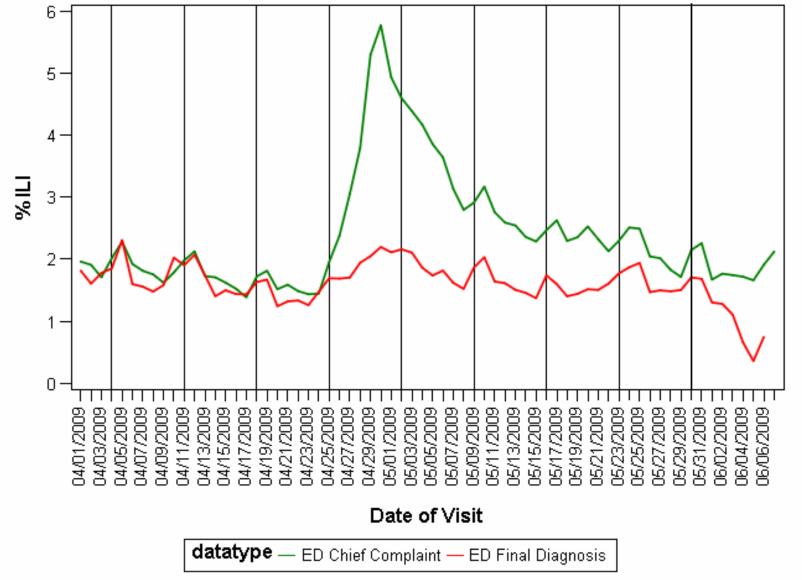






Epidemiology/Surveillance - BioSense Percentage of Visits for ILI Reported by Emergency Departments 04/01/2009 to 06/03/2009: U.S.







International Novel Influenza A (H1N1) 09 JUN 2009 New Countries with Confirmed Cases & Other Major Developments



New countries with confirmed cases (last 4 days):

Caribbean: Cayman Islands, Dominica, Trinidad & Tobago, Barbados

Middle East: United Arab Emirates, Saudi Arabia

Europe: Luxembourg

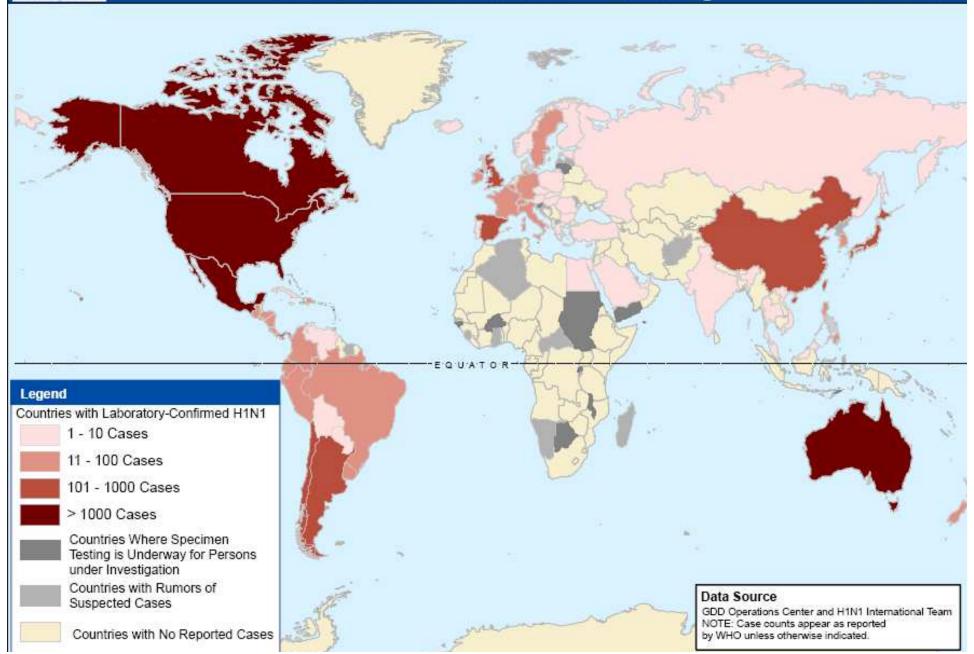
Other major developments:

- First death in the Caribbean: Dominican Republic
 - Pregnant 17 year old female with underlying disease
- India reporting first two cases of human-to-human transmission
 - Both family members of individuals with foreign travel history (one to NY, other unknown)
- ECDC reporting first case in South Pacific (French Polynesia) identified in woman arriving from Los Angeles
- China CDC investigating possible transmission on 5/26 Cathay Pacific flight from JFK to Hong Kong



Novel Influenza A (H1N1) International Case and Information Tracking

As of 09 June 2009 1100 EDT





Division of Global Migration and Quarantine Novel Influenza A (H1N1) - 09 JUN 2009 Community Mitigation and Ports of Entry



- Community Mitigation
 - CDC strategy for fall under development
 - Guidance documents for summer camp (in clearance) and child care (in progress)
- Ports of Entry
 - MMWR draft in development, on experience at POEs, April
 - May, 2009



Joint Information Center (JIC) Summary Communication Surveillance 09 Jun 2009 0100 EDT



Channel Traffic 6/7-6/8

Web Page Views: 233,304 (-54%)
 -Public Inquiries (CDC INFO): 89 (-67%)

Clinician Inq (CDC INFO): 8 (-64%)-Print/Internet News: 108 (+47%)

Television Stories: 78 (-72%)-Twitter: "Swine Flu": 9.0/min (+257%)

Major News Media Themes

Quarantine: N.O. mayor in China, Student dorm, Ruby players in Australia

Local case counts and confirmed deaths

Information Gaps:

 Scant information on public health guidance or health protection (despite coverage of quarantine)

Public Inquiries (CDC INFO)

Symptoms of H1N1? (22%) - Testing? (15%) - Prevention (9%)

Twitter Topics

Quarantine -Worry about new cases

- Difference between swine and bird flu?