



Director's Update Brief novel 2009-H1N1

**Friday
7 MAY 2010**

**Day 388 / Month 12
Day 215 of Vaccination**

novel 2009-H1N1 --7 MAY 2010

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Epidemiology / Surveillance

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Epidemiology/Surveillance Surveillance Systems Summary

- ***WHO/NREVSS Collaborating Laboratories***
 - Influenza A(H3N2) and B viruses co-circulated with 2009 H1N1 viruses
 - % of specimens testing positive for influenza decreased
- ***ILINet (week ending 1 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: 4 states	Sporadic: 27 states + PR + Guam + DC
– None: 19 states	No Report: US Virgin Islands



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ILI Syndromic Surveillance

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 17
No. of specimens tested	1770
No. of positive specimens (%)	16 (0.9%)
<i>Positive specimens by type/subtype</i>	
Influenza A	11(68.8%)
A (2009 H1N1)	8 (72.7%)
A (subtyping not performed)	3 (27.3%)
A (unable to subtype)	0 (0.0%)
A (H3)	0 (0.0%)
A (H1)	0 (0.0%)
Influenza B	5 (31.2%)



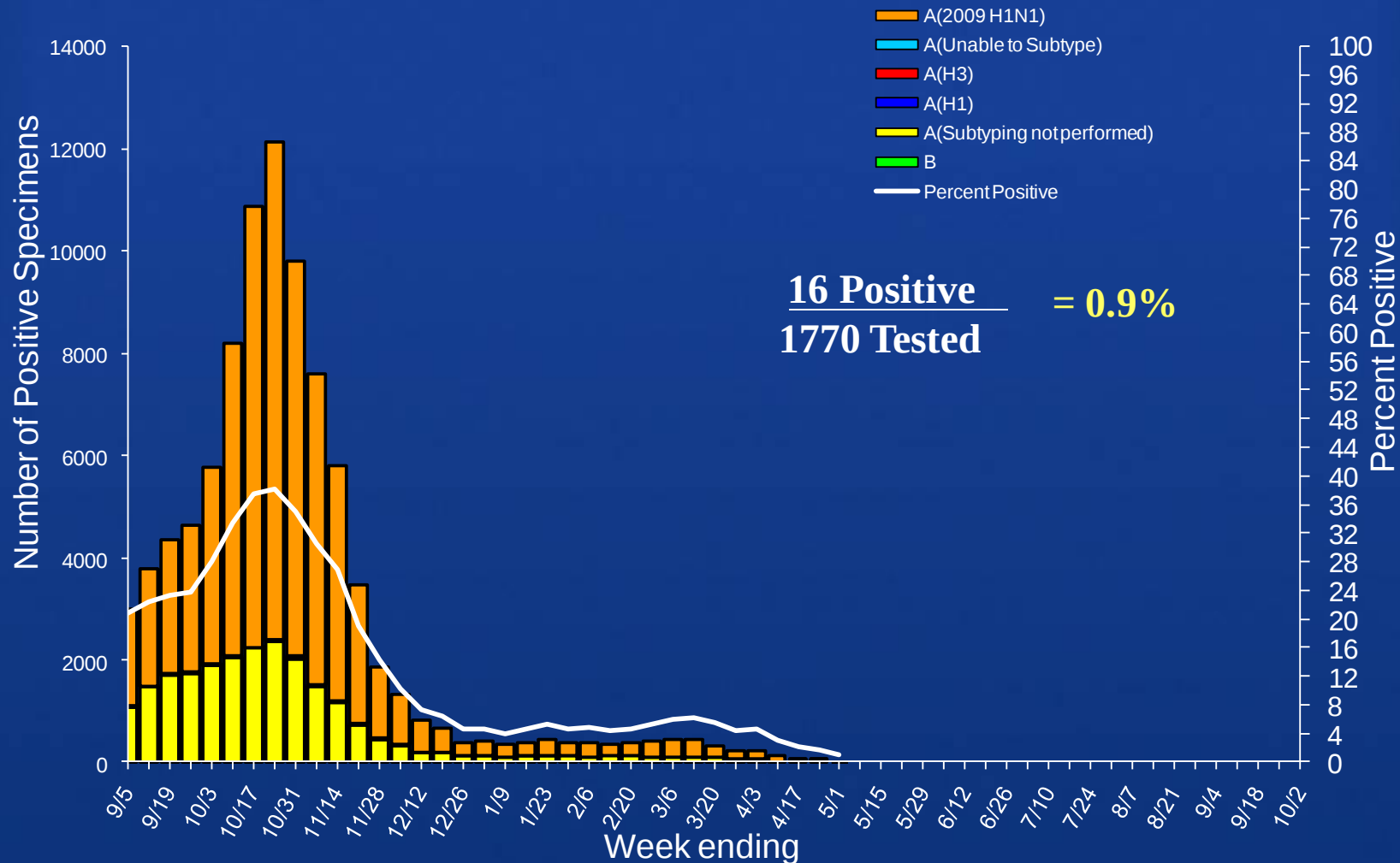
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Epidemiology/Surveillance

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



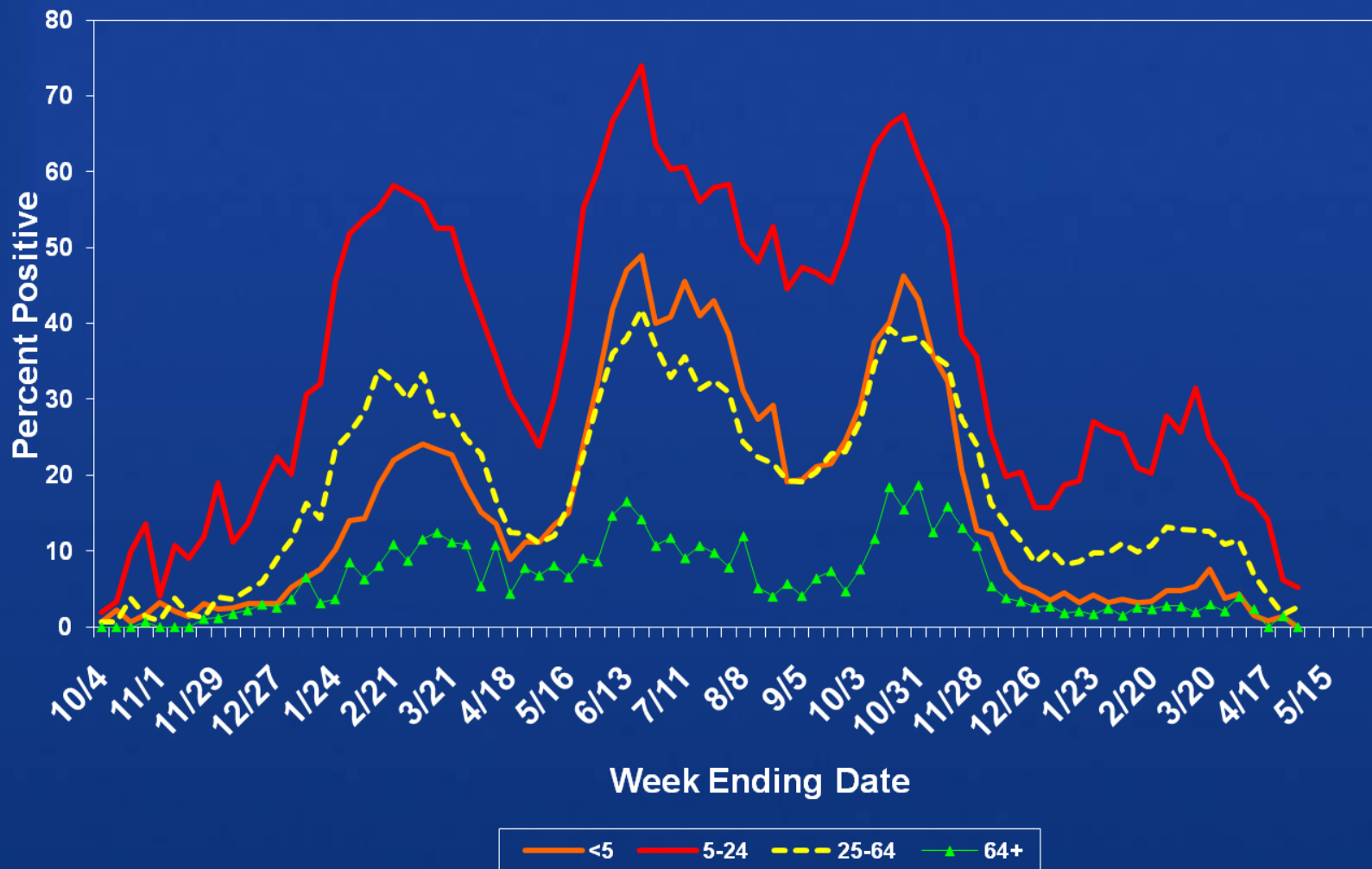
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Epidemiology/Surveillance

Percent of Specimens Positive for Influenza Reported by WHO Collaborating Laboratories by Week and Age Category



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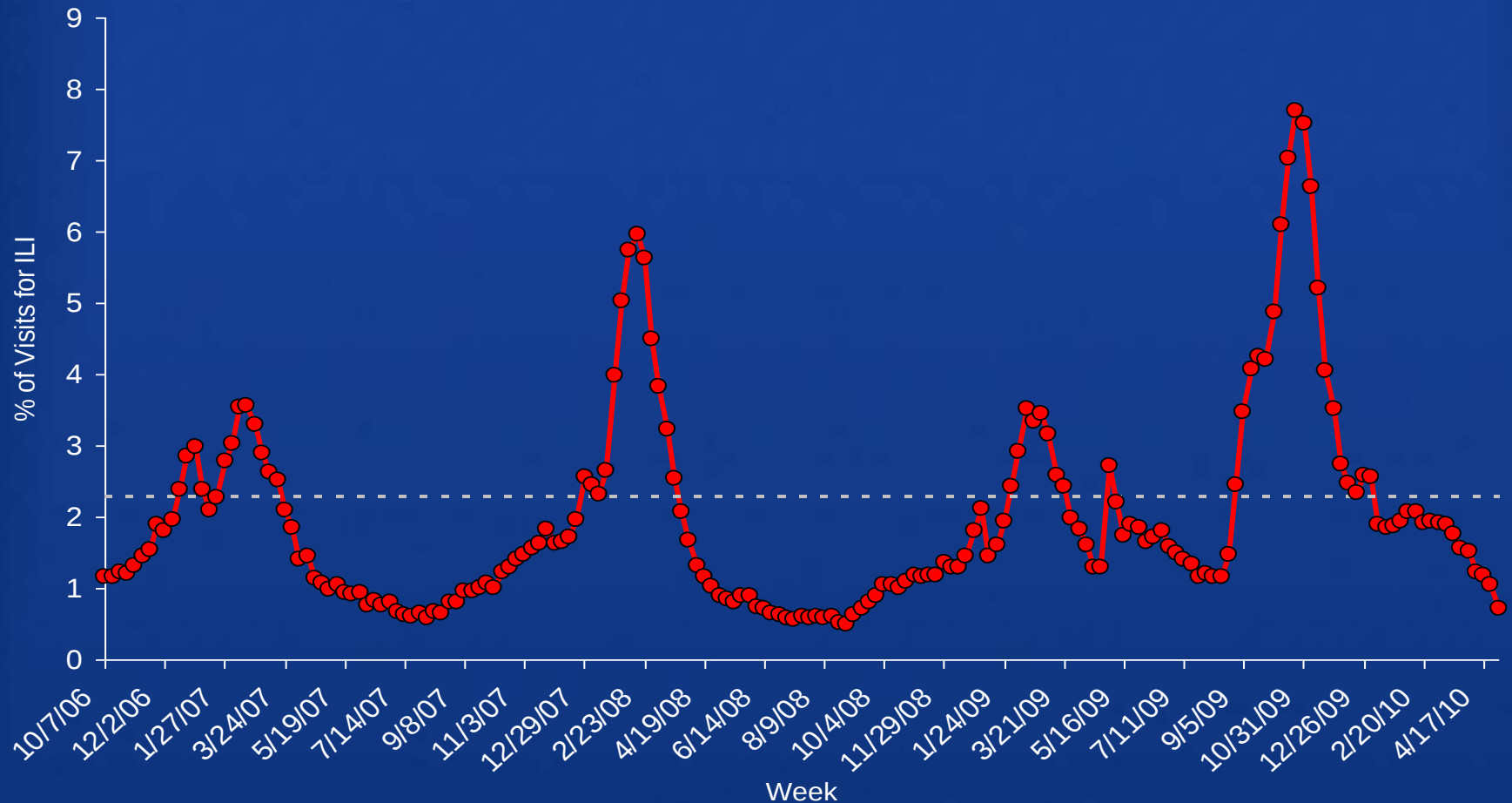
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ILI Syndromic Surveillance

