



Director's Update Brief

Wednesday

20 May 2009 1100 EDT

Day 32

Day of Supplemental



Novel Influenza A (H1N1) Key Events 20 May 2009



- **Novel Influenza A (H1N1) Declarations**
 - WHO: Pandemic Phase 5 (29 Apr 1600 EDT)
 - USG: Public Health Emergency declared (26 Apr 2009)
 - **SLTT Declarations: 11**
 - CA, TX, WI, FL, NE, VA, MD, IA, OH, American Samoa, **ME**

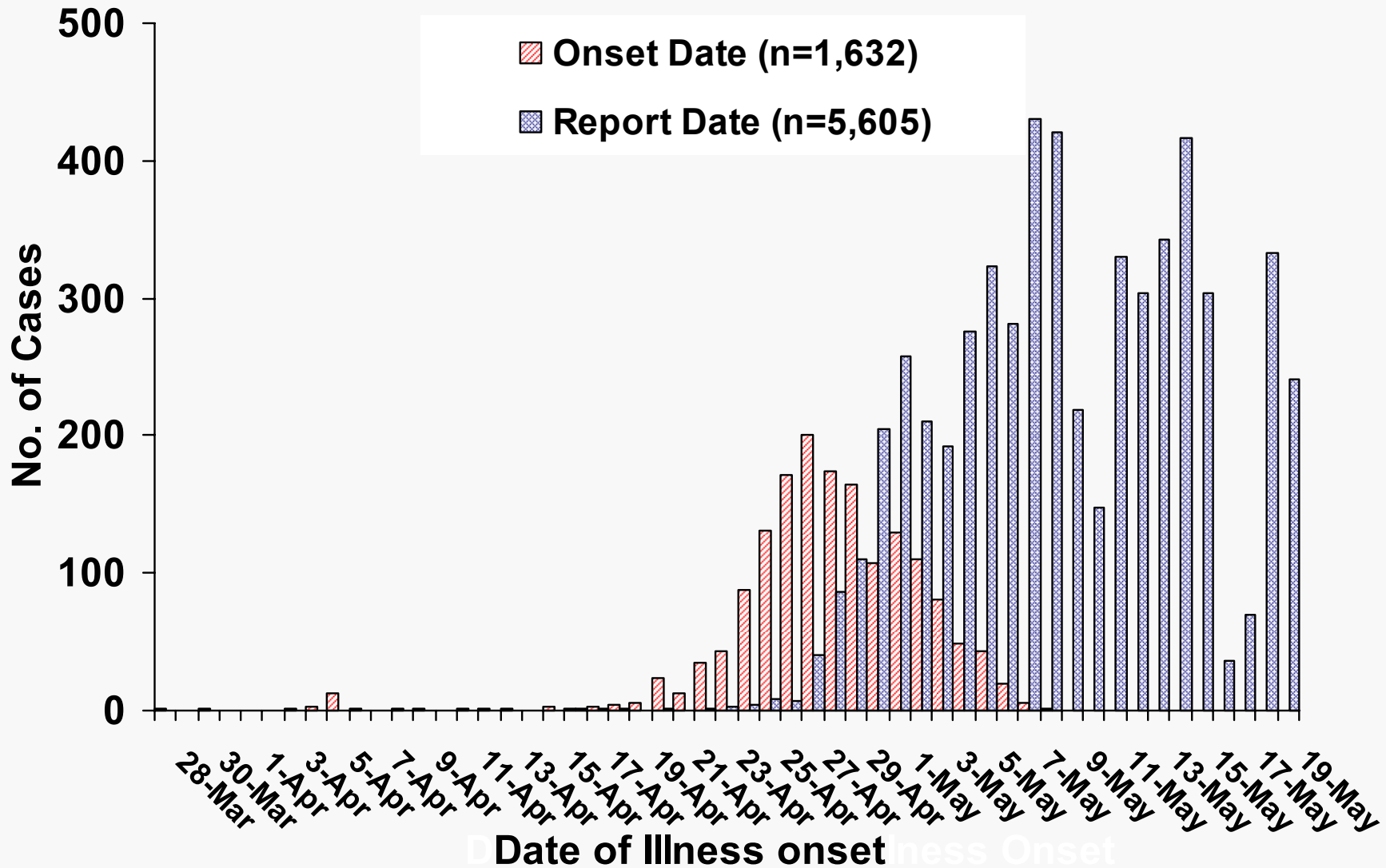
- **US Cases:**

	Total Confirmed and Probable		
	Cases	Hosp	Deaths
US TOTAL Cases INCL DC	5710	247	8
US TOTAL States Affected INCL DC	48	35	5

- **Deployments:** 66 deployed, 5 pending, 207 potential
- **New countries with confirmed cases:** Greece
- **Laboratory:** 44 states validated: 9 states with multiple sites; 582 genes have been sequenced



Epidemiology/Surveillance
Confirmed and Probable Novel Influenza A (H1N1)
Cases By Onset Date* and Report Date as of 20 May 2009 1100 EDT



*Information on onset date no longer presented after May 12 due to change to aggregate reporting



Epidemiology/Surveillance
Novel Influenza A (H1N1) - 20 May 2009 1100 EDT
Selected Underlying Conditions
Persons Hospitalized with H1N1, 2009



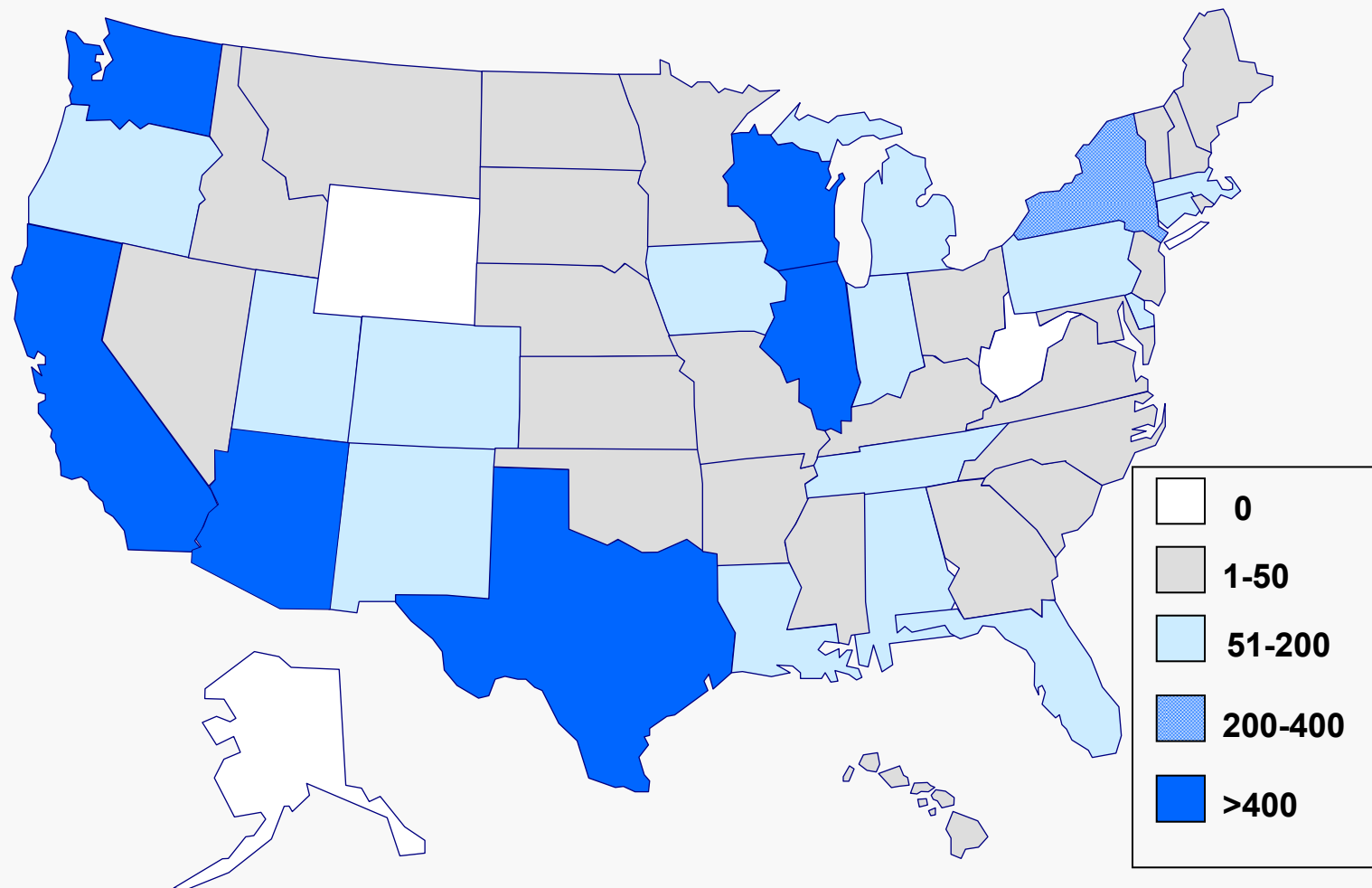
66 (71%) of hospitalized patients had an underlying chronic condition

