



Director's Update Brief novel 2009-H1N1

**Friday
14 MAY 2010**

**Day 395 / Month 13
Day 222 of Vaccination**

novel 2009-H1N1 –14 MAY 2010

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Epidemiology / Surveillance

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Epidemiology/Surveillance Surveillance Goals during Deceleration/Resolution Interval (Summer 2010)

- Continuing vigilance for increases in influenza activity and large scale outbreaks
- Investigation of unusual influenza activity
- Continue virologic reporting and characterization
- Maintain surveillance for ILI and mortality



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Epidemiology/Surveillance

Influenza surveillance Activities

Summer 2010

- Final FluView for 2009-10 influenza season May 28.
- Continued weekly analysis and follow up on data from:
 - WHO/NREVSS laboratories virologic surveillance
 - ILINet outpatient illness surveillance
 - 122 Cities Mortality Reporting System
 - Influenza-associated pediatric mortality reporting
- Weekly summary of data for internal CDC briefings
- EIP hospitalization and state and territorial epidemiologist reports paused until October
- Ramp up surveillance if increases in influenza activity are detected.



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Epidemiology/Surveillance Influenza Surveillance Systems for Fall 2010

System	Reporting Frequency
WHO & NREVSS Collaborating Laboratories	Weekly
Aggregate Case Reporting by State (AHDRA)	TBD
Emerg Infect Program/NVSN Hospitalization Surv	Bi-Weekly
122 Cities Mortality Reporting System	Weekly
Influenza Associated Pediatric Mortality	Daily
ILINet	Weekly
State and Territorial Epi Report	Weekly
BioSense	Weekly
Distribute	Daily
SDI / GE / Cerner	? TBD ?Weekly
ICU	Weekly – Suspend for summer and continue in fall Week 40



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Epidemiology/Surveillance Conclusion

- Surveillance will continue over the spring and summer with pre-pandemic systems as noted
- Surveillance will need to be resourced at a level that is greater than pre-pandemic but less than pandemic level
 - Need to have flexible capacity for vigilance and follow-up in place
 - Need to be prepared for early influenza season in 2010-11
 - Increased need for urgent contemporaneous analyses and visualization
 - Planning for fall internally and with partners (CSTE Meeting June 2010 in Atlanta)



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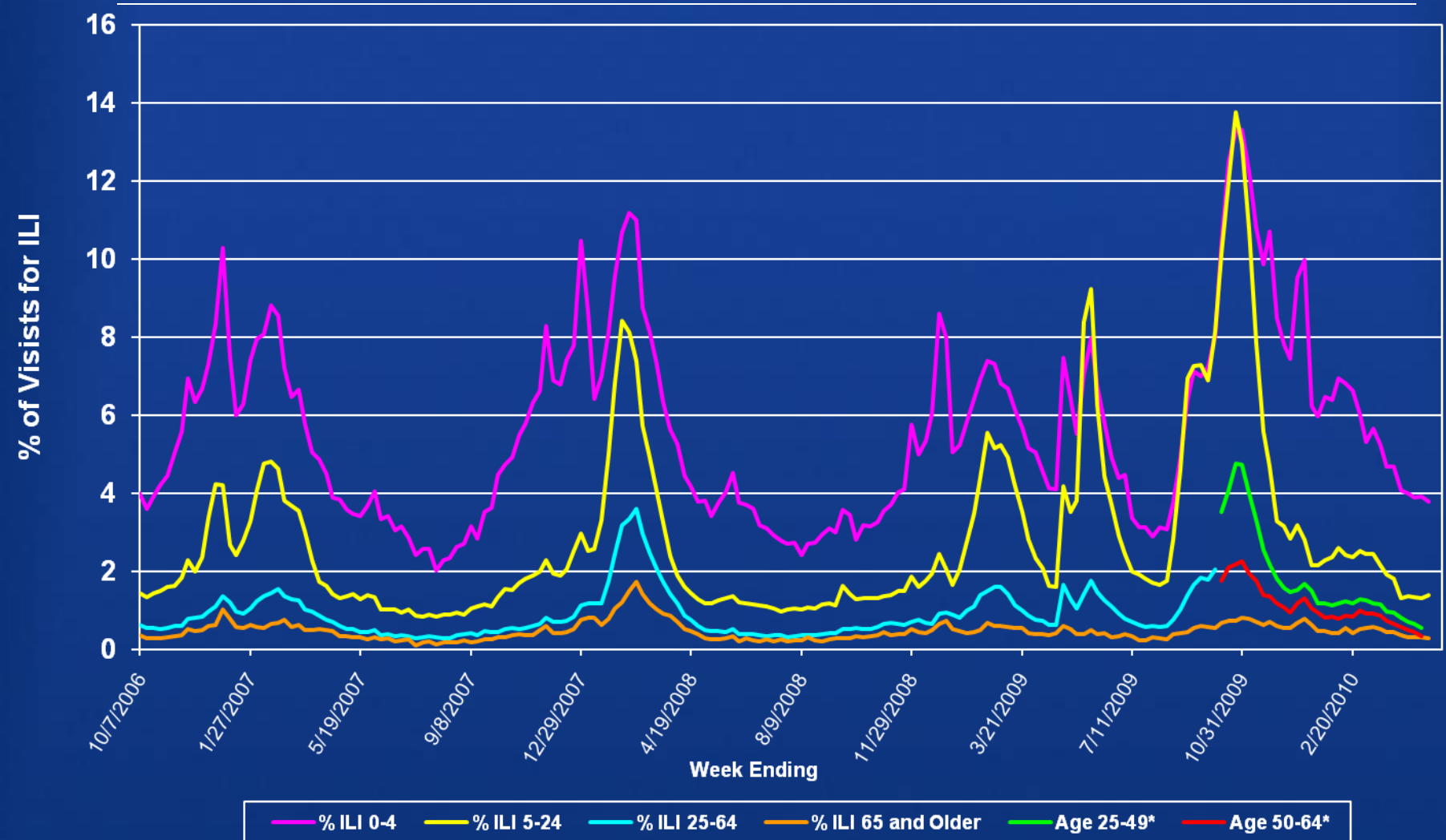
- **WHO/NREVSS Collaborating Laboratories**
 - % of specimens testing positive for influenza decreased
- **ILINet (week ending 8 May)**
 - % of ILI outpatient visits is below the national baseline; all regions were below region specific baselines
- **122 Cities Mortality Reporting System (graph)**
 - % pneumonia and influenza deaths was below the epidemic threshold
 - % deaths due to pneumonia and influenza decreased
- **Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists – state reporting:**
 - Local: 1 states Sporadic: 24 states + PR + Guam
 - None: 25 states + DC No Report: US Virgin Islands

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Epidemiology/Surveillance

Percentage of Visits for ILI Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), National Summary 2006-07 through 2009-10 by Age Group data as of week ending 8 May, 2010



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* New age categories added October 10, 2009

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Epidemiology/Surveillance

Virologic Surveillance

U.S. Virologic Surveillance: WHO and NREVSS collaborating laboratories located in all 50 states and Washington D.C., report to CDC the number of respiratory specimens tested for influenza and the number positive by influenza type and subtype. The results of tests performed during the current week are summarized in the table below.

	Week 18
No. of specimens tested	1722
No. of positive specimens (%)	26 (1.5%)
<i>Positive specimens by type/subtype</i>	
Influenza A	26(100%)
A (2009 H1N1)	17 (65.4%)
A (subtyping not performed)	8 (30.8%)
A (unable to subtype)	0 (0.0%)
A (H3)	1 (3.8%)
A (H1)	0 (0.0%)
Influenza B	0 (0.0%)