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 1, 2010



● % ILI - - - National Baseline

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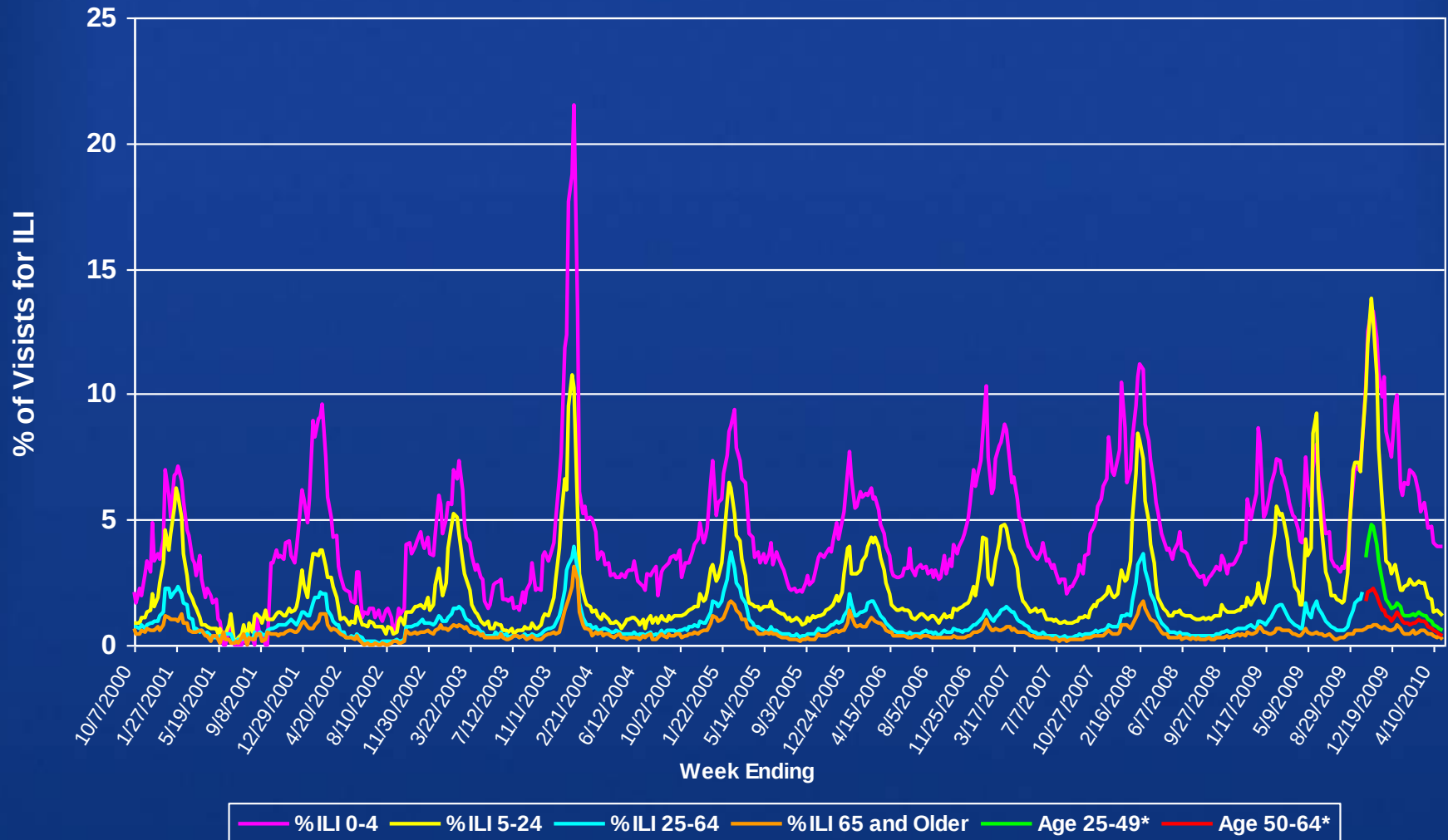
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Epidemiology/Surveillance

Percentage of Visits for ILI Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), National Summary 2000-01 through 2009-10 by Age Group data as of week ending 1 May, 2010



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* New age categories added October 10, 2009

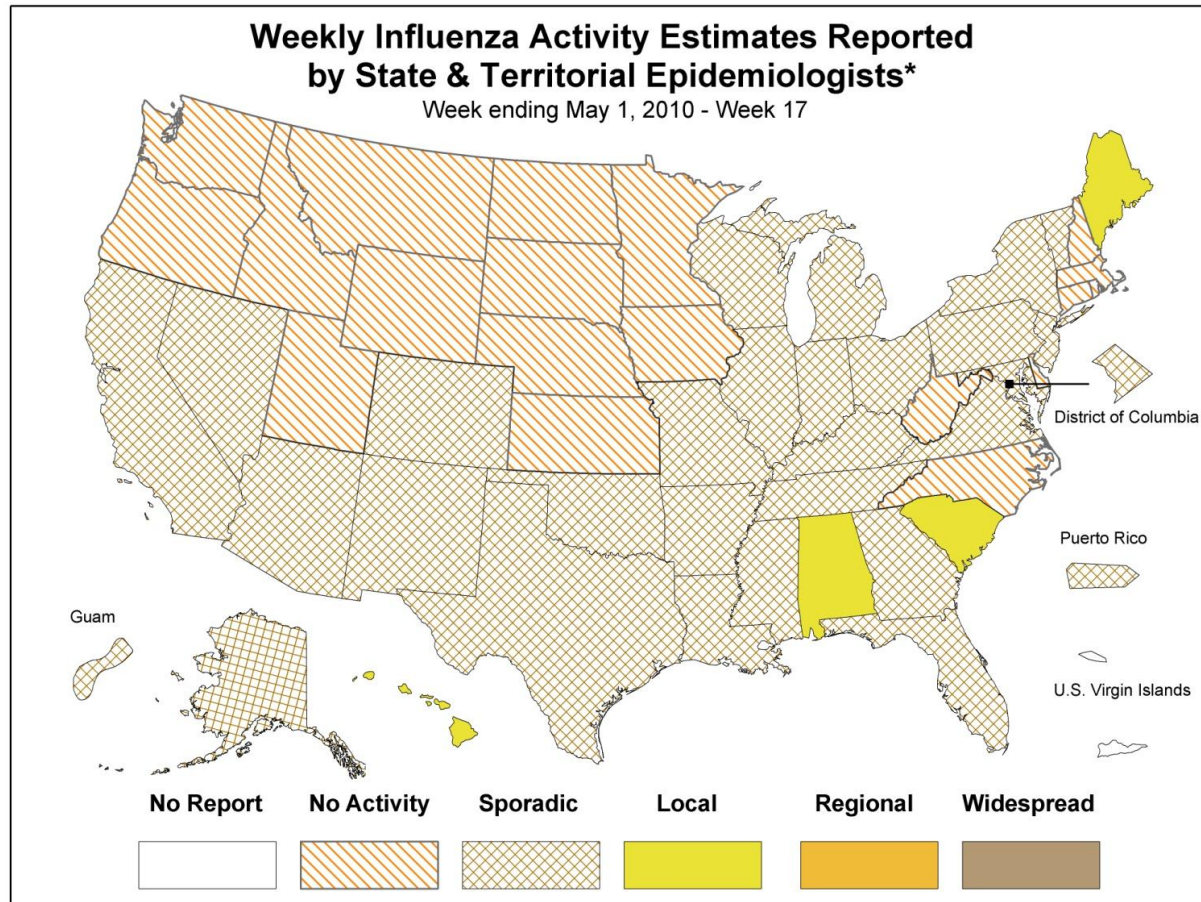
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Epidemiology/Surveillance

Weekly Influenza Activity Reported by SLTT's



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

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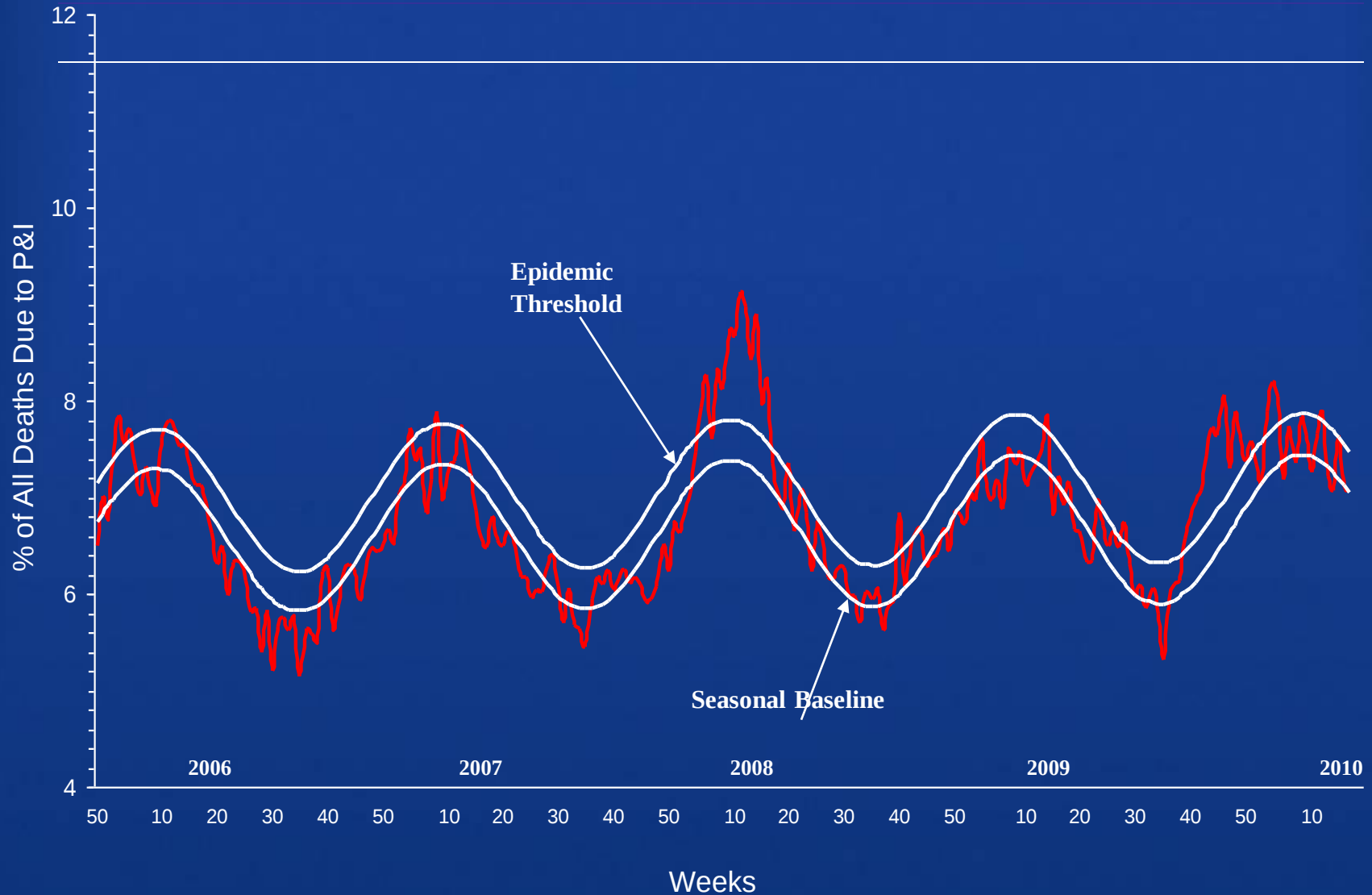
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Mortality

Epidemiology/Surveillance

Pneumonia and Influenza Mortality for 122 U.S. Cities -Week Ending 1 MAY 2010



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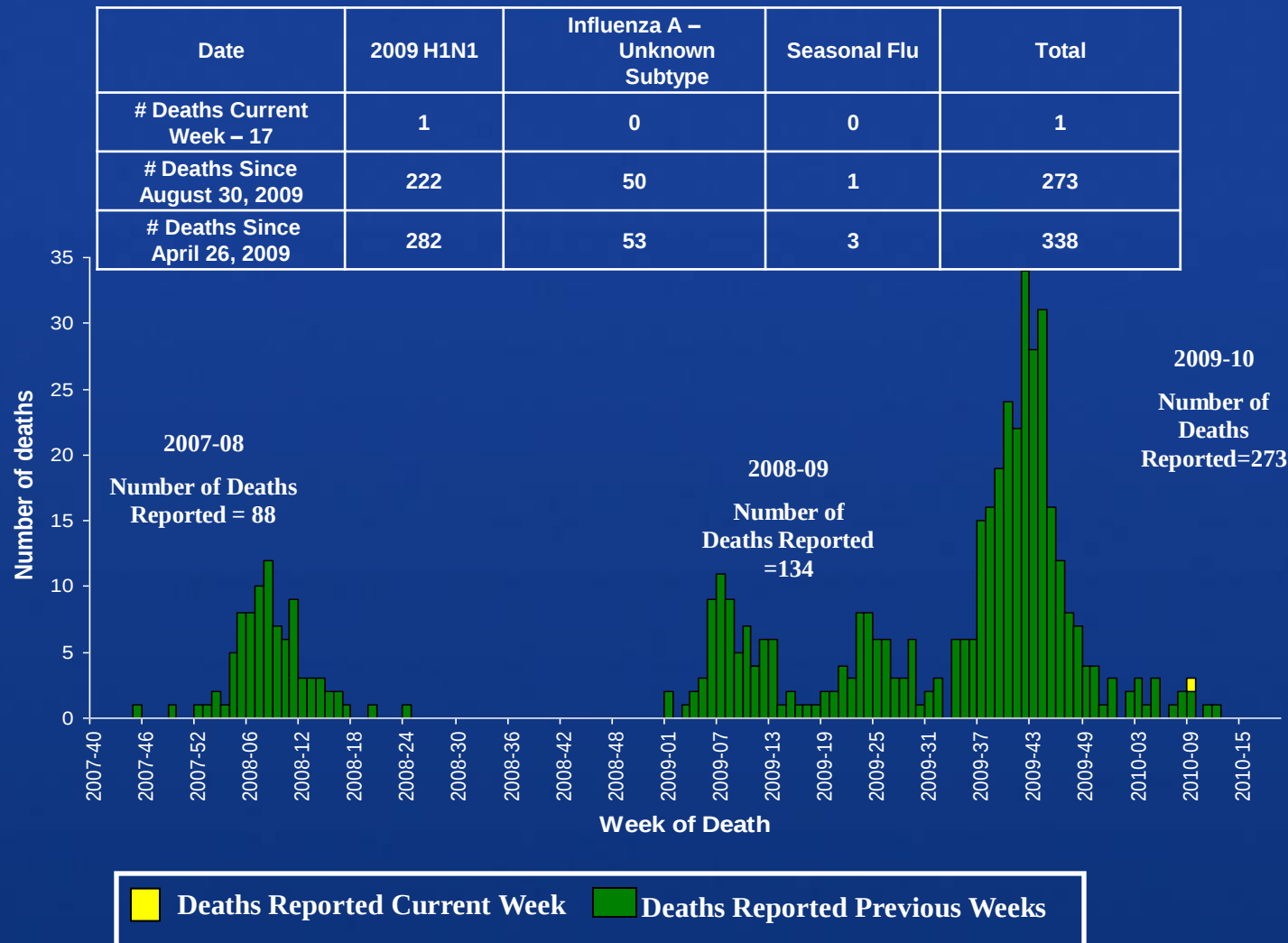
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Epidemiology/Surveillance

