



Director's Update Brief novel 2009-H1N1

**Friday
12 MARCH 2010**

**Day 332 / Month 10
Day 159 of Vaccination**

The information provided in this briefing is considered provisional and preliminary and will not be officially released by the Centers for Disease Control and Prevention until 1100 EST hours daily.

Epidemiology/Surveillance Surveillance Systems Summary

- ***WHO/NREVSS Collaborating Laboratories***
 - Seasonal A (H1), A (H3), and B viruses co-circulated with 2009 H1N1 viruses
 - % of specimens testing positive for influenza remained at the same level as last week
- ***ILINet (week ending 6 March)***
 - % of ILI outpatient visits is below the national baseline; 3 (Regions 4, 7, and 9) of 10 regions were above region specific baselines
- ***122 Cities Mortality Reporting System (graph)***
 - % pneumonia and influenza deaths was below the epidemic threshold
 - % deaths due to pneumonia and influenza increased
- ***Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists – state reporting:***

– Regional: 5 states	Local: 6 states + PR
– Sporadic: 33 states + Guam	None: 6 states + U.S. Virgin Islands
– No Report: DC	



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ILI Syndromic Surveillance

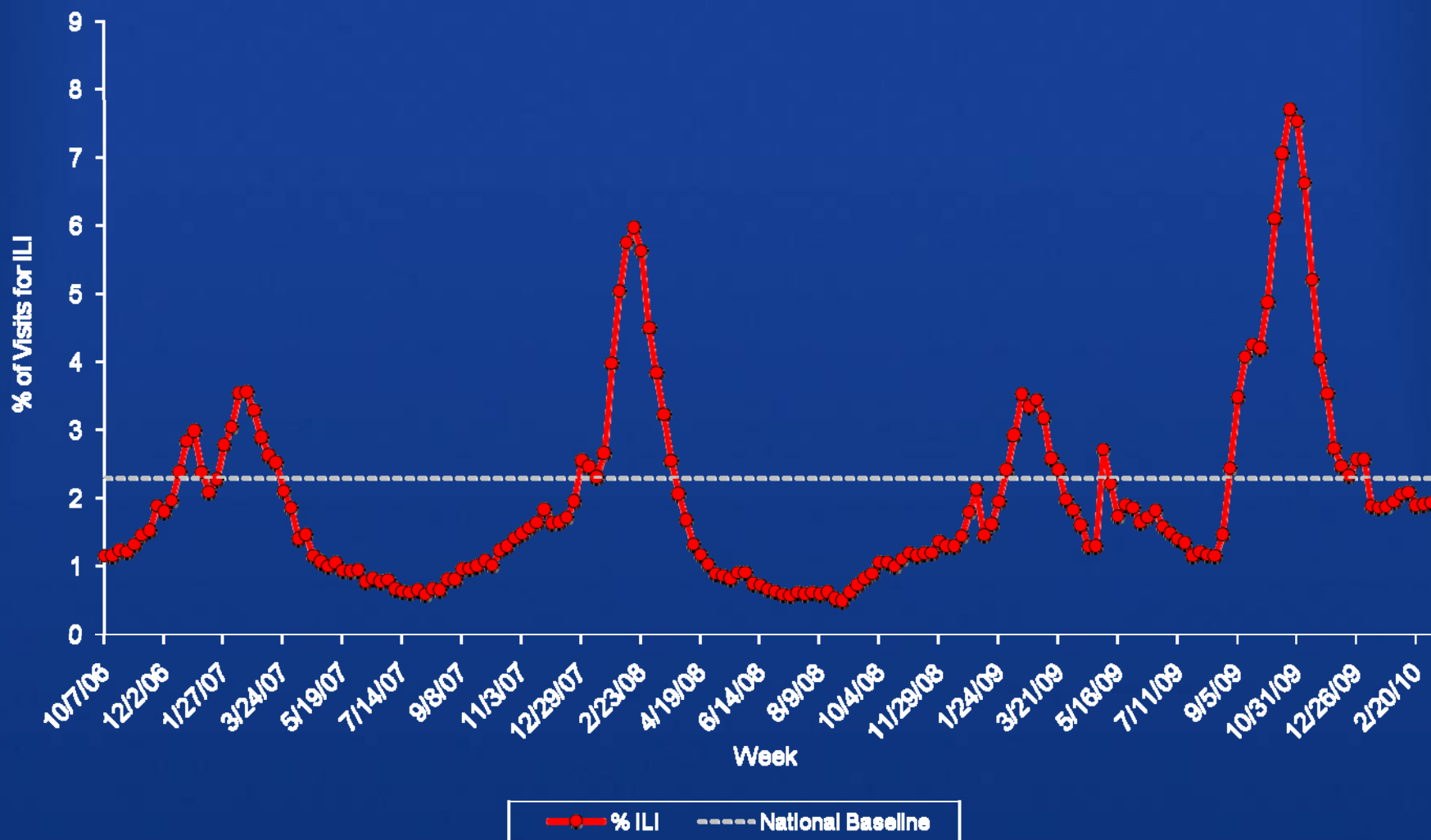


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Epidemiology/Surveillance
Percentage of Visits for Influenza-like Illness (ILI) Reported by
the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet),
National Summary October 1, 2006 – March 6, 2010



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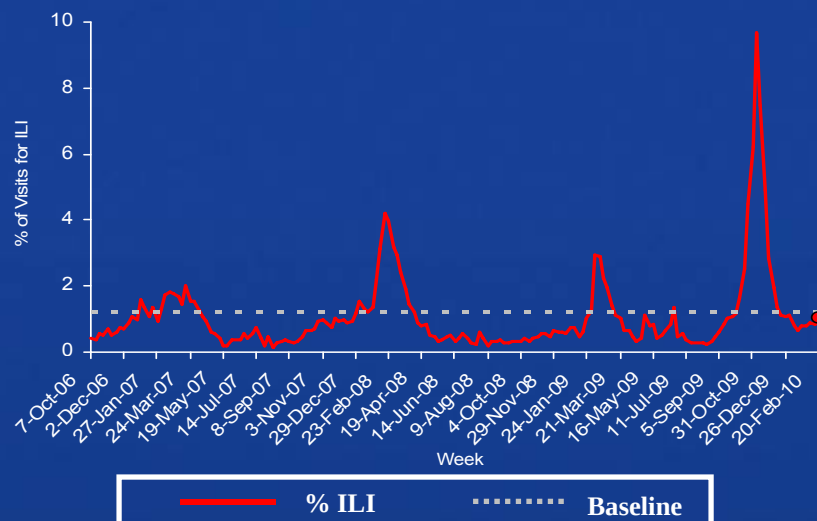
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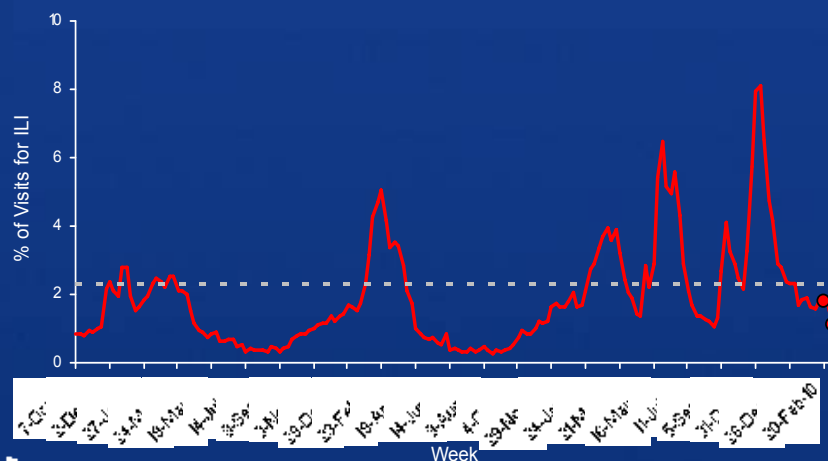
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions 1-3

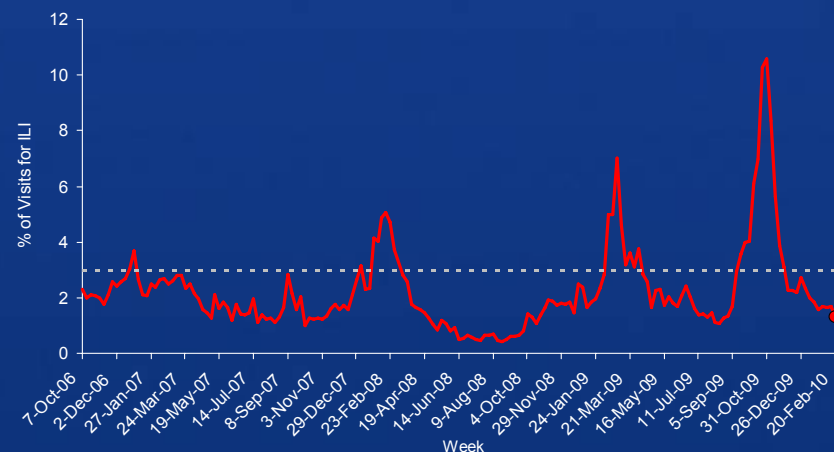
Region 1 - CT, ME, MA, NH, RI, VT



Region 2 - NJ, NY, USVI



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



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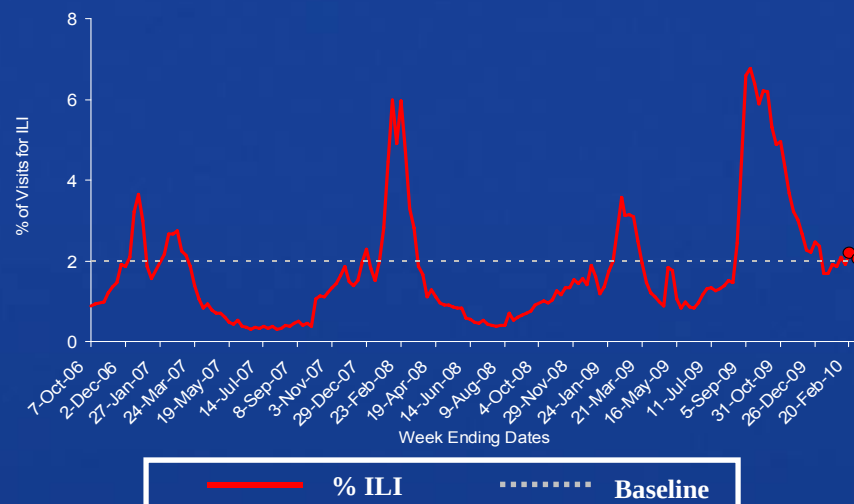
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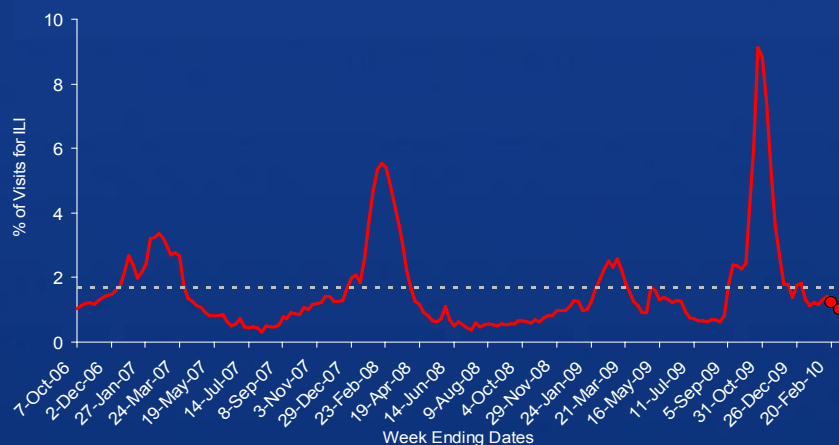
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions 4-6

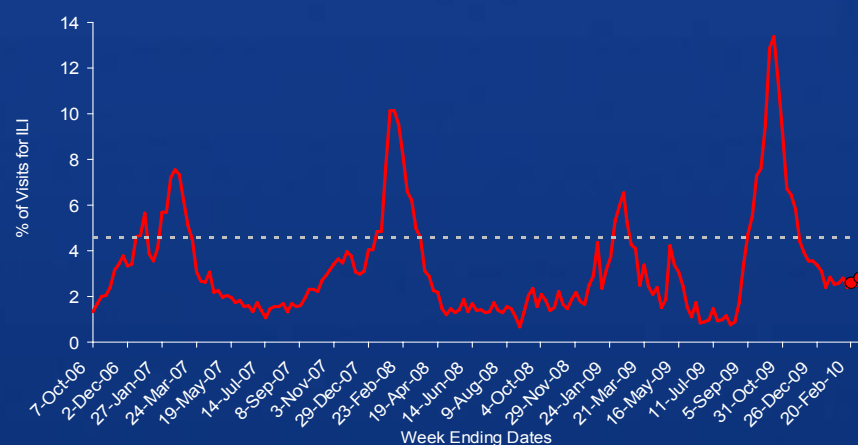
Region 4 - AL, FL, GA, KY, MS, NC, SC, TN



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



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



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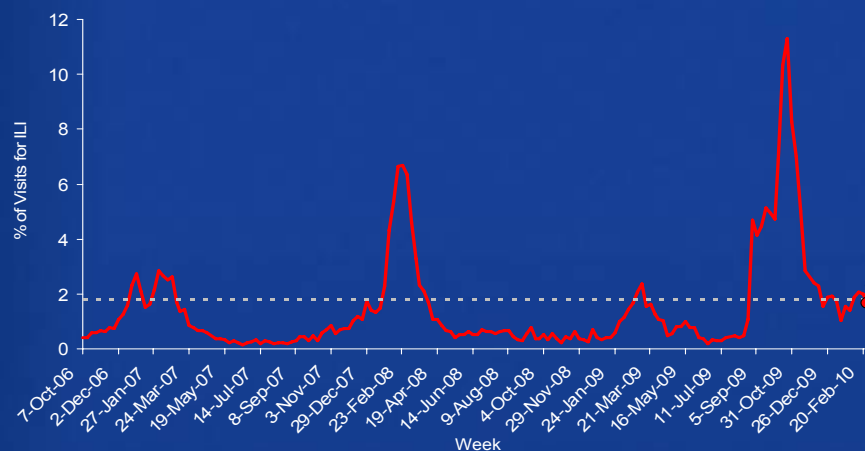
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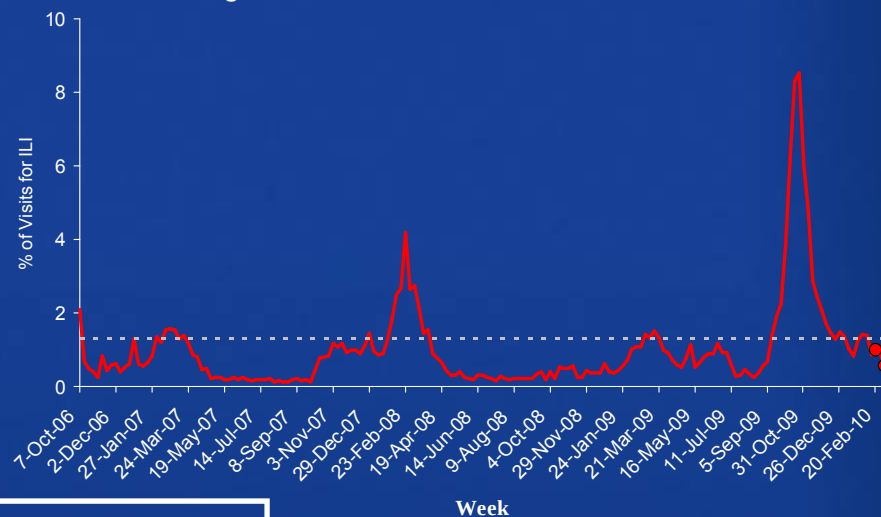
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions 7-10

Region 7 - IA, KS, MO, NE

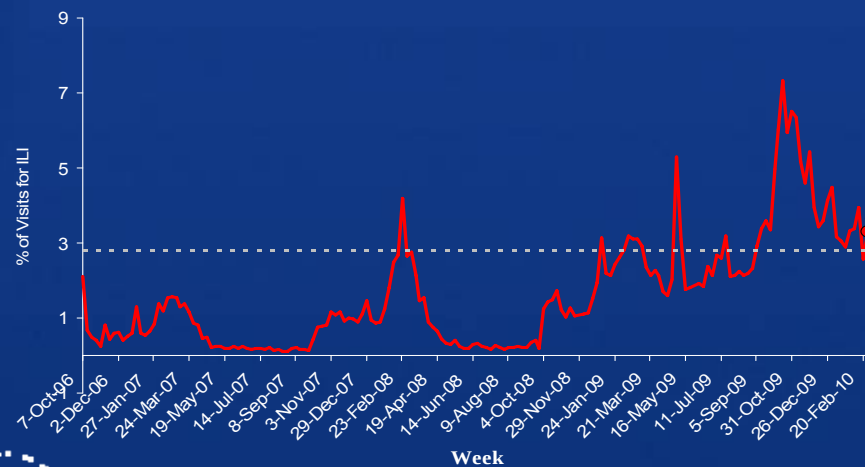


Region 8 - CO, MT, ND, SD, UT, WY

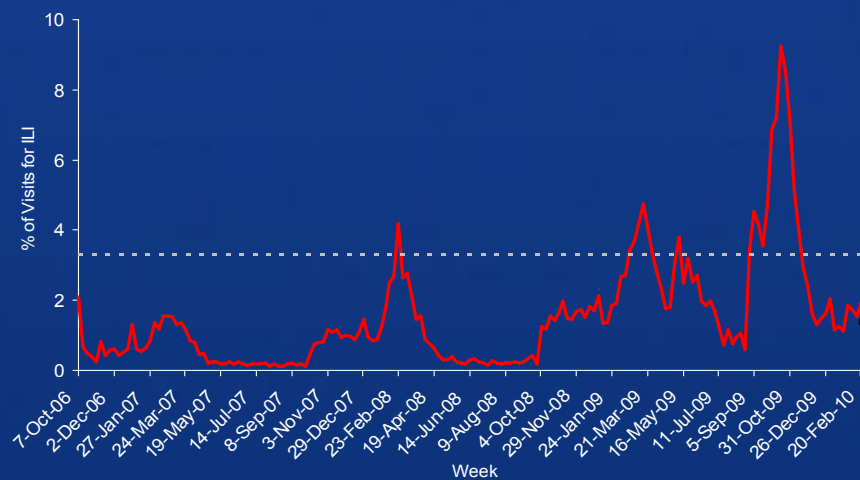


— % ILI Baseline

Region 9 - AZ, CA, HI, NV



Region 10 - AK, ID, OR, WA

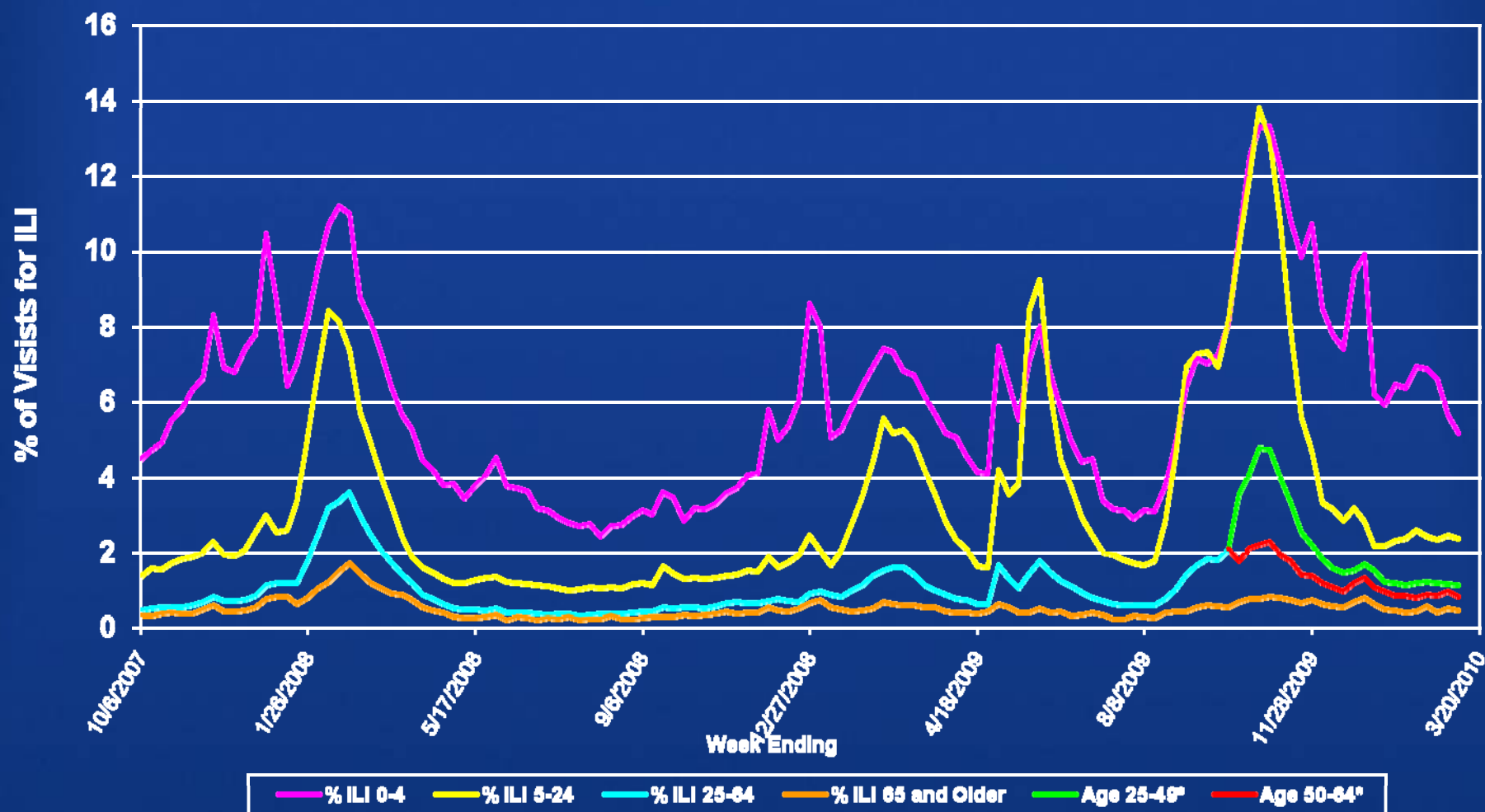


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Epidemiology/Surveillance
Percentage of Visits for ILI Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), National Summary 2007-08 through 2009-10 by Age Group
 data as of week ending 06 March, 2010