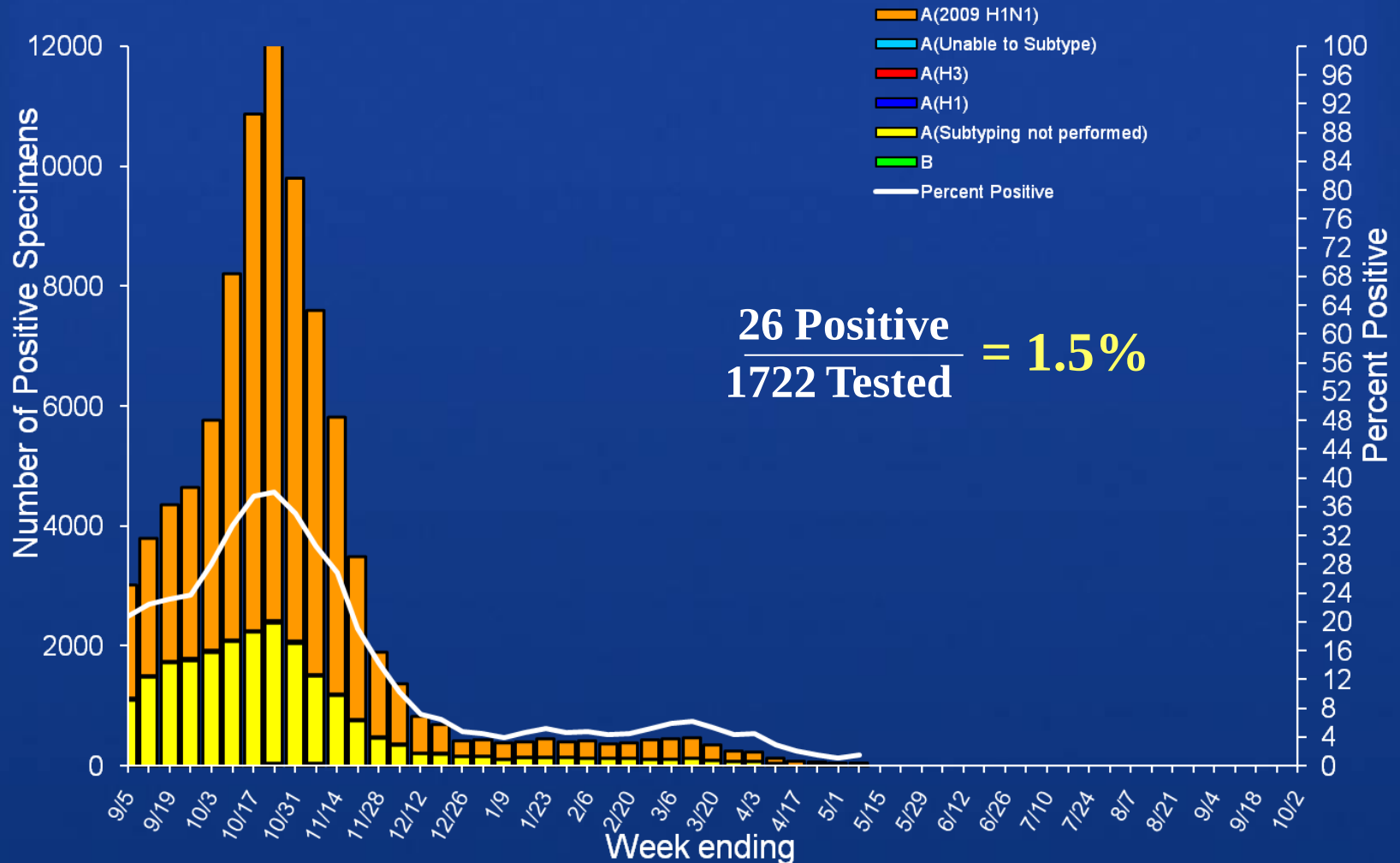
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Epidemiology/Surveillance

U.S. WHO/NREVSS Collaborating Laboratories, National Summary, 2009-10



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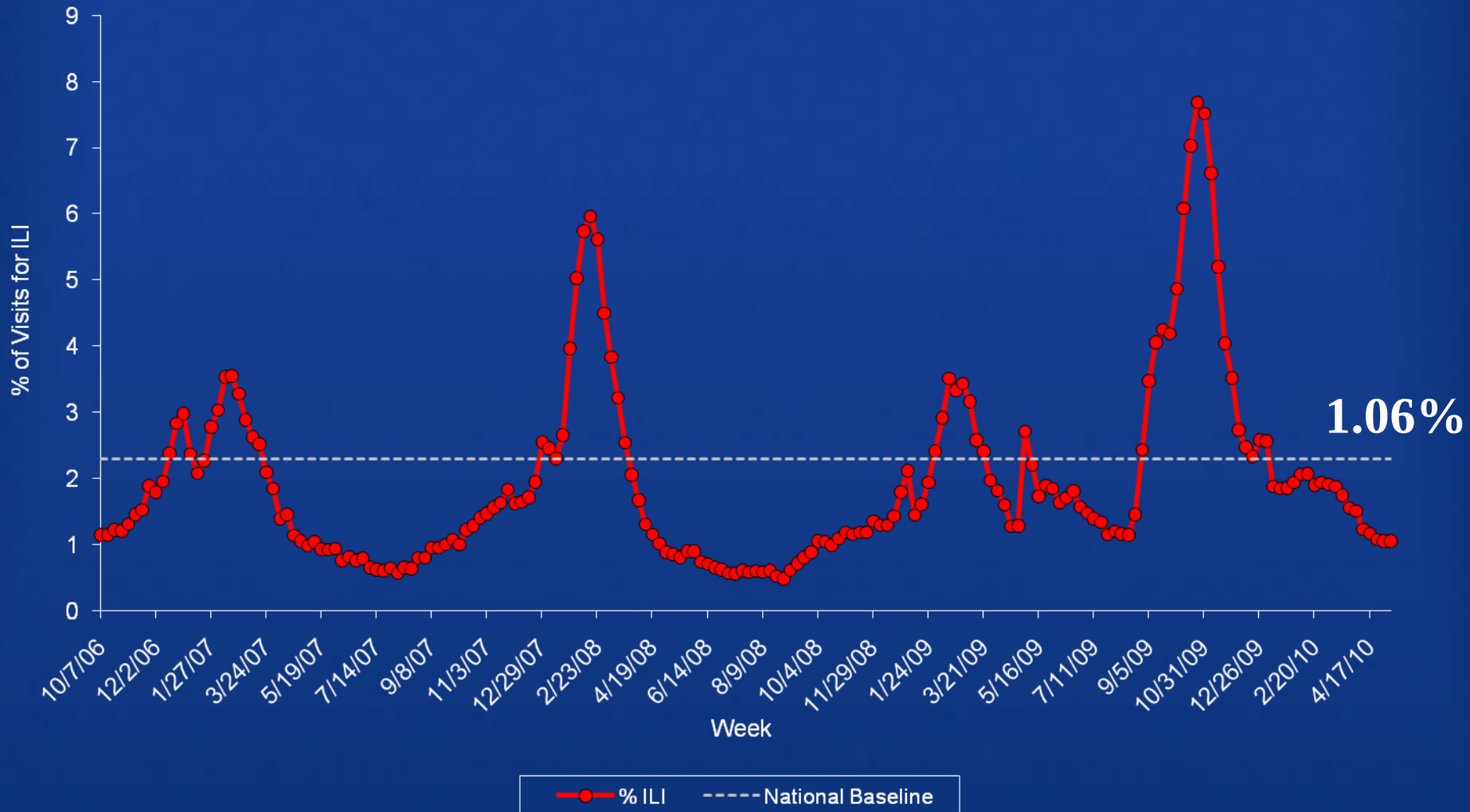
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Epidemiology/Surveillance

Percentage of Visits for Influenza-like Illness (ILI) Reported by the *U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)*, National Summary October 1, 2006 – May 8, 2010



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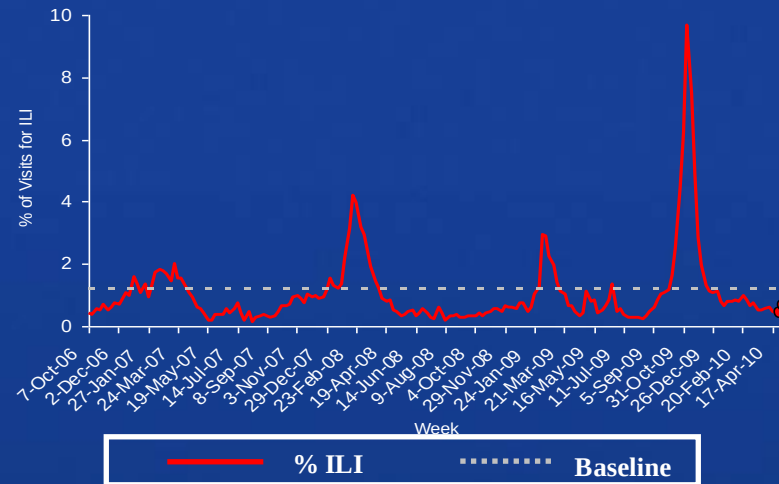
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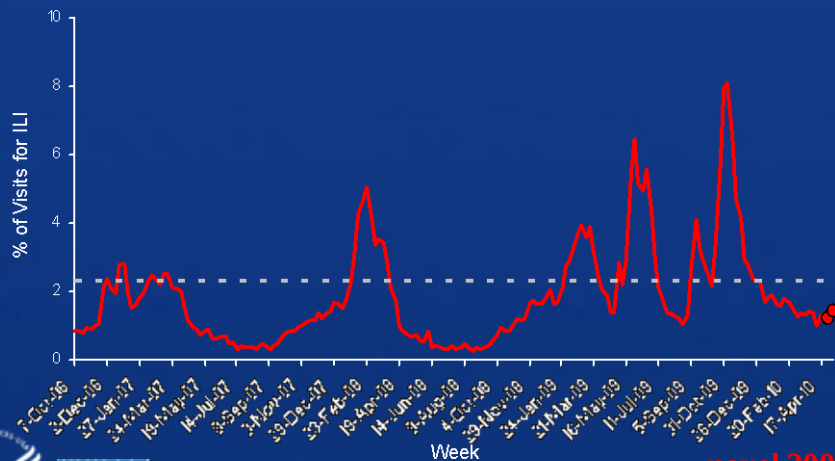
Epidemiology/Surveillance