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



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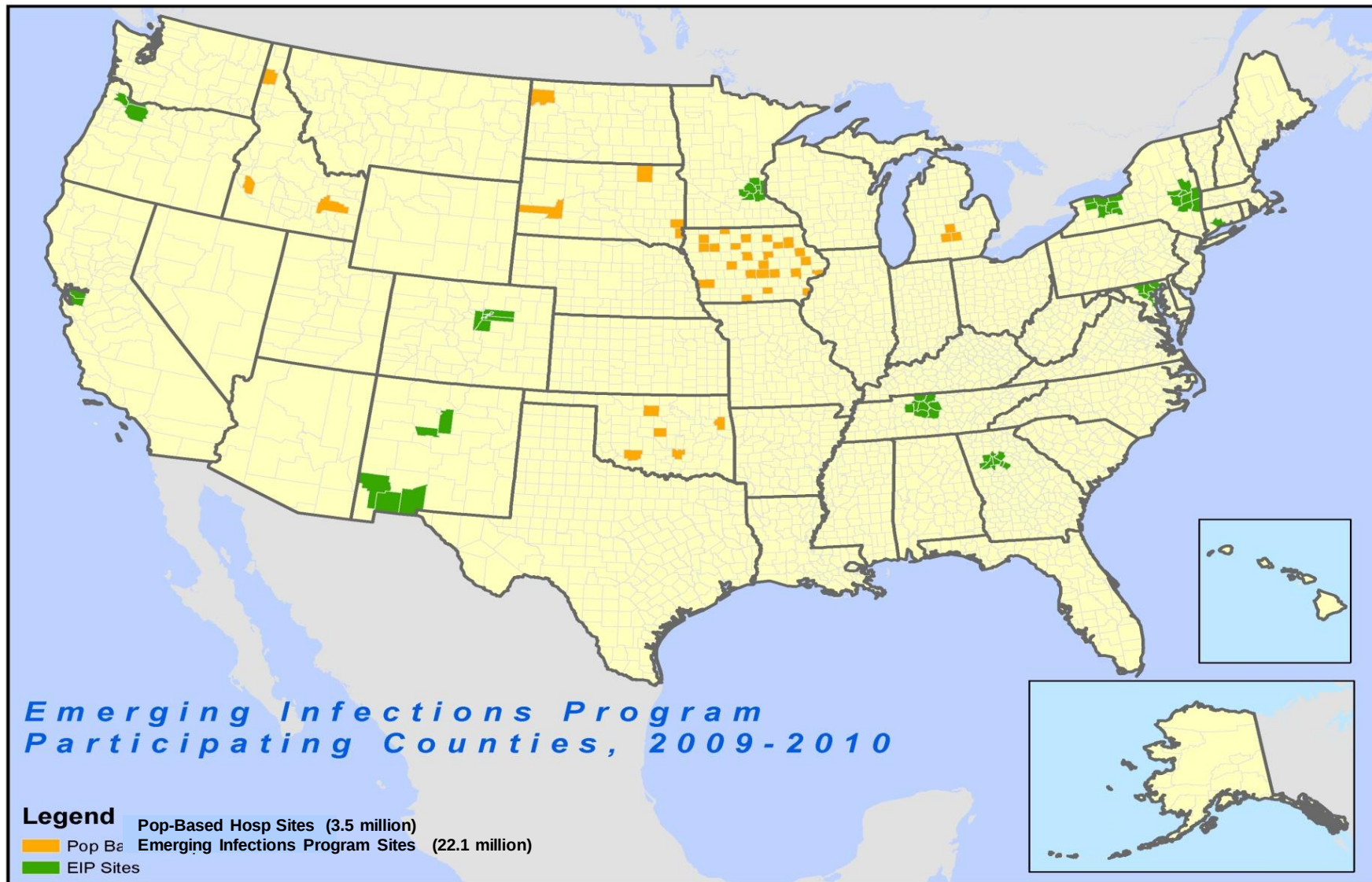
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Hospitalization

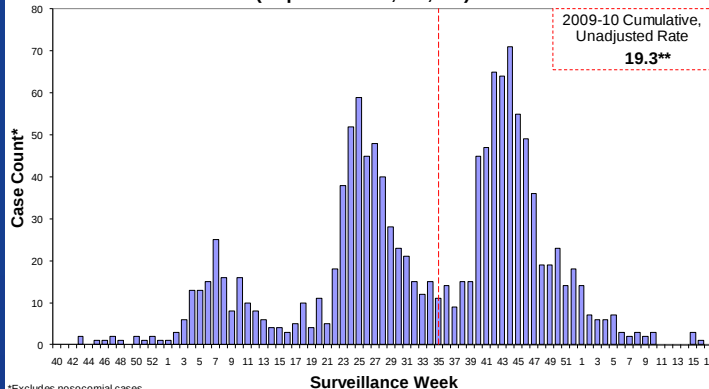
Laboratory-Confirmed Influenza Hospitalization Surveillance, 2009-2010



Epidemiology/Surveillance

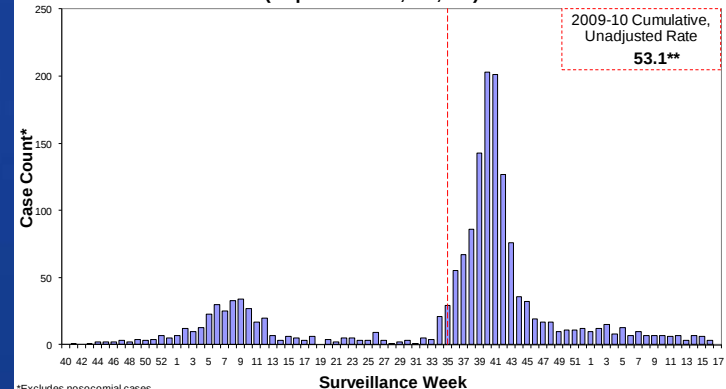
EIP Counts by Week by Site

**CALIFORNIA: EIP All Ages Influenza Hospitalizations*,
by Week of Admission, Oct 1, 2009 - May 4, 2010**
(Population = 3,313,047)



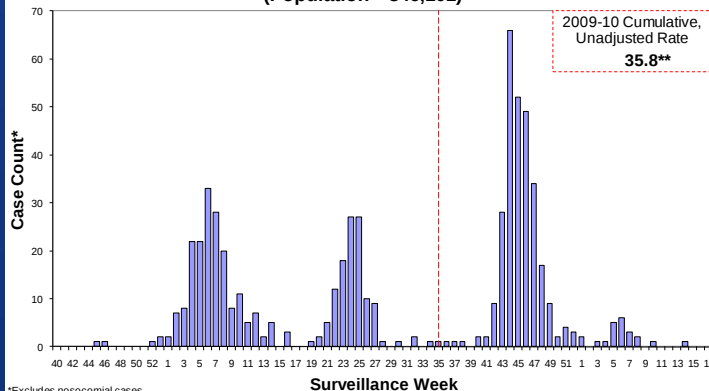
*Excludes nosocomial cases
**Rate per 100,000

**COLORADO: EIP All Ages Influenza Hospitalizations*,
by Week of Admission, Oct 1, 2009 - May 4, 2010**
(Population = 2,397,785)



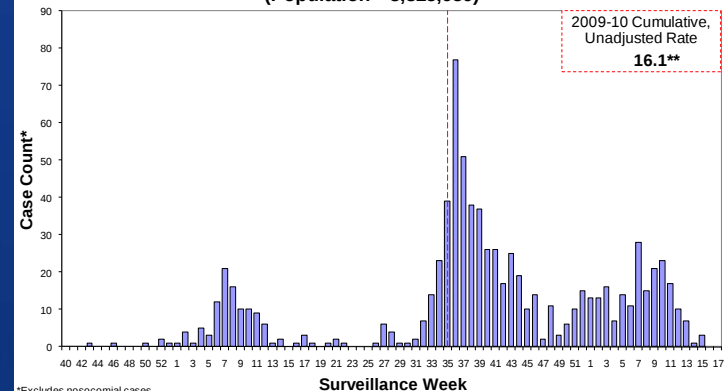
*Excludes nosocomial cases
**Rate per 100,000

**CONNECTICUT: EIP All Ages Influenza Hospitalizations*,
by Week of Admission, Oct 1, 2009 - May 4, 2010**
(Population = 846,101)



*Excludes nosocomial cases
**Rate per 100,000

**GEORGIA: EIP All Ages Influenza Hospitalizations*,
by Week of Admission, Oct 1, 2009 - May 4, 2010**
(Population = 3,825,959)



*Excludes nosocomial cases
**Rate per 100,000

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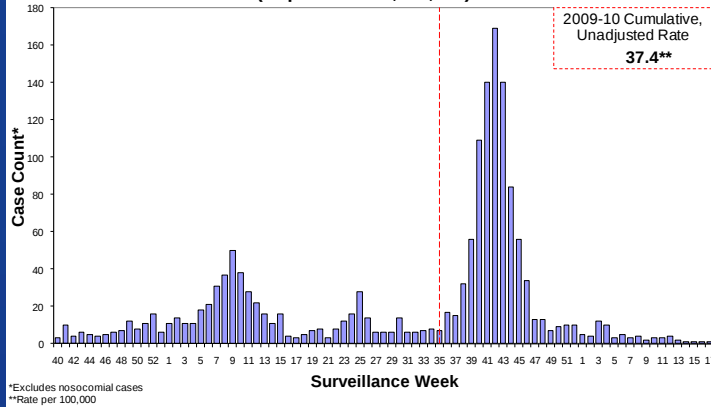
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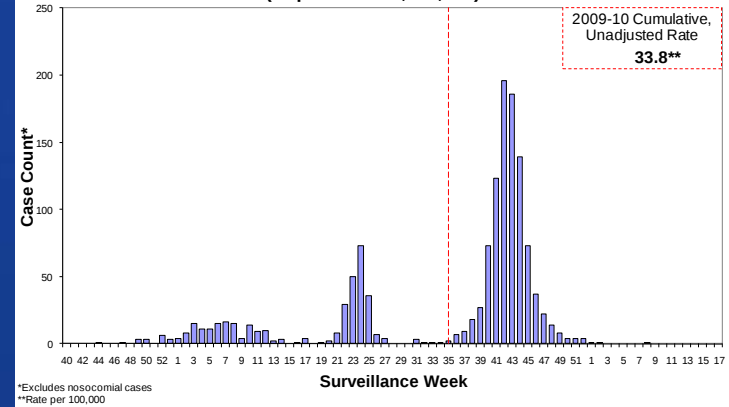
Epidemiology/Surveillance

EIP Counts by Week by Site

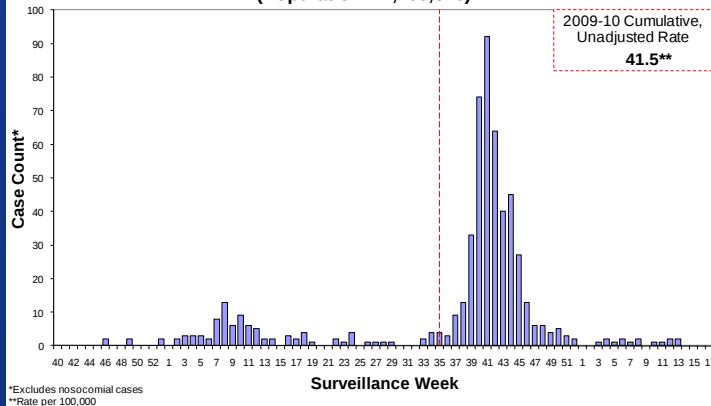
**MARYLAND: EIP All Ages Influenza Hospitalizations*,
by Week of Admission, Oct 1, 2009 - May 4, 2010**
(Population = 2,620,026)