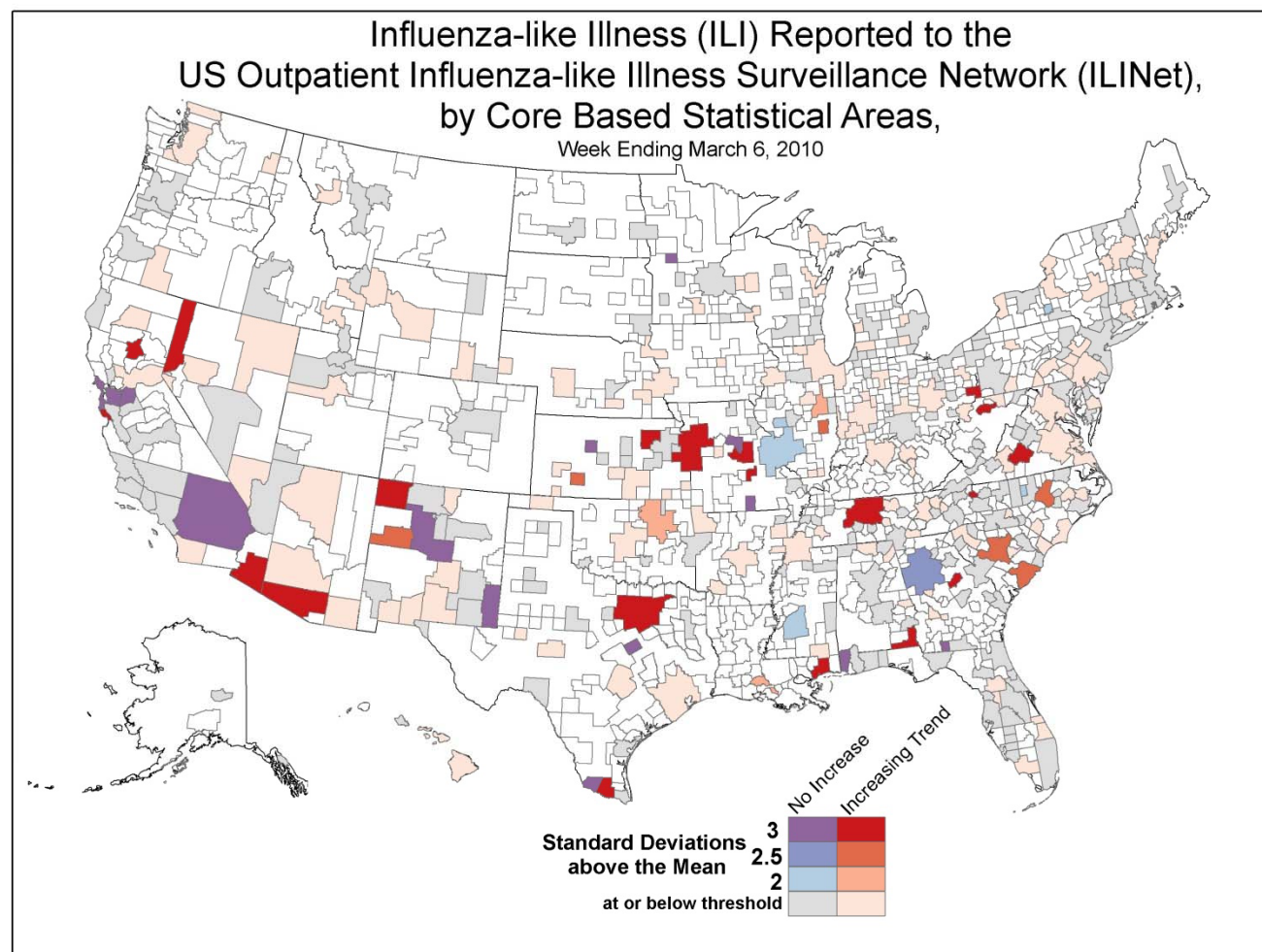
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* New age categories added October 10, 2009

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Epidemiology/Surveillance



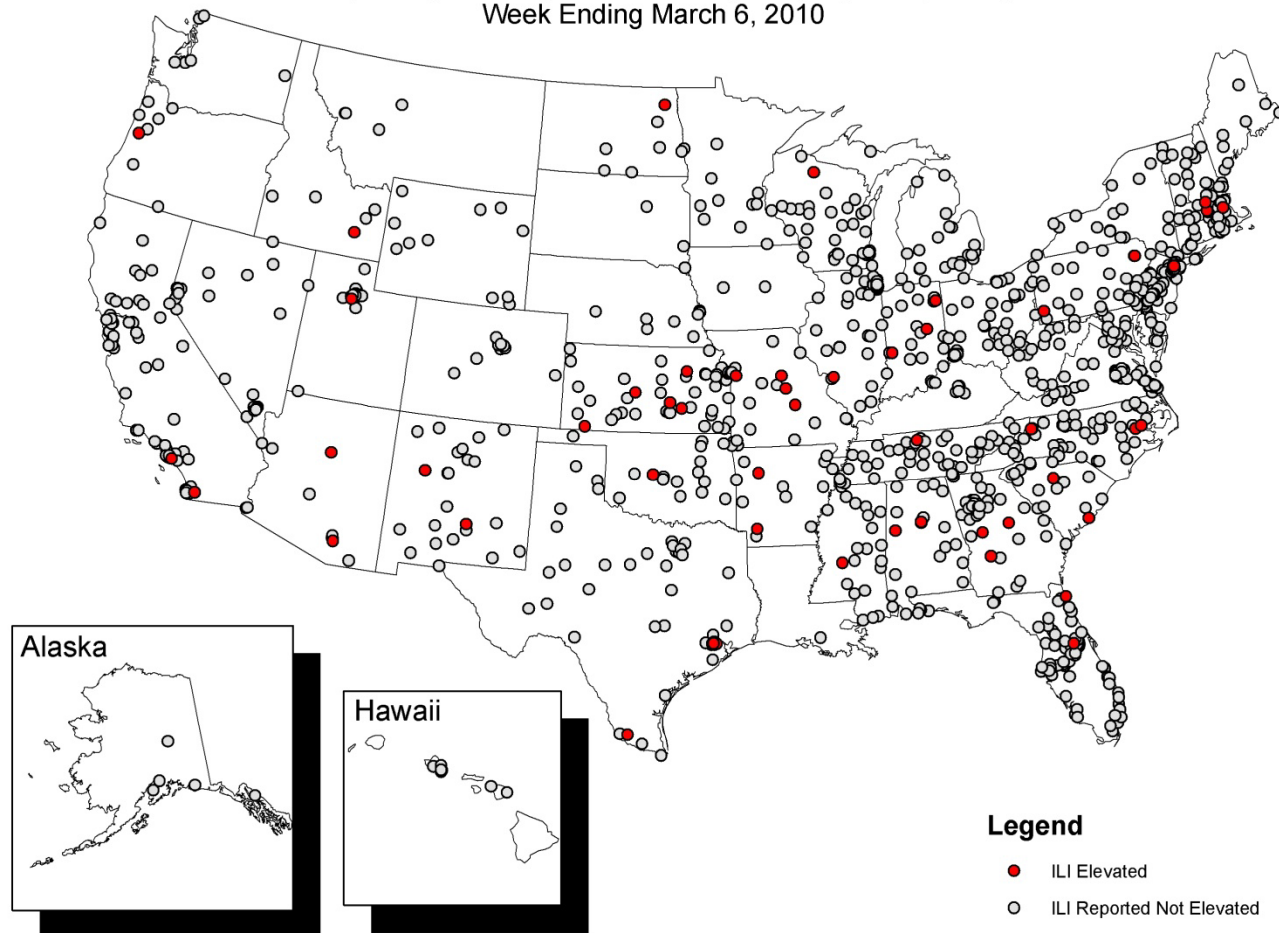
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Epidemiology/Surveillance

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 March 6, 2010



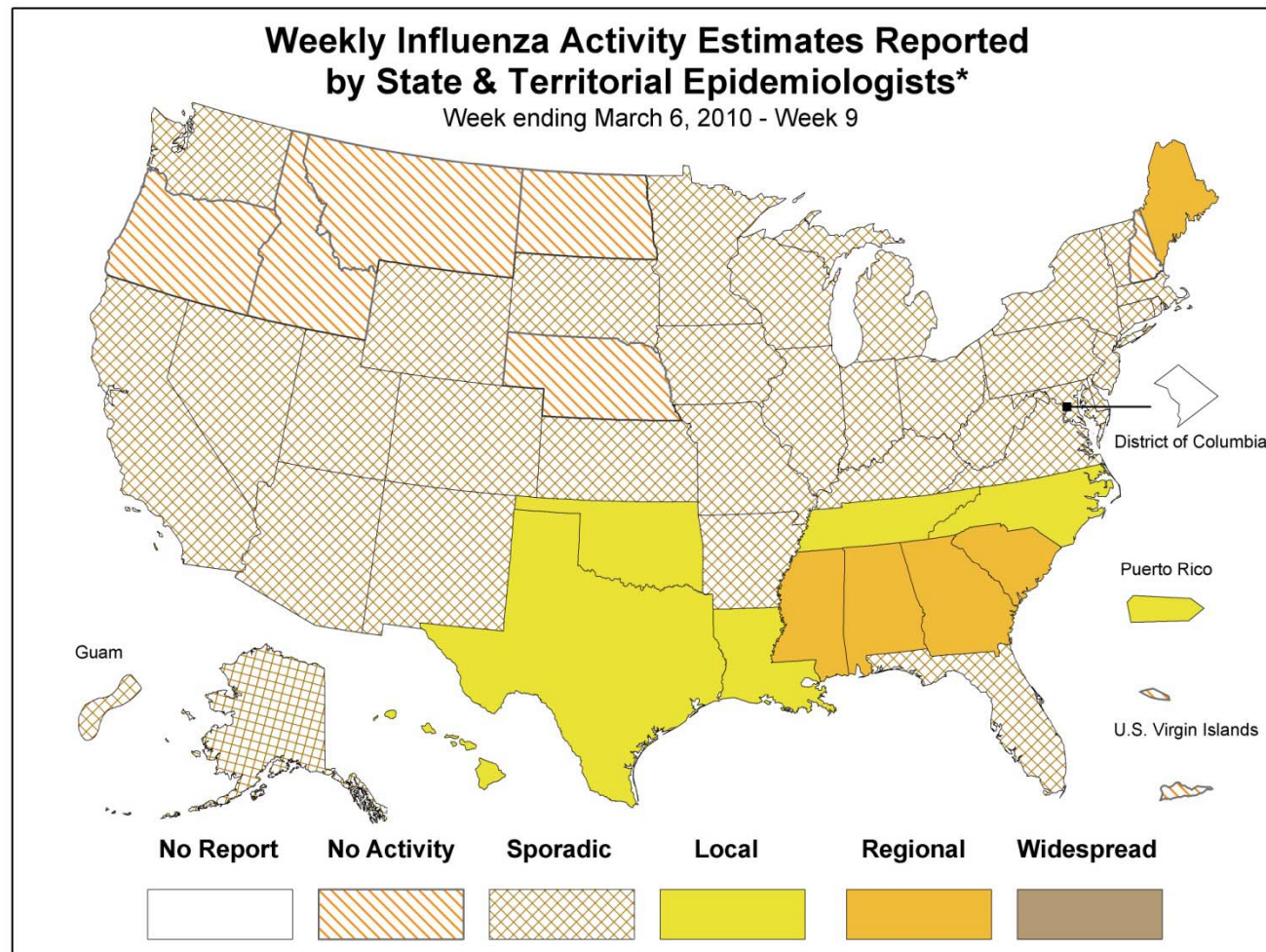
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Epidemiology/Surveillance

Weekly Influenza Activity Reported by SLTT's



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



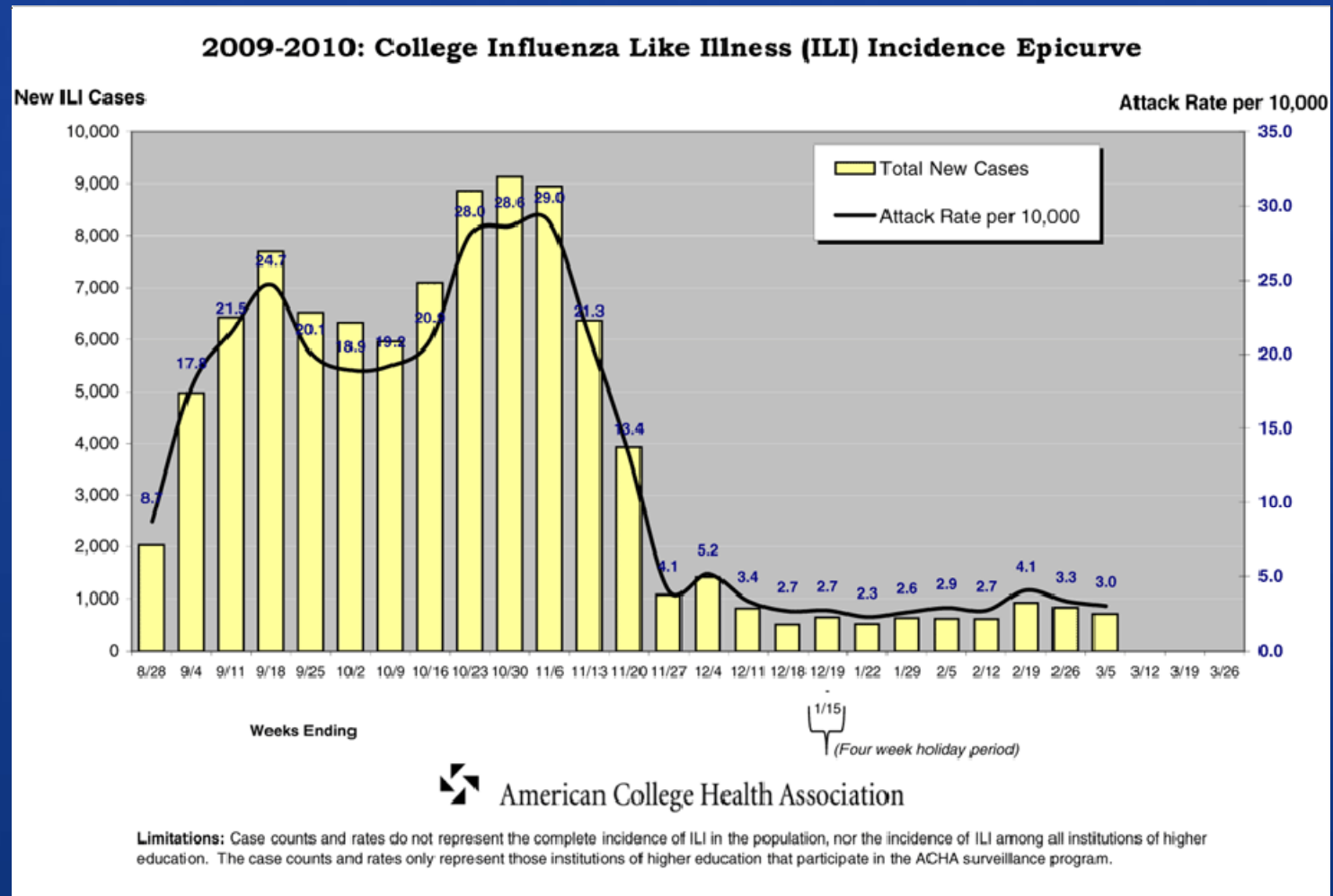
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Epidemiology/Surveillance

American College Health Association



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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 9
No. of specimens tested	3419
No. of positive specimens (%)	174 (5.1%)
<i>Positive specimens by type/subtype</i>	
Influenza A	173(99.4%)
A (2009 H1N1)	127 (73.4%)
A (subtyping not performed)	46 (26.6%)
A (unable to subtype)	0 (0.0%)
A (H3)	0 (0.0%)
A (H1)	0 (0.0%)
Influenza B	1 (0.6%)



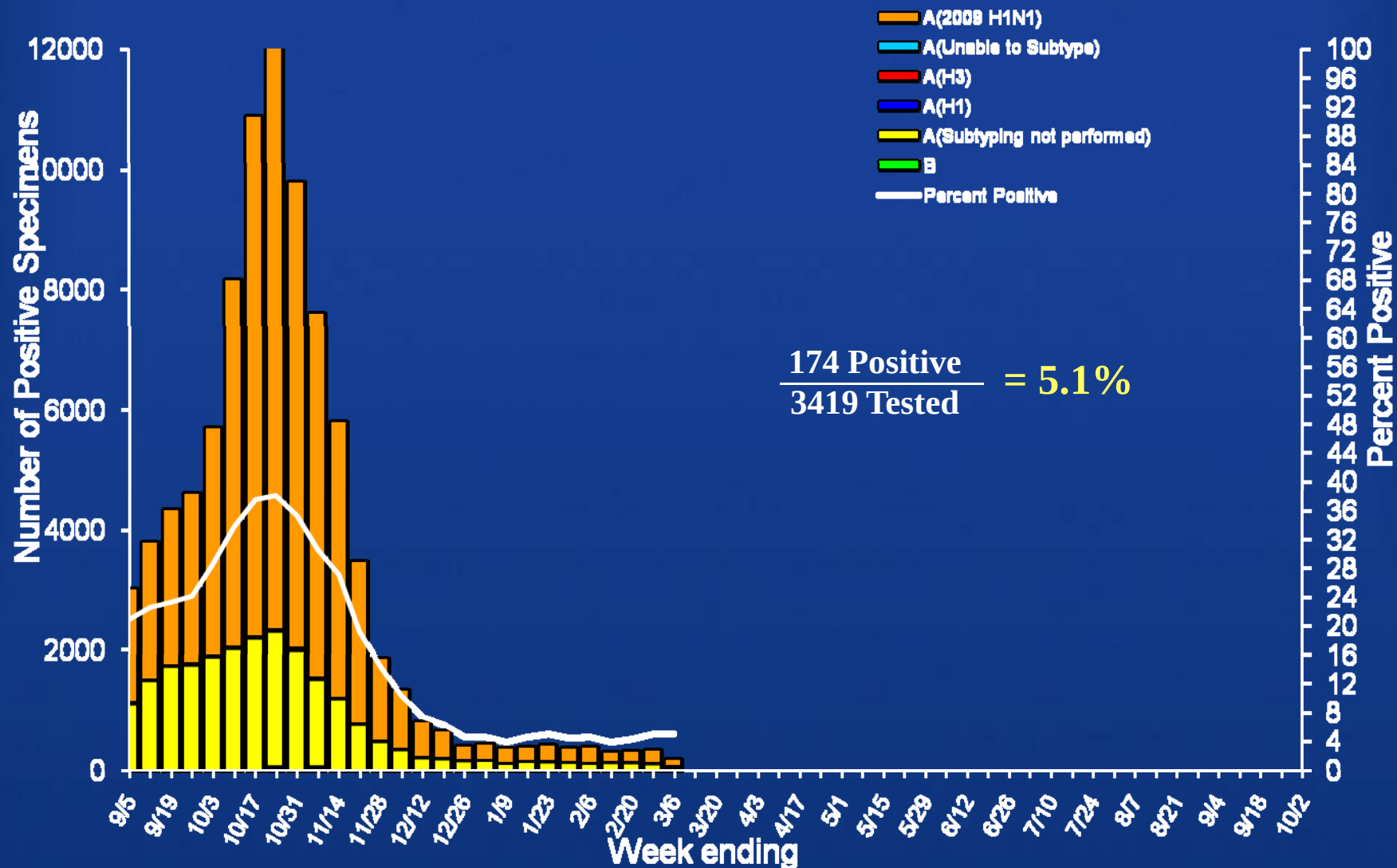
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Epidemiology/Surveillance