Current Influenza Surveillance – *ILINet* Regions 1-3

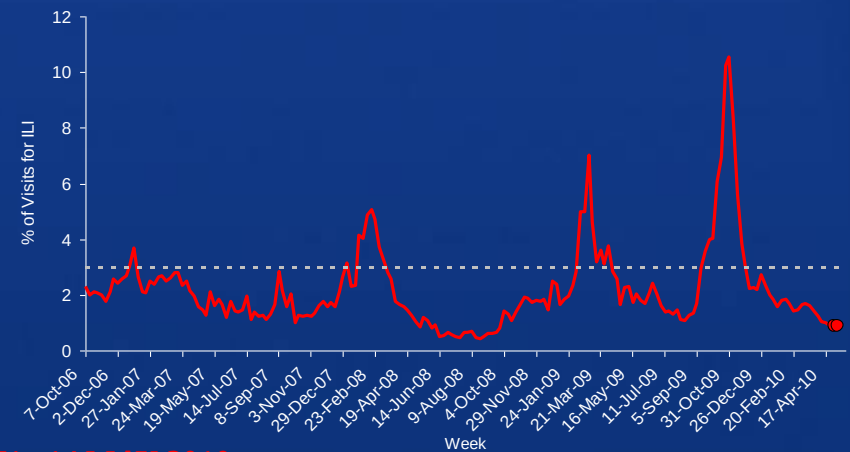
Region 1 - CT, ME, MA, NH, RI, VT



Region 2 - NJ, NY, USVI



Region 3 - DE, DC, MD, PA, VA, WV



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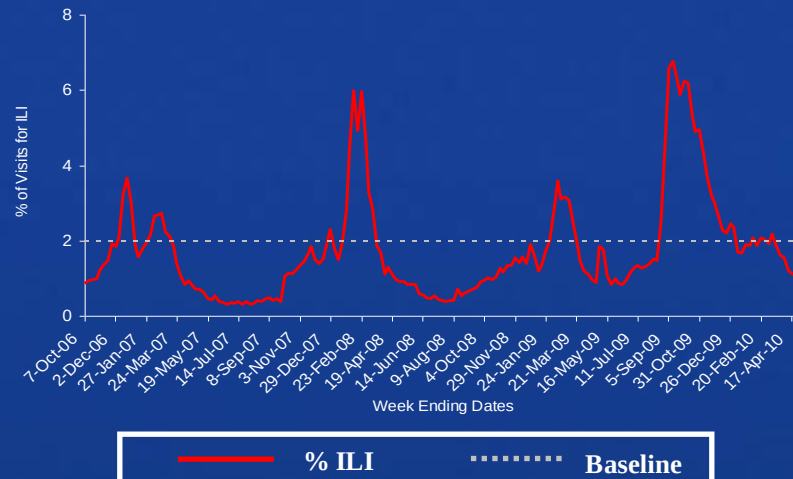
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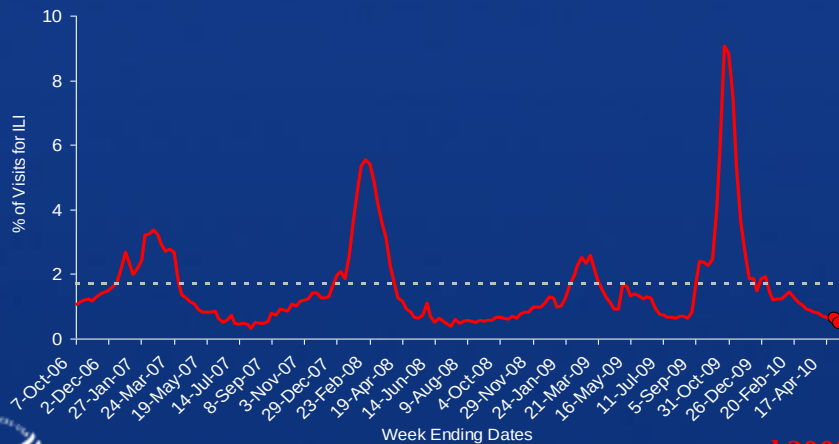
Epidemiology/Surveillance

Current Influenza Surveillance – *ILINet* Regions 4-6

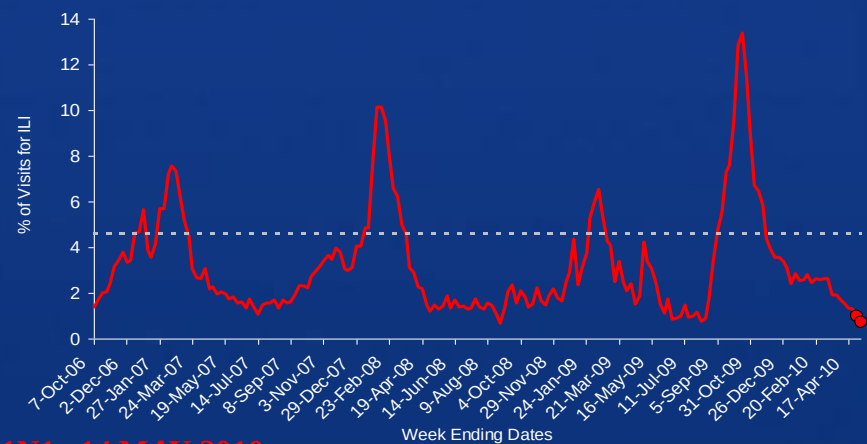
Region 4 - AL, FL, GA, KY, MS, NC, SC, TN



Region 5 - IL, IN, MI, MN, OH, WI



Region 6 - AR, LA, NM, OK, TX



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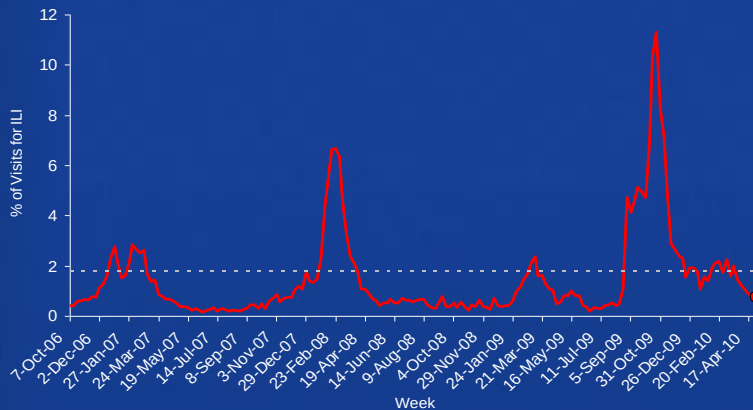
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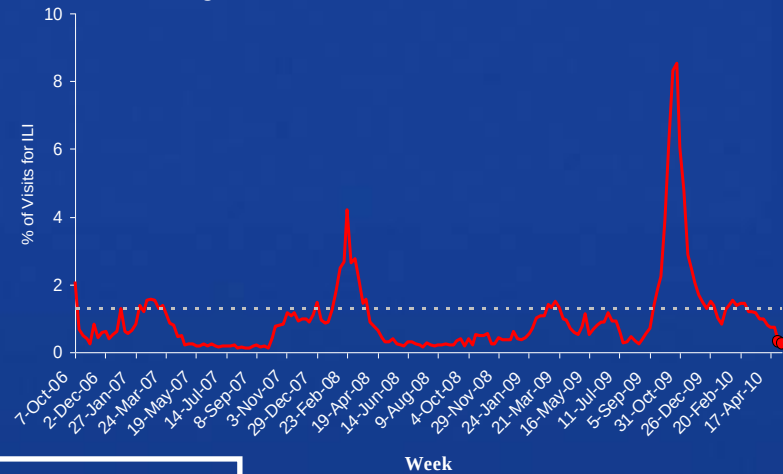
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions 7-10