Condition	No. (%)
Asthma or COPD	37 (40%)
Diabetes	14 (15%)
Immunocompromised	11 (12%)
Chronic cardiovascular disease	10 (11%)
Pregnant	7 (8%)
Obesity	6 (6%)
Chronic Renal Disease	4 (4%)
Cancer	3 (3%)



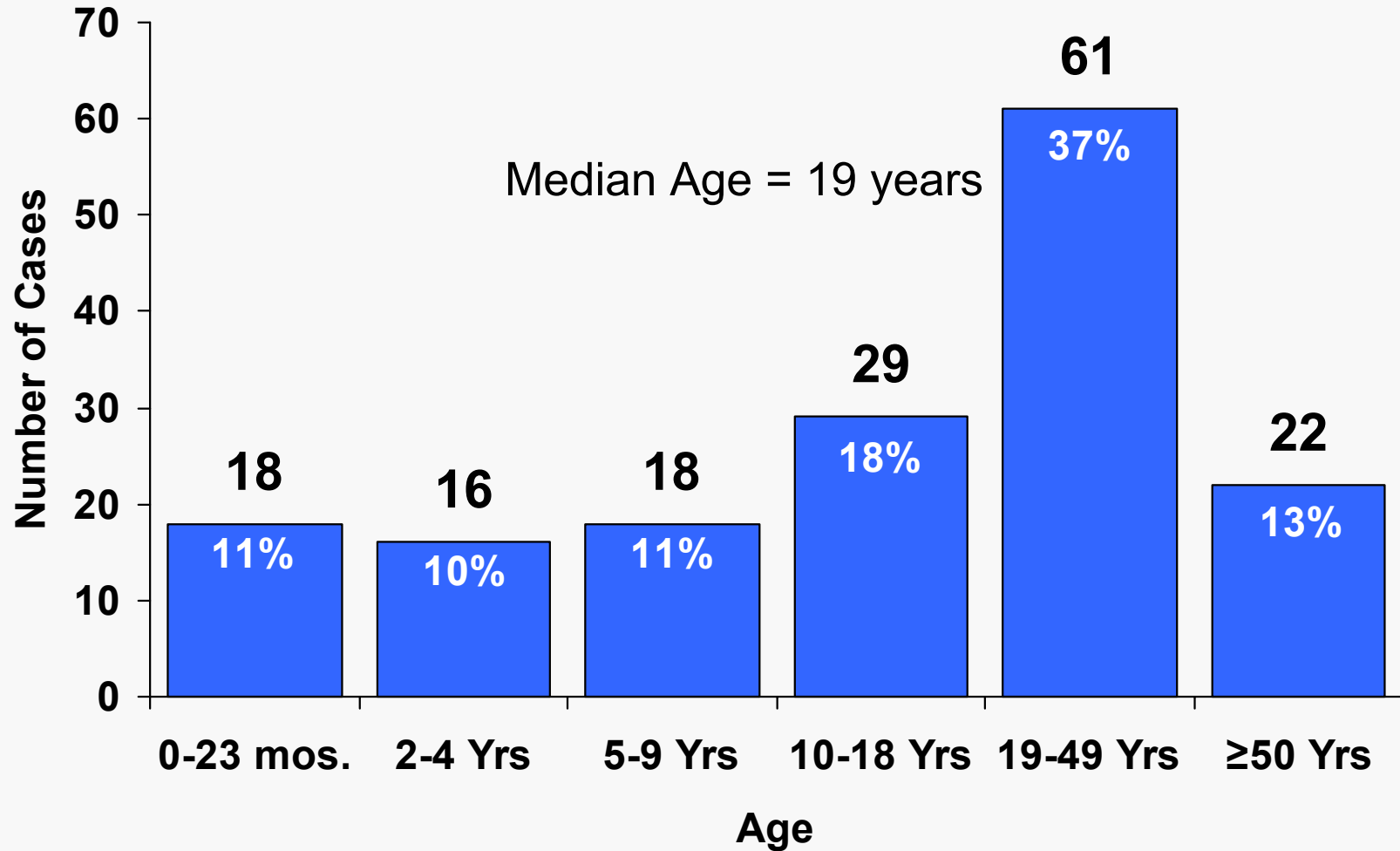
Epidemiology/Surveillance

Number of cases of H1N1 reported to CDC by state as of 17:30 EDT on 19 May 2009 (n=5710)





Epidemiology/Surveillance
Novel Influenza A (H1N1) - 20 May 2009 1100 EDT
Age of Persons Hospitalized with H1N1, 2009 n=164





Epidemiology/Surveillance
Novel Influenza A (H1N1) - 20 May 2009 1100 EDT
Antiviral and Antimicrobial Usage
Persons Hospitalized with H1N1, 2009



- 63/88 (60%) treated with antivirals
 - Median time from illness onset to antiviral initiation 4 days (1-25 days)
 - Median time from admission to antiviral initiation 1 day (6-13 days)
- 70 (75%) treated with antibiotics
 - 100% initiated on day of admission



Epidemiology/Surveillance
Novel Influenza A (H1N1) - 20 May 2009 1100 EDT
Indicators of Severity
Persons Hospitalized with H1N1



- 26/118 (22%) were admitted to the ICU
 - 13 (50%) required mechanical ventilation
 - 9 had ARDS
 - Median age of ICU patients (n=23)
23 years (1 month-86 yrs)
 - Median length of ICU stay (n=14)
9 days (2-34 days)
 - Time from onset to ICU admit (n=13)
6 days (2-14 days)



Epidemiology/Surveillance

Current Influenza Surveillance, 20 May 2009 1100 EDT

- **WHO/NREVSS Collaborating Laboratories** (graph as of 5/19/2009)
 - Seasonal influenza A (H1), A (H3), and B viruses co-circulated with novel influenza A (H1N1) viruses
- **Influenza-associated Pediatric Deaths**
 - No new influenza-associated pediatric death were reported
 - 2008-09 season total = 61
- **ILINet**
 - During week ending 5/16/2009, the percentage of ILI outpatient visits was below the national baseline
 - Overall, the percentage of outpatient visits for ILI remains stable, based upon daily ILI reports from the US Outpatient Influenza-like Illness Surveillance Network (ILINet)

These data are considered provisional and preliminary and will not be officially released by the CDC until 1100 EDT.