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

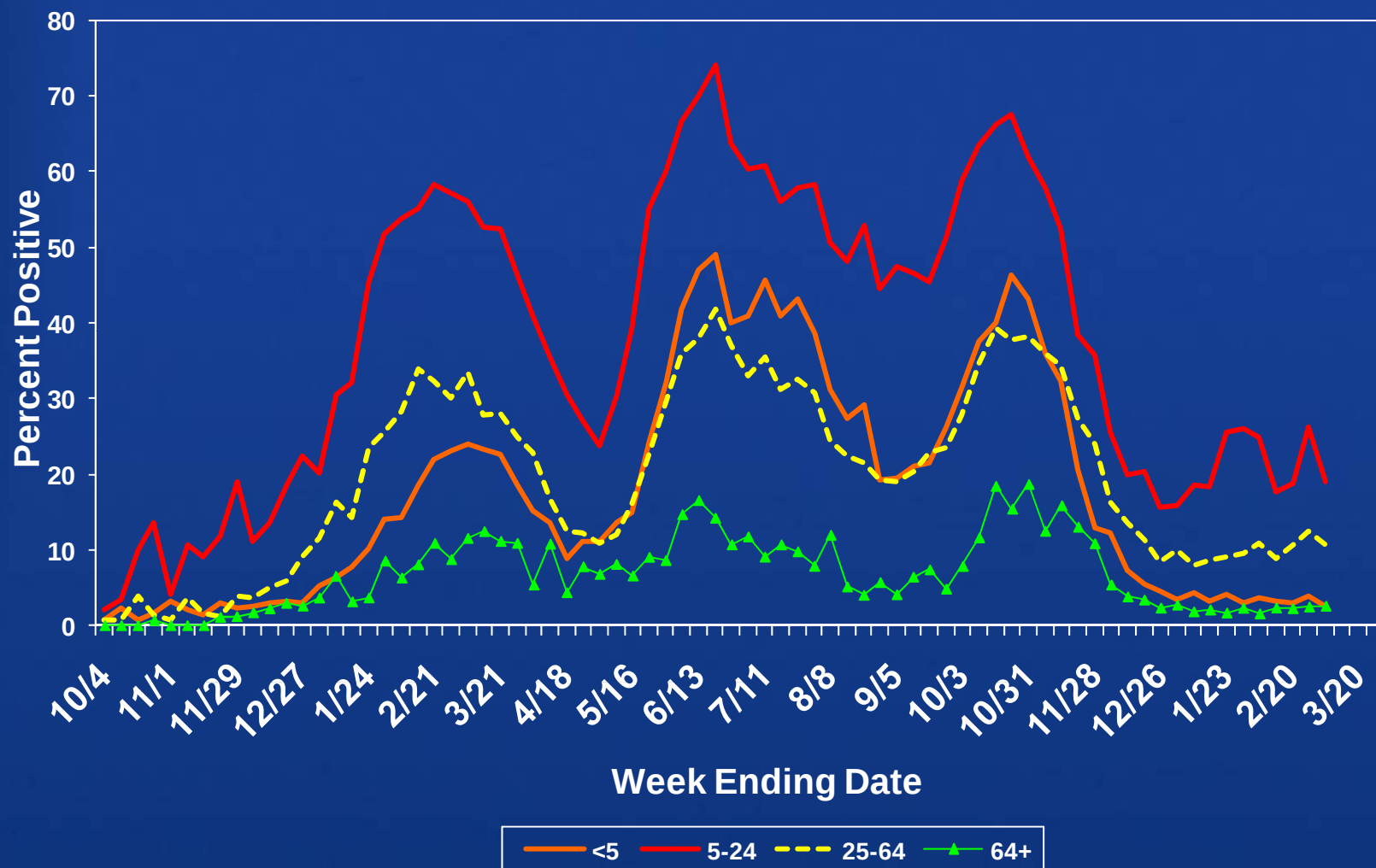


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Epidemiology/Surveillance
Percent of Specimens Positive for Influenza Reported by WHO Collaborating Laboratories:
by Week and Age Category



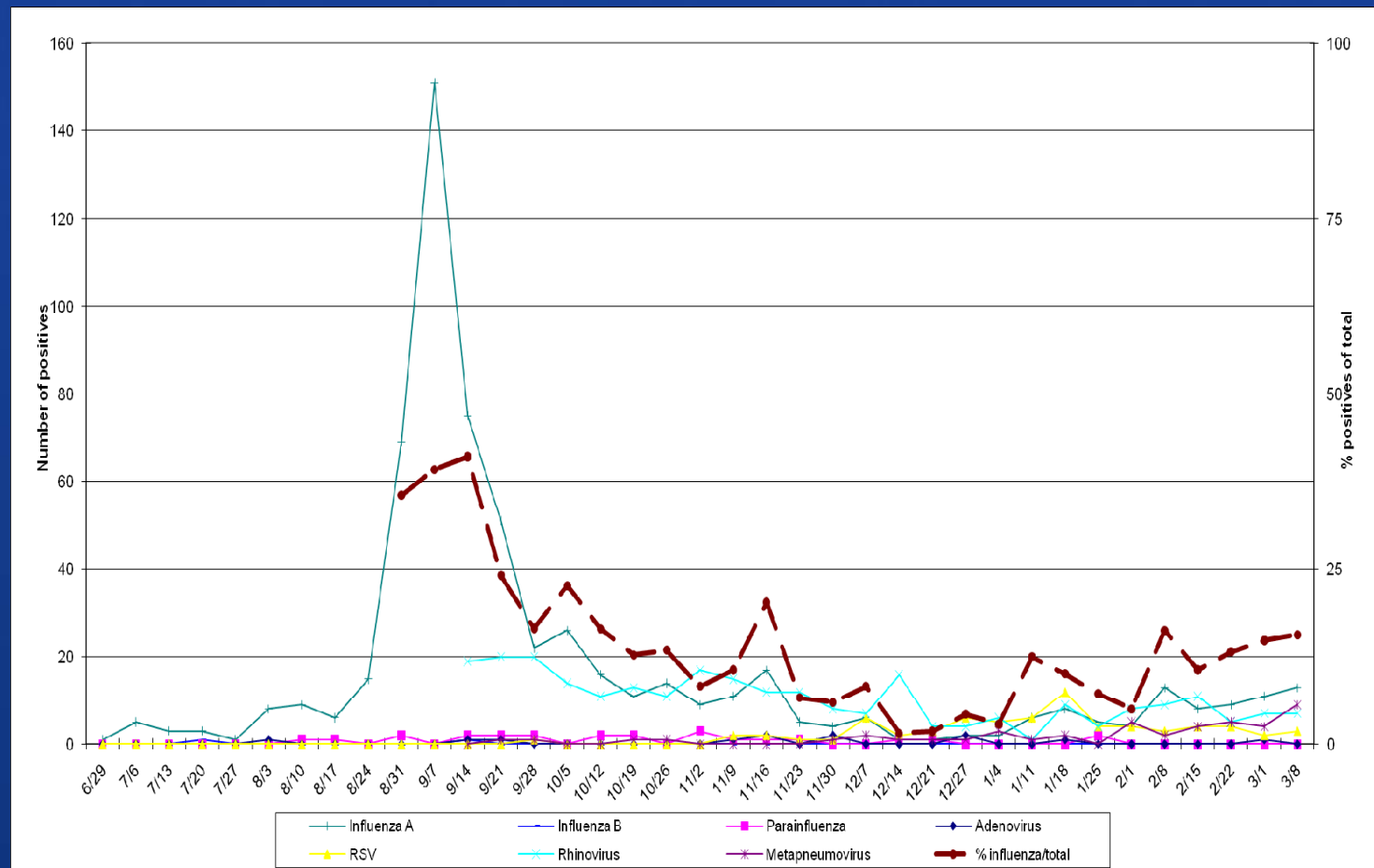
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Epidemiology/Surveillance

Emory University Virologic Surveillance



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Tracking Severity



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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Number of States and Territories Reporting on March 9, 2010

	Lab-Confirmed HOSPITALIZATIONS	Lab-Confirmed DEATHS
Number States Reporting	29	31
Number Territories Reporting	1	1
Total SLTTs Reporting	30	32

Total Number of States Reporting by Any Method = 41
Total Number of Territories Reporting by Any Method = 2
43 of 56 Jurisdictions Reporting = 77%



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Mortality



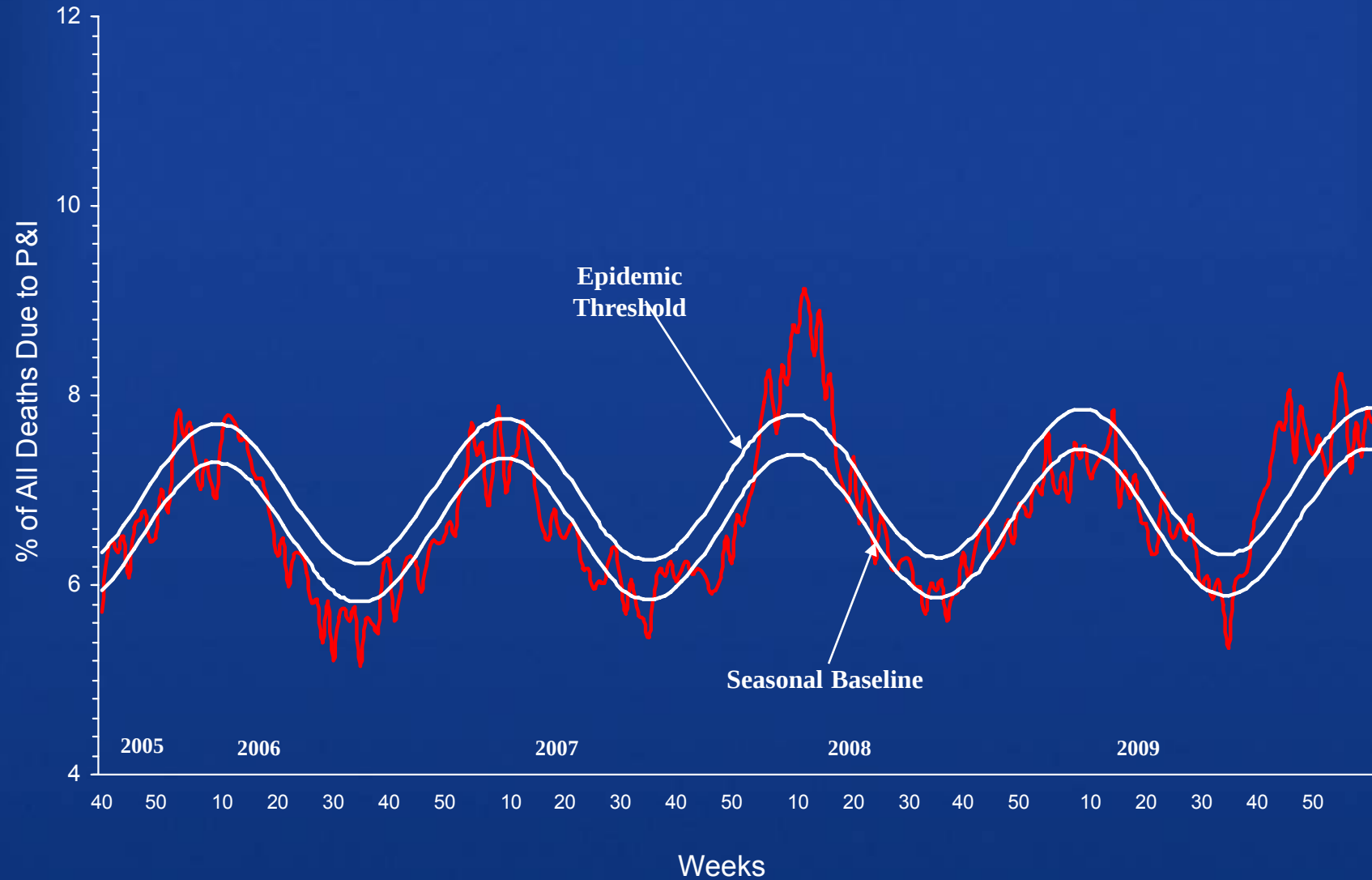
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Epidemiology/Surveillance

Pneumonia and Influenza Mortality for 122 U.S. Cities -Week Ending 6 MAR 2010



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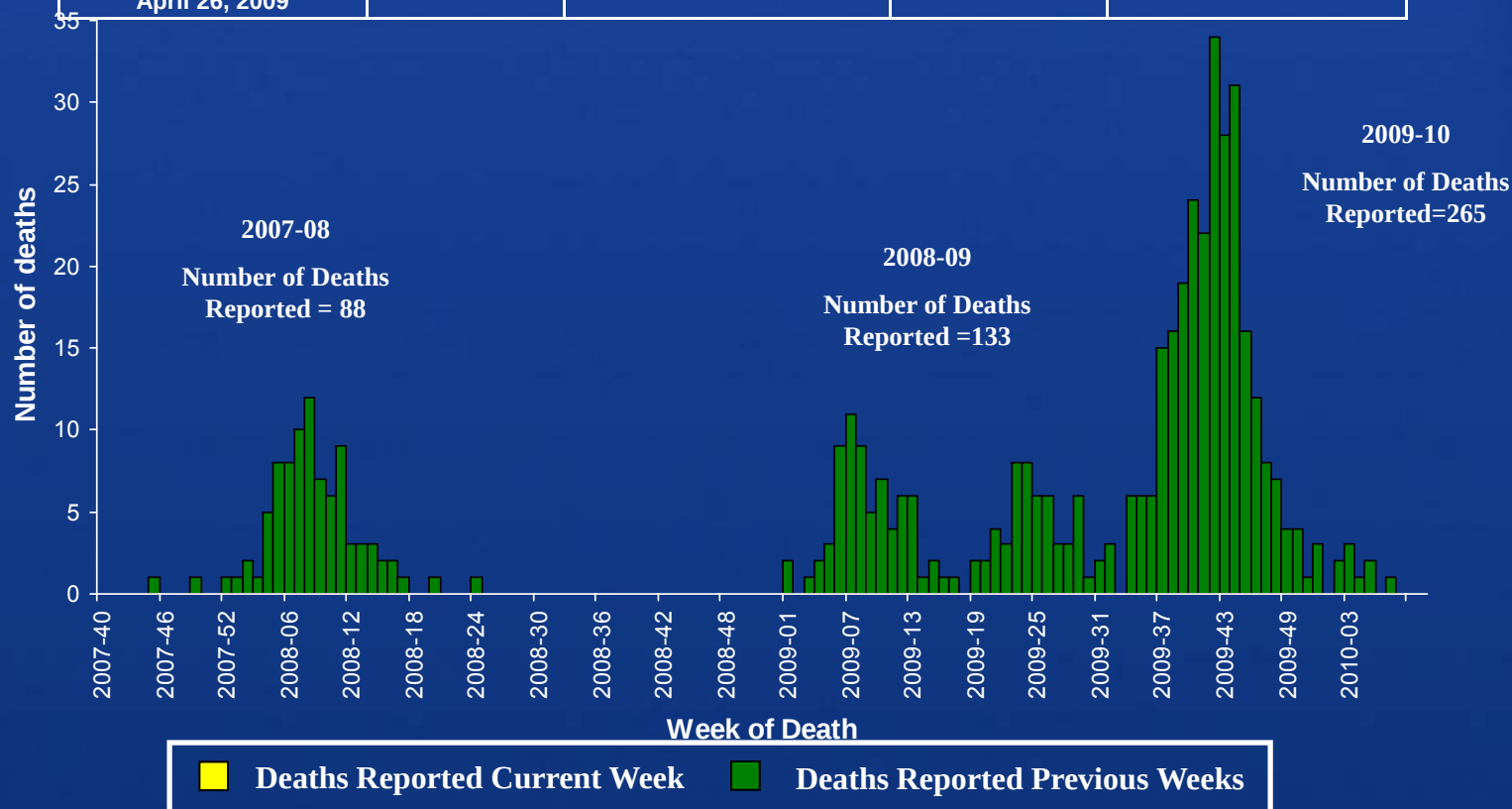
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Epidemiology/Surveillance

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 – 9	0	0	0	0
# Deaths Since August 30, 2009	217	47	1	265
# Deaths Since April 26, 2009	277	50	2	329



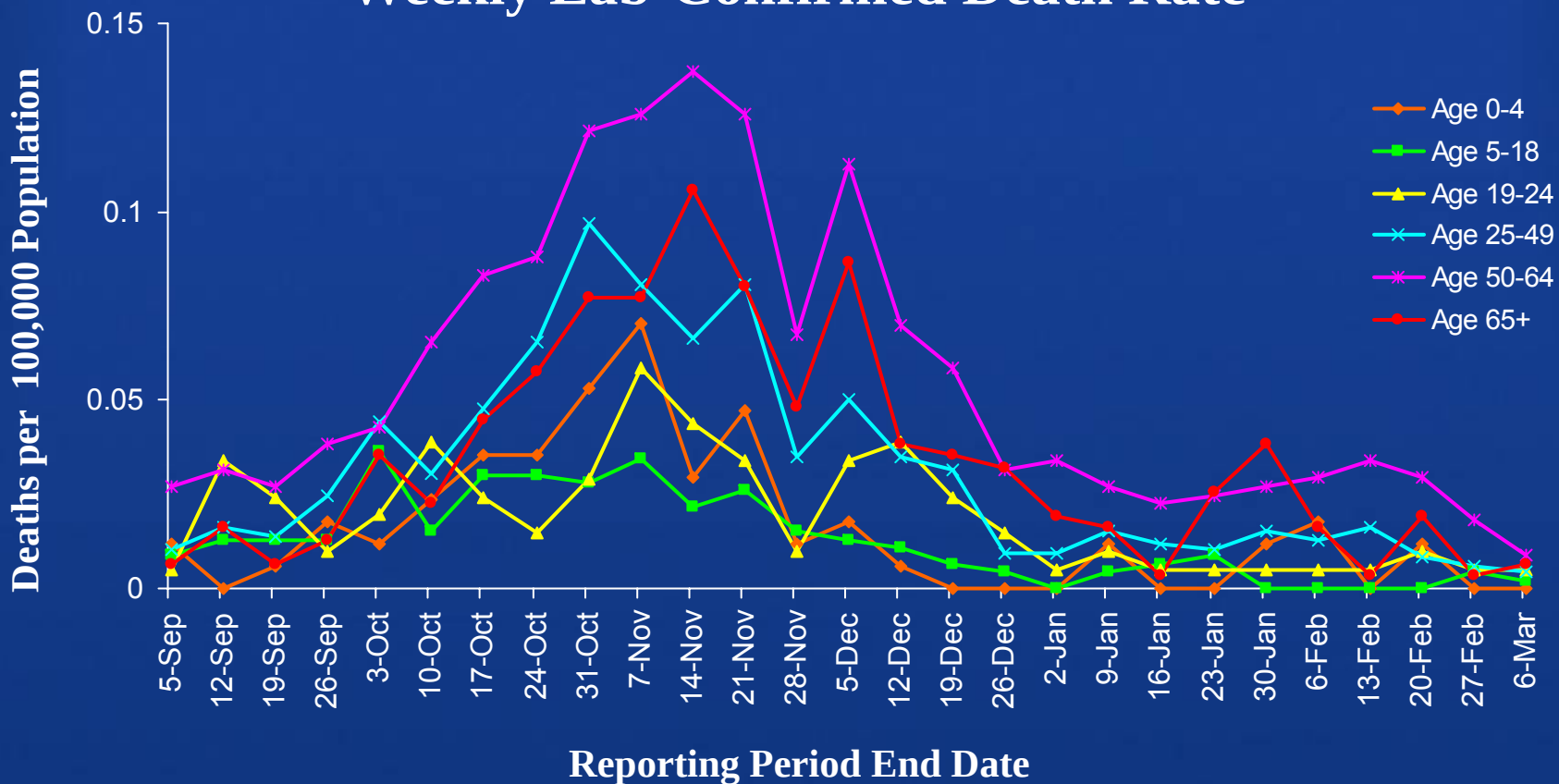
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Weekly Lab-Confirmed Death Rate



Excludes jurisdictions for which age distribution information is not available. Rate / 100,000 by Single Year Age Groups: Denominator source: 2008 Census Estimates, U.S. Census Bureau at: <http://www.census.gov/popest/national/asrh/files/NC-EST2007-ALLDATA-R-File24.csv>



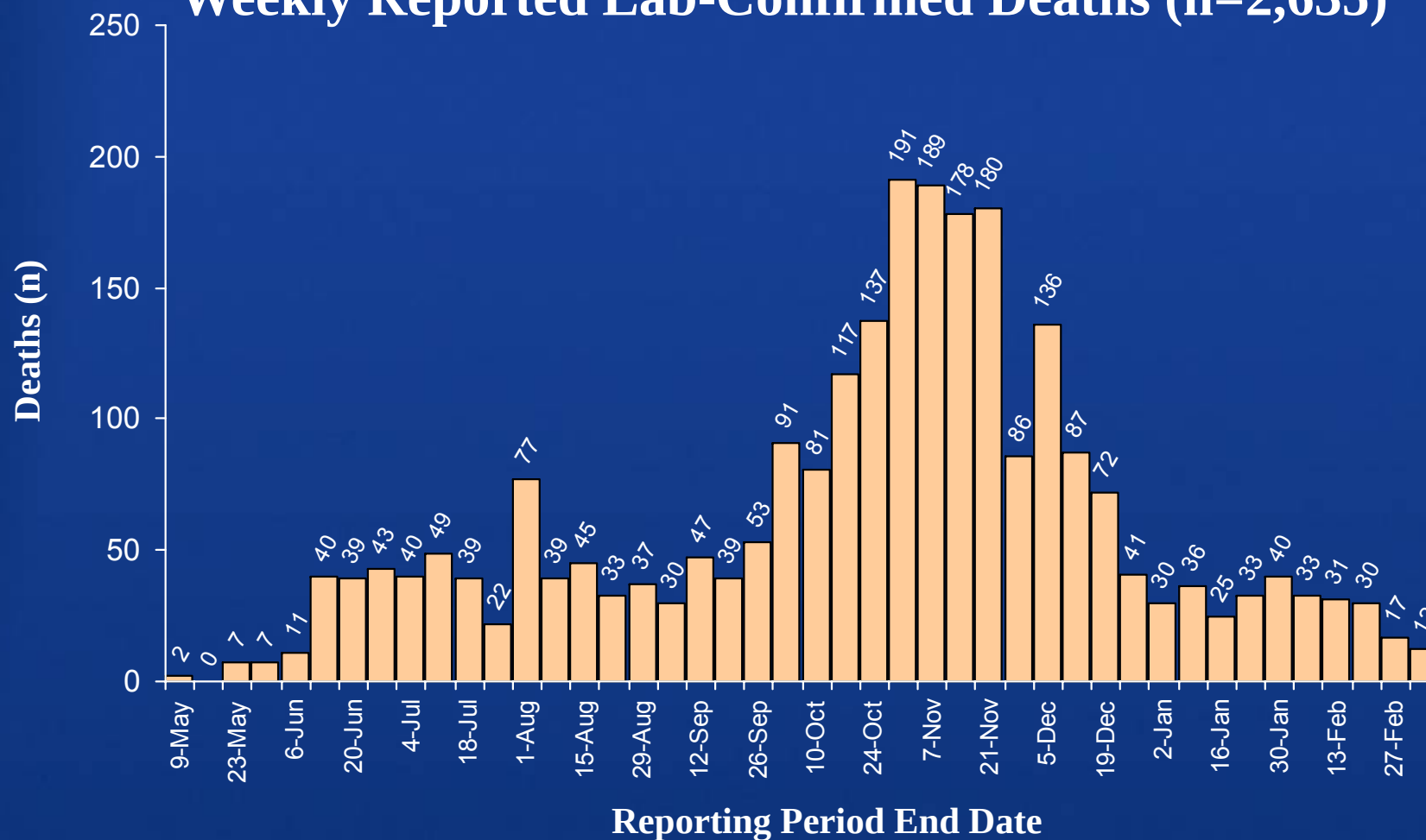
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Weekly Reported Lab-Confirmed Deaths (n=2,635)