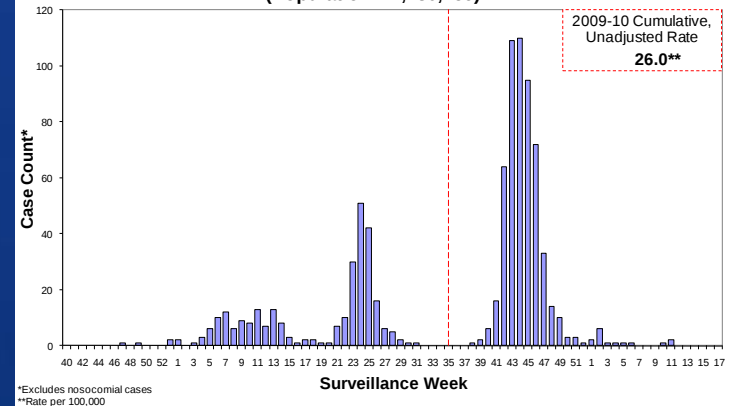
**MINNESOTA: EIP All Ages Influenza Hospitalizations*,
by Week of Admission, Oct 1, 2009 - May 4, 2010**
(Population = 2,810,414)



**NEW MEXICO: EIP All Ages Influenza Hospitalizations*,
by Week of Admission, Oct 1, 2009 - May 4, 2010**
(Population = 1,100,810)



**NEW YORK: EIP All Ages Influenza Hospitalizations*,
by Week of Admission, Oct 1, 2009 - May 4, 2010**
(Population = 2,130,159)



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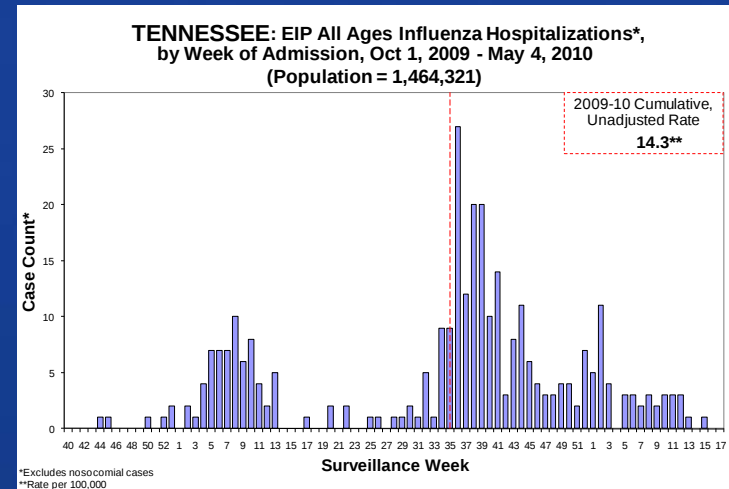
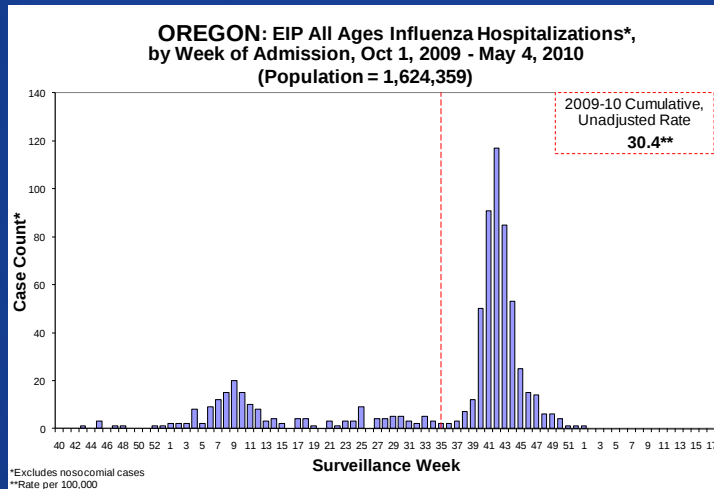
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EIP Counts by Week by Site



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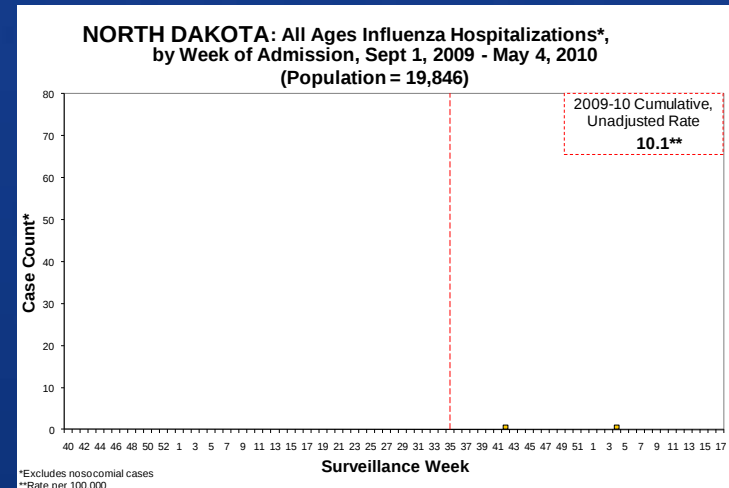
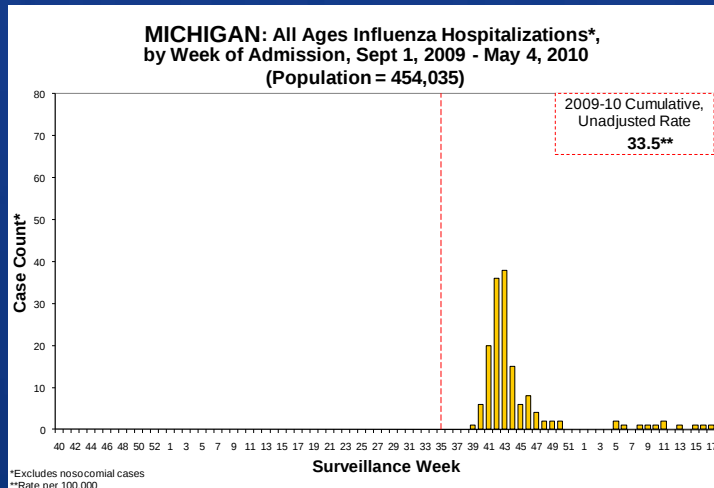
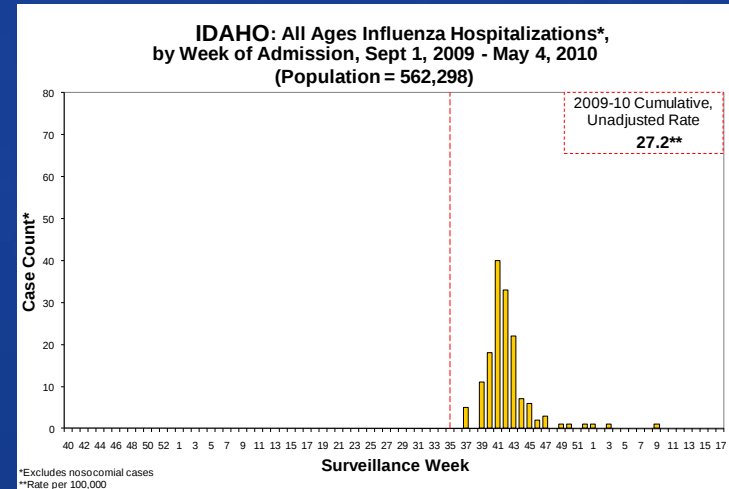
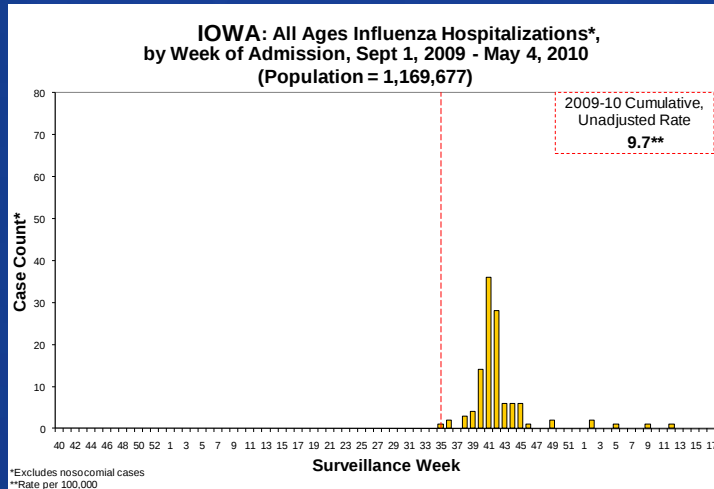
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Epidemiology/Surveillance

Influenza Hospitalization: New Sites

Counts by Week by Site



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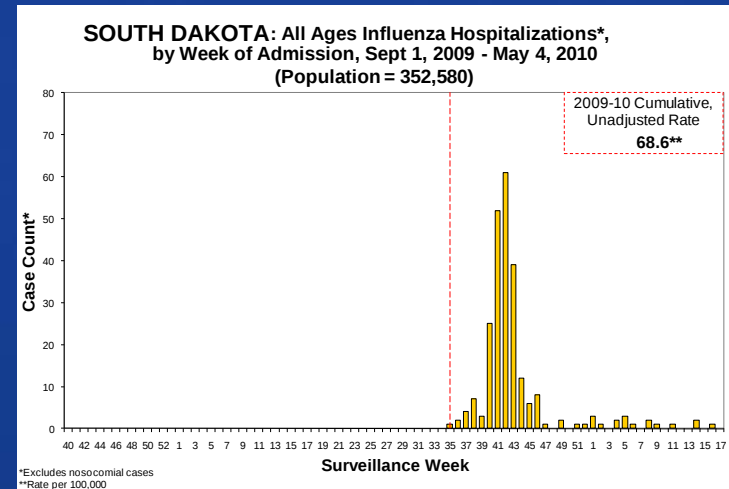
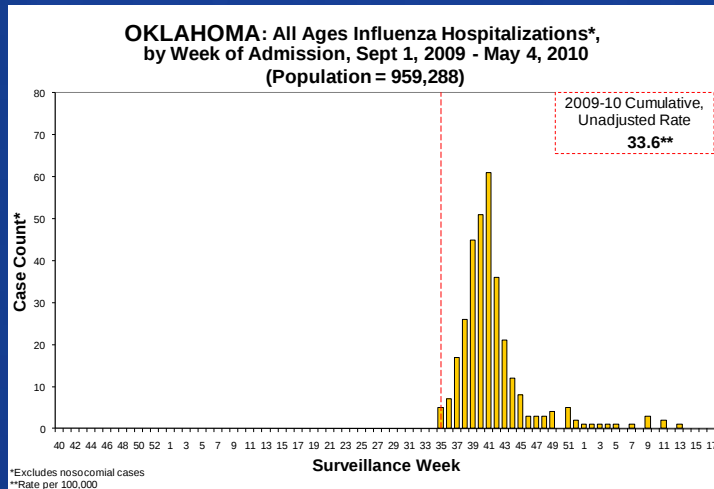
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Epidemiology/Surveillance

Influenza Hospitalization: *New Sites*

Counts by Week by Site



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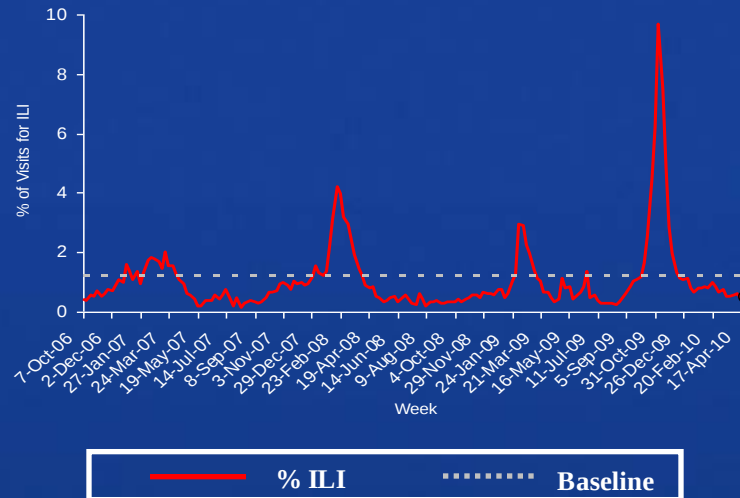
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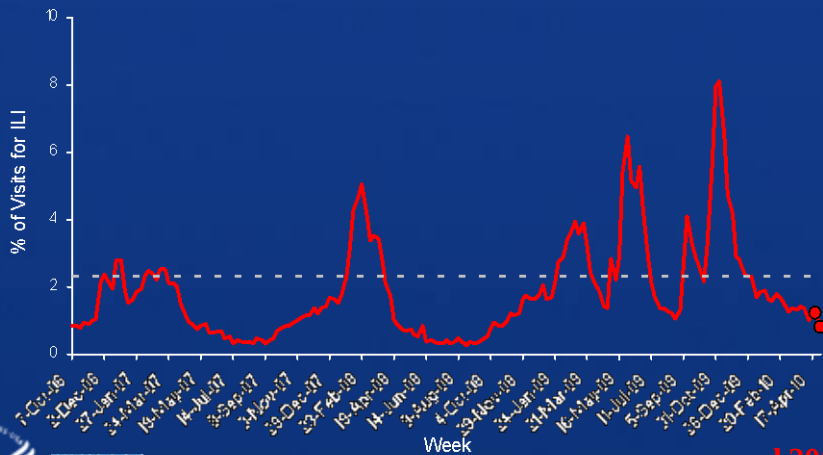
Epidemiology/Surveillance