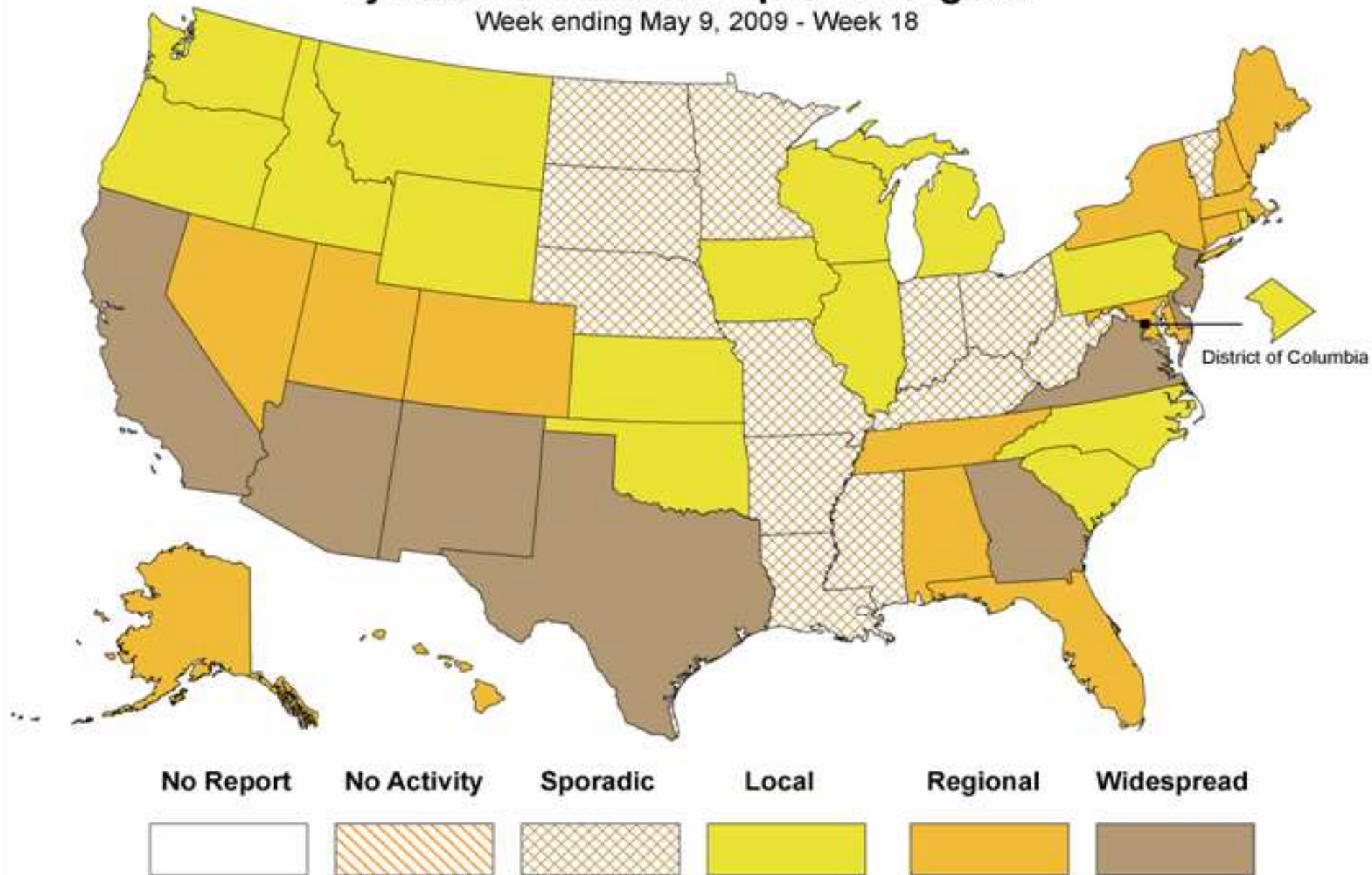
Epidemiology/Surveillance

Current Influenza Surveillance, 20 May 2009 1100 EDT

- **122 Cities Mortality Reporting System** (graph as of 5/19/2009)
 - As weekly mortality reports continue to be received at CDC for week ending 5/9/2009, the percentage of pneumonia and influenza deaths is not expected to be significantly elevated
 - Percentage of deaths due to pneumonia and influenza remains stable, based upon daily mortality reports from the 122 Cities Mortality Reporting System
- **Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists**
 - The influenza activity reported by state and territorial epidemiologists indicates geographic spread of both seasonal influenza and novel influenza A (H1N1) viruses and does not measure the severity of influenza activity.
 - Eight states reported geographically widespread influenza activity, 14 states reported regional activity, the District of Columbia and 15 states reported local influenza activity; and 13 states reported sporadic influenza activity.