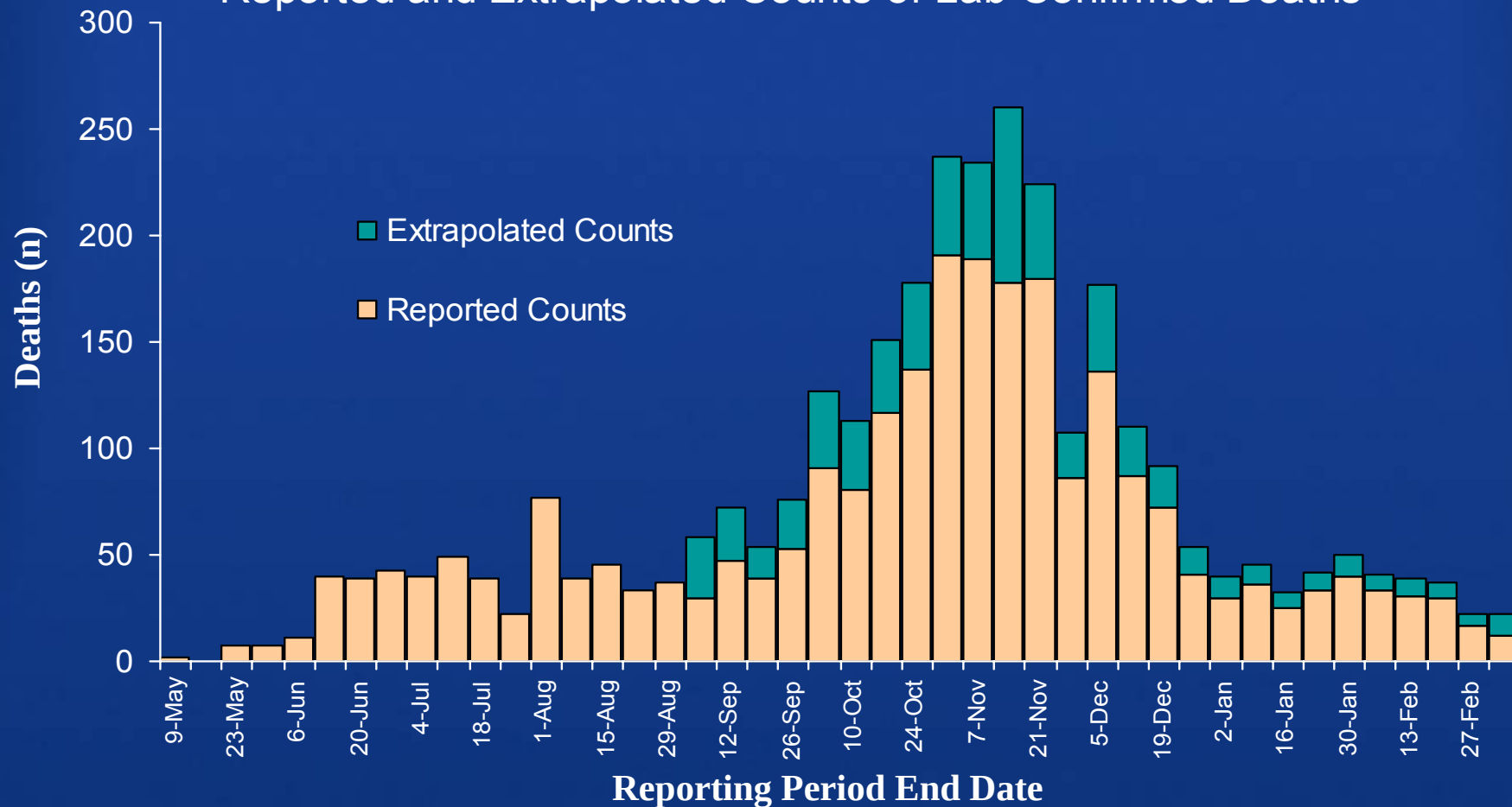
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Reported and Extrapolated Counts of Lab-Confirmed Deaths



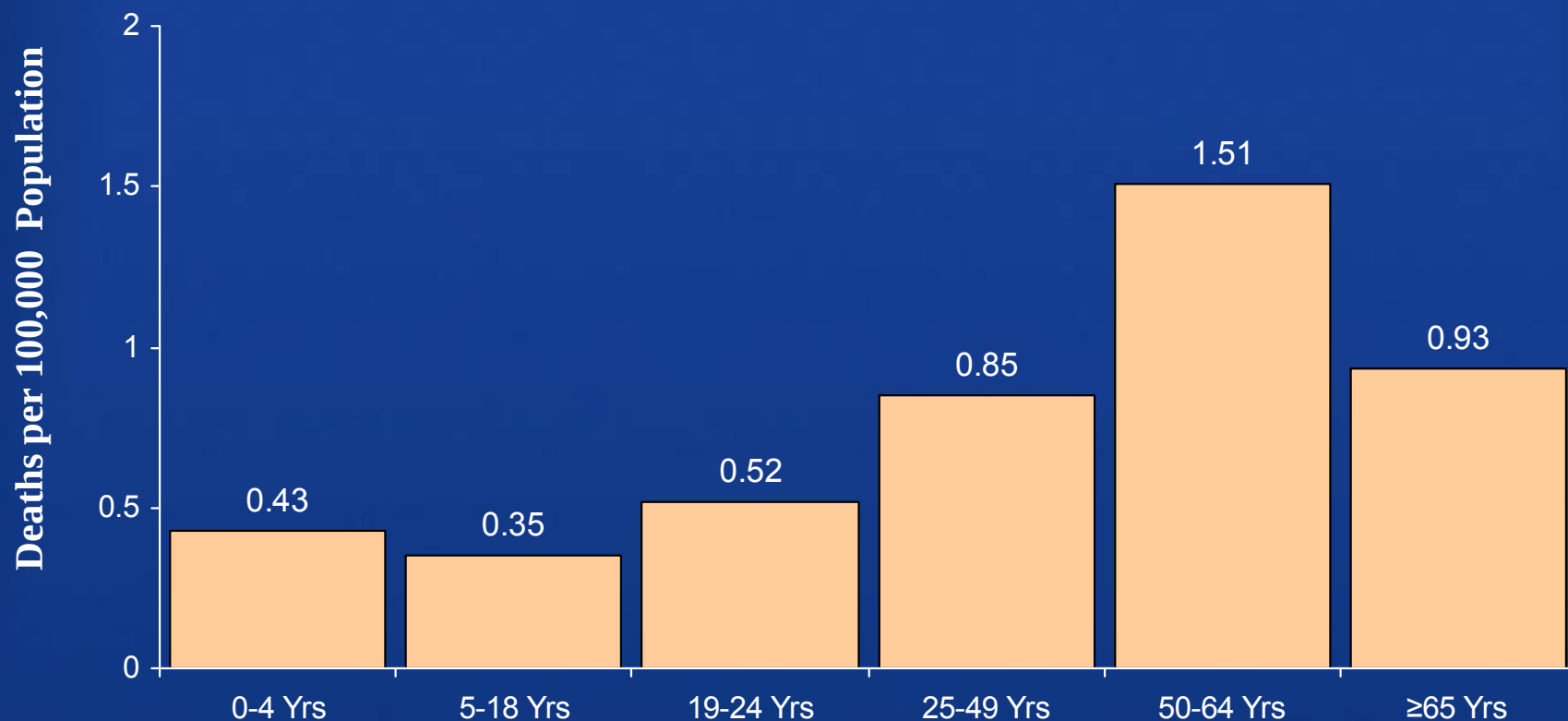
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Cumulative Lab-Confirmed Death Rate by Age Group (n=2,042)*



*Deaths with unknown ages are included (n=11) in All Ages rate. Excludes jurisdictions for which age distribution information is not available.
Rate / 100,000 by Single Year Age Groups: Denominator source: 2008 Census Estimates, U.S. Census Bureau at:
<http://www.census.gov/popest/national/asrh/files/NC-EST2007-ALLDATA-R-File24.csv>



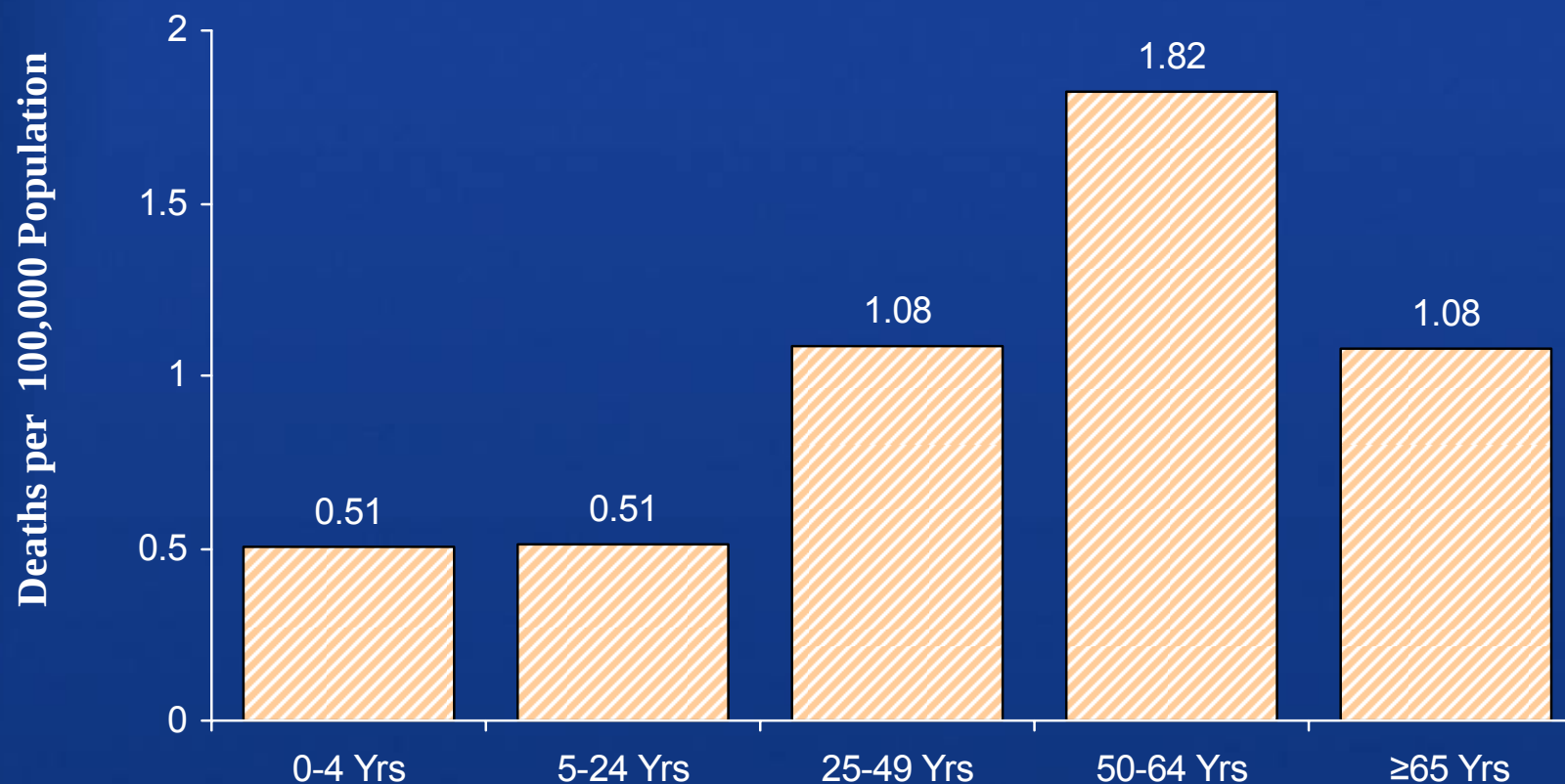
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
2009-H1N1 April through March 6, 2010

Cumulative Lab-Confirmed Death Rate by Age Group (n=2,635)*



*Deaths with unknown ages are included (n=18) in All Ages rate.

*Rate / 100,000 by Single Year Age Groups: Denominator source: 2008 Census Estimates, U.S. Census Bureau at:

<http://www.census.gov/popest/national/asrh/files/NC-EST2007-ALLDATA-R-File24.csv>



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Hospitalization

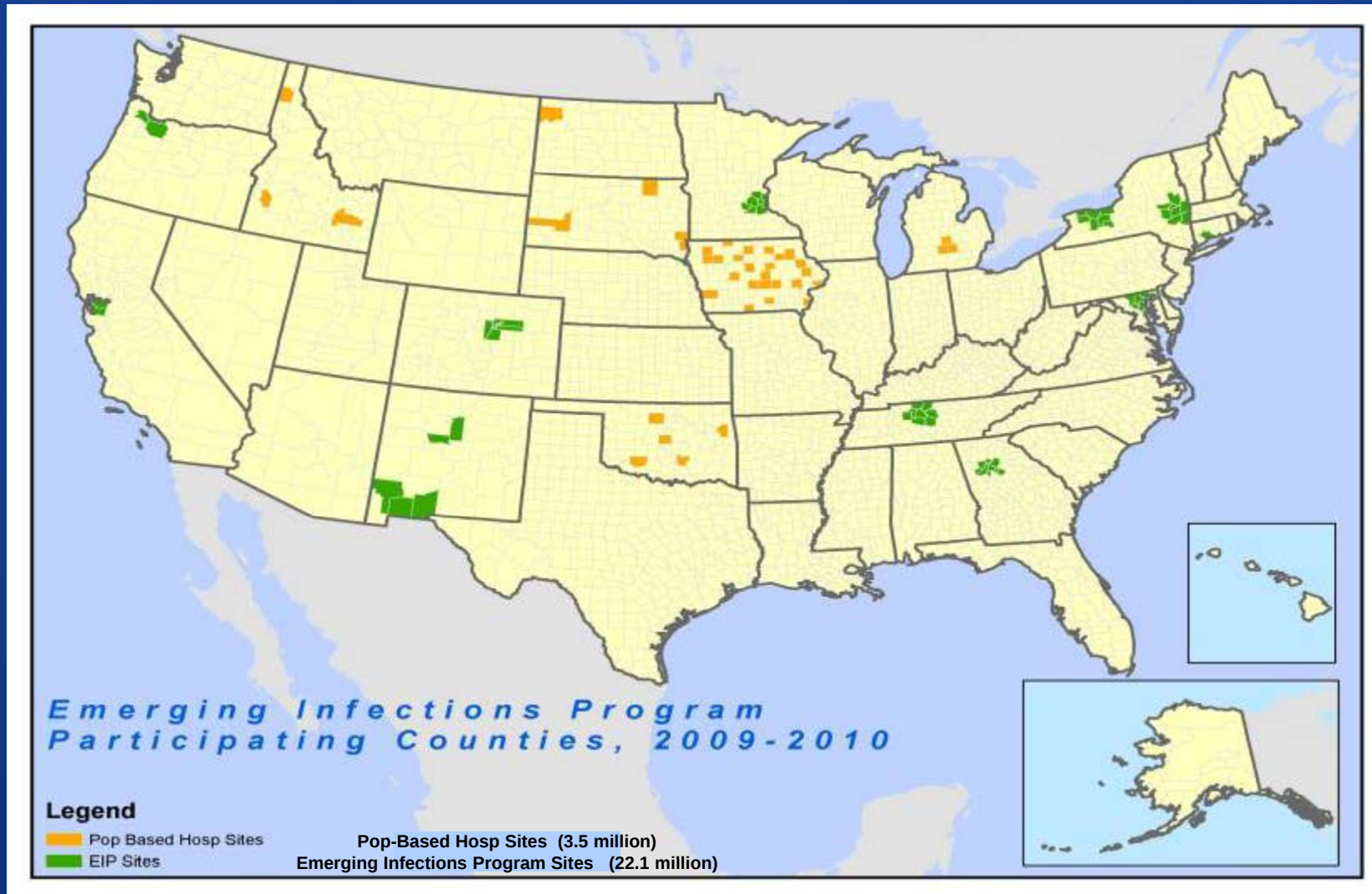


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Laboratory-Confirmed Influenza Hospitalization Surveillance, 2009-2010



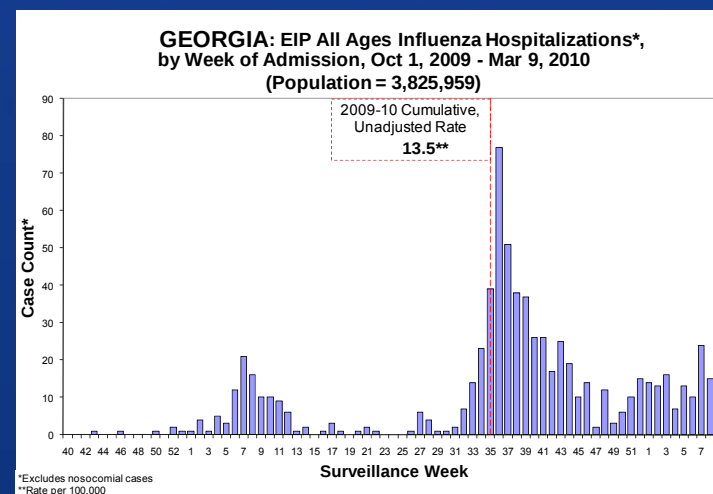
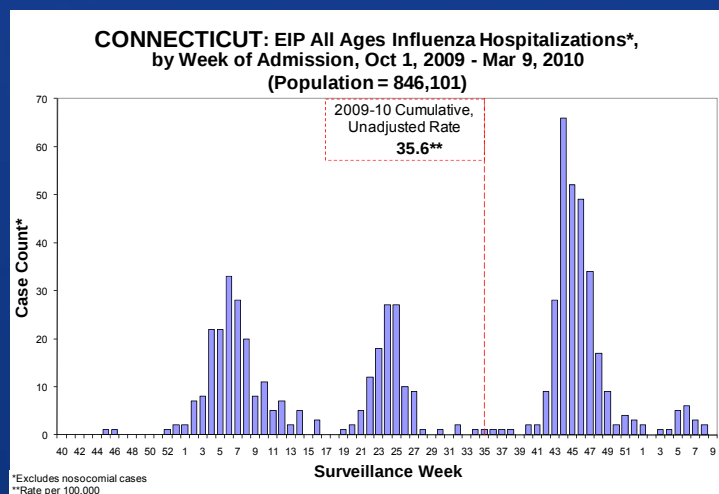
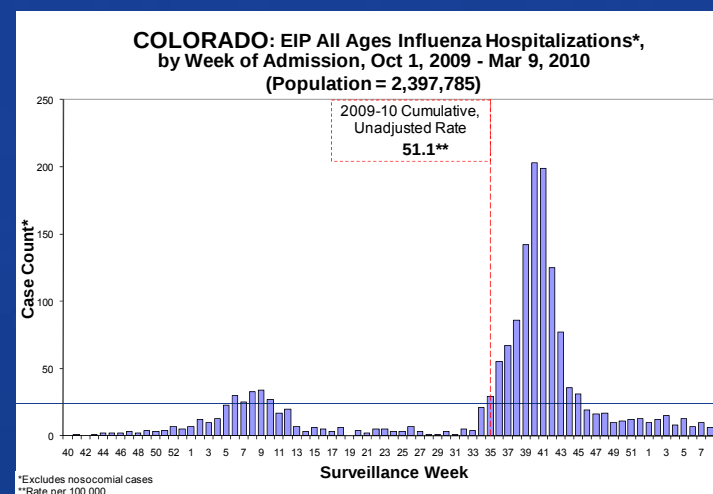
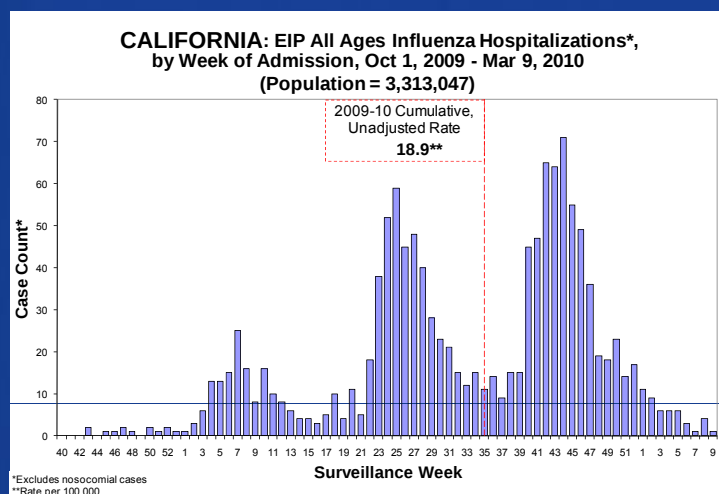
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Epidemiology/Surveillance