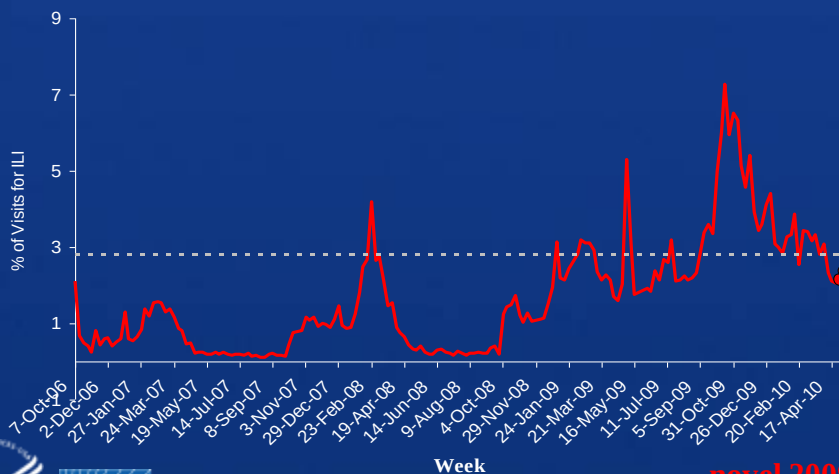
Region 7 - IA, KS, MO, NE



Region 8 - CO, MT, ND, SD, UT, WY



Region 9 - AZ, CA, HI, NV



Region 10 - AK, ID, OR, WA



— % ILI Baseline

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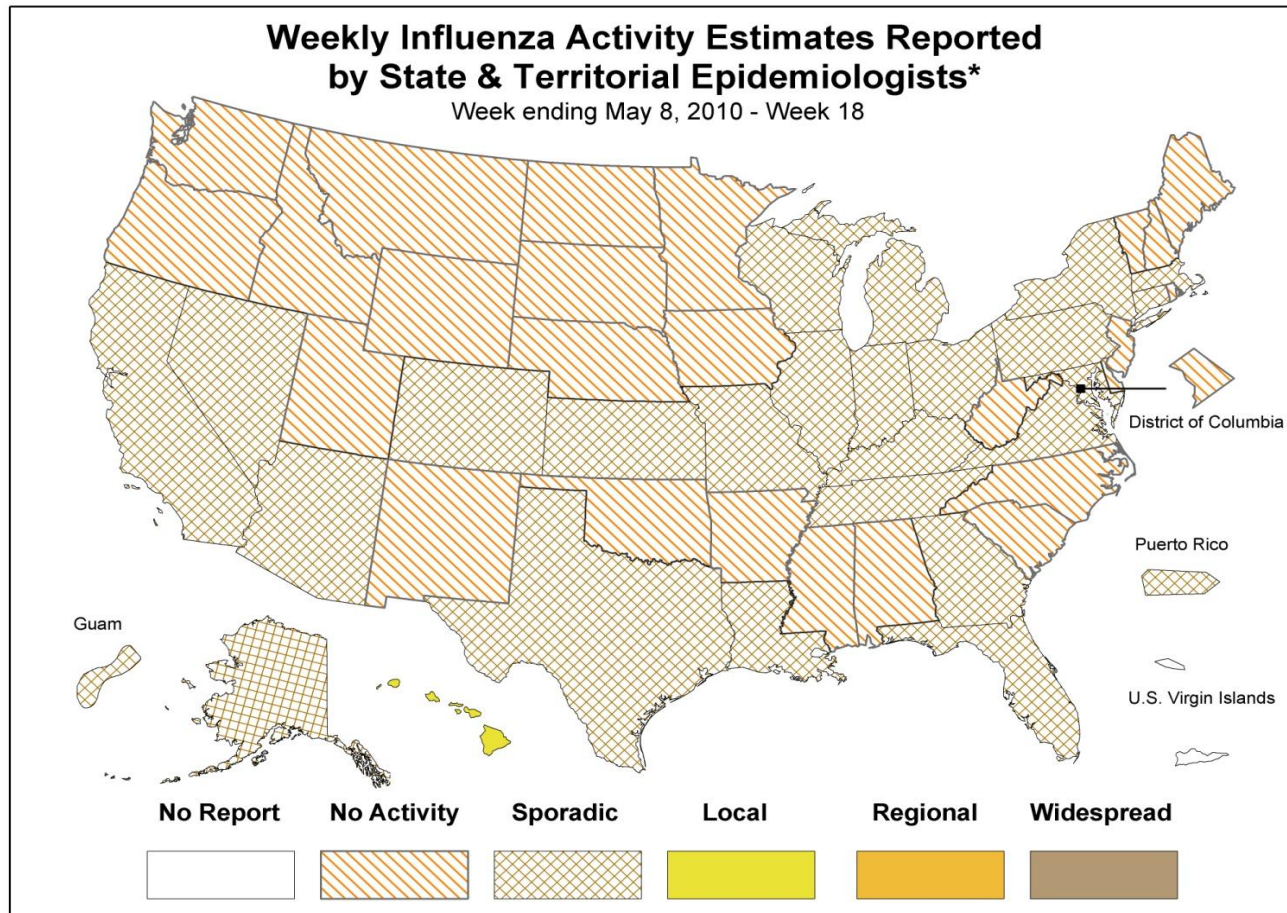
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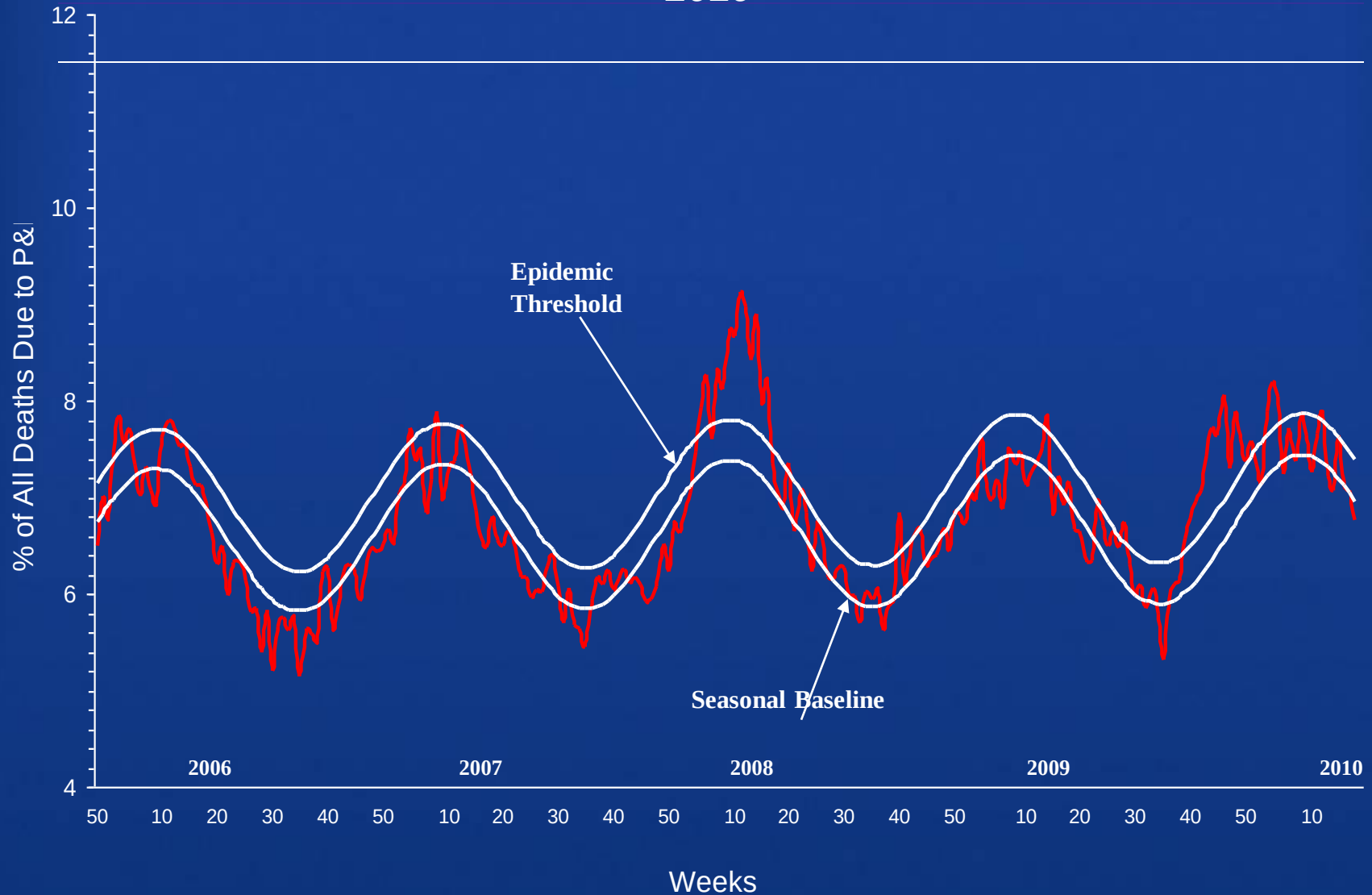
Weekly Influenza Activity Reported by SLTT's