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

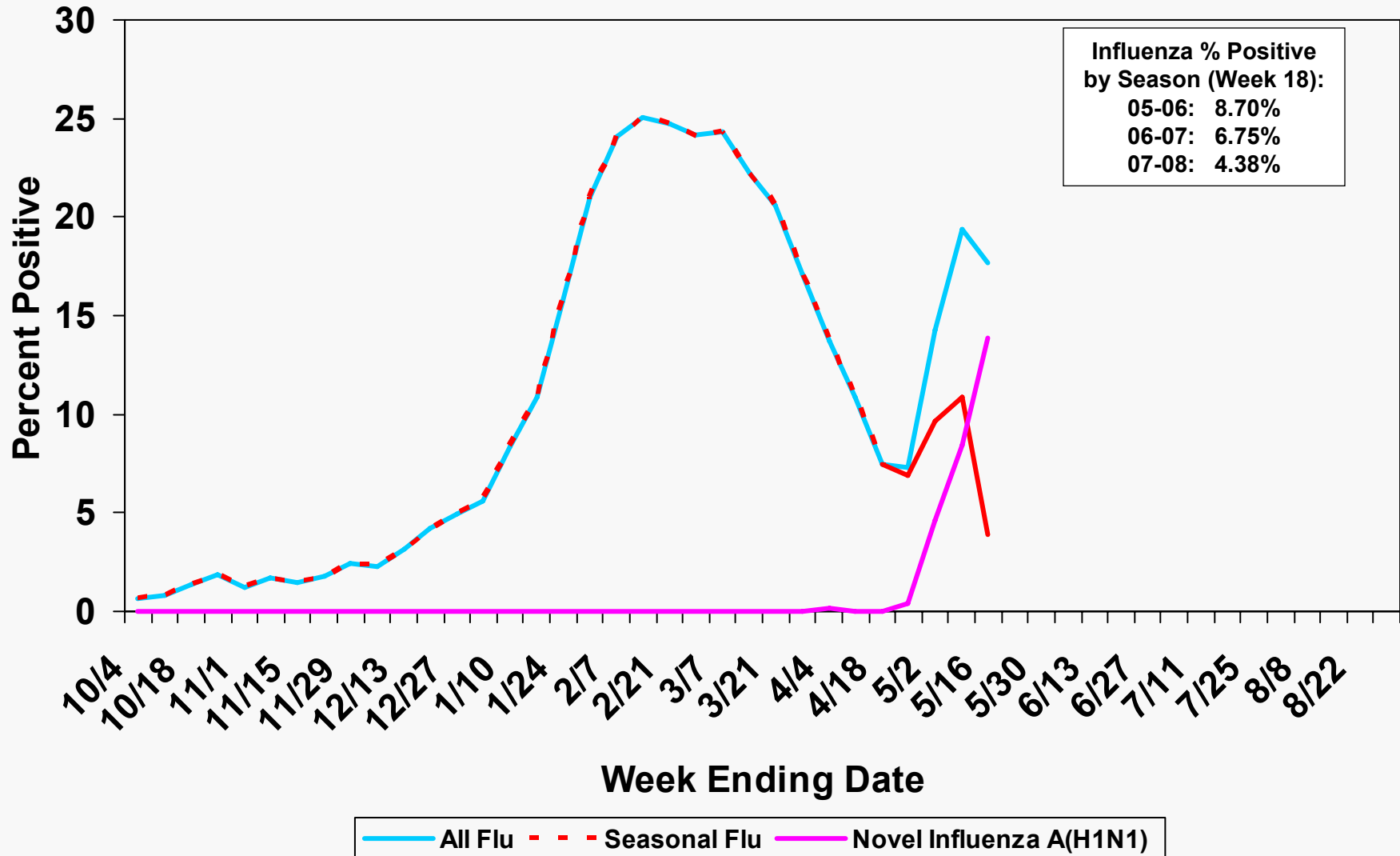
Week ending May 9, 2009 - Week 18

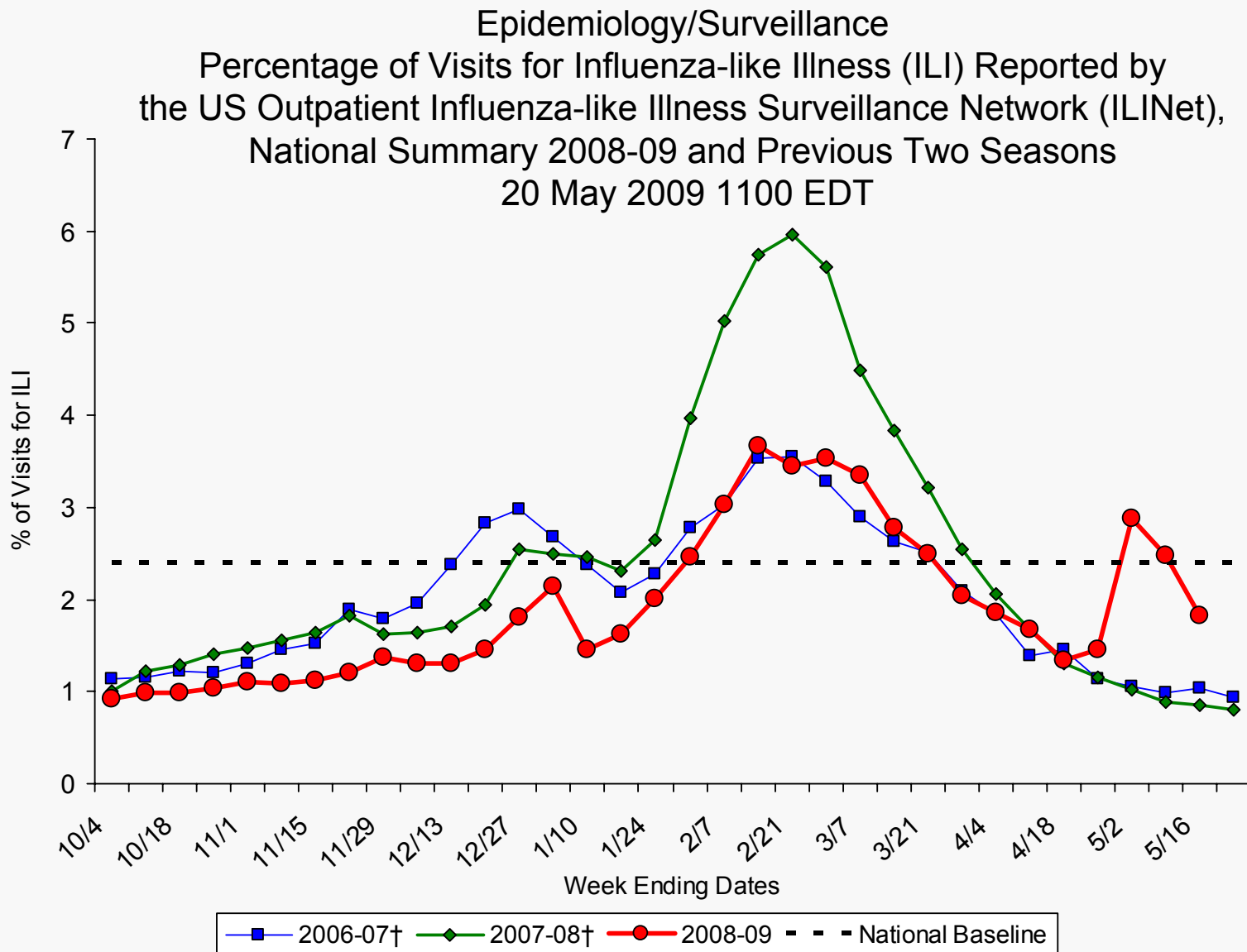


* This map indicates geographic spread & does not measure the severity of influenza activity



Percent of Specimens Positive for Influenza
Reported by WHO and NREVSS Labs:
Novel Influenza A(H1N1) vs. Seasonal Influenza, by Week
20 May 2009 1100 EDT





NOTE: Week ending dates vary by influenza season

***Preliminary ILI data for week 19, as of May 19, 2009 (n=667 weekly ILI reports received from 47 states)**

† 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.



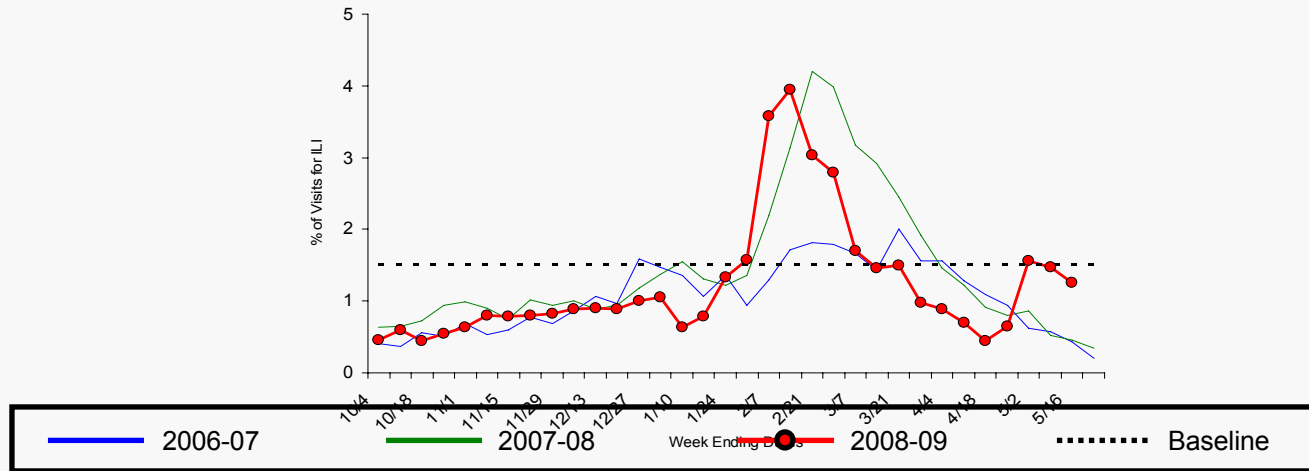
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions I-III

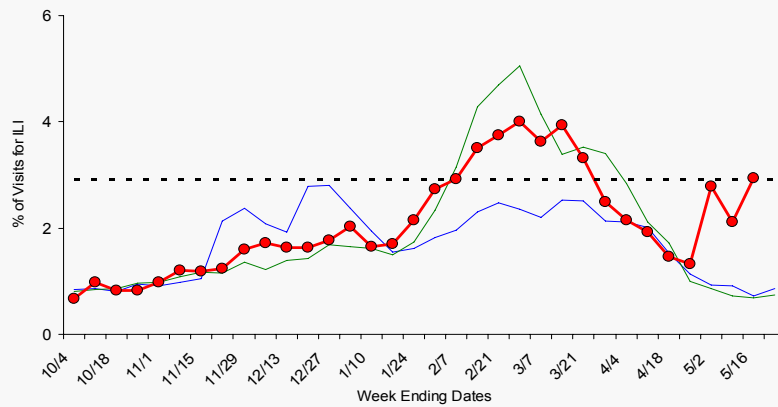
20 May 2009 1100 EDT



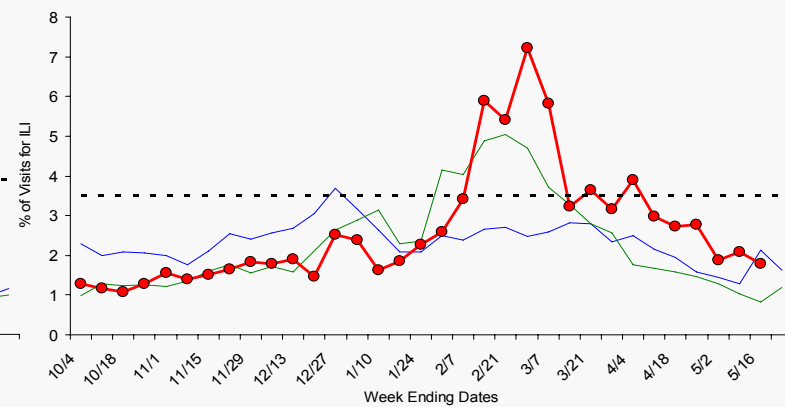
Region I - CT, ME, MA, NH, RI, VT



Region II - NJ, NY



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



NOTE: Scales differ between regions

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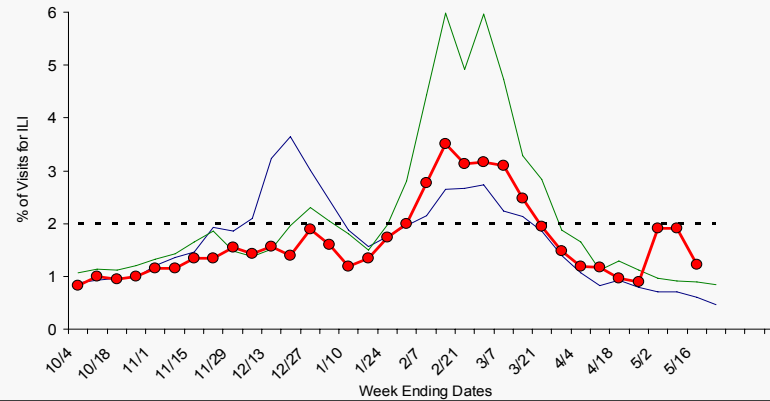
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions IV-VI