EIP Counts by Week by Site



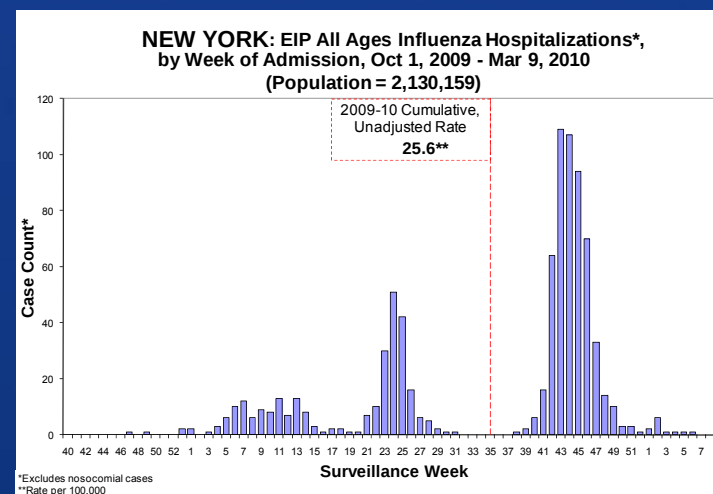
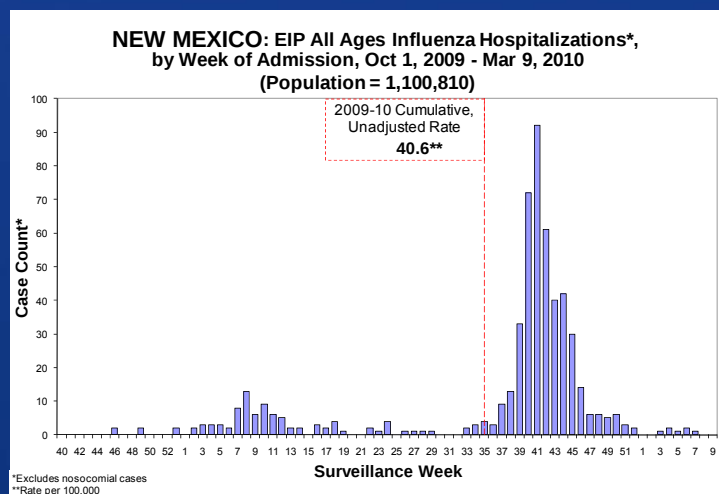
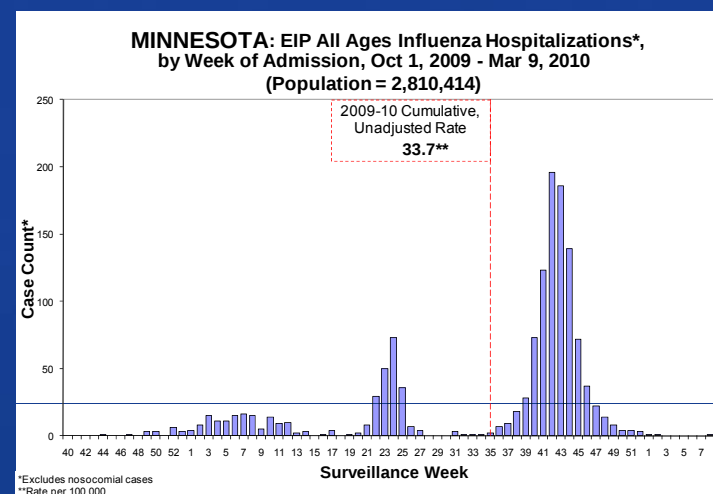
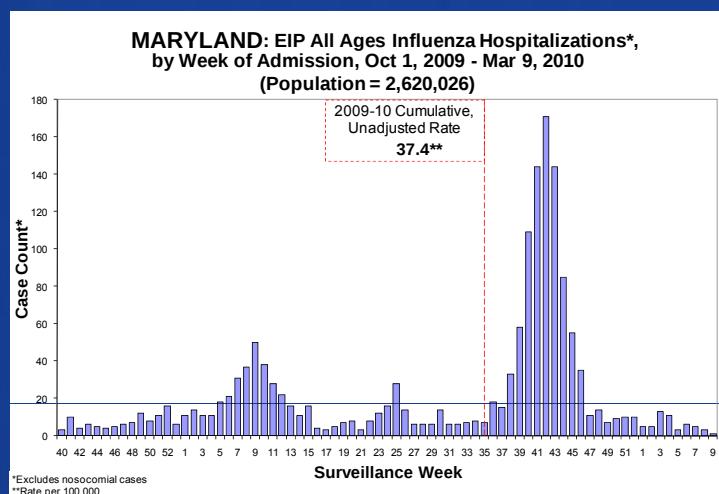
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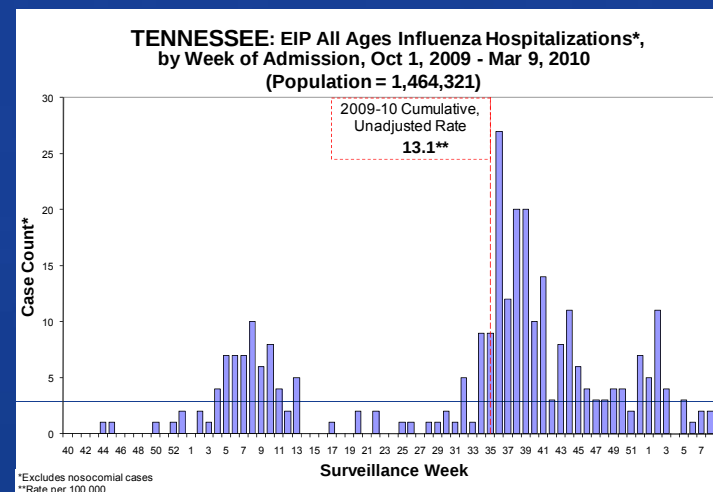
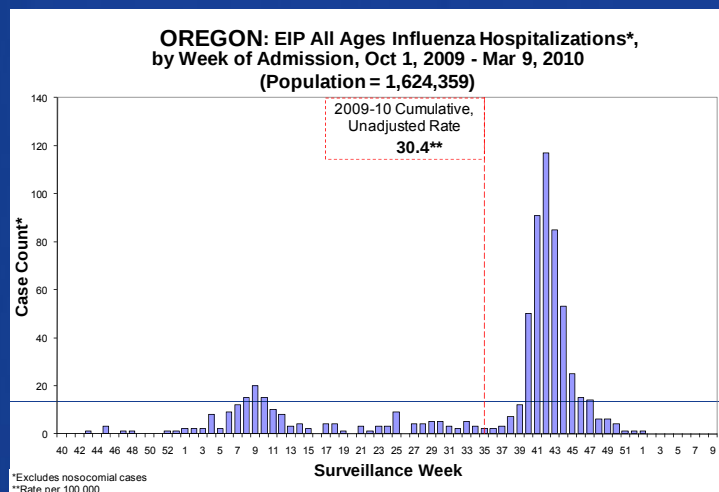
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Epidemiology/Surveillance

EIP Counts by Week by Site



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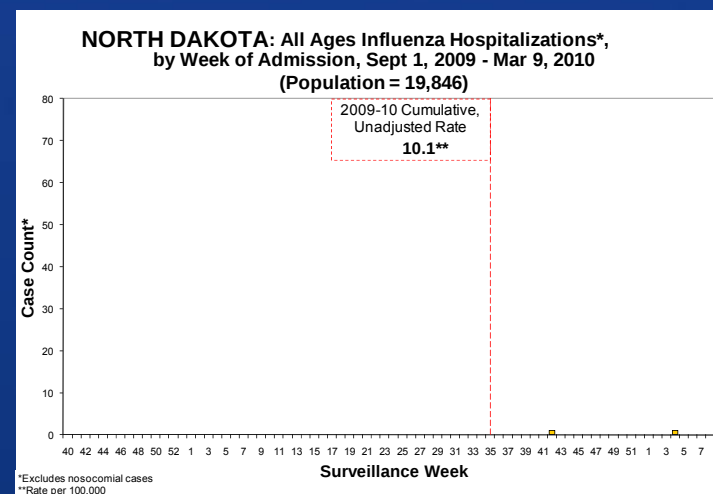
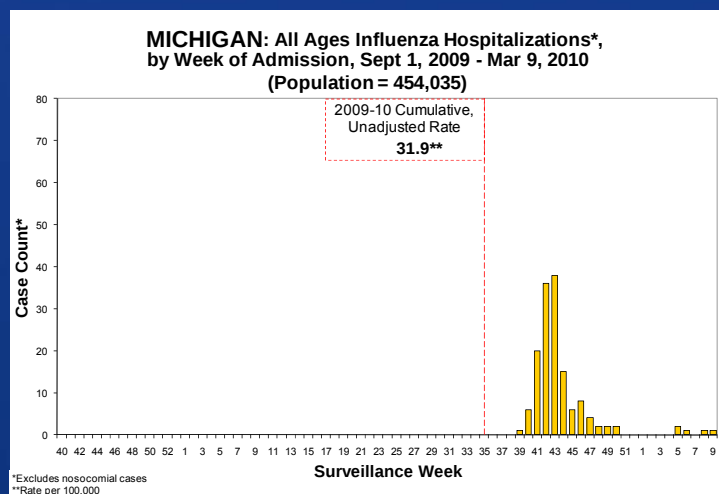
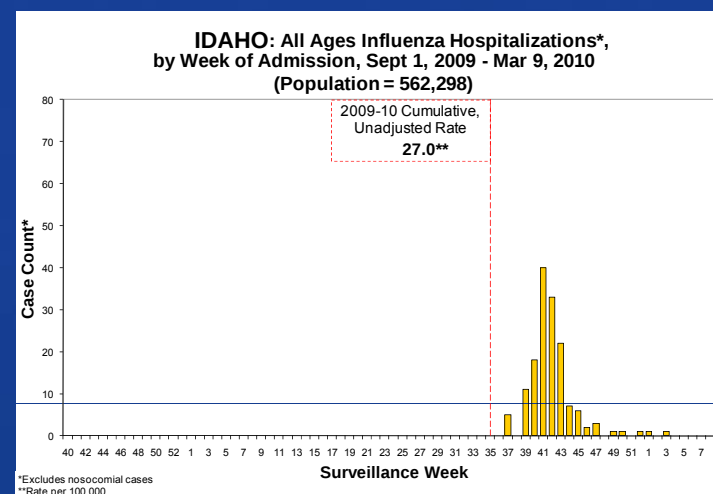
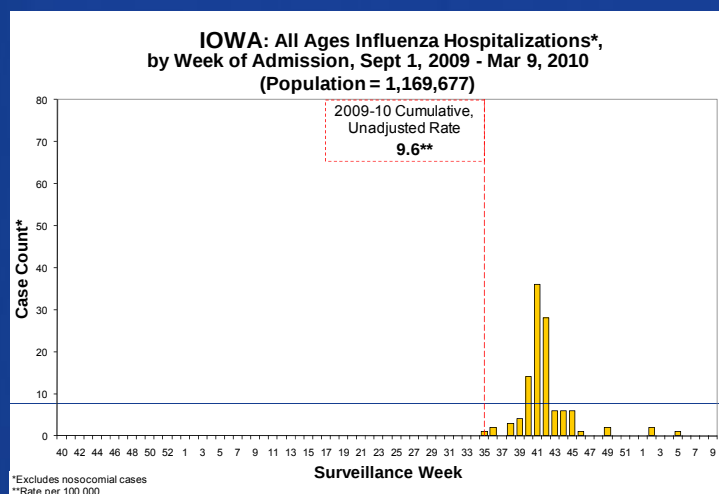
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Epidemiology/Surveillance

Influenza Hospitalization: New Sites

Counts by Week by Site



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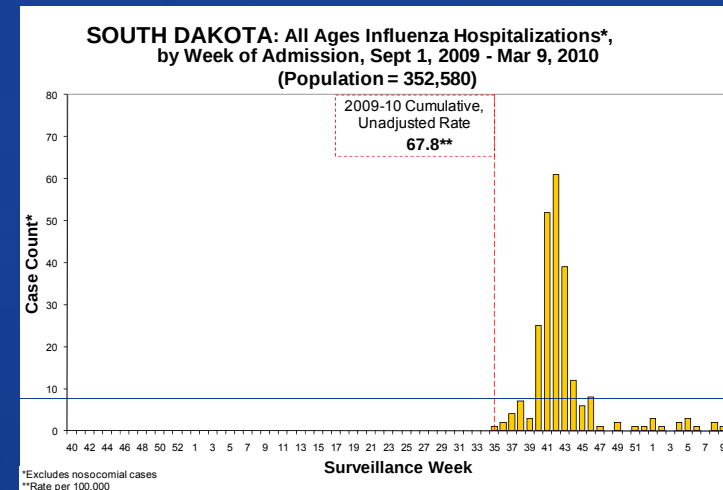
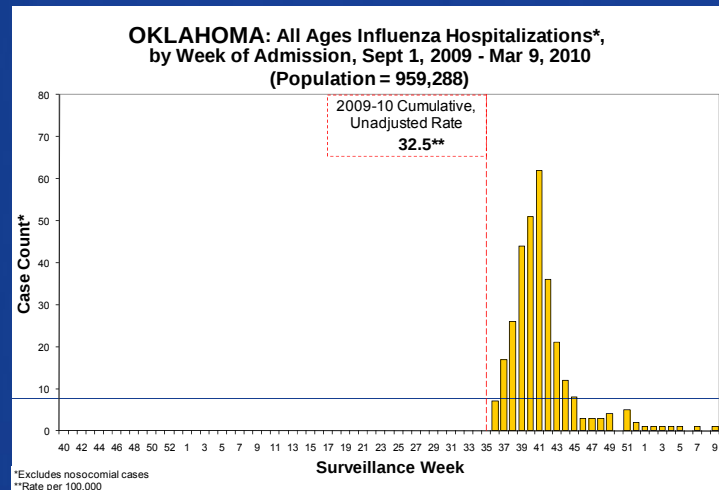
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Epidemiology/Surveillance

Influenza Hospitalization: *New Sites*

Counts by Week by Site



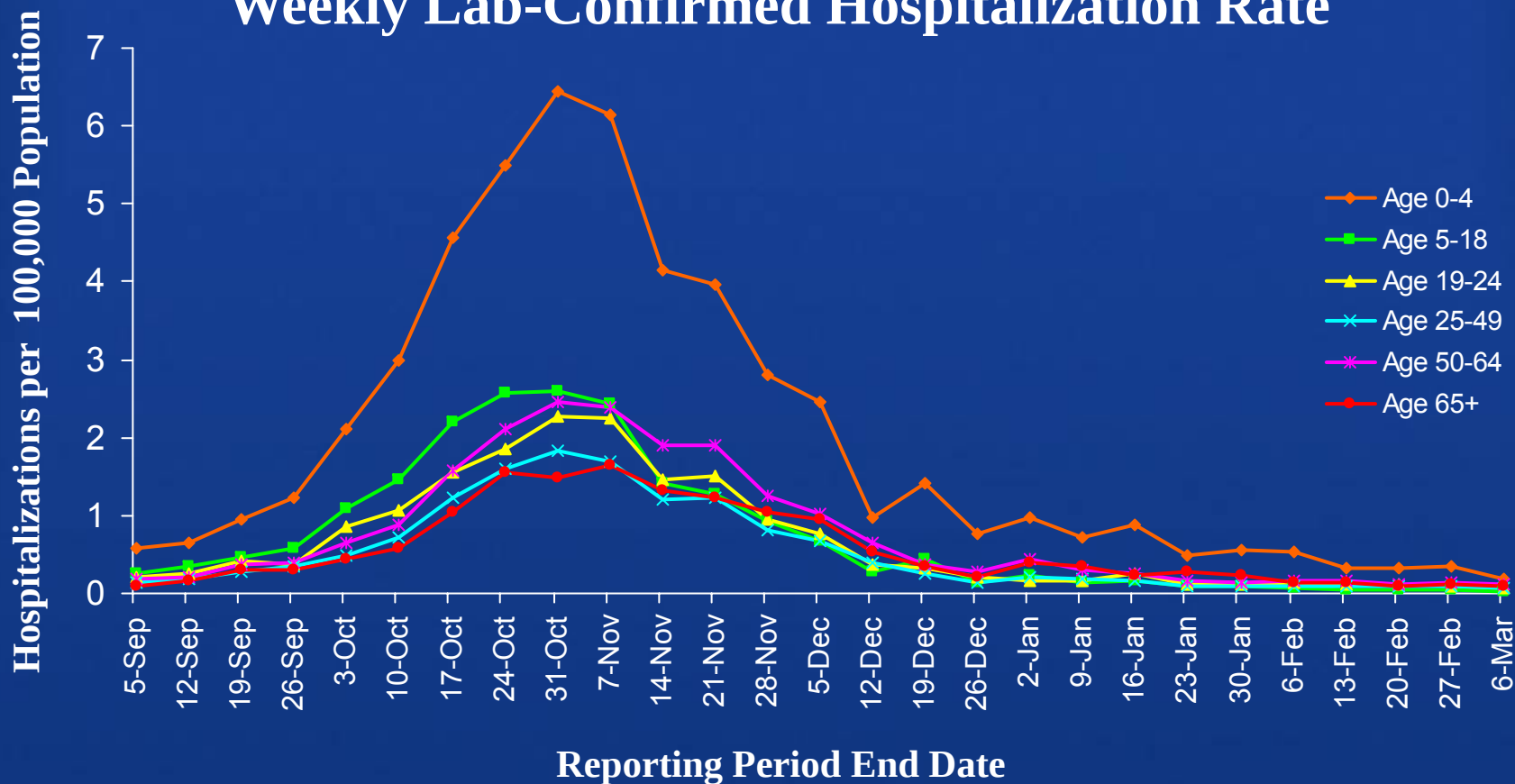
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Weekly Lab-Confirmed Hospitalization Rate



Excludes jurisdictions for which age distribution information is not available. Rate / 100,000 by Single Year Age Groups: Denominator source: 2008 Census Estimates, U.S. Census Bureau at: <http://www.census.gov/popest/national/asrh/files/NC-EST2007-ALLDATA-R-File24.csv>



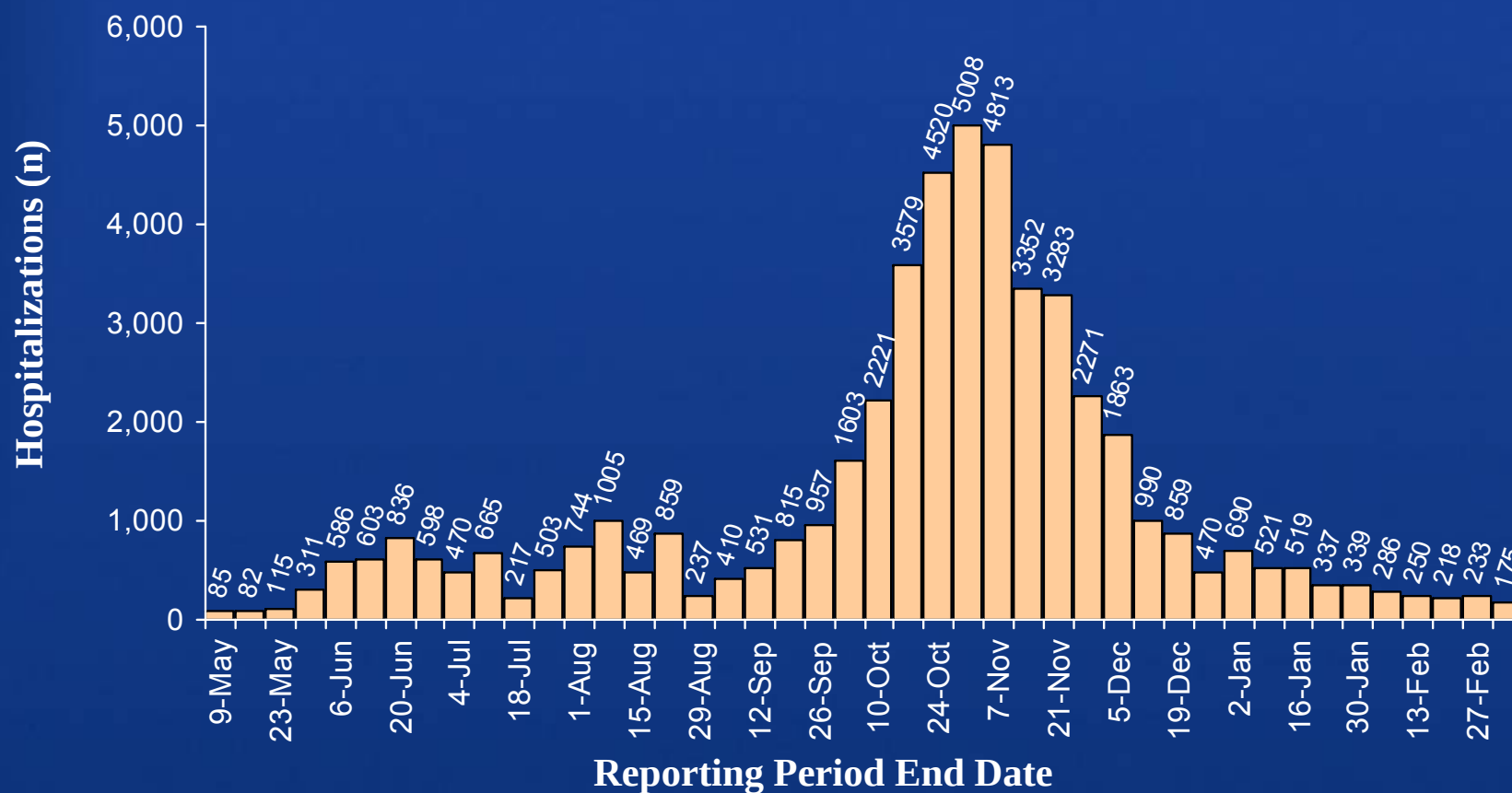
novel 2009-H1N1 – 12 MAR 2010

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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Weekly Reported Lab-Confirmed Hospitalizations (n=50,327)