Current Influenza Surveillance – *ILINet* Regions 1-3

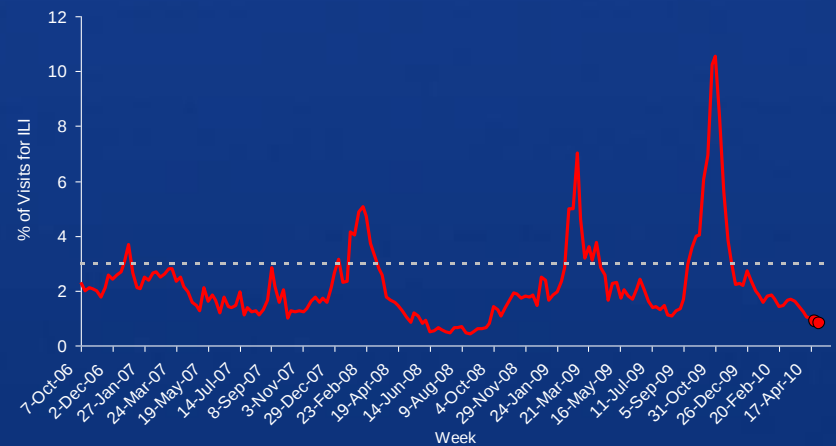
Region 1 - CT, ME, MA, NH, RI, VT



Region 2 - NJ, NY, USVI



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



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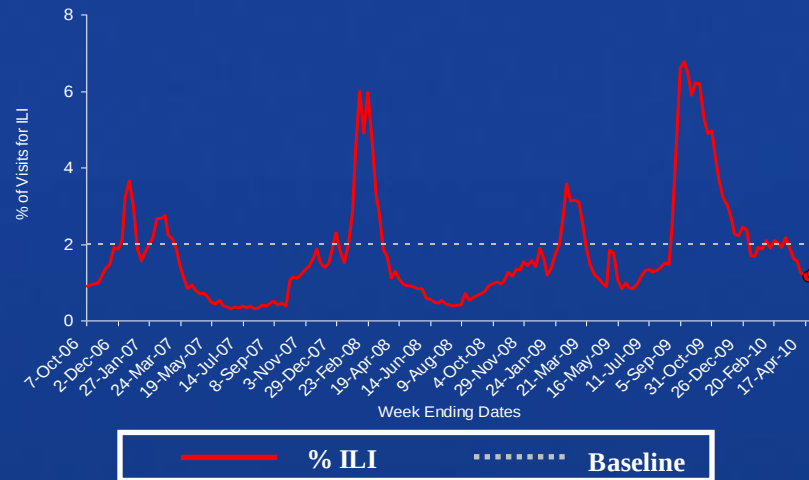
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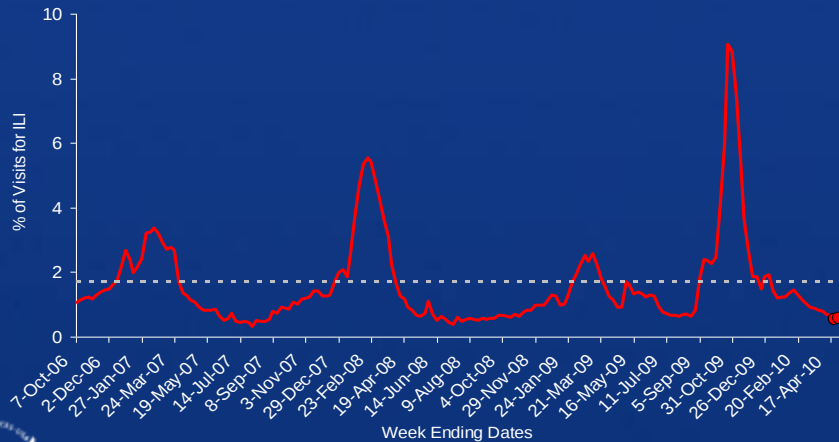
Epidemiology/Surveillance

Current Influenza Surveillance – *ILINet* Regions 4-6

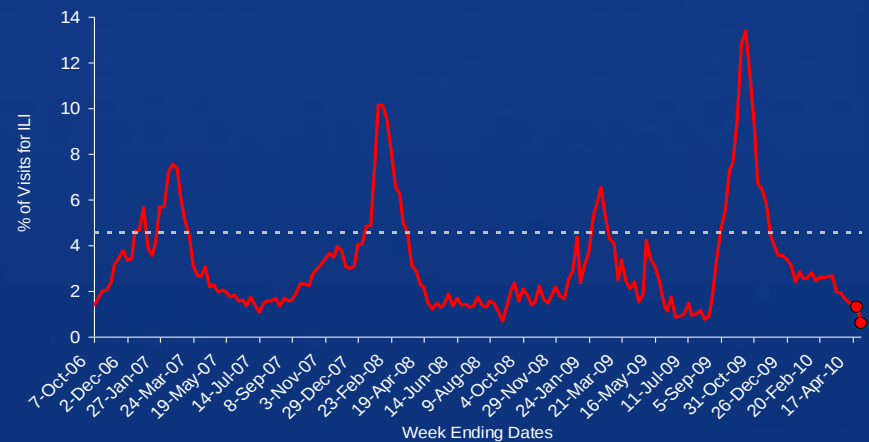
Region 4 - AL, FL, GA, KY, MS, NC, SC, TN



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



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



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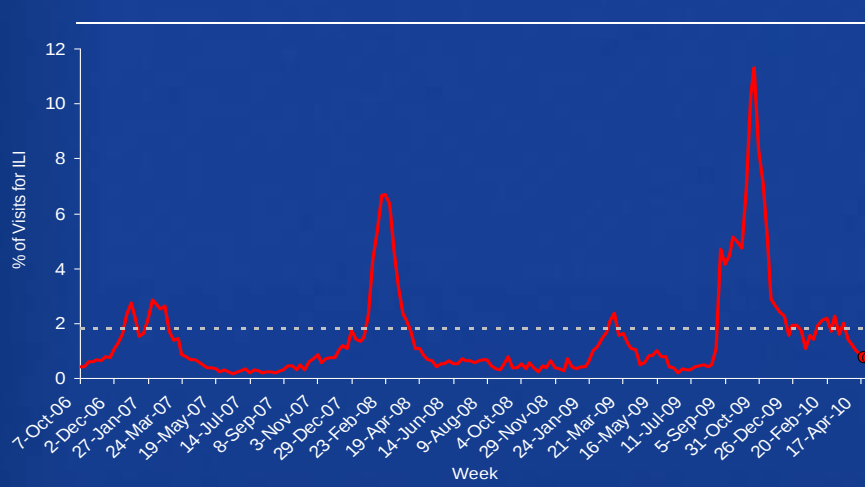
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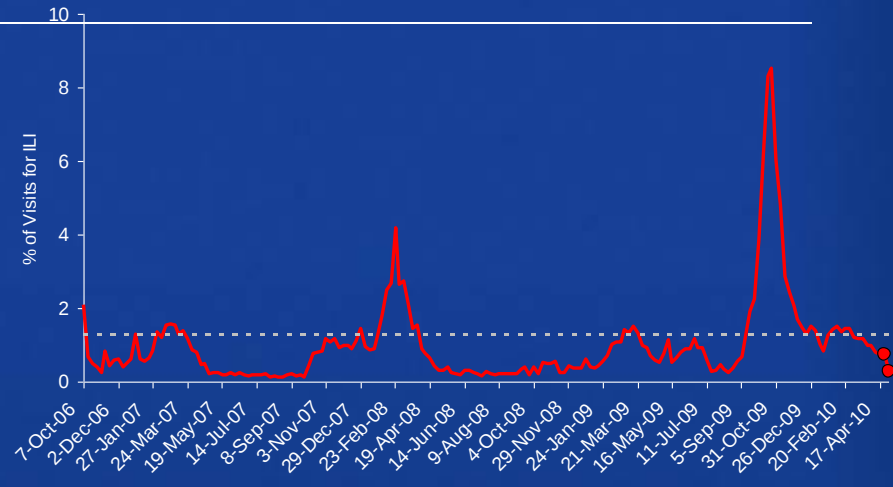
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions 7-10

Region 7 - IA, KS, MO, NE

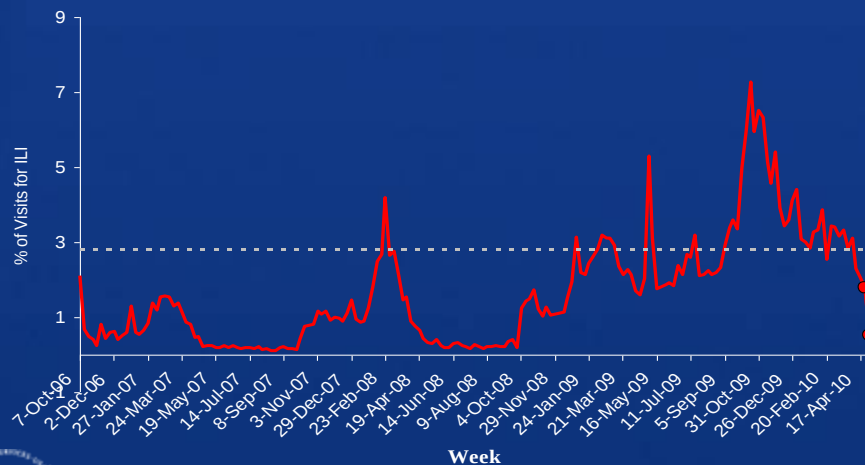


Region 8 - CO, MT, ND, SD, UT, WY

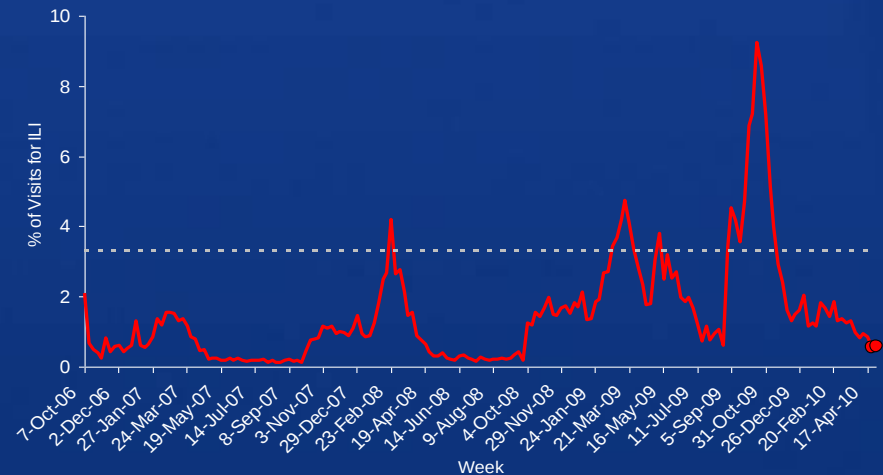


— % ILI Baseline

Region 9 - AZ, CA, HI, NV



Region 10 - AK, ID, OR, WA



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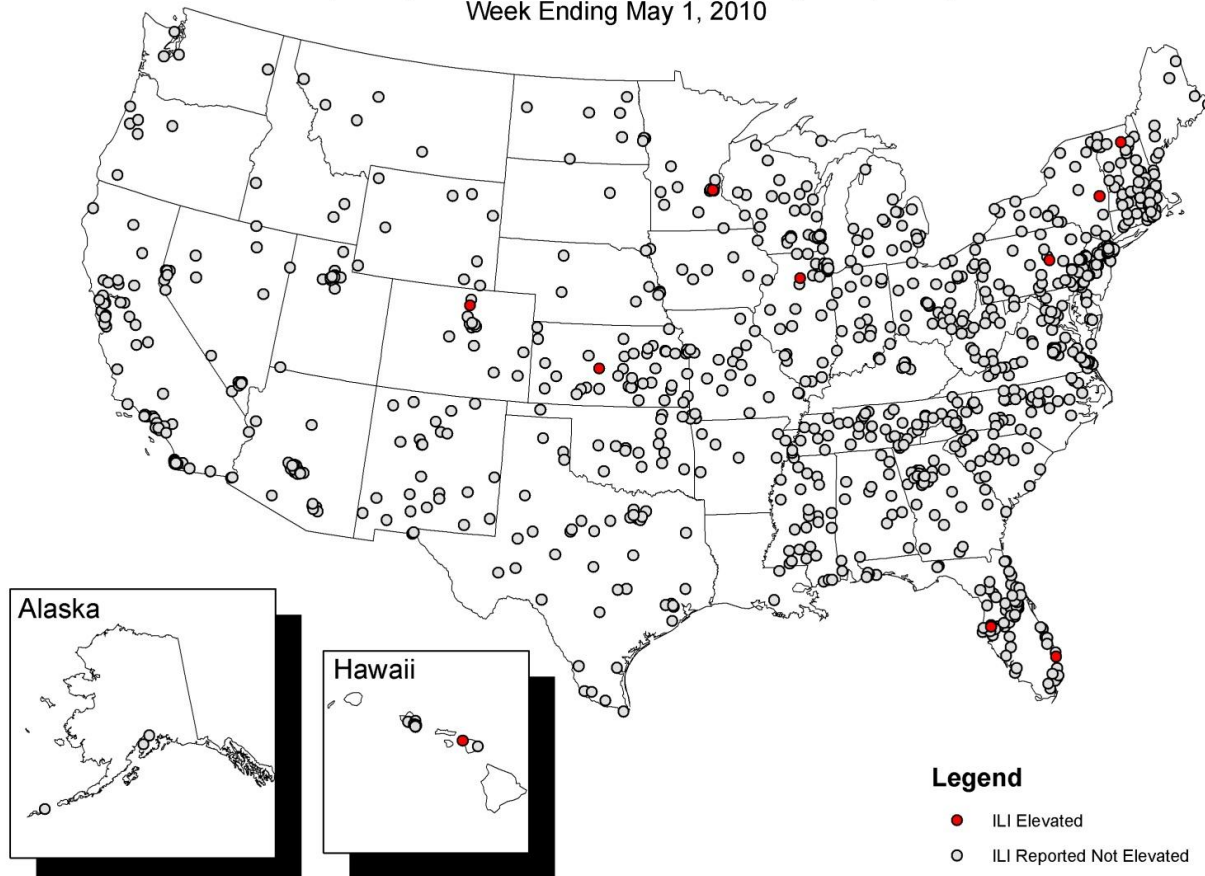
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Epidemiology/Surveillance