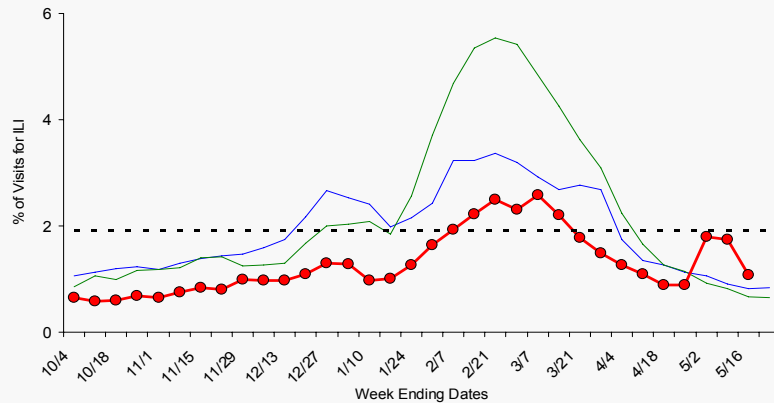
20 May 2009 1100 EDT



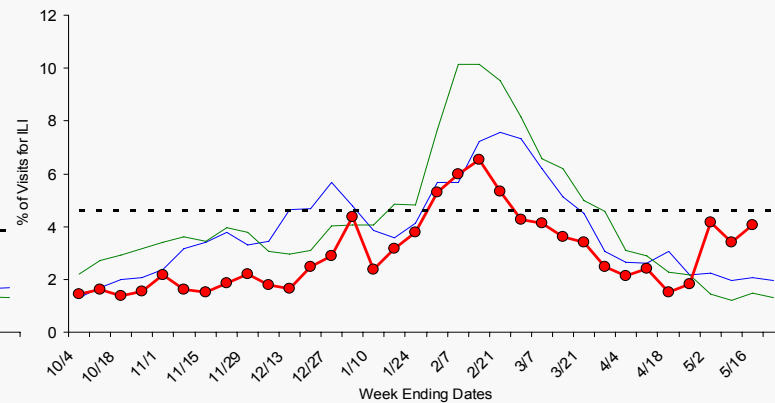
Region IV - AL, FL, GA, KY, MS, NC, SC, TN



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.



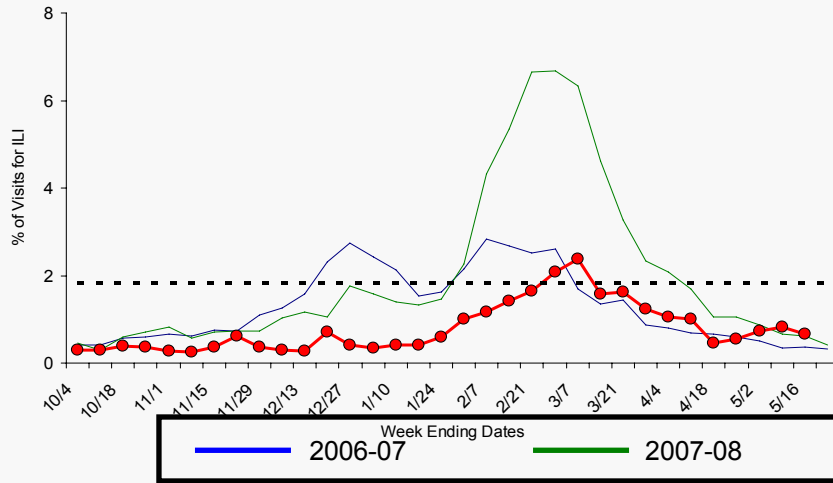
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions VII-X