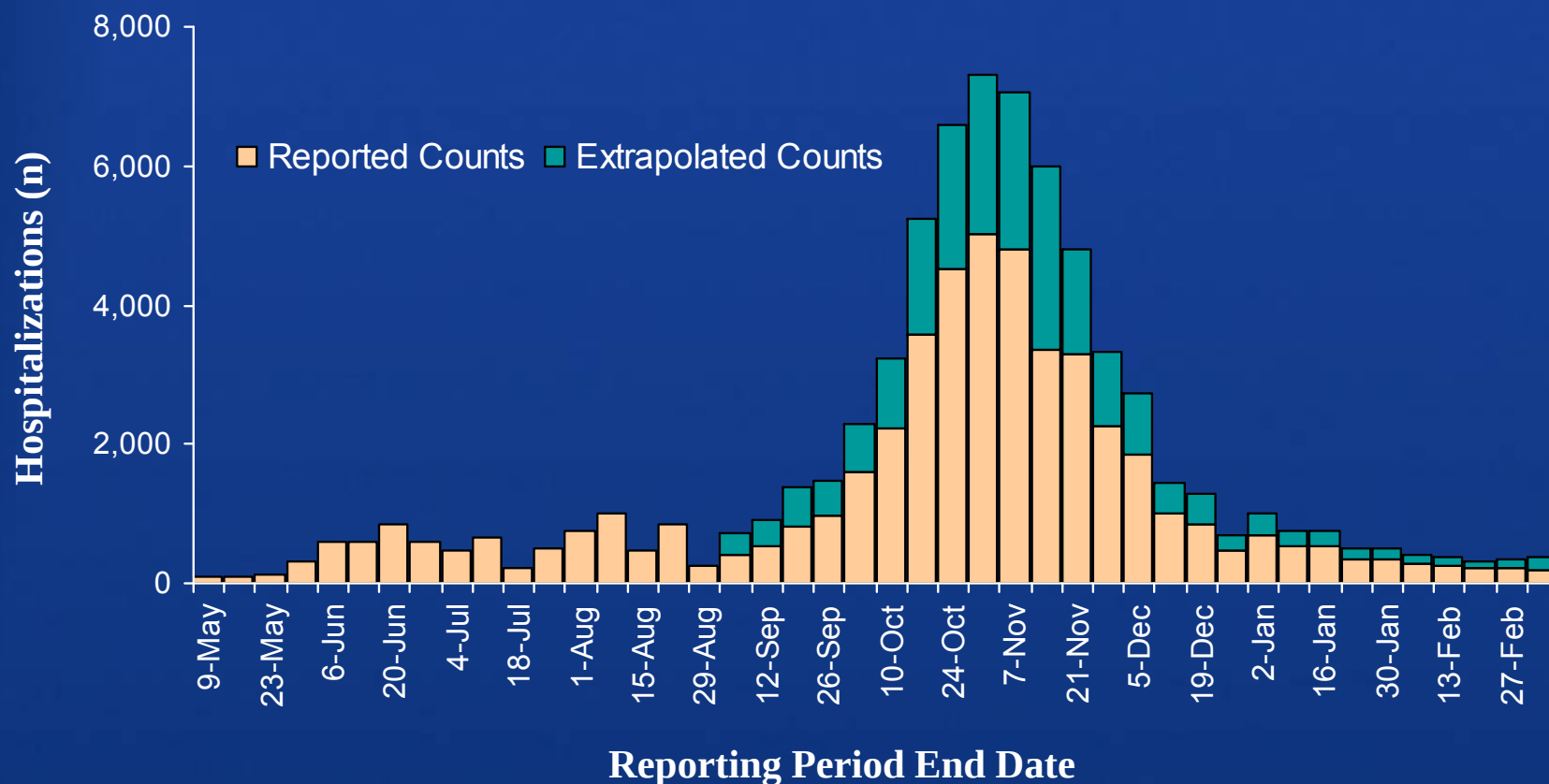
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Reported and Extrapolated Counts of Lab-Confirmed Hospitalizations



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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 9 – 16 MAR 2010

Cumulative Lab-Confirmed Hospitalization Rate by Age Group (n=41,113)*



*Numbers are cumulative from start of MMWR week 35 (August 30, 2009). Hospitalizations with unknown ages are included (n=210) in All Ages rate. Excludes jurisdictions for which age distribution information is not available. Rate / 100,000 by Single Year Age Groups: Denominator source: 2008 Census Estimates, U.S. Census Bureau at: <http://www.census.gov/popest/national/asrh/files/NC-EST2007-ALLDATA-R-File24.csv>



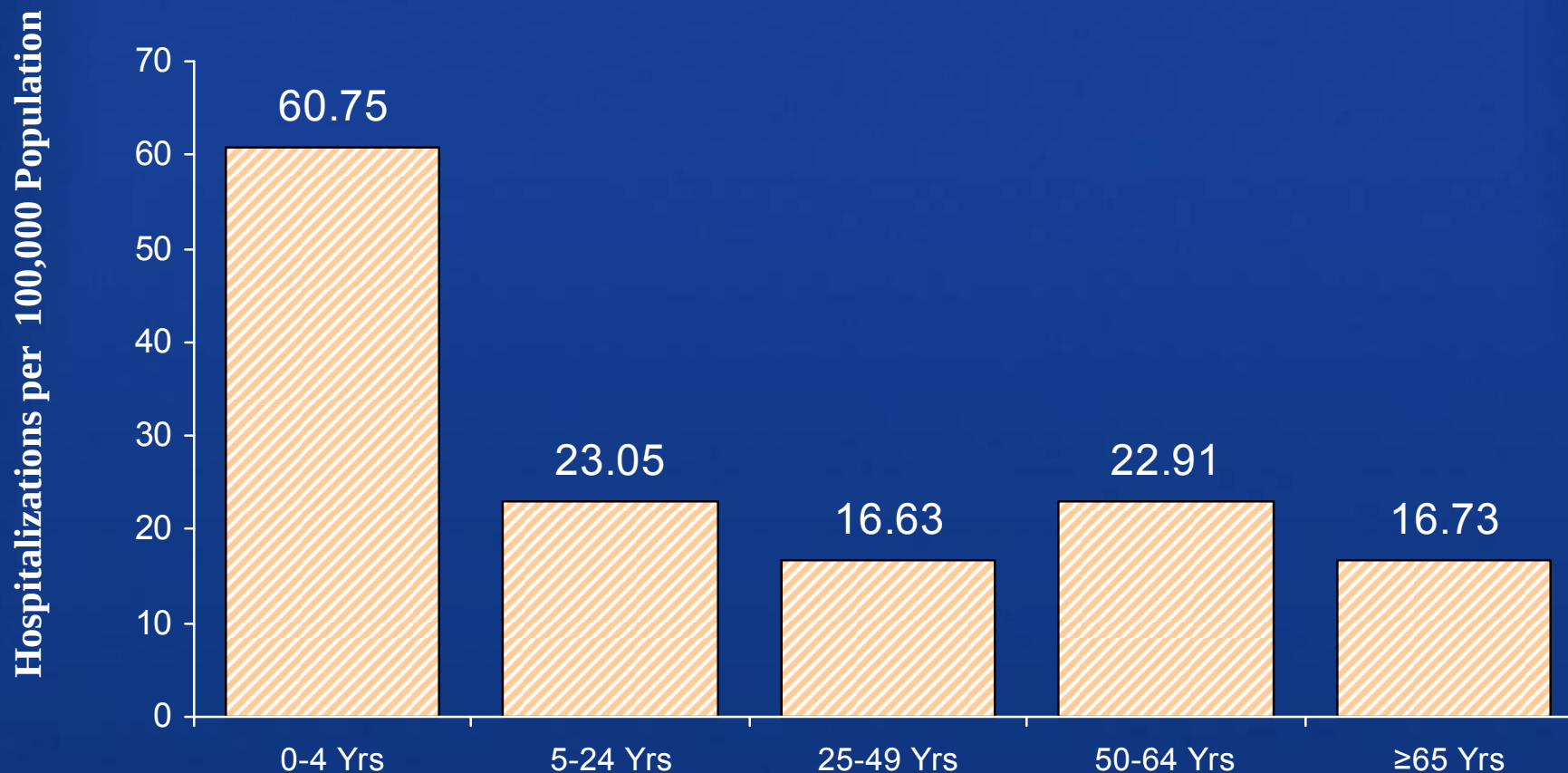
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
2009-H1N1 April through March 6, 2010

Cumulative Lab-Confirmed Hospitalization Rate by Age Group (n=50,327)*



*Hospitalizations with unknown ages are included (n=637) in All Ages rate. Rate / 100,000 by Single Year Age Groups: Denominator source: 2008 Census Estimates, U.S. Census Bureau at: <http://www.census.gov/popest/national/asrh/files/NC-EST2007-ALLDATA-R-File24.csv>

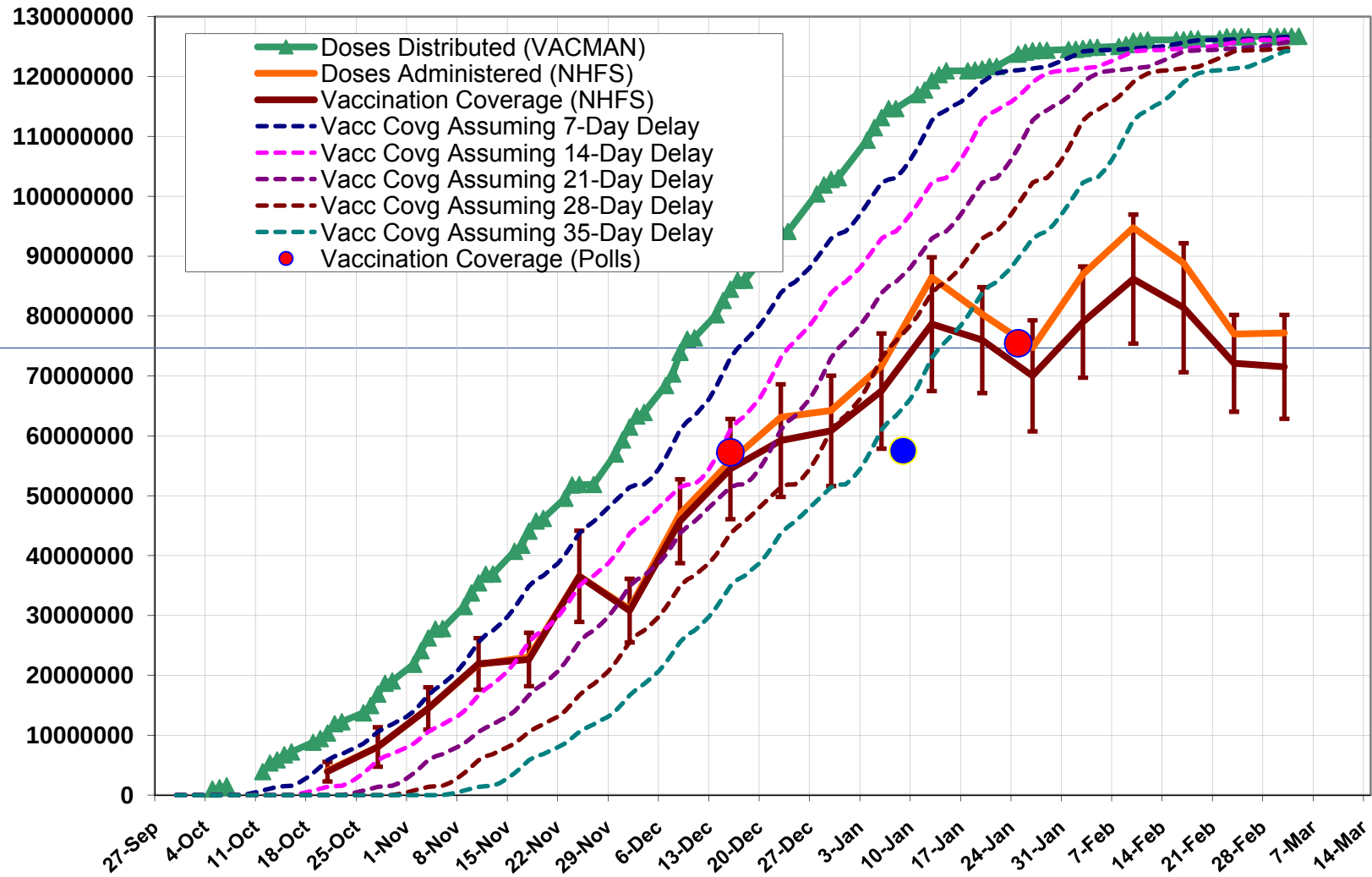


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Vaccination Distribution and Vaccination Coverage, Assuming Various Time Delays Between Distribution from McKesson and Administration in Individuals



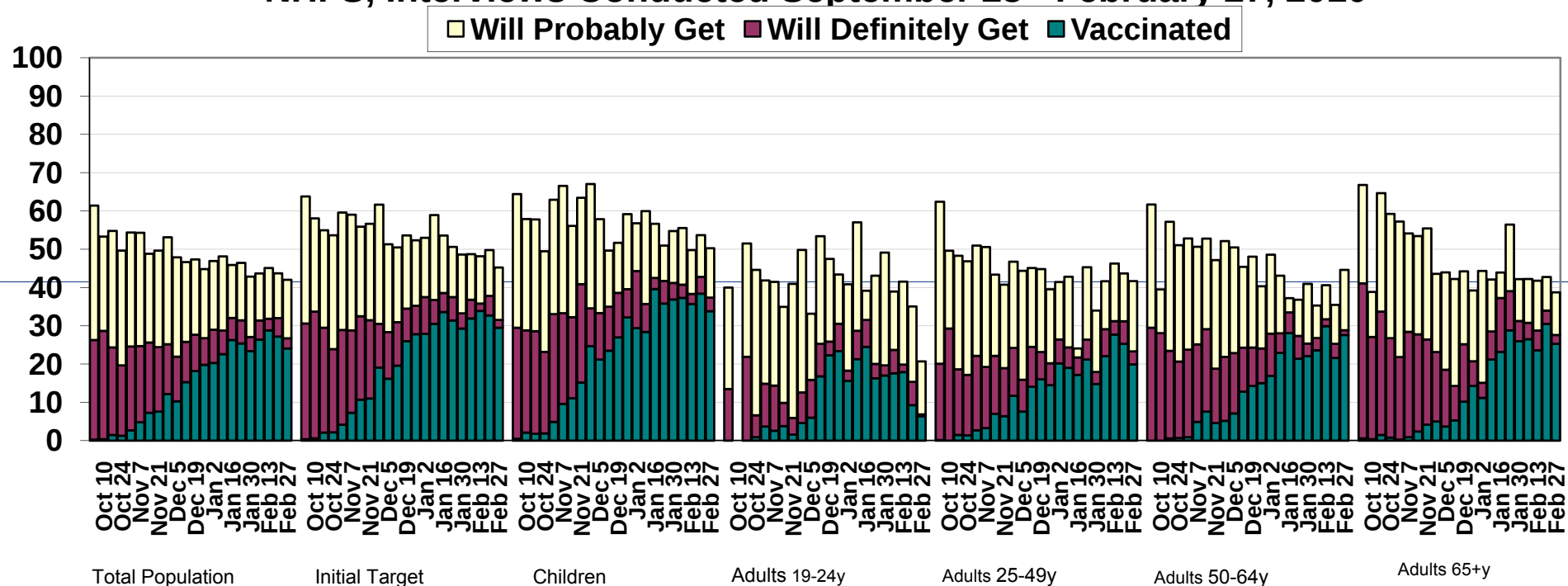
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Projected H1N1 Influenza Vaccination Coverage Based on Reported Intent

NHFS, Interviews Conducted September 28 - February 27, 2010



NOTE: Among the general population, 90% of those who definitely intend to get vaccinated for H1N1 have already done so. The proportion answering “will definitely get” decreases as the proportion vaccinated increases. The proportion answering “will probably get” has been more constant over time, but is also decreasing.



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Epidemiology/Surveillance

Severity: H1N1 2009



**Seasonal
Severity**



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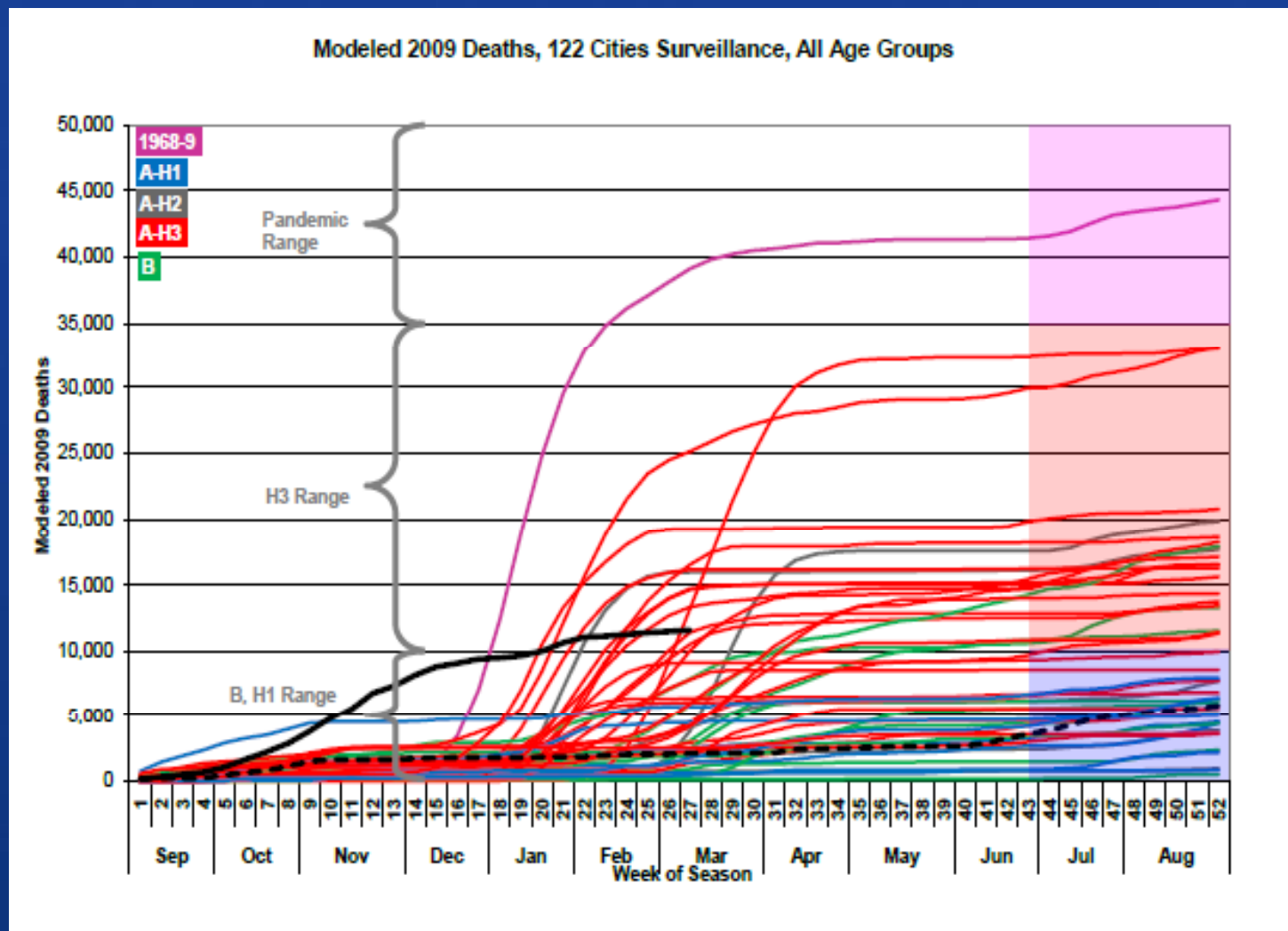
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Epidemiology/Surveillance

Estimated Cumulative Deaths by Week

All ages

Seasonal
Severity



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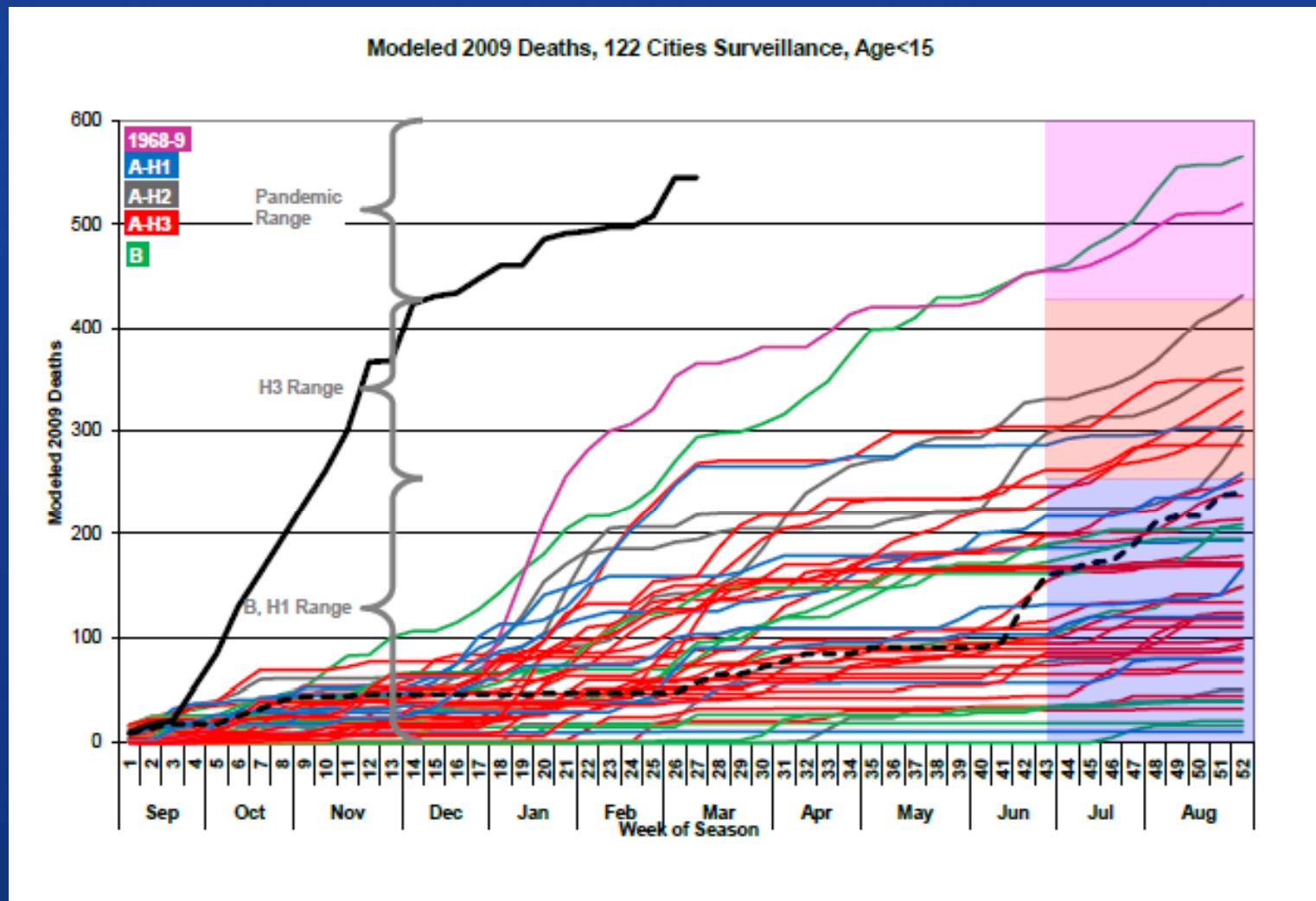
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Epidemiology/Surveillance