Influenza-like Illness (ILI) Reported from U.S. Outpatient Influenza-like Illness
Surveillance Network (ILINet)
Analyzed by the Early Aberration Reporting System (EARS)
Week Ending May 1, 2010

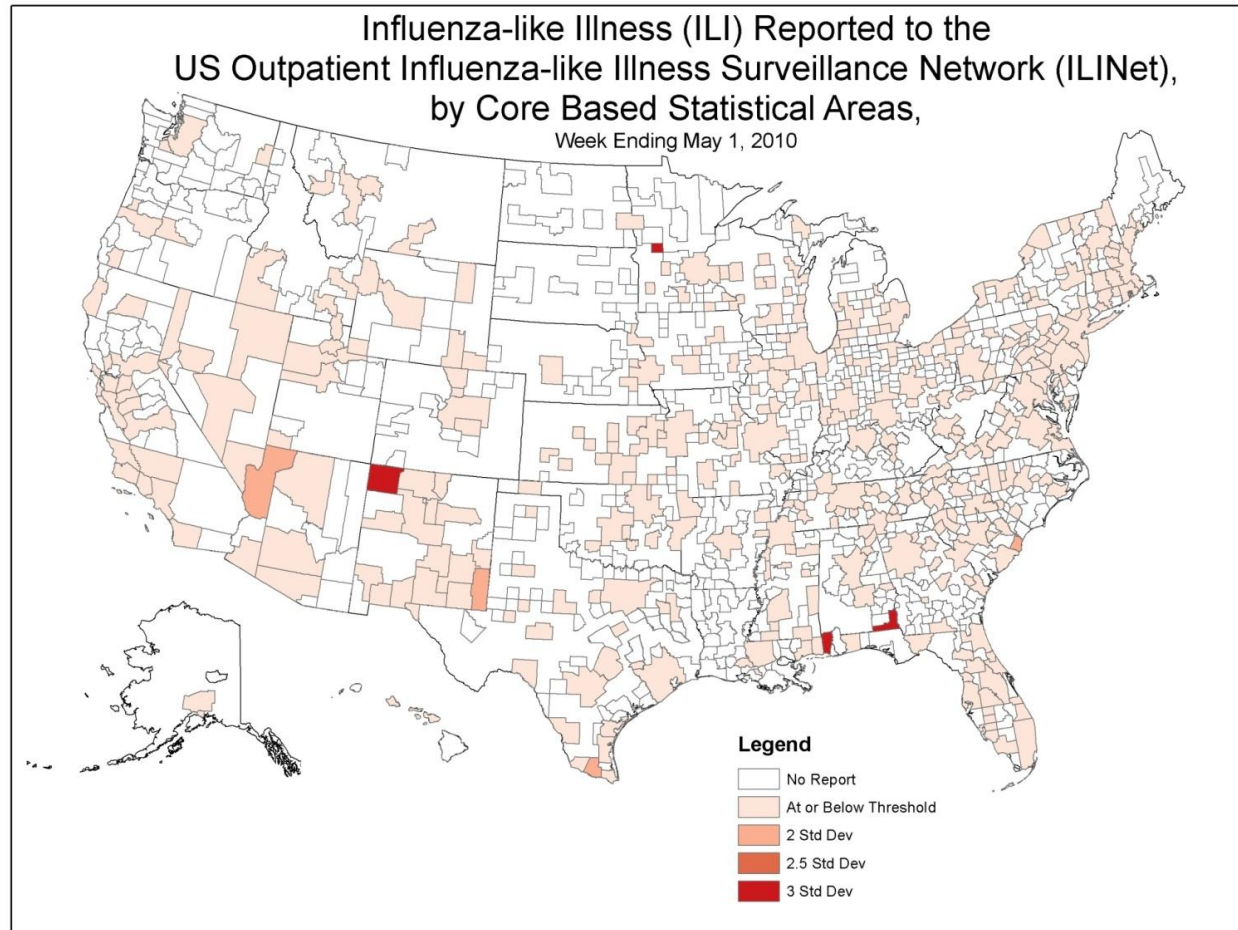


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Epidemiology/Surveillance



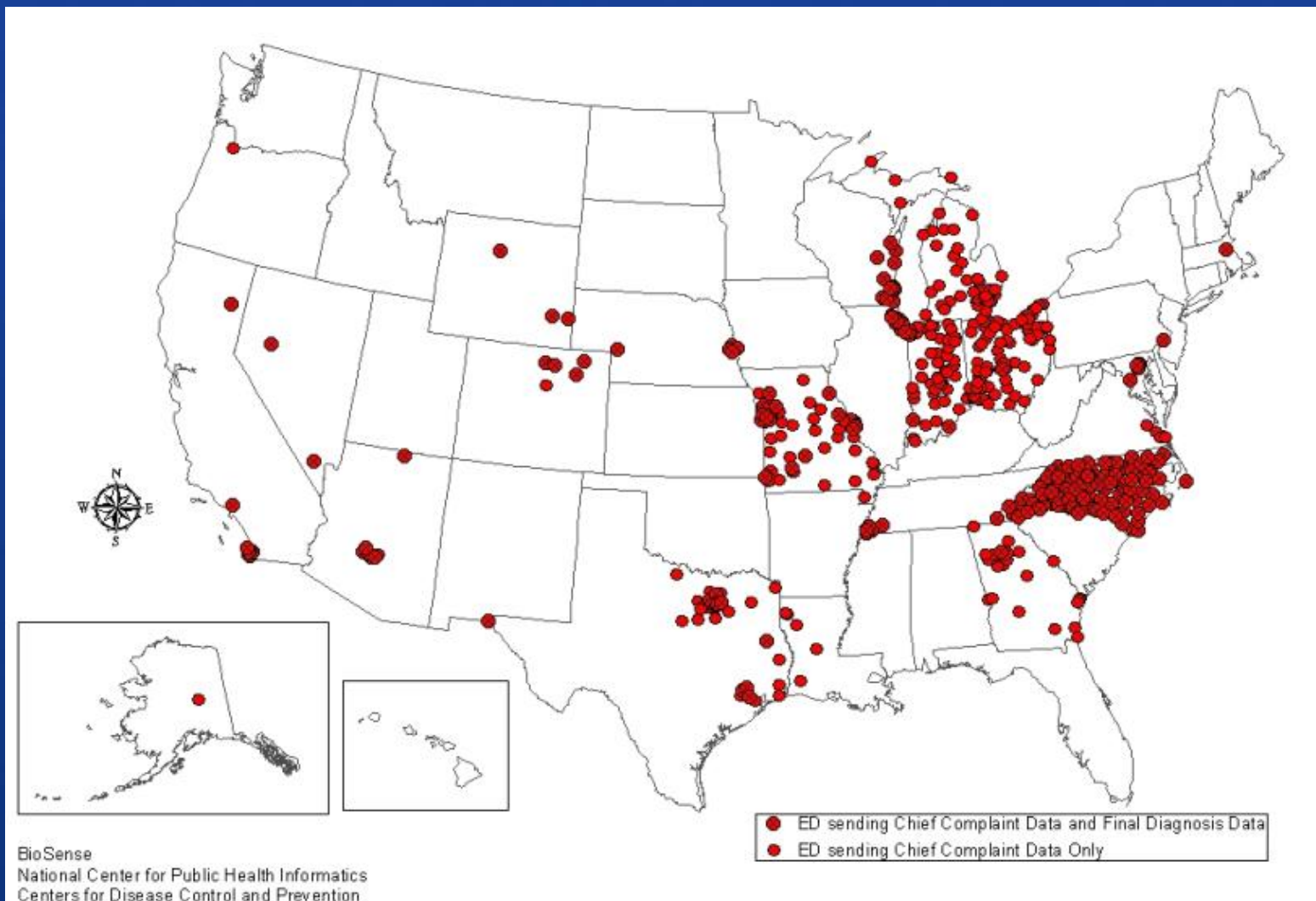
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BioSense

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



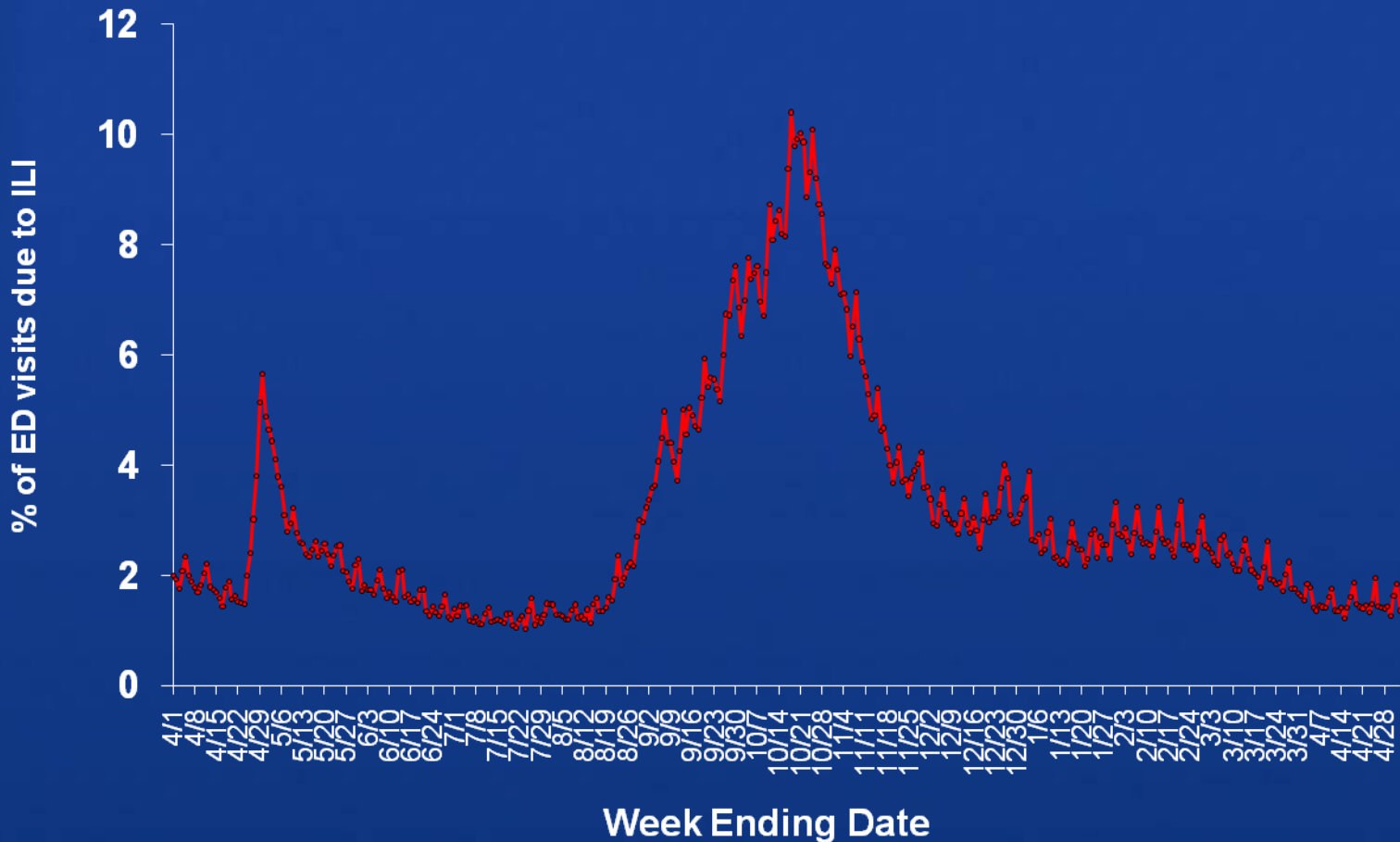
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BioSense