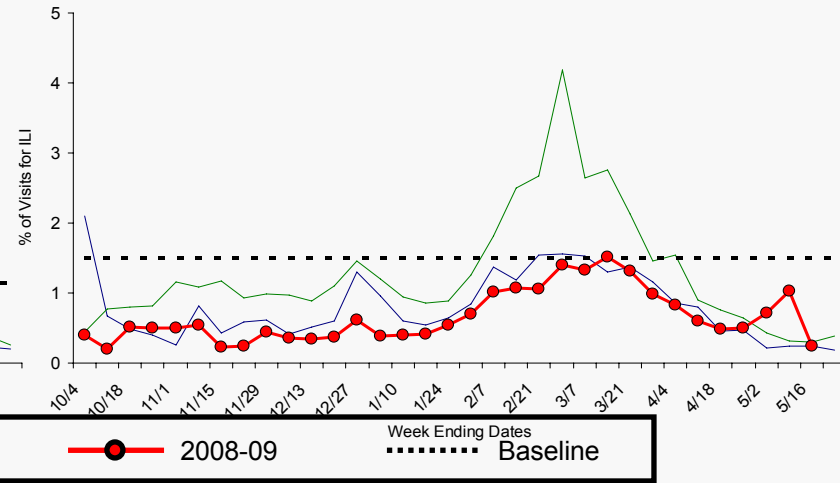
20 May 2009 1100 EDT



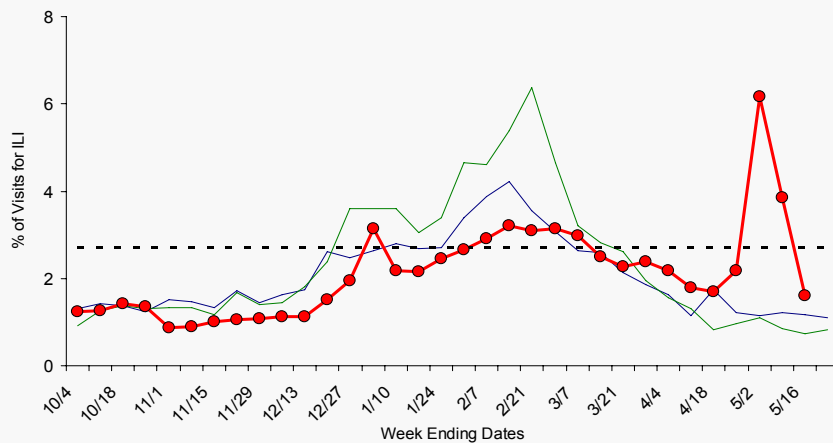
Region VII - IA, KS, MO, NE



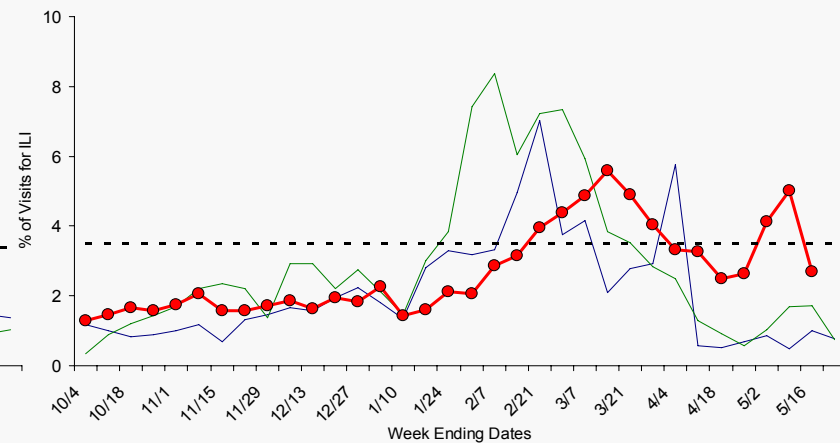
Region VIII - CO, MT, ND, SD, UT, WY



Region IX - AZ, CA, HI, NV



Region X - AK, ID, OR, WA



NOTE: Scales differ between regions

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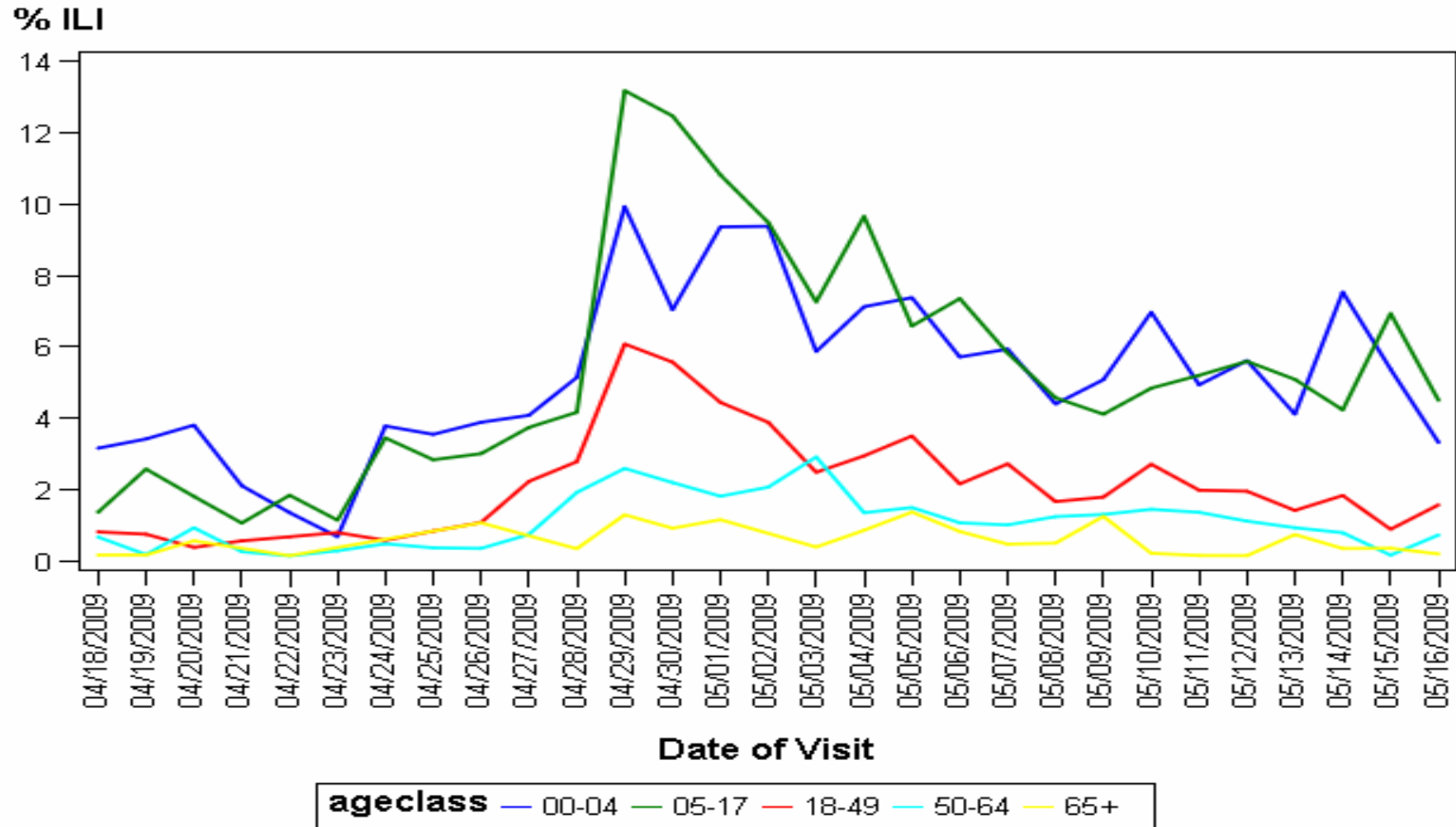
BioSense

% Patients Presenting With ILI as a Chief Complaint by Age

April 18-May 16, 2009



=CHICAGO-GARY-KENOSHA, IL-IN-WI

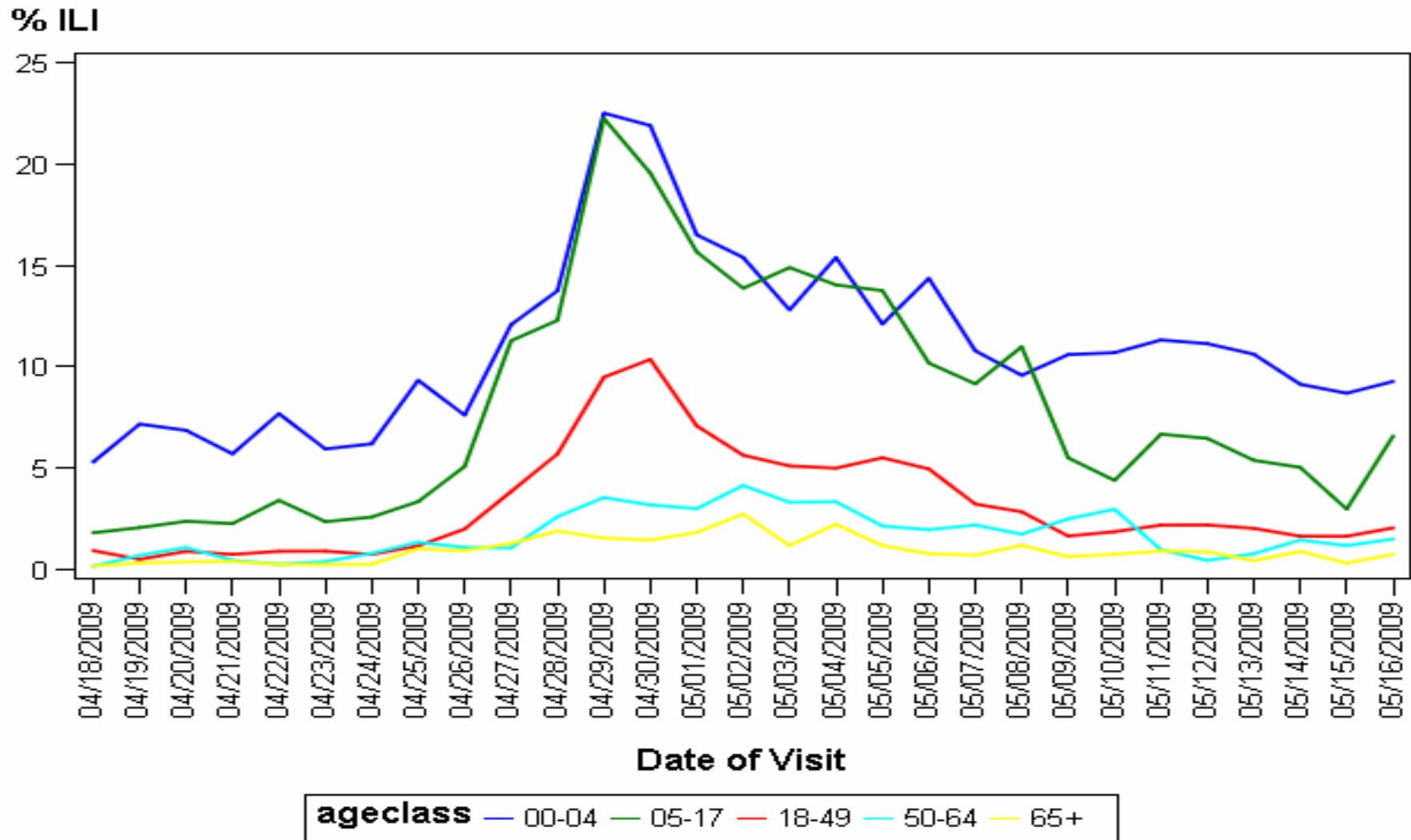




BioSense
% Patients Presenting With ILI as a Chief Complaint by Age
April 18-May 16, 2009