Estimated Cumulative Deaths by Week

Age < 15 years

Seasonal
Severity



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Seasonal Severity



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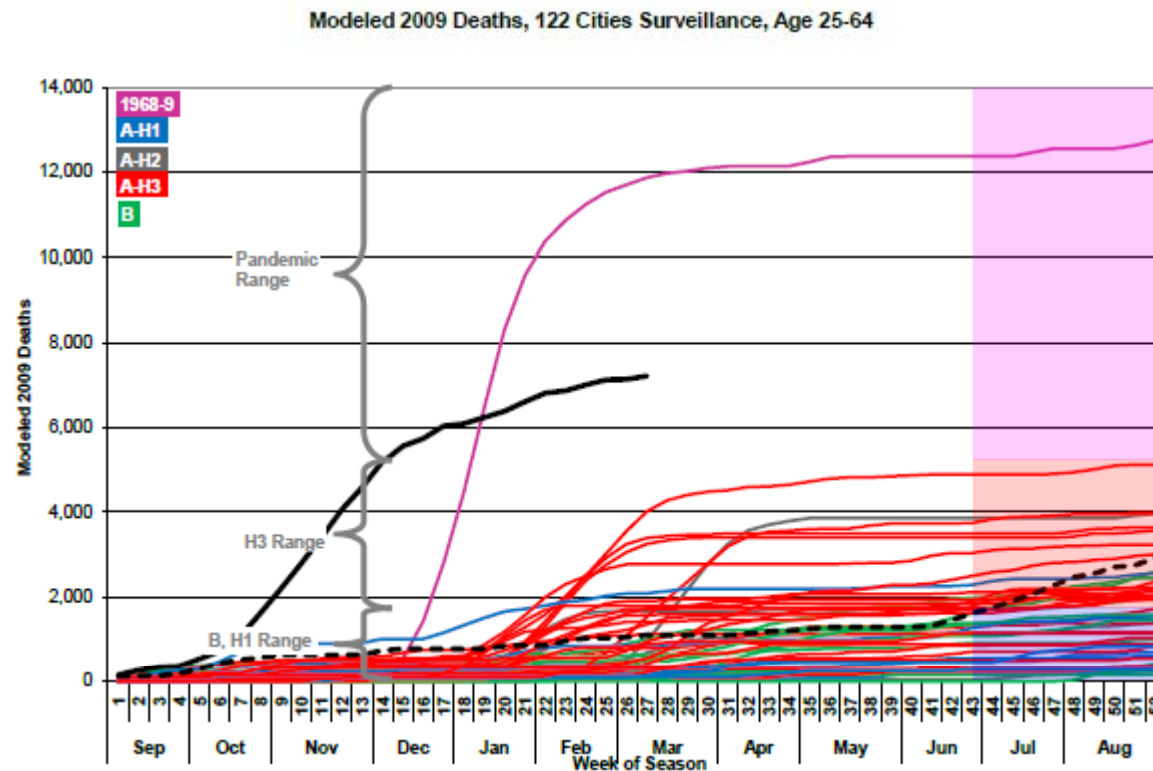
44

Epidemiology/Surveillance

Estimated Cumulative Deaths by Week

Ages 25-64 years

Seasonal
Severity



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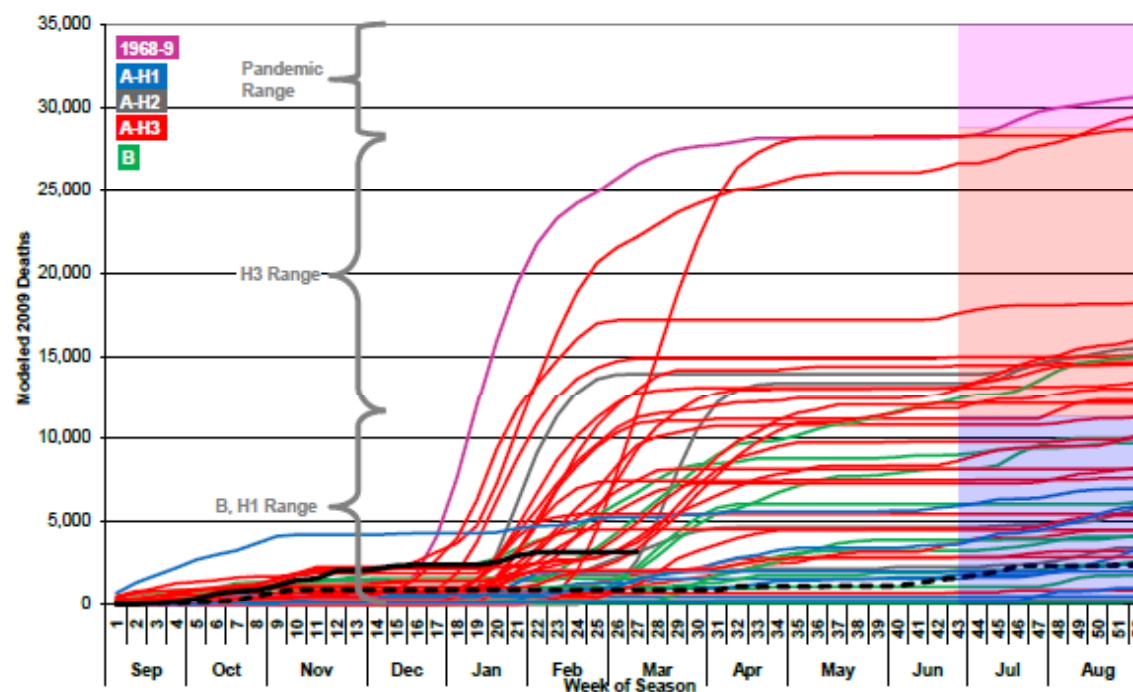
Epidemiology/Surveillance

Estimated Cumulative Deaths by Week

Ages 65 and Older

Seasonal
Severity

Modeled 2009 Deaths, 122 Cities Surveillance, Age 65+



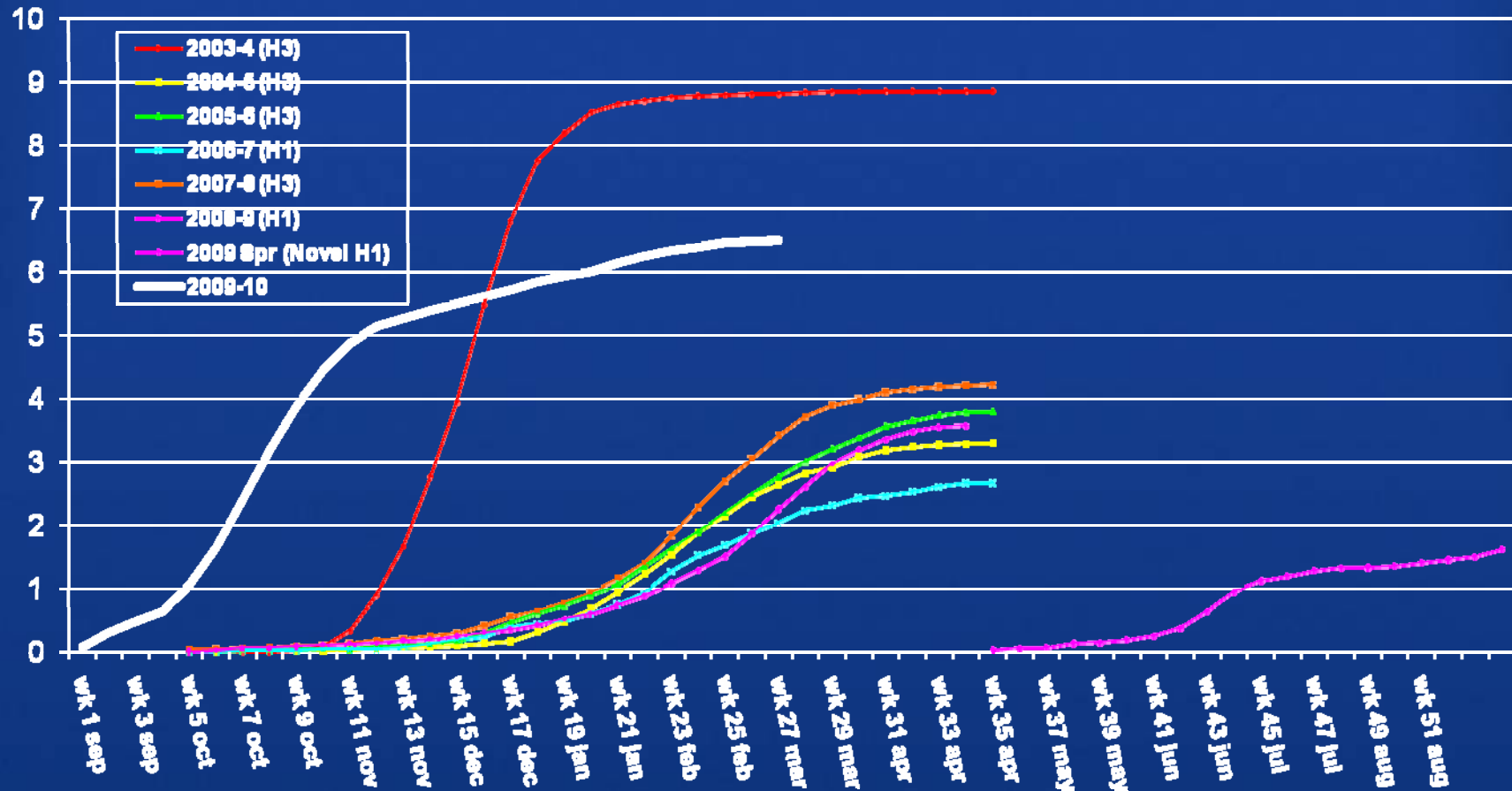
novel 2009-H1N1 – 12 MAR 2010

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Epidemiology/Surveillance

Cumulative rate of hospitalization/ 10,000 population ages 0-4, EIP, 2003-2009



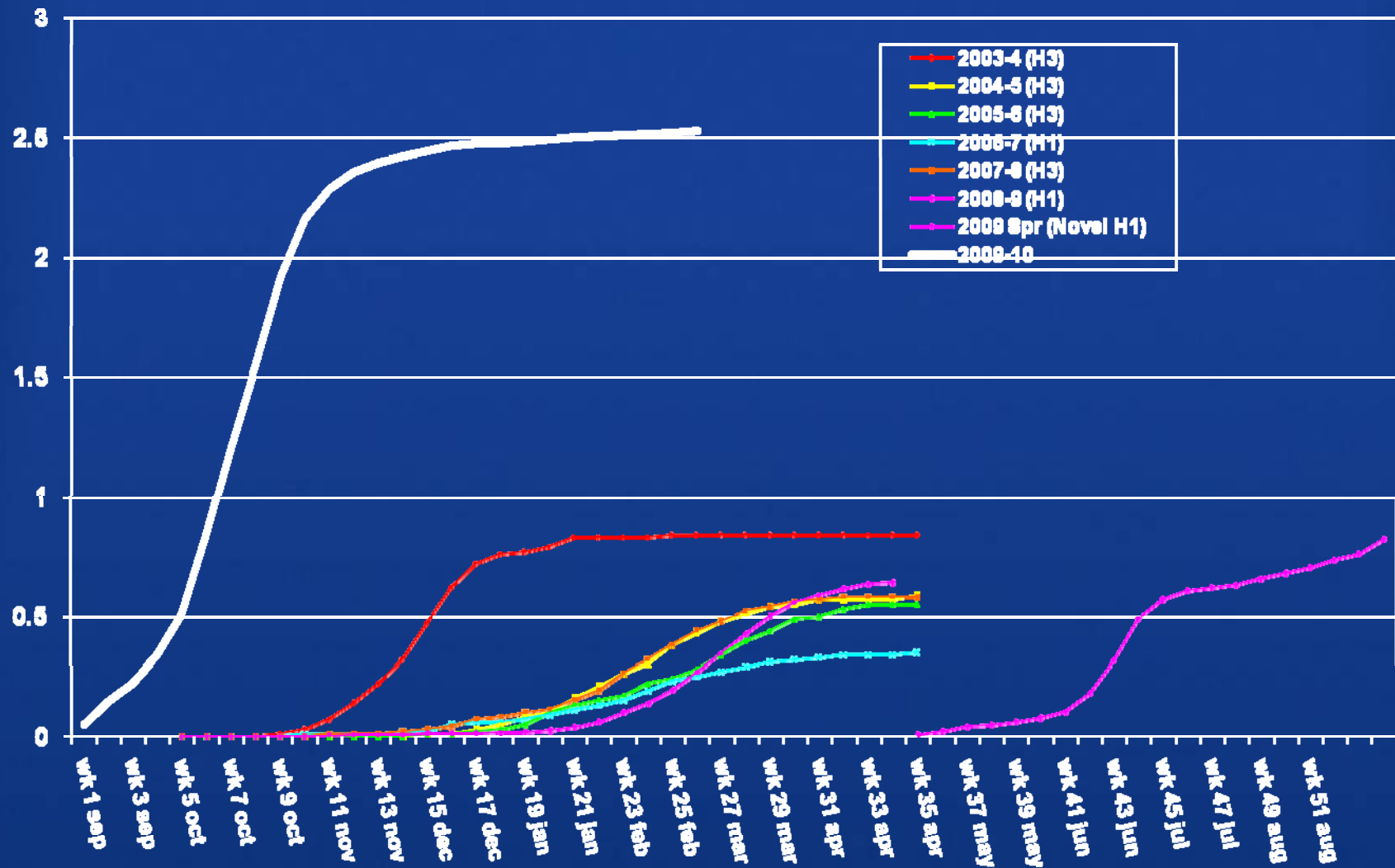
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Epidemiology/Surveillance

Cumulative rate of hospitalization/ 10,000 population ages 5-17, EIP, 2003-2009

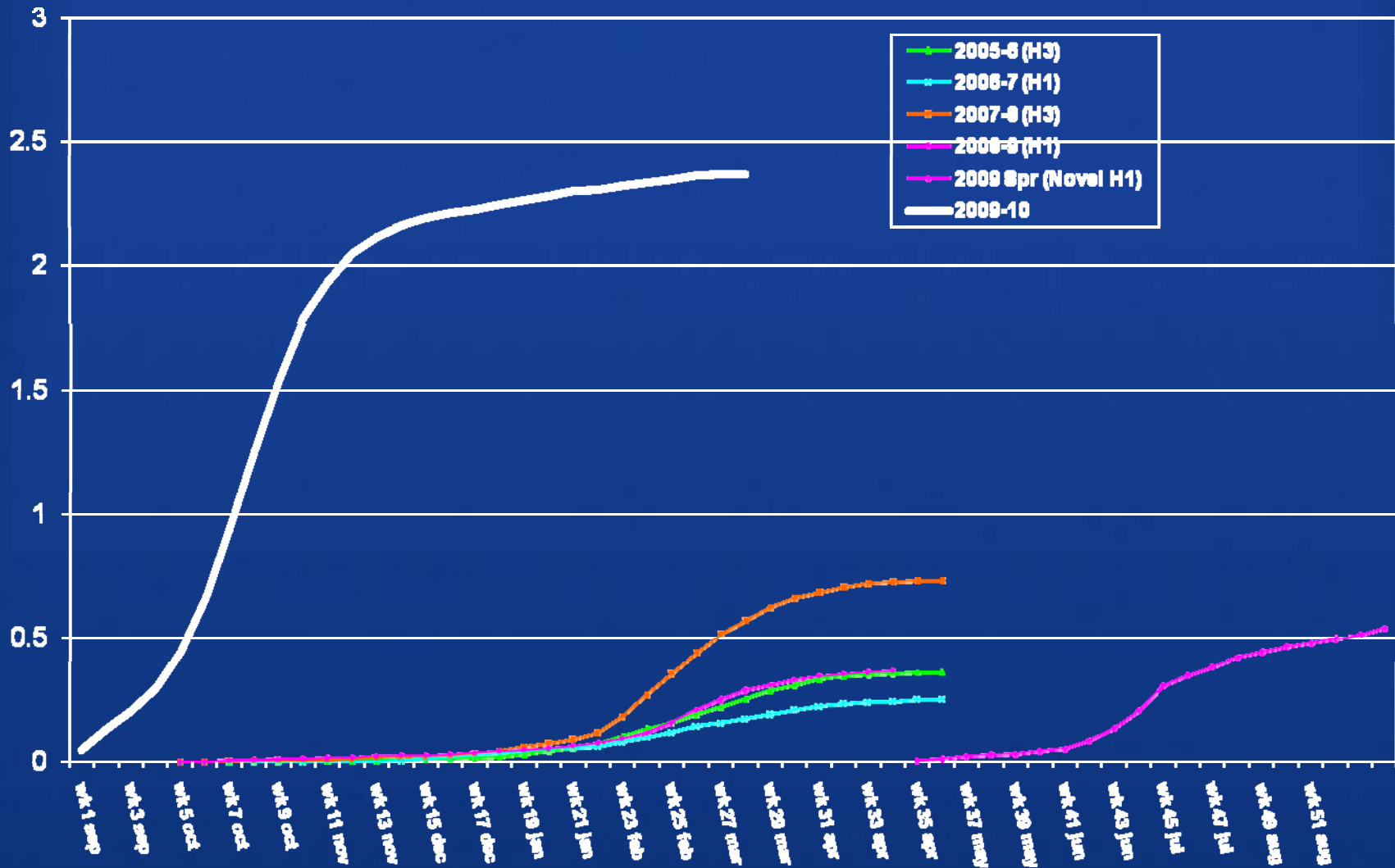


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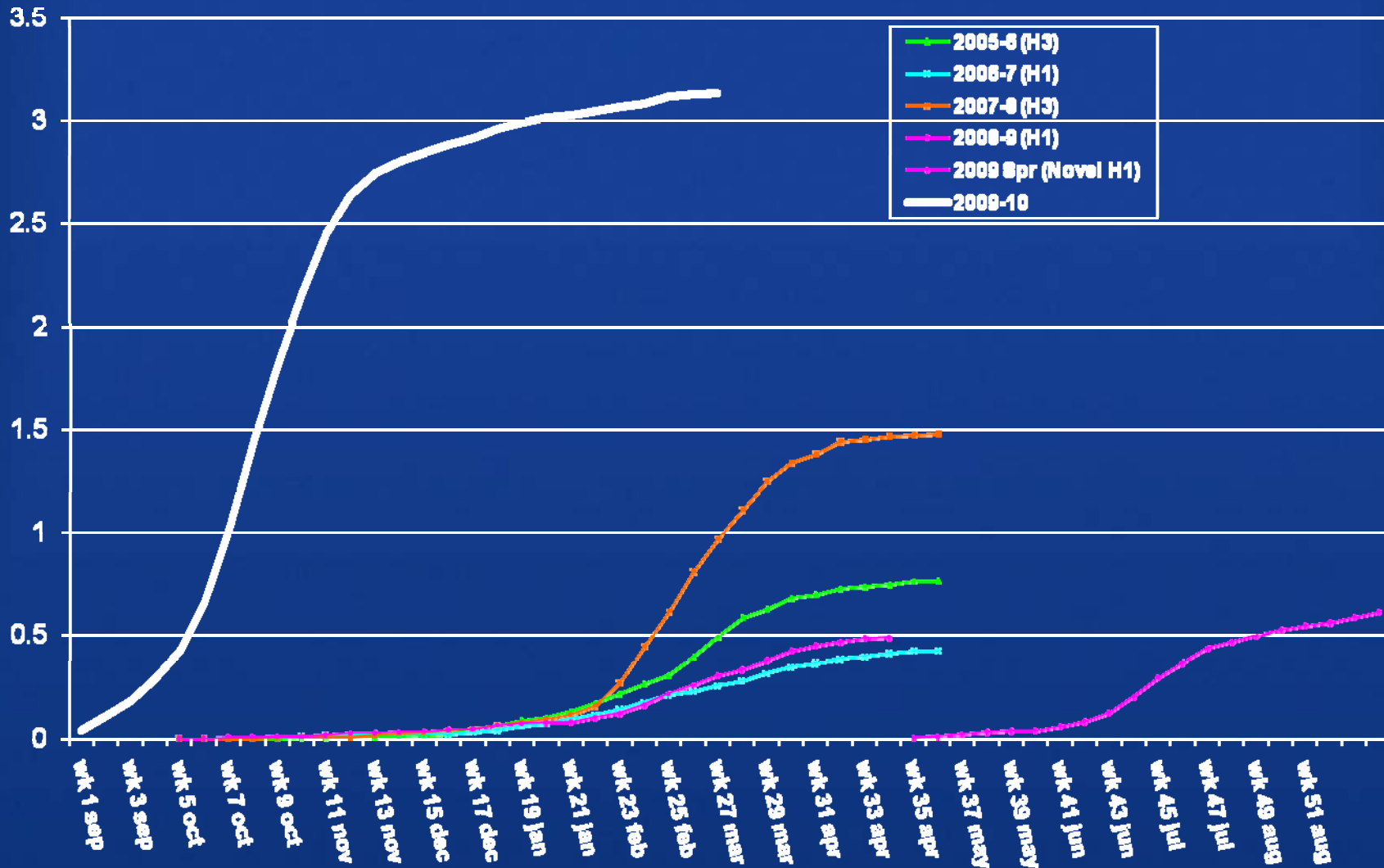
Cumulative rate of hospitalization/ 10,000 population ages 18-49, EIP, 2005-2009