BioSense Emergency Departments (N=569) % of ED Visits due to ILI: U.S., April 1, 2009 to May 3, 2010



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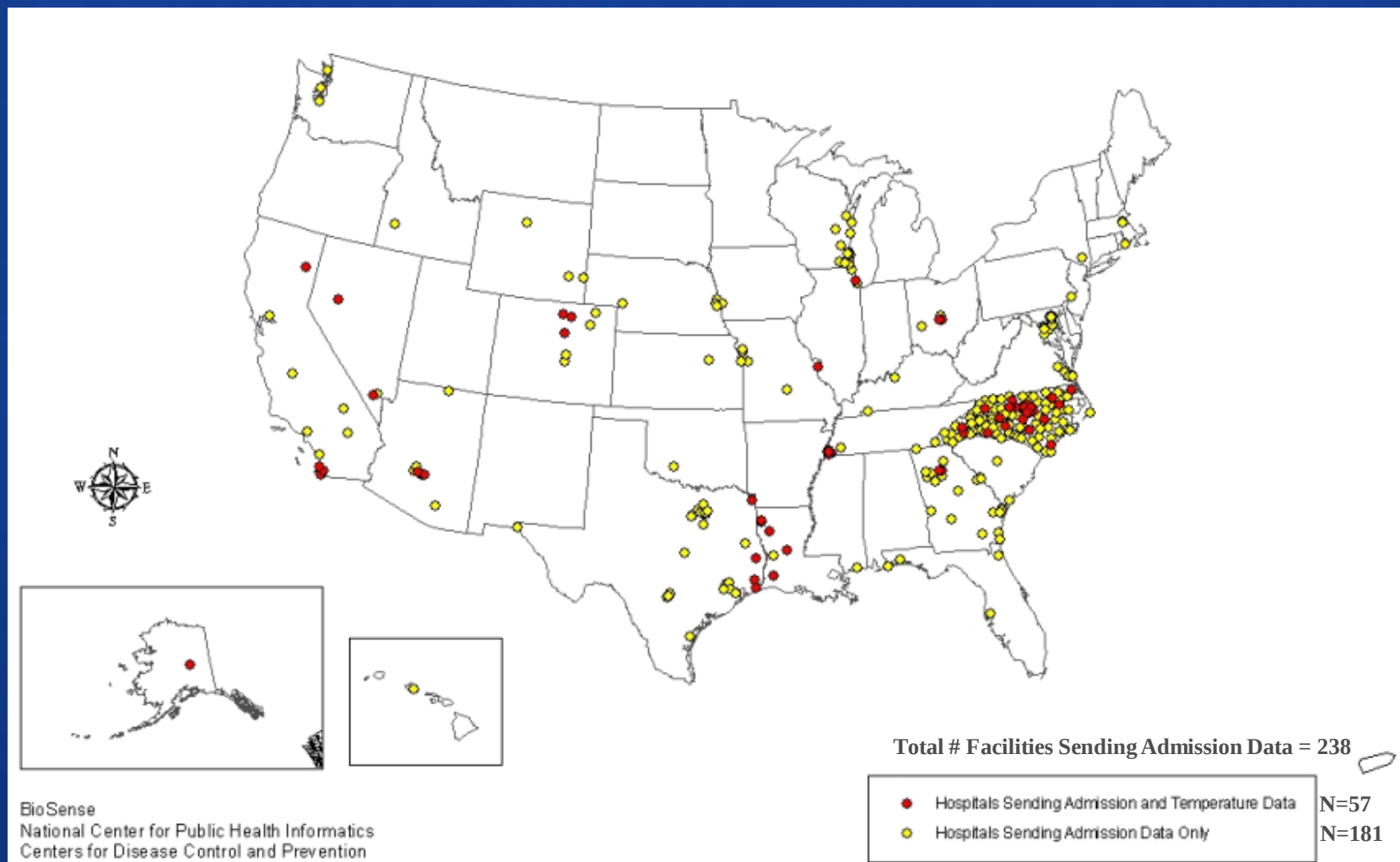
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BioSense

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



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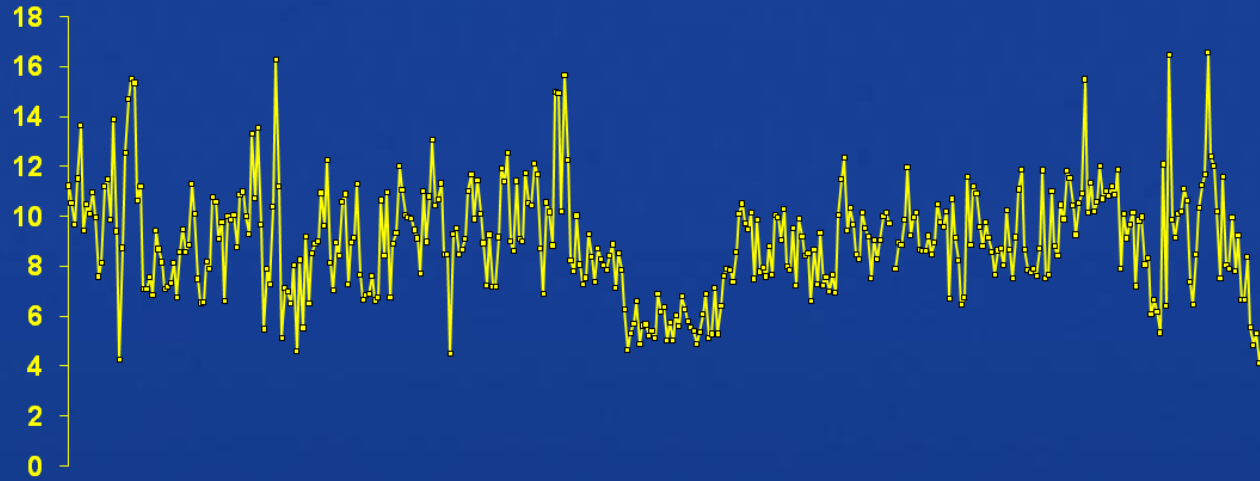
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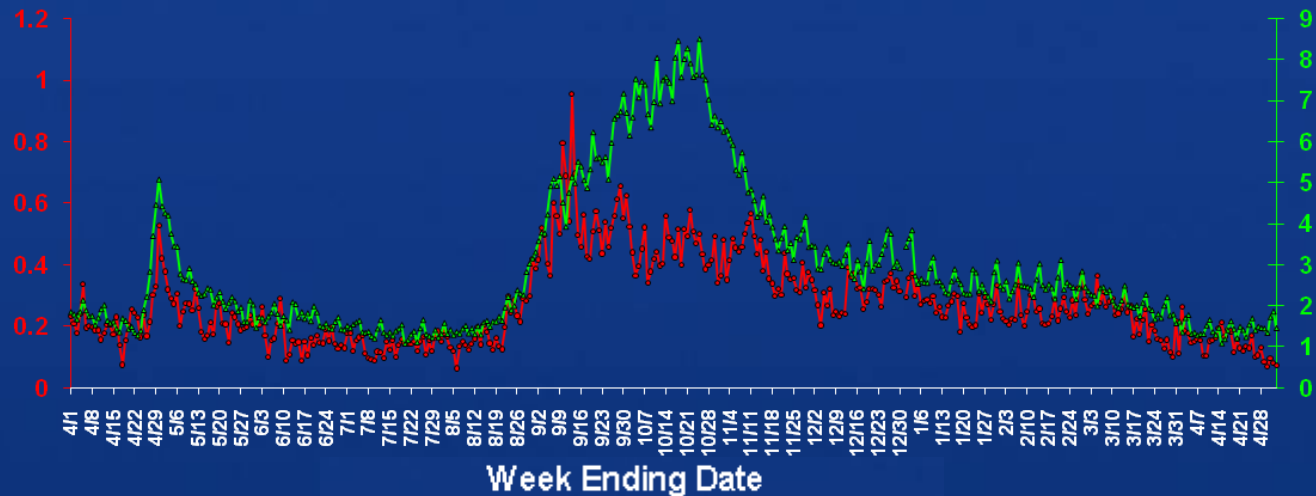
BioSense

BioSense Emergency Departments (N=238) % of ED visits due to ILI and % of ILI patients hospitalized: U.S., April 1, 2009 to May 3, 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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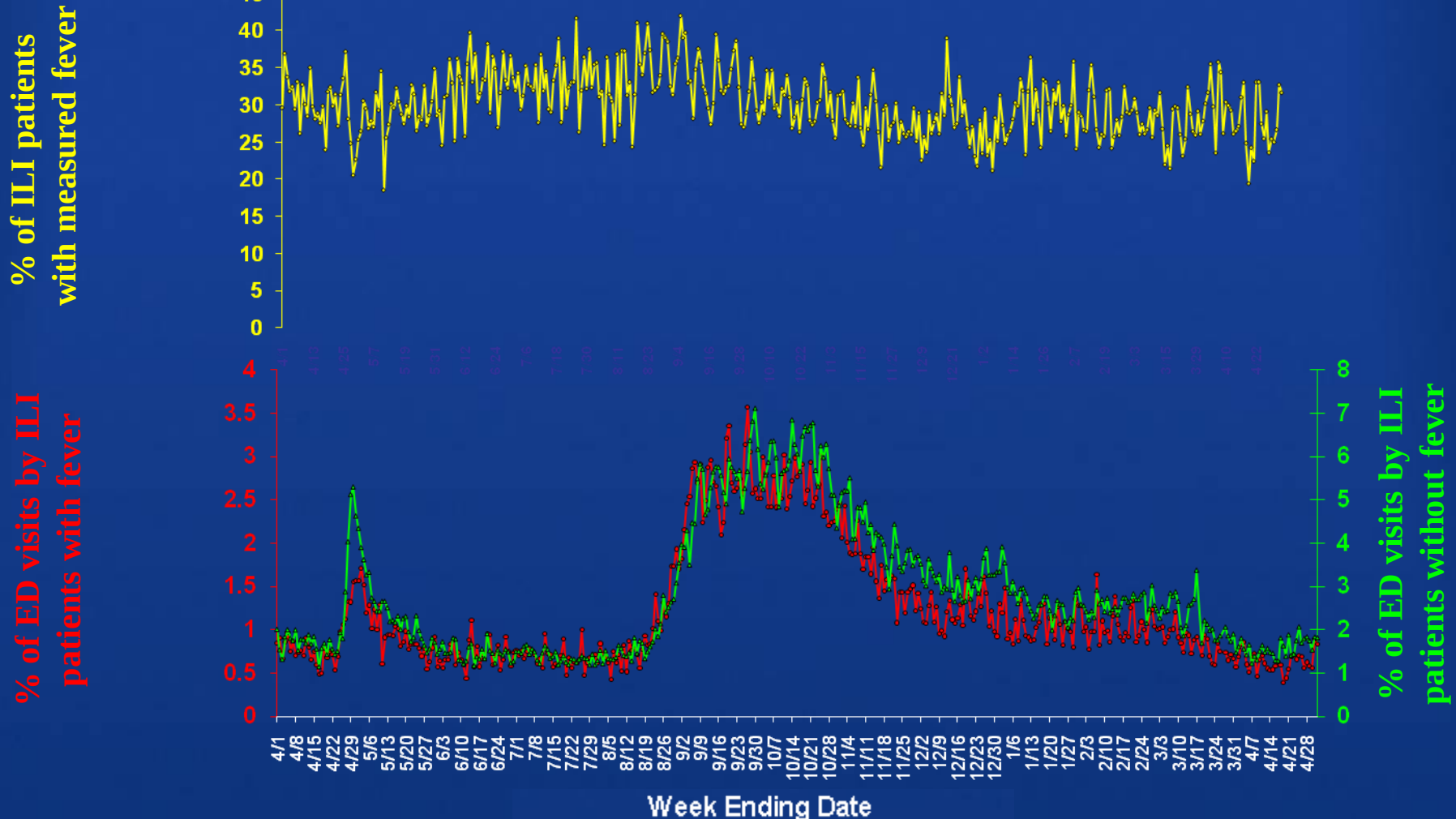
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BioSense

BioSense Emergency Departments (N=57) % of ED visits due to ILI and % of ILI patients with fever: U.S., April 1, 2009 to May 2, 2010



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Health Department Syndromic Surveillance: Distribute Project