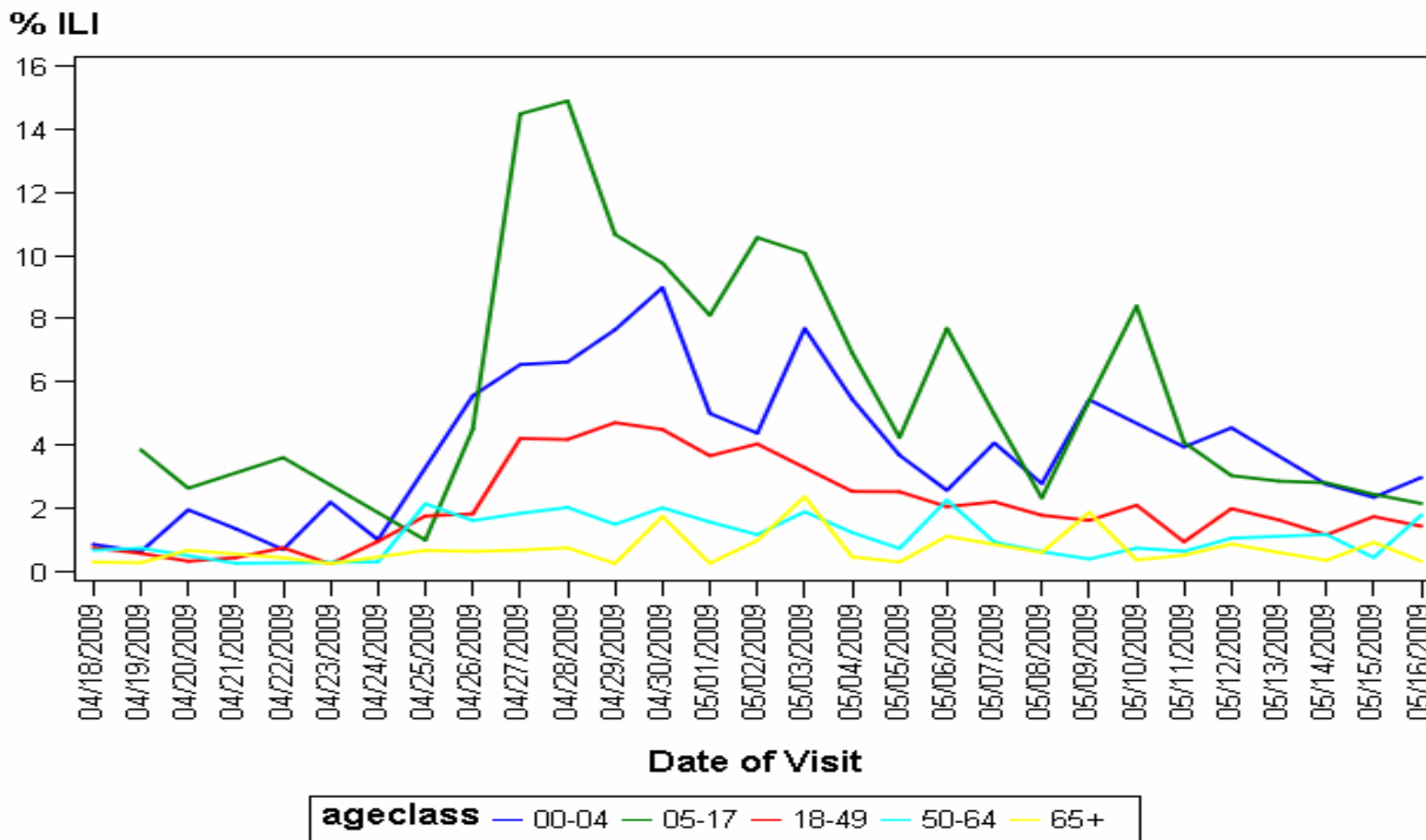
=DALLAS-FORT WORTH, TX





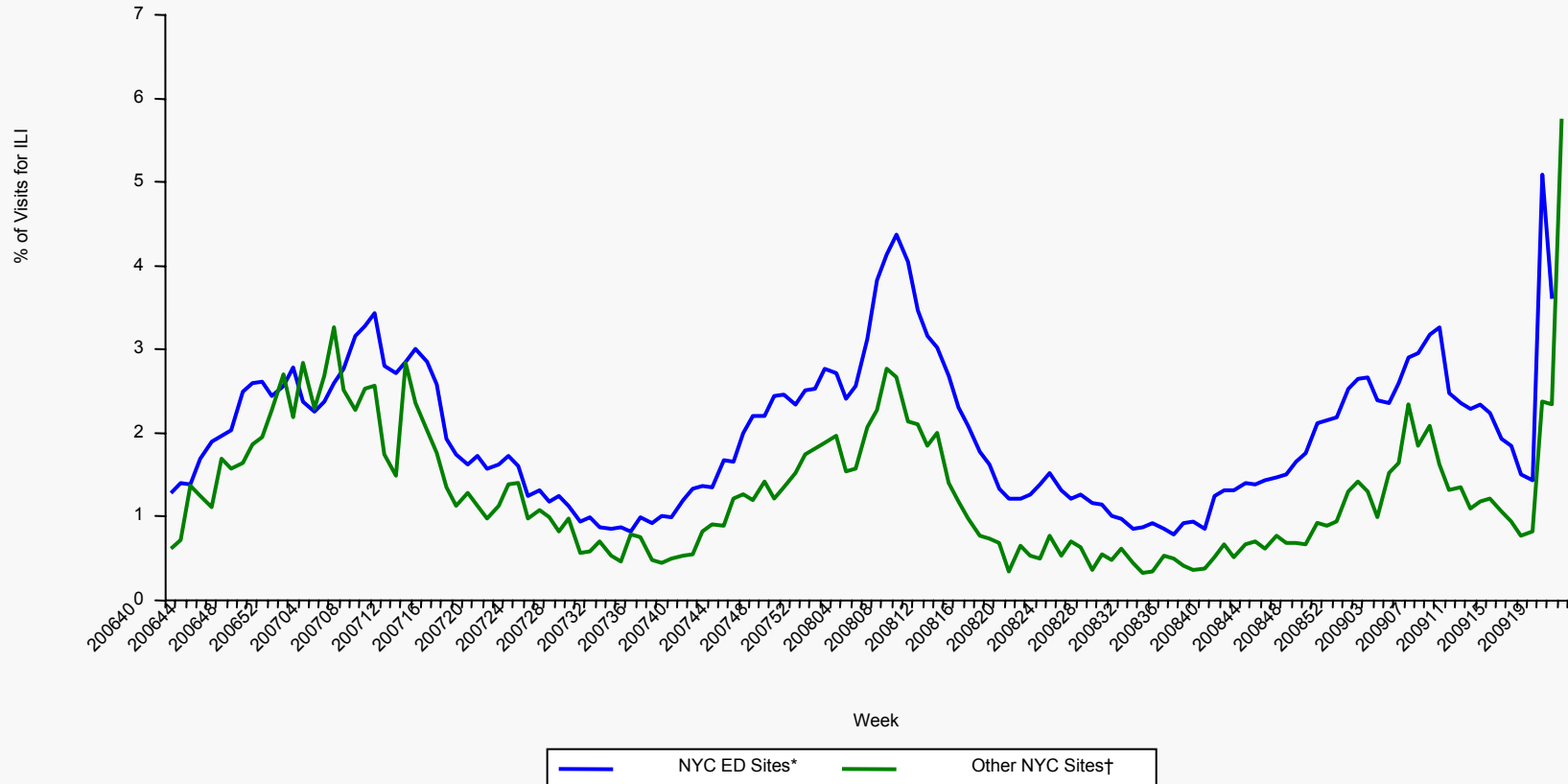
BioSense
% Patients Presenting With ILI as a Chief Complaint by Age
April 18-May 16, 2009