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Cumulative rate of hospitalization/ 10,000 population ages 50-64, EIP, 2005-2009

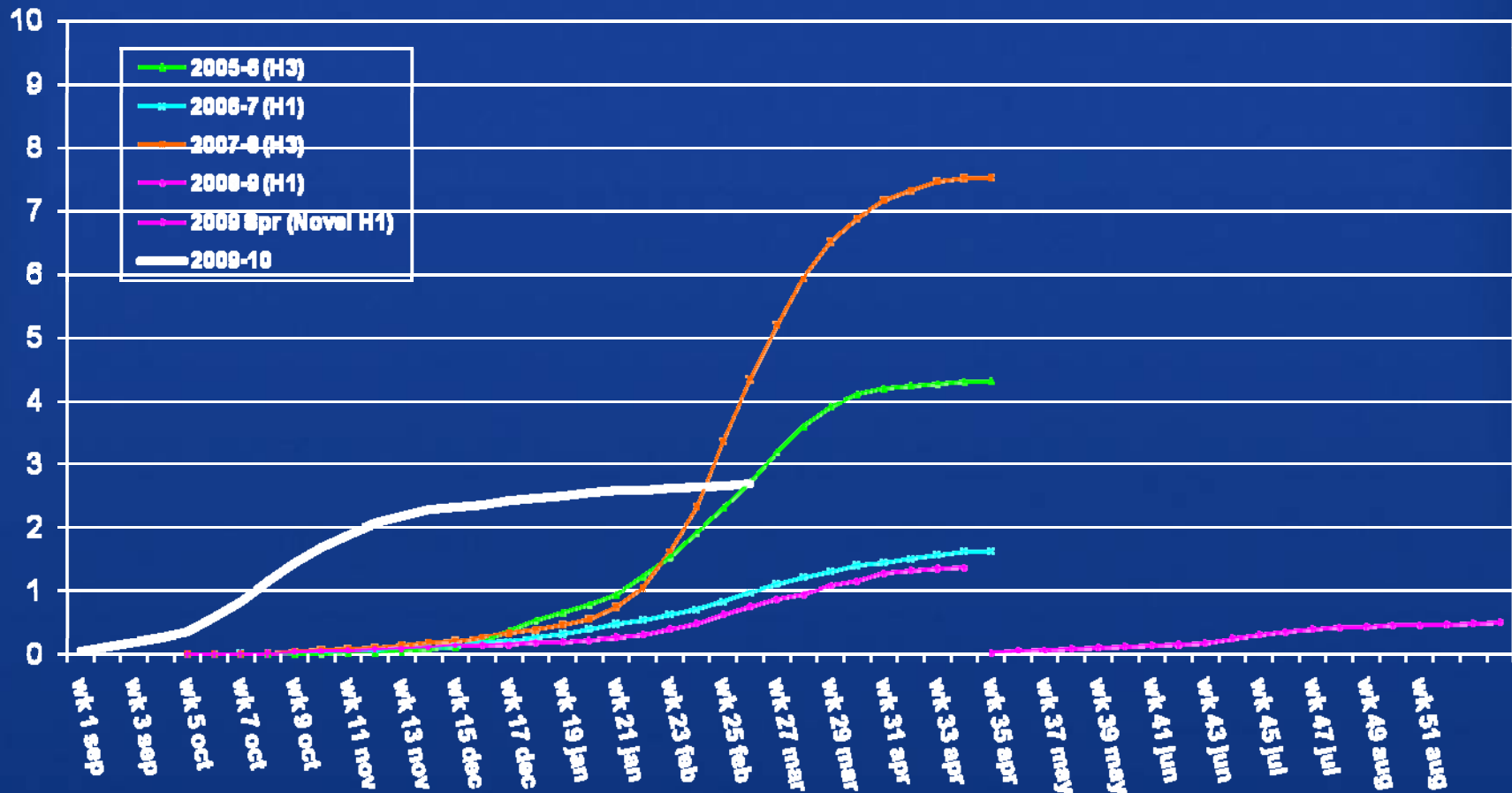


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Epidemiology/Surveillance

Cumulative rate of hospitalization/ 10,000 population ages 65+, EIP, 2005-2009

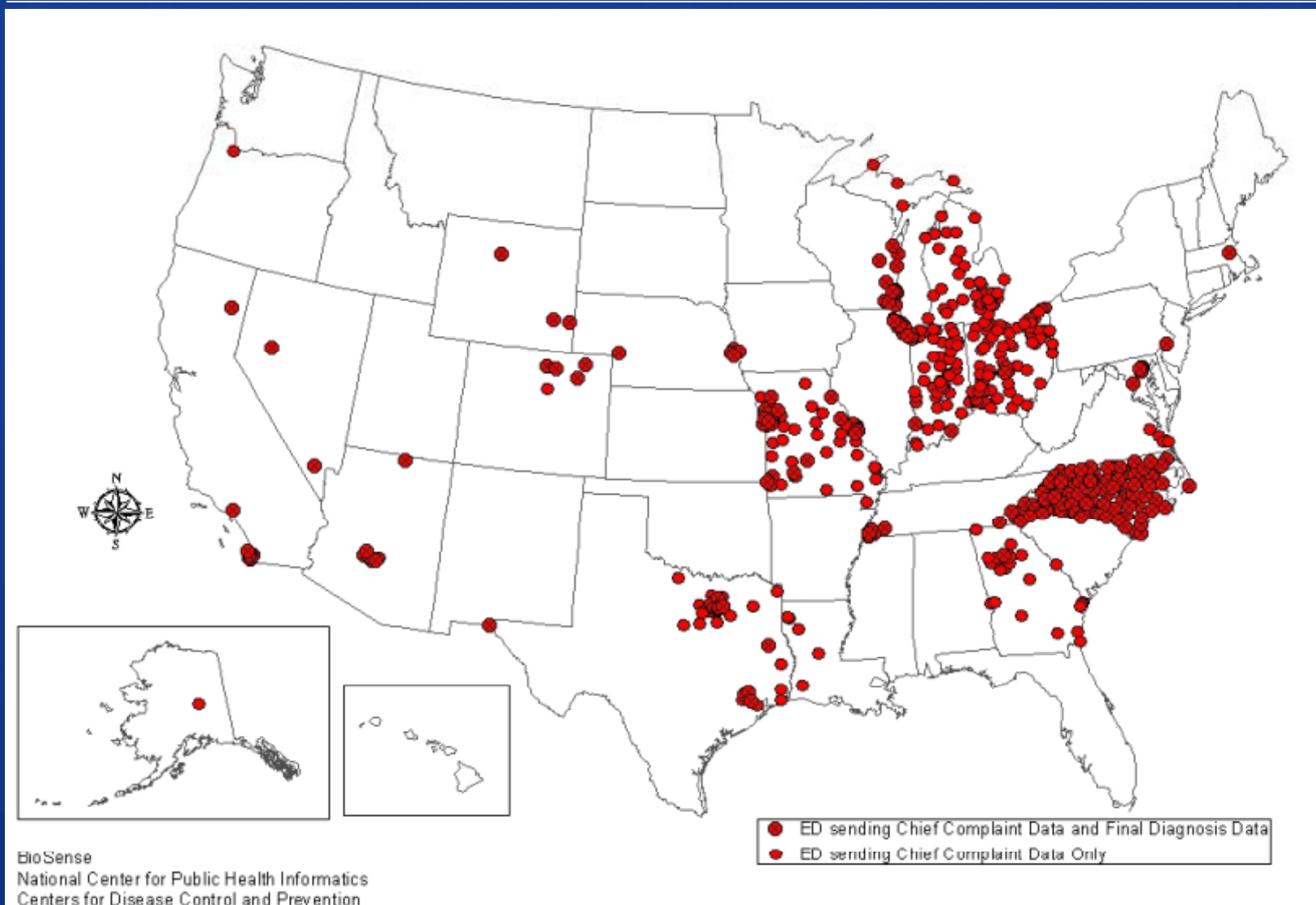


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BioSense Location of BioSense Emergency Departments (ED) (N=569)

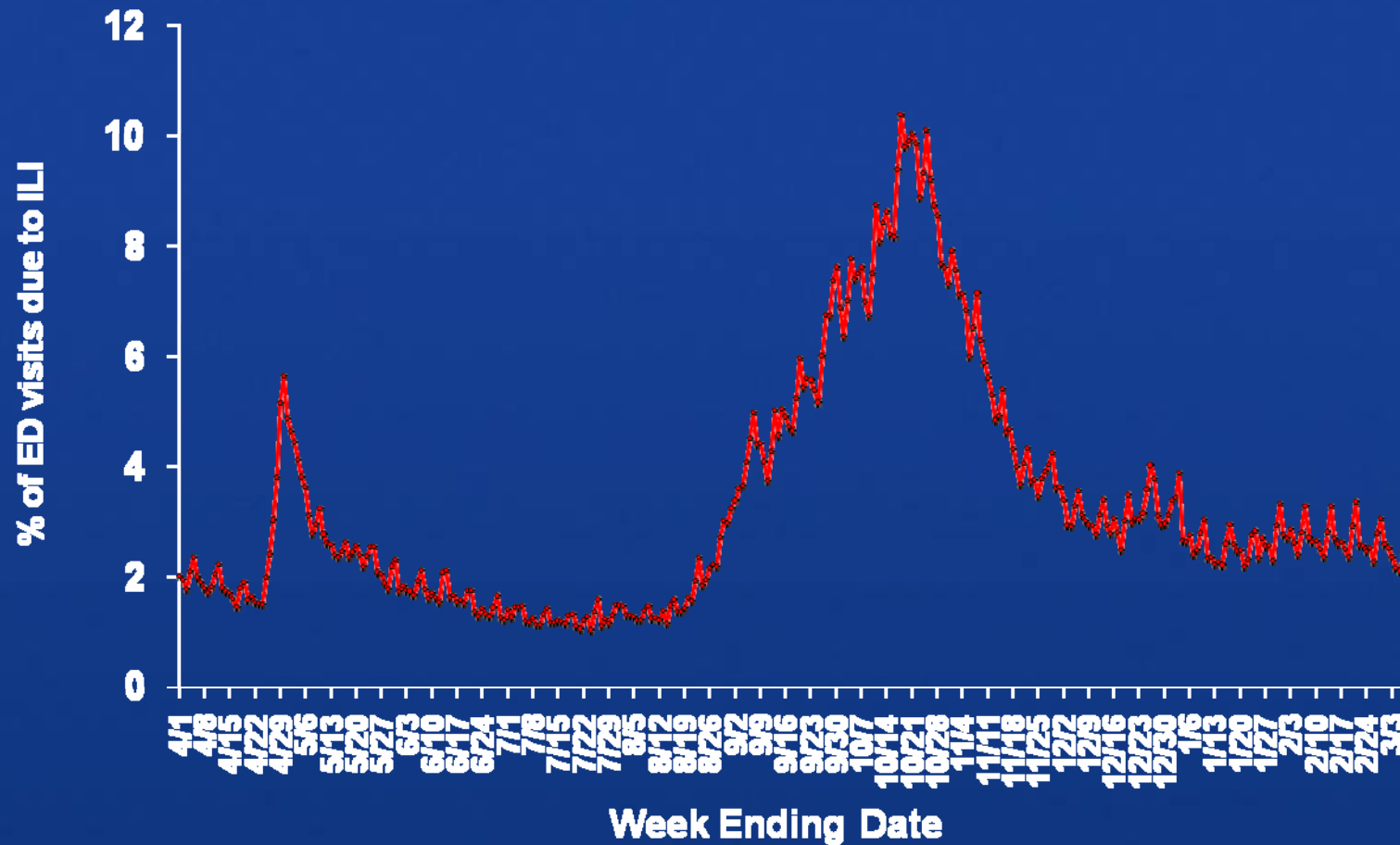


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BioSense
BioSense Emergency Departments (N=569) % of ED Visits due to ILI:
U.S., April 1, 2008 to March 7, 2010



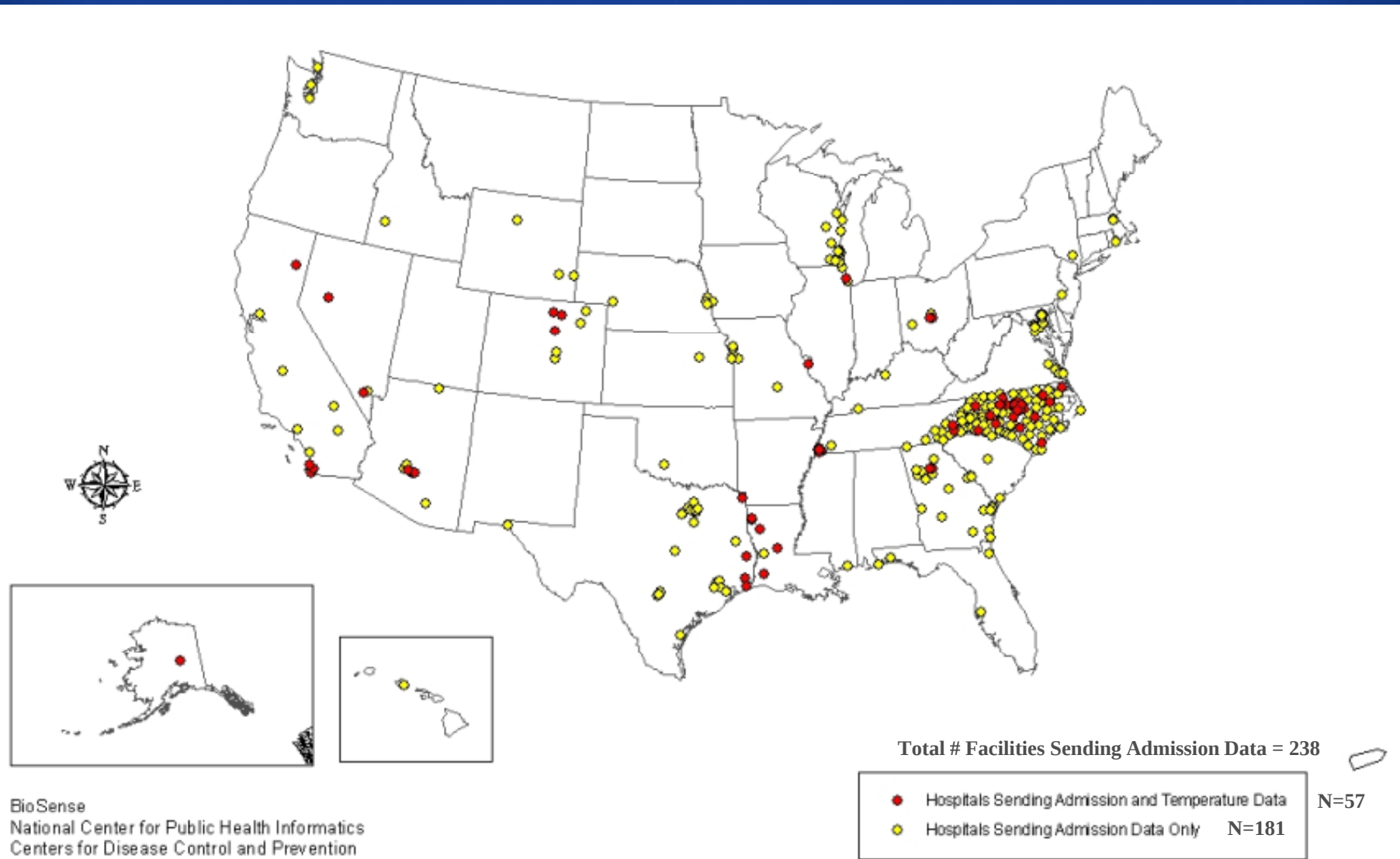
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BioSense

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



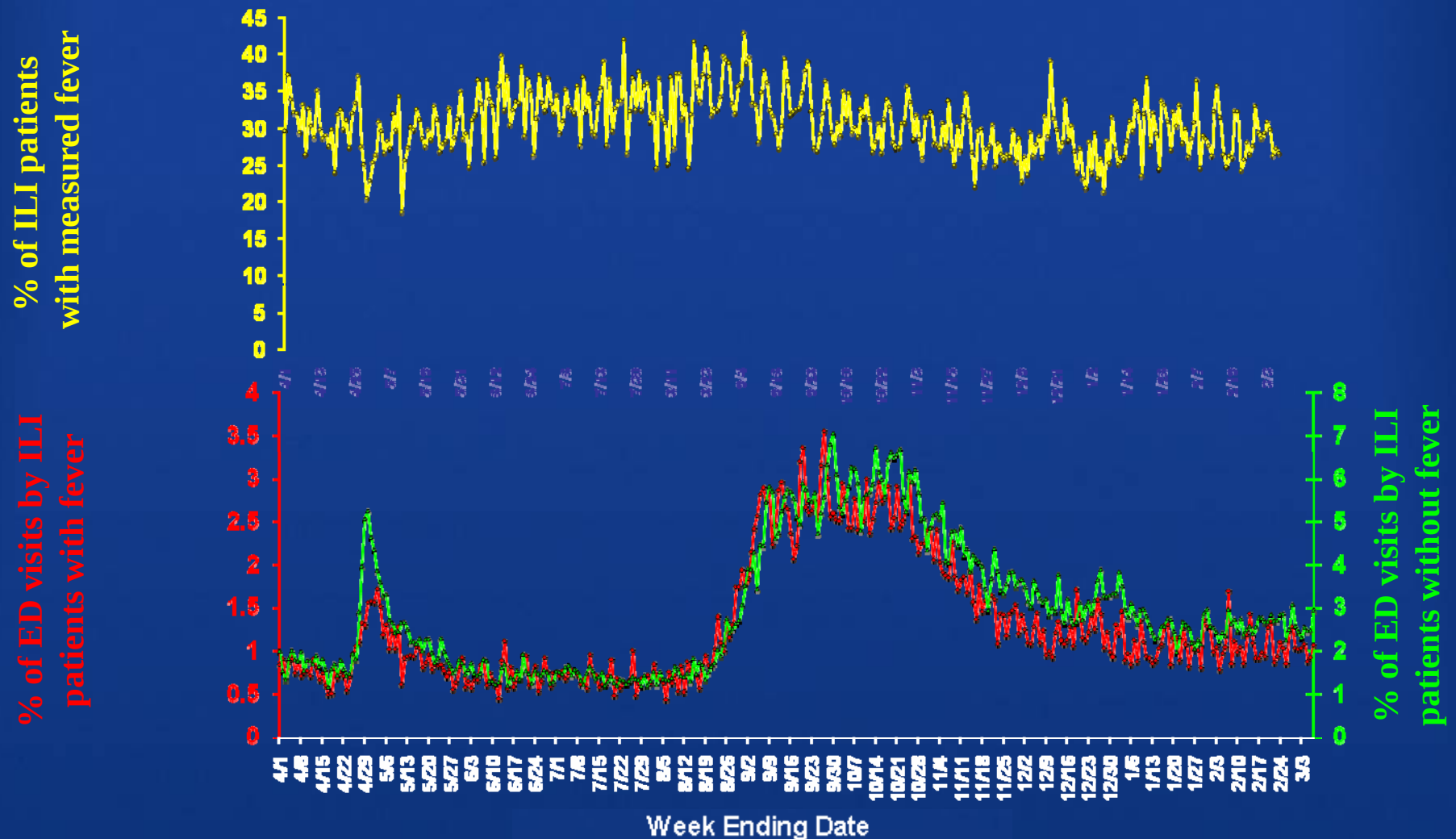
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BioSense

BioSense Emergency Departments (N=57) % of ED visits due to ILI and % of ILI patients with fever: U.S., April 1, 2009 to March 7, 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>



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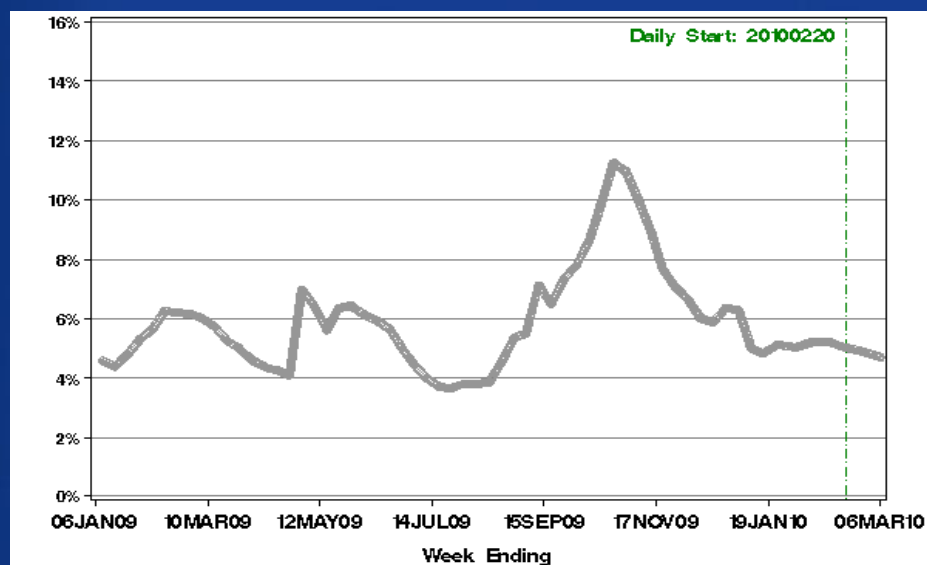
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