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

Epidemiology/Surveillance

Pneumonia and Influenza Mortality for 122 U.S. Cities -Week Ending 8 MAY 2010



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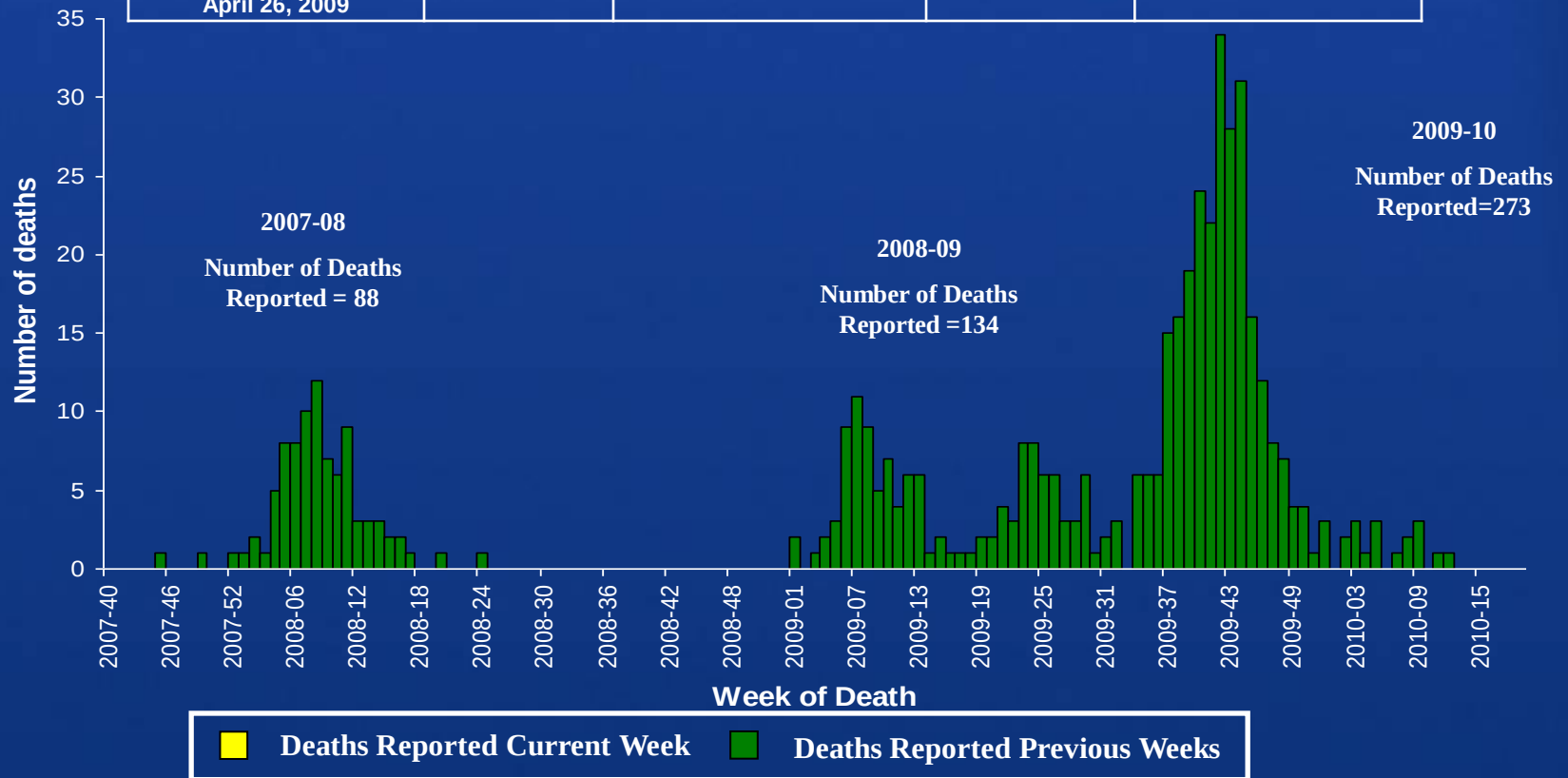
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Epidemiology/Surveillance

Number of Influenza-Associated Pediatric Deaths by Week of Death: 2007-08 season to present

Date	2009 H1N1	Influenza A – Unknown Subtype	Seasonal Flu	Total
# Deaths Current Week – 18	0	0	0	0
# Deaths Since August 30, 2009	222	50	1	273
# Deaths Since April 26, 2009	282	53	3	338



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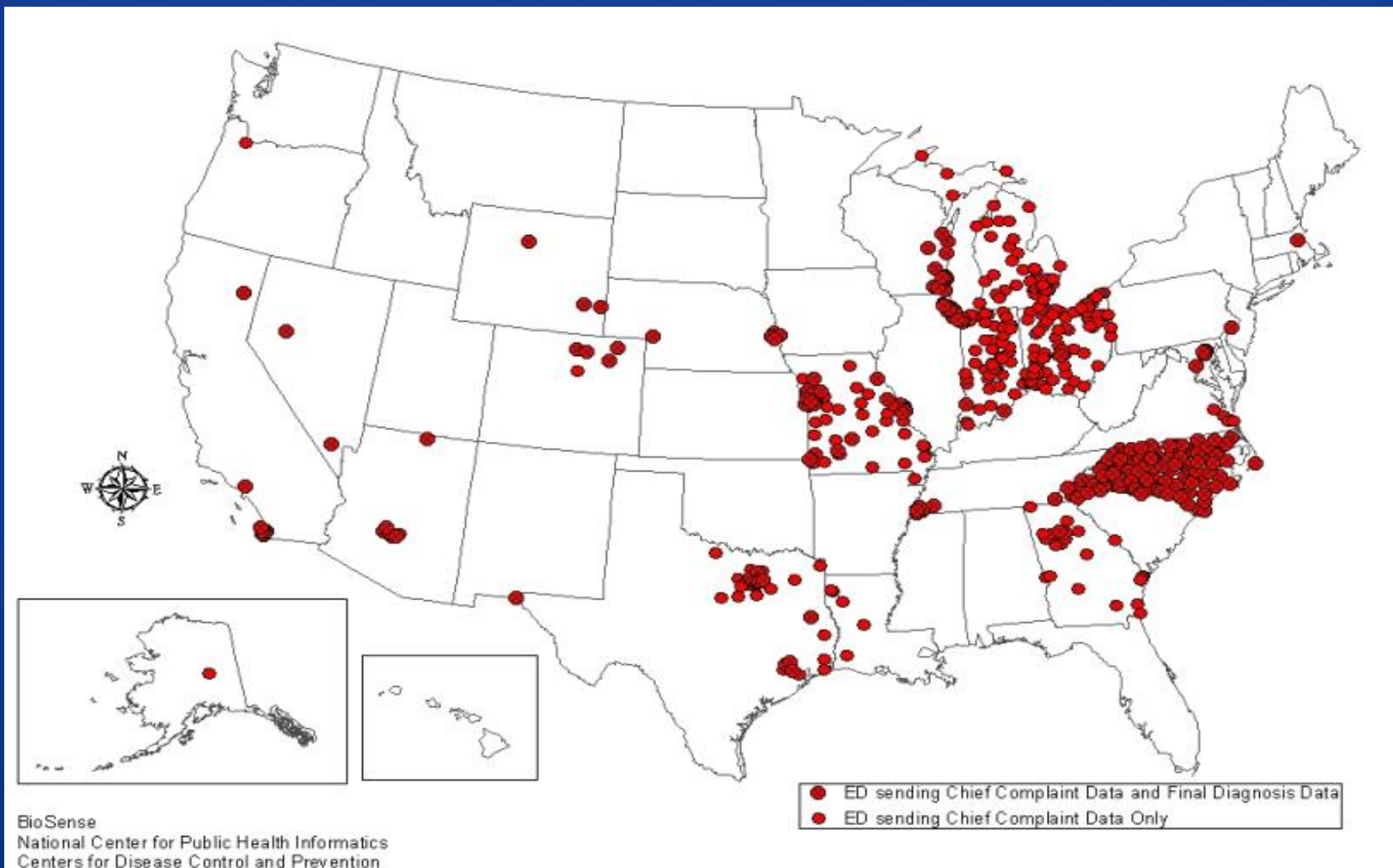
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BioSense

Location of BioSense Emergency Departments (ED) (N=569)



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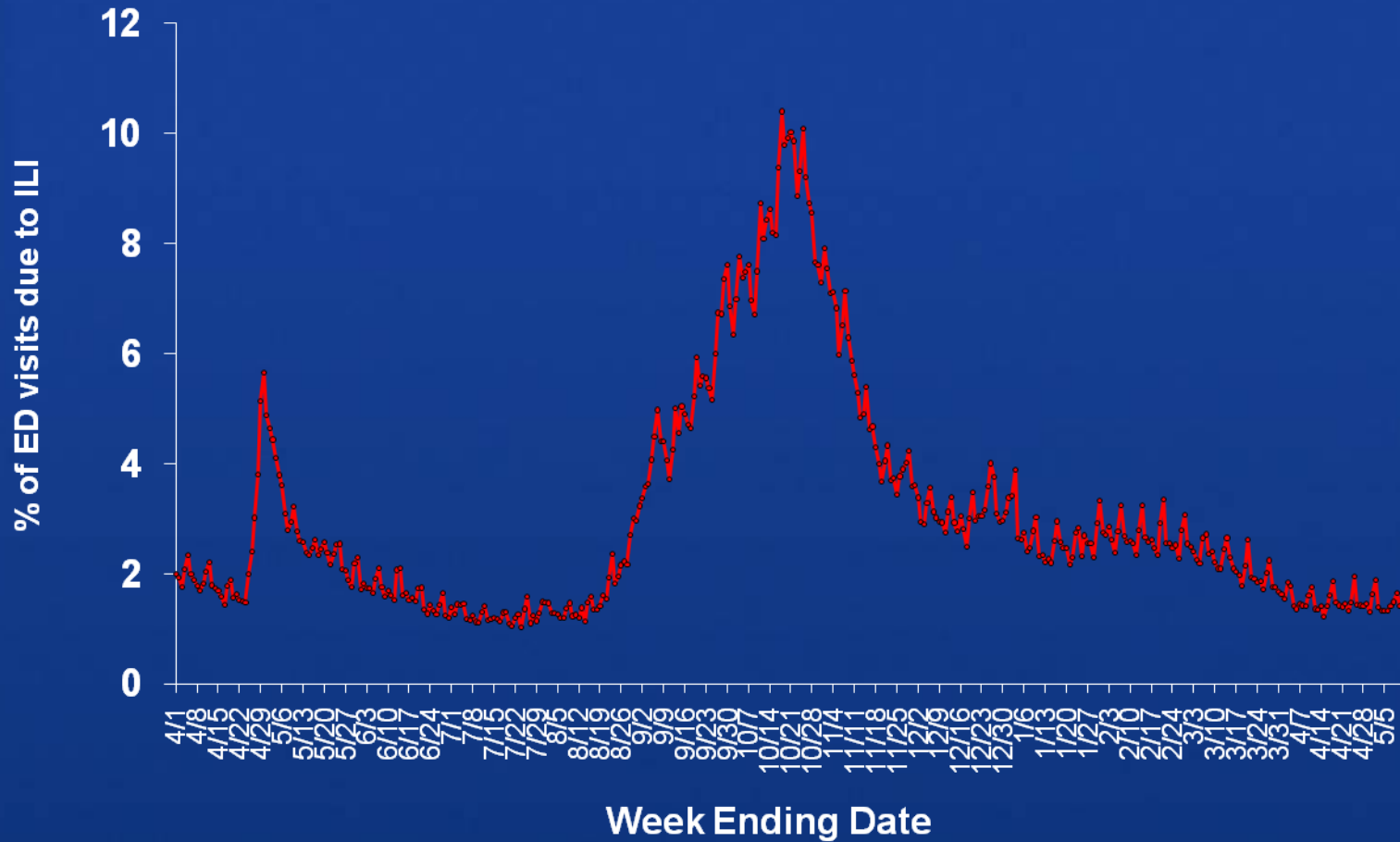
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BioSense