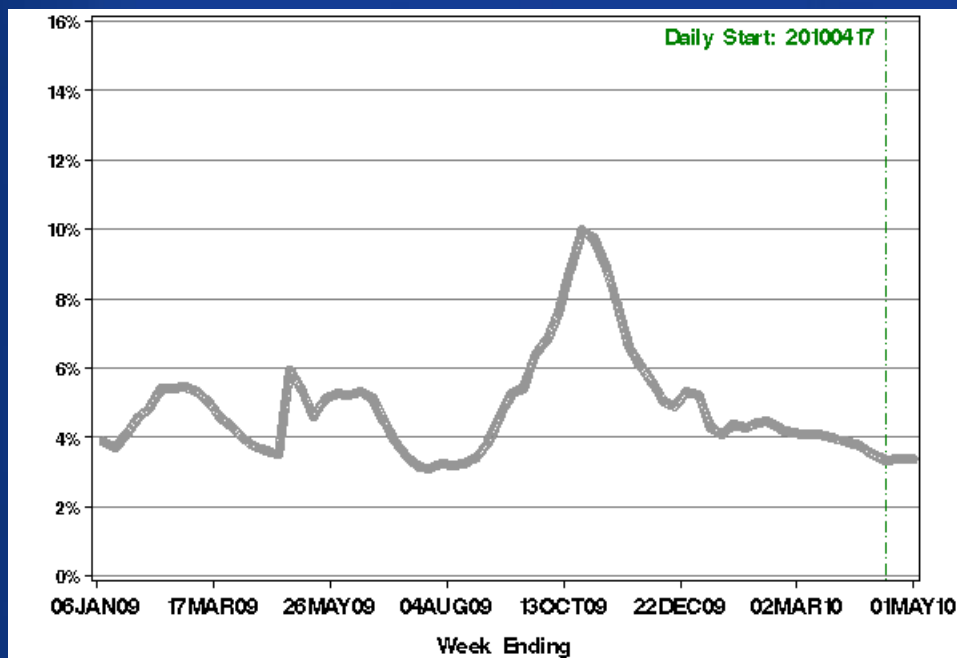
Notes to accompany following slides

- 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>

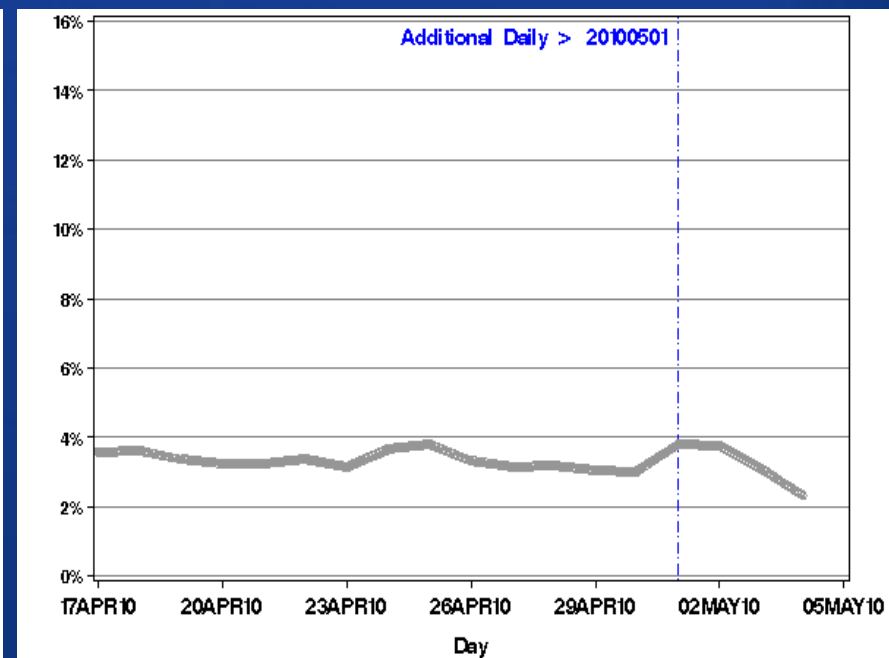
Health Department Syndromic Surveillance: Distribute Project Aggregate Data: 33 Health Departments (Weighted)

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

By Week, through MMWR Week Ending 1 May 2010



By Day, 17 Apr 2010 through 4 May 2010
(Vertical line depicts end of weekly view)



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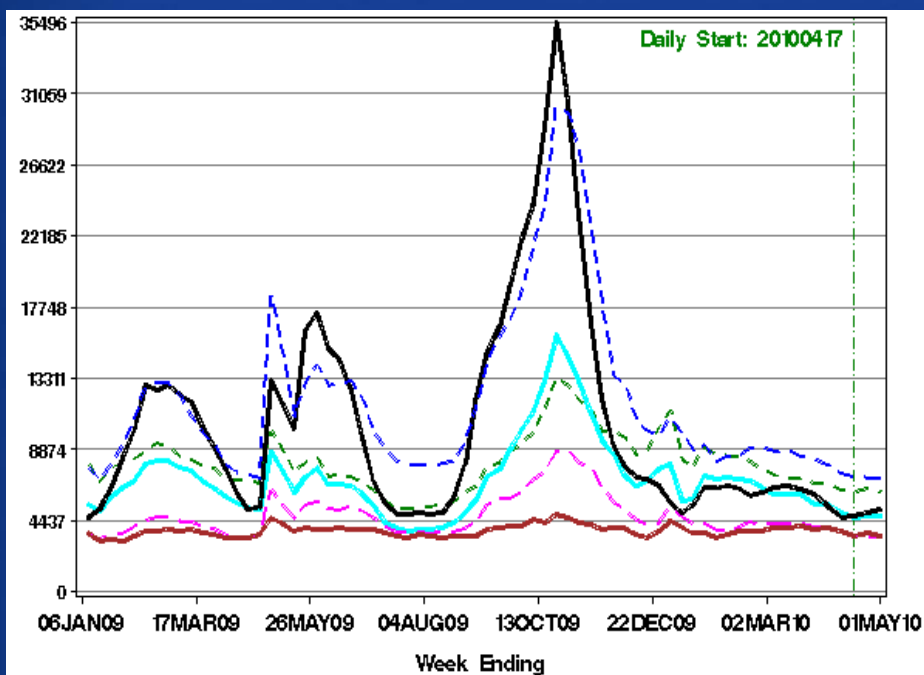
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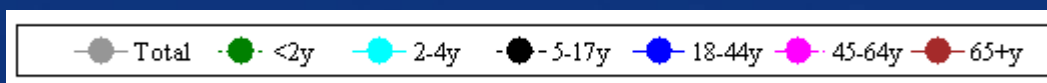
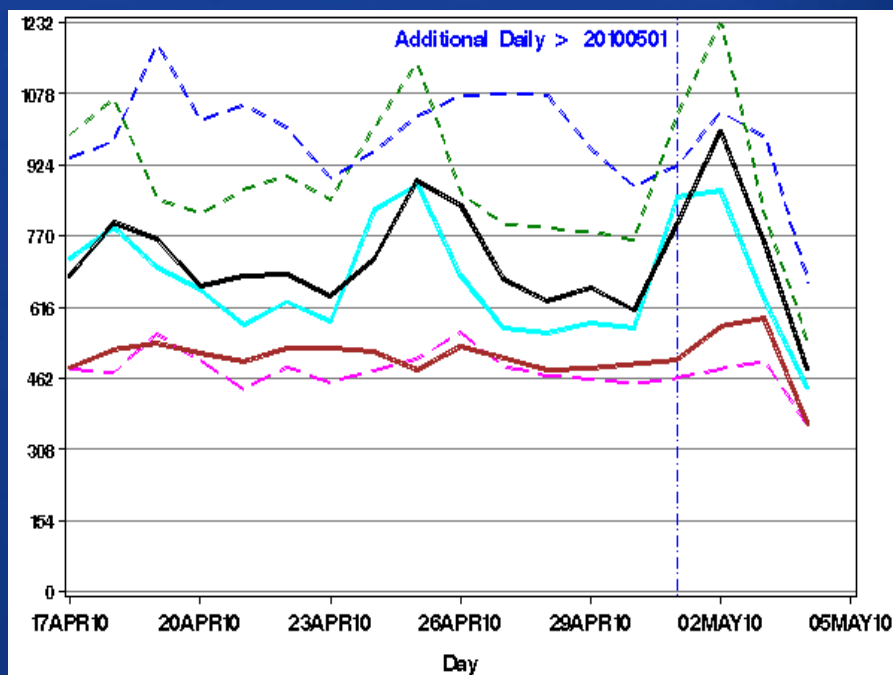
Health Department Syndromic Surveillance: Distribute Project Aggregate Data: 33 Health Departments (with complete reporting through 5/4/10)

Number of ED Visits due to ILI, by Age Group

By Week, through MMWR Week Ending 1 May 2010



By Day, 17 Apr 2010 through 4 May 2010
(Vertical line depicts end of weekly view)



novel 2009-H1N1 - 7 MAY 2010

Data are provisional and will not be officially released by the CDC until 1100 EST

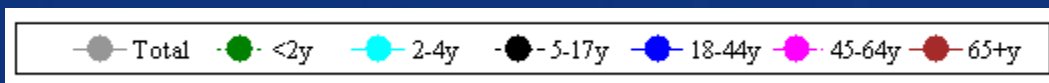
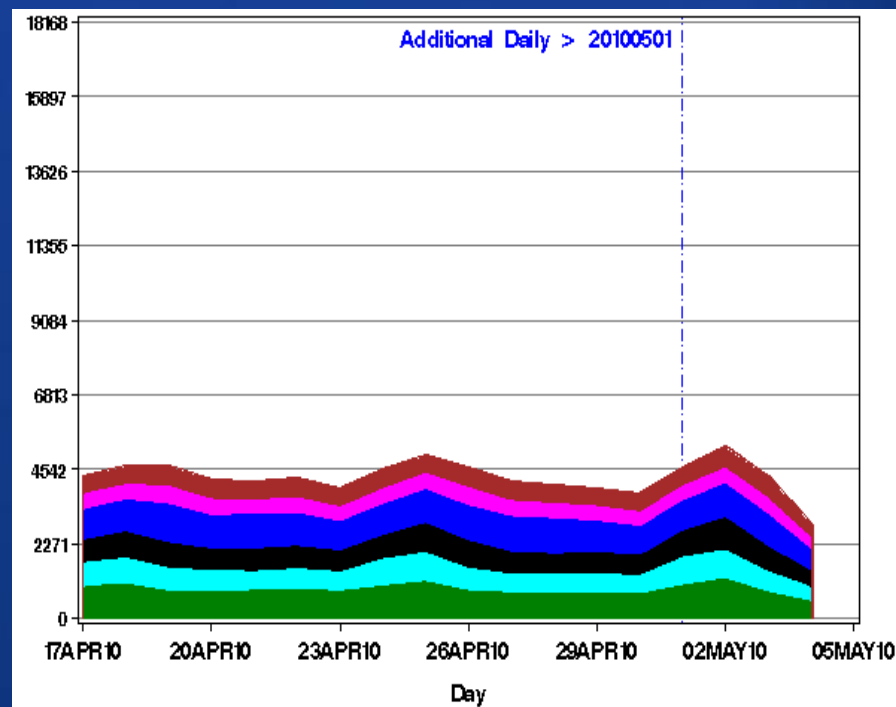
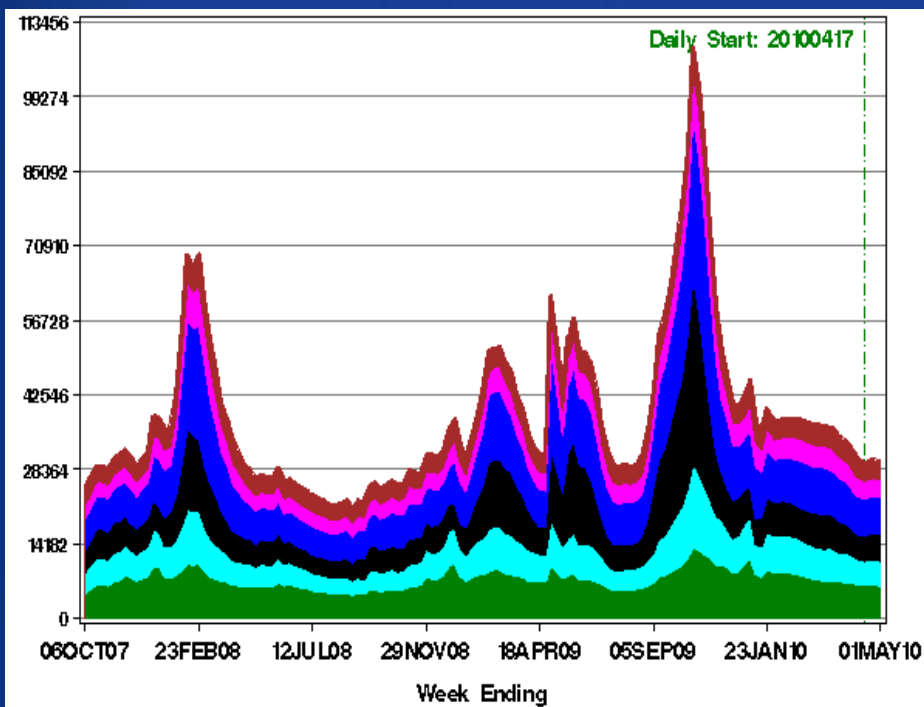
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Health Department Syndromic Surveillance: Distribute Project Aggregate Data: 33 Health Departments (with complete reporting through 5/4/10)

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

By Week, through MMWR Week Ending 1 May 2010

By Day, 17 Apr 2010 through 4 May 2010
(Vertical line depicts end of weekly view)



novel 2009-H1N1 - 7 MAY 2010

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Joint Information Center (JIC) 2009 H1N1 Headlines: May 6, 2010



2009 H1N1 Headlines (4/29-5/6)

Flu vaccines up, but not enough, government says (4/29)

US has 71 million unused flu vaccine doses (5/4)

**CDC: Record number of
Americans got seasonal flu shots
(4/29)**

**Novartis Seeks Payment
for Cancelled Orders (5/5)**

**Swine flu fears push seasonal
shots to record high (4/29)**

Malaysian shuttlers cleared after H1N1 swine flu scare (5/3)

2009 H1N1-- 7 MAY 2010

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