= SAN DIEGO, CA





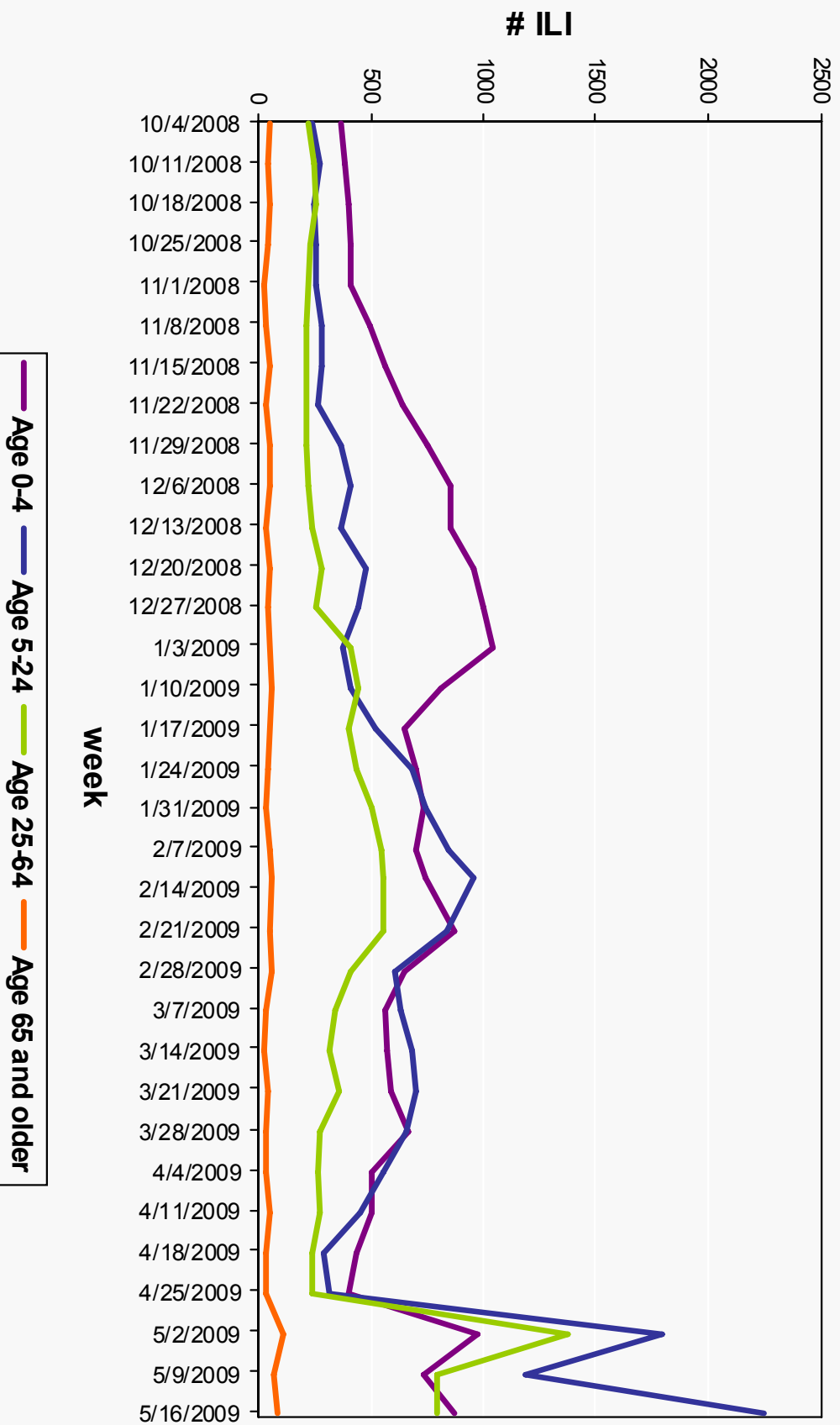
Epidemiology/Surveillance - Percentage of Visits for ILI NYC ED and Other ILINet Providers, 2008-09 and Previous Two Seasons 20 May 2009 1100 EDT



*Consists of 50 ED sites across NYC; An average of 19 sites reporting each week from across NYC of various practice types (Family Practice, Pediatrics, Internal Medicine, and Student Health)



Epidemiology/Surveillance
NYC ED ILI Counts by Age Group
Oct 2008 - May 16, 2009
20 May 2009 1100 EDT





International
Novel Influenza A (H1N1) - 20 May 2009 1100 EDT



- **WHO global case count: 10,243 confirmed cases in 41 countries***
 - **New countries with confirmed cases: Greece**
 - **Countries with highest confirmed case count after the US and Mexico:**
 - Canada: 496 (=) Japan: 210 (↑51)
 - Spain: 107 (↑4) UK: 102 (↑1)
- **Increases in case counts expected in countries receiving CDC PCR kits as testing capabilities are improved**

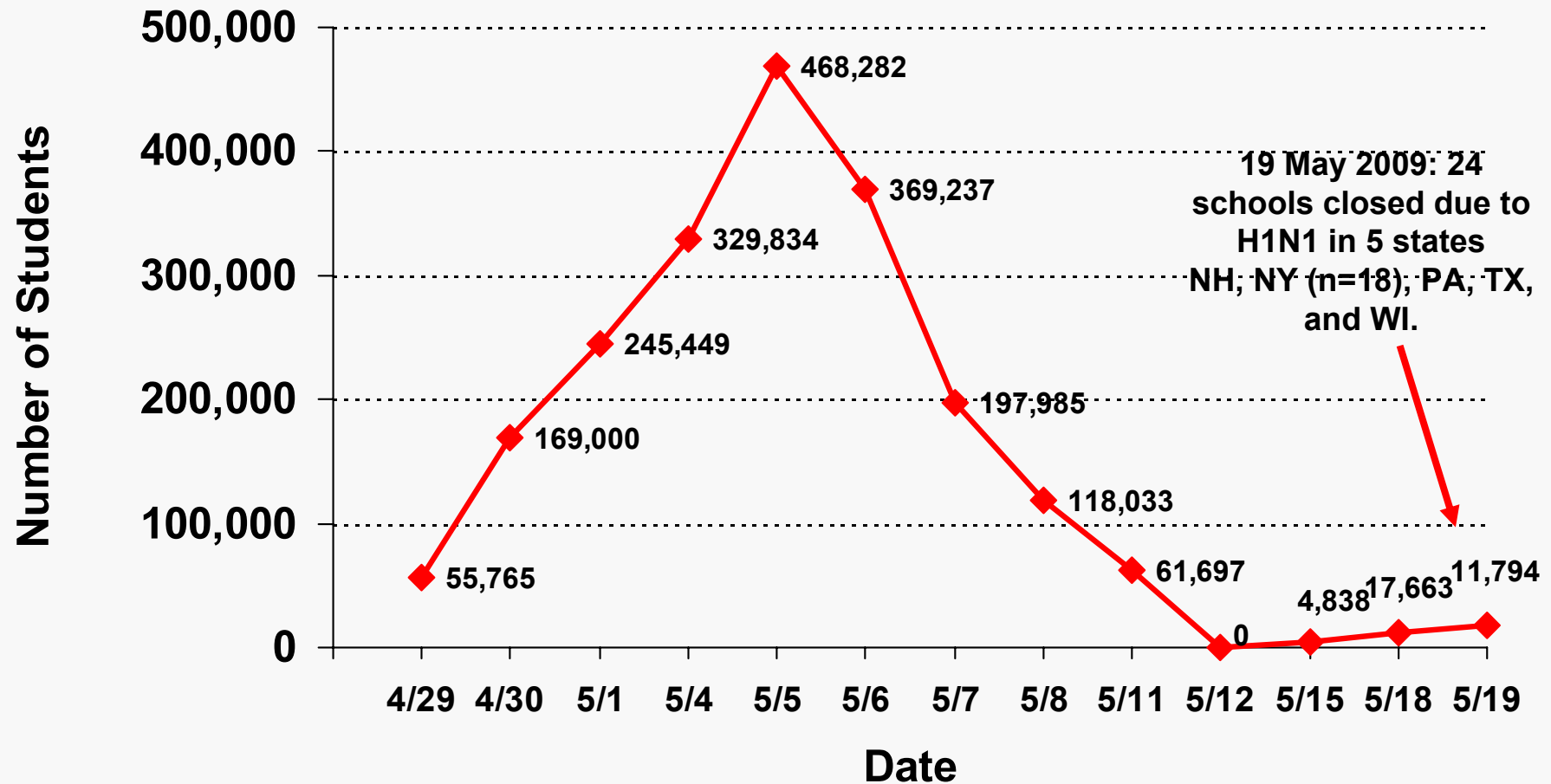
**Note: WHO case counts are current as of 05/20/09, 9:00 am EDT*



Division of Global Migration and Quarantine
Novel Influenza A (H1N1)



Students Dismissed by Date (ED as of 1400 EDT 19 May 2009)



Source: ED and CDC Confirmed School Closing Reports released each weekday at 2:00pm.



Communications Summary Novel Influenza A (H1N1) - 20 May 2009 1100 EDT



Channel Traffic	5/16 Sat	5/17 Sun	5/18 Mon	5/19 Tue
Public Inquiries	380	188	178	510
News Stories Print/Internet	109	114	212	189
Web	927,305	512,254	547,371	1,216,785

Themes

- 2 deaths linked to H1N1: St. Louis man and 16-month old boy in NYC
- School closings in NYC
- WHO meeting vaccine development
 - “proving much tougher than expected”; taking “longer than expected”; now “delayed”
- Nations urge WHO to change criteria, consider severity not just spread

Emerging Themes

- Controversy over change in school closing guidelines,
 - NYC: “Guidelines did not call for that school to be closed and public is upset...school should have been closed sooner”
 - Schools across the country continue to close
 - Strong local reaction to deaths in the community: NYC hospitals -- seeing hundreds more people than usual