BioSense Emergency Departments (N=569) % of ED Visits due to ILI: U.S., April 1, 2009 to May 11, 2010



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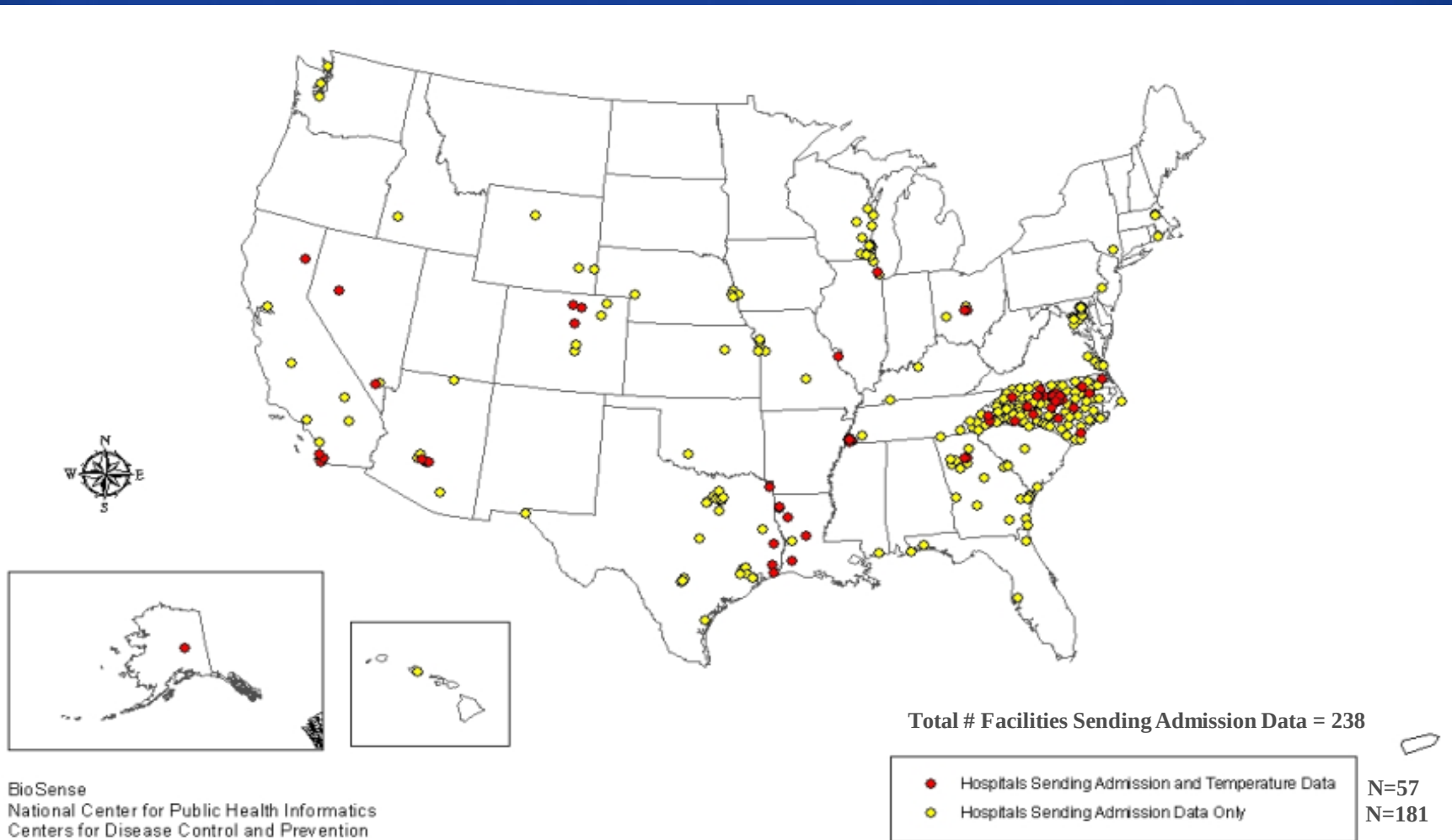
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BioSense

Location of BioSense Emergency Dept. Sending Temperature and/or Disposition Data



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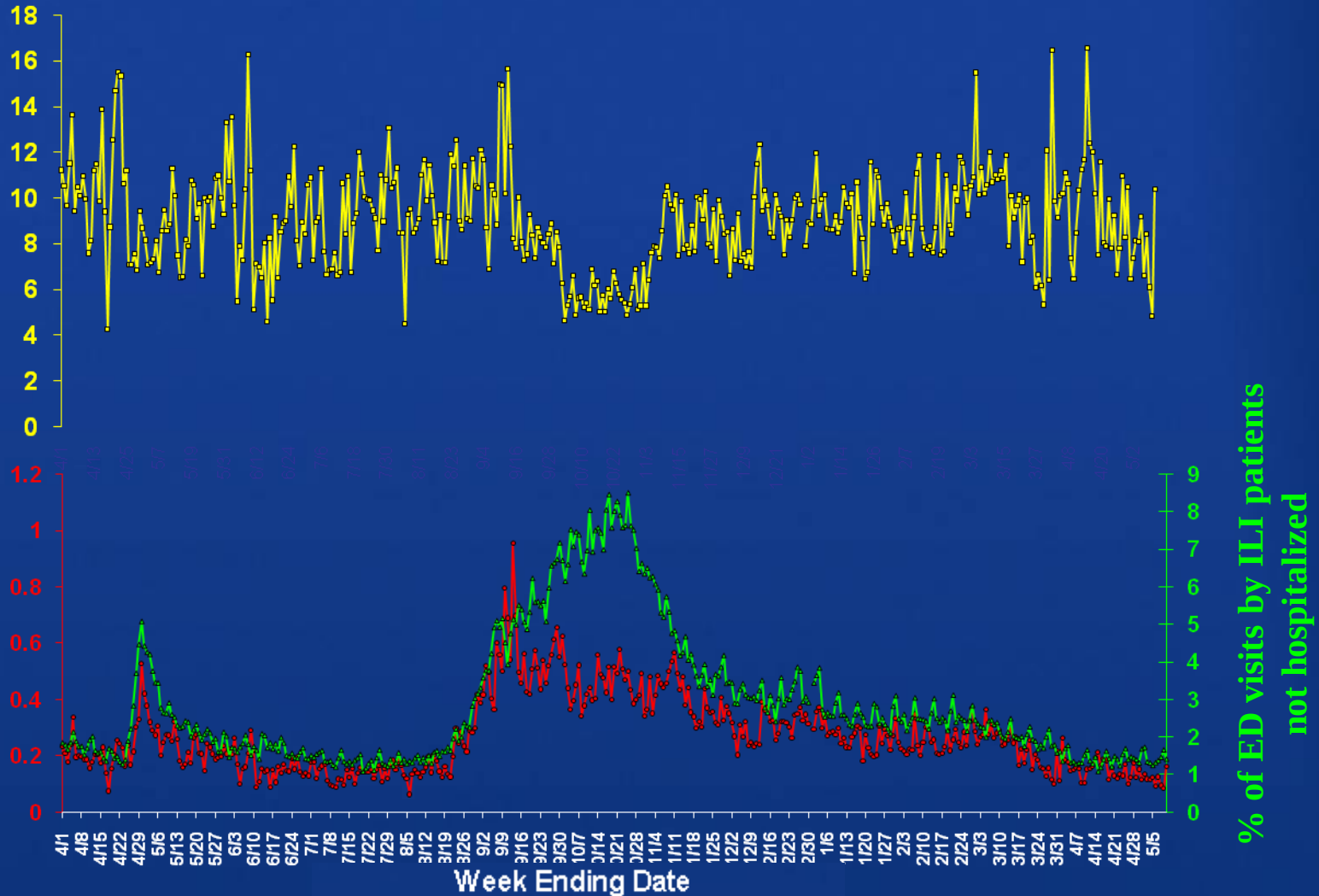
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BioSense

BioSense Emergency Departments (N=238) % of ED visits due to ILI and % of ILI patients hospitalized: U.S., April 1, 2009 to May 10, 2010

% of ILI patients
hospitalized

% of ED visits by ILI patients
who were hospitalized



% of ED visits by ILI patients
not hospitalized

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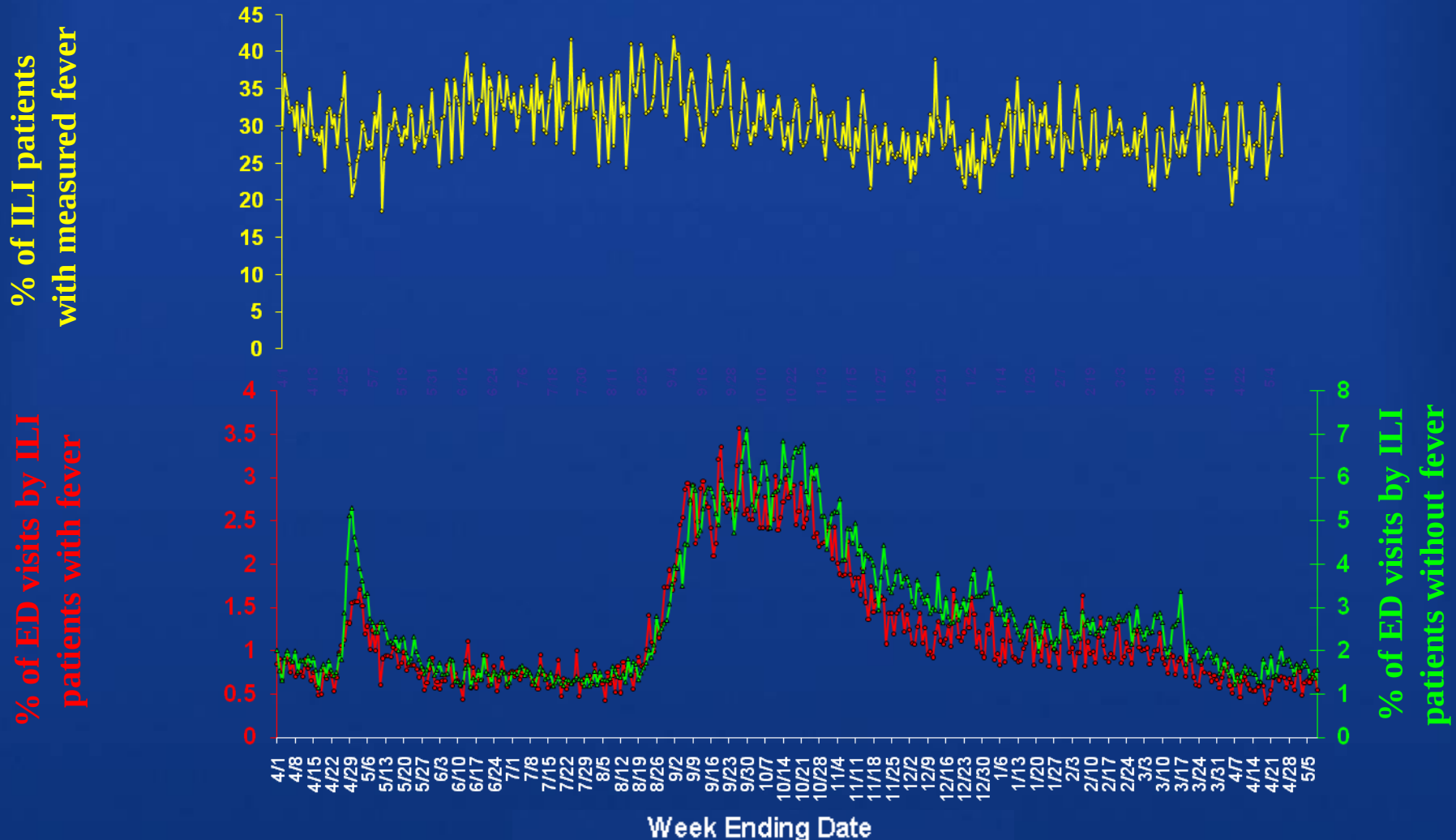
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BioSense

BioSense Emergency Departments (N=57) % of ED visits due to ILI and % of ILI patients with fever: U.S., April 1, 2009 to May 9, 2010



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Health Department Syndromic Surveillance: Distribute Project

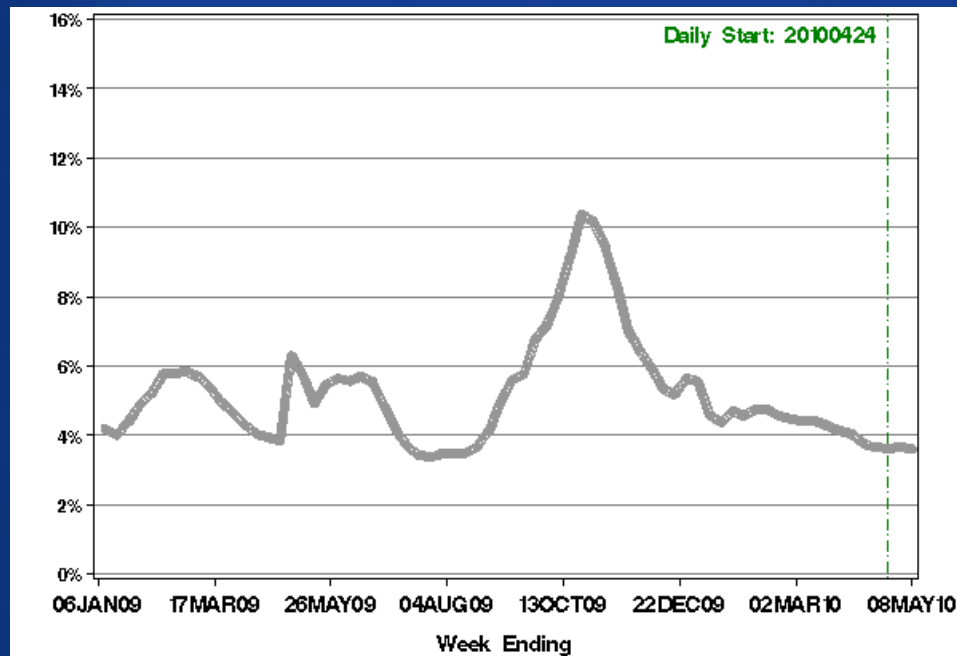
Notes to accompany following slides

- For information regarding participating health departments & ILI data from individual health departments, see:
 - CDC Intranet site:
http://nile.cdc.gov:8080/biodocs/biosense_reports/distribute/distribute_viewer.htm
 - International Society for Disease Surveillance public-access site
<http://ISDSdistribute.org>

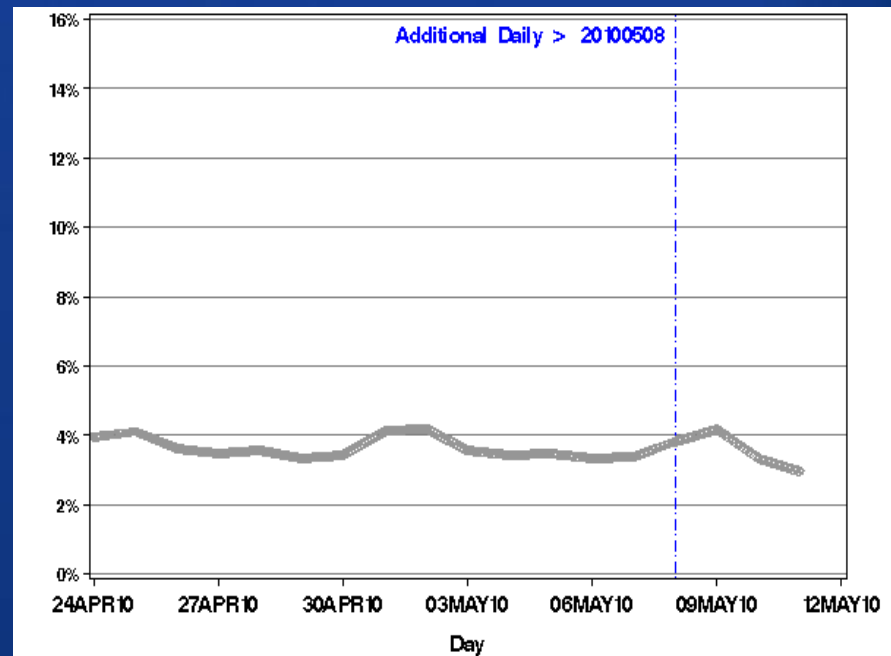
Health Department Syndromic Surveillance: Distribute Project Aggregate Data: 33 Health Departments (Weighted)

% of ED Visits due to ILI (Weighted Estimate based on Total ED Visits in Jurisdiction, AHA Survey)

By Week, through MMWR Week Ending 8 May 2010



By Day, 24 Apr 2010 through 11 May 2010
(Vertical line depicts end of weekly view)



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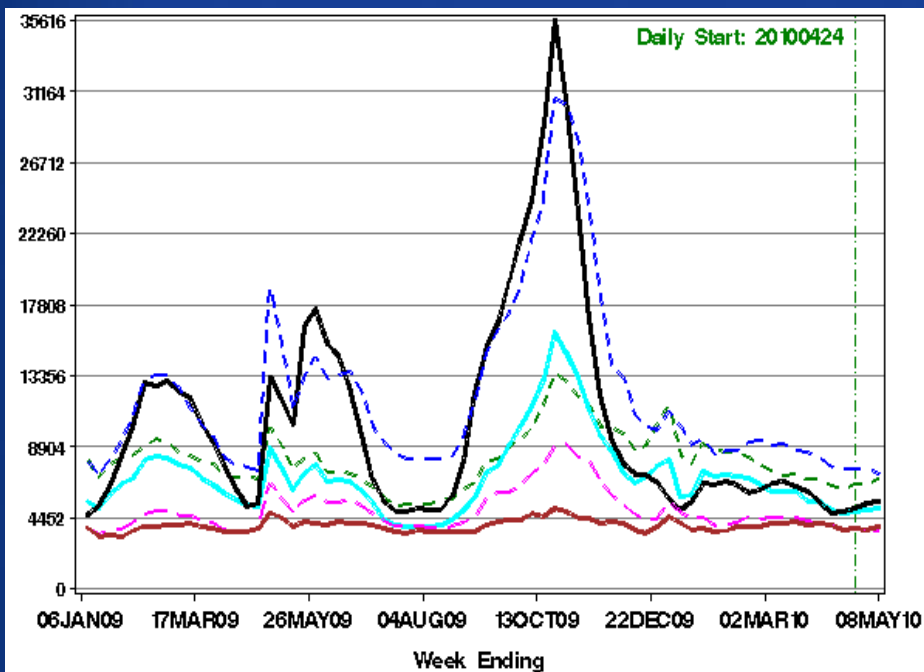
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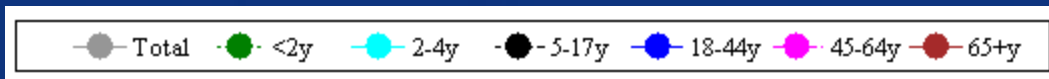
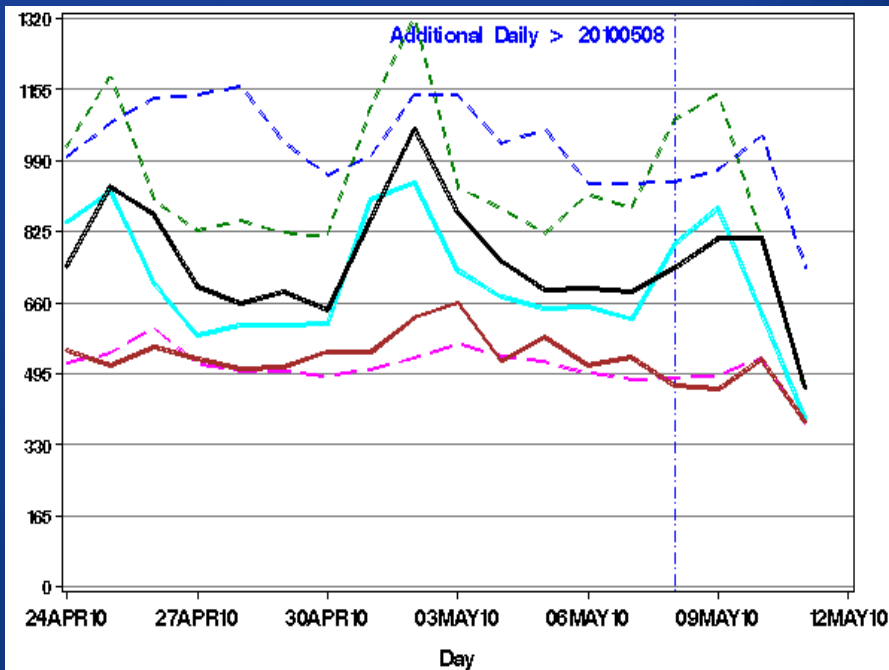
Health Department Syndromic Surveillance: Distribute Project Aggregate Data: 33 Health Departments (with complete reporting through 5/11/10)

Number of ED Visits due to ILI, by Age Group

By Week, through MMWR Week Ending 8 May 2010



By Day, 24 Apr 2010 through 11 May 2010
(Vertical line depicts end of weekly view)



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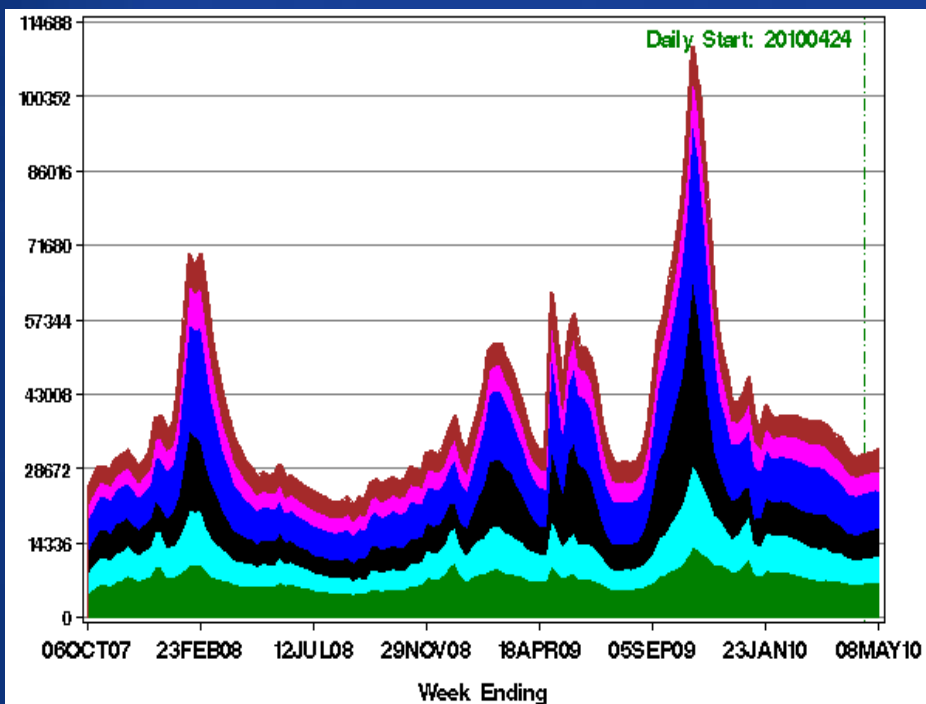
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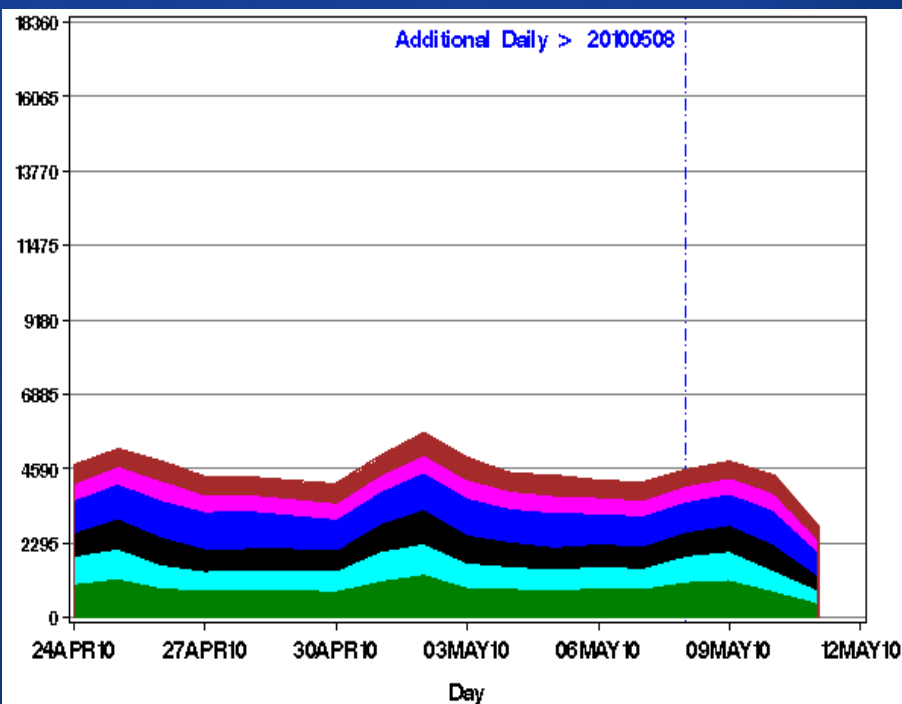
Health Department Syndromic Surveillance: Distribute Project Aggregate Data: 33 Health Departments (with complete reporting through 5/11/10)

Cumulative Number of ED Visits due to ILI, by Age Group

By Week, through MMWR Week Ending 8 May 2010



By Day, 24 Apr 2010 through 11 May 2010
(Vertical line depicts end of weekly view)



—●— Total —●— <2y —●— 2-4y —●— 5-17y —●— 18-44y —●— 45-64y —●— 65+y

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Joint Information Center (JIC)
2009 H1N1 Headlines: May 13, 2010



2009 H1N1 Headlines (5/6-5/13)

**GSK agrees to cut Dutch H1N1
vaccine order (5/12)**

**WHO panel to review H1N1 pandemic status
in coming weeks (5/11)**

**Cadila gets nod for H1N1
vaccine in India (5/12)**

**Dutch Govt Cancels Part Of Swine Flu
Vaccine Order From Glaxo (5/12)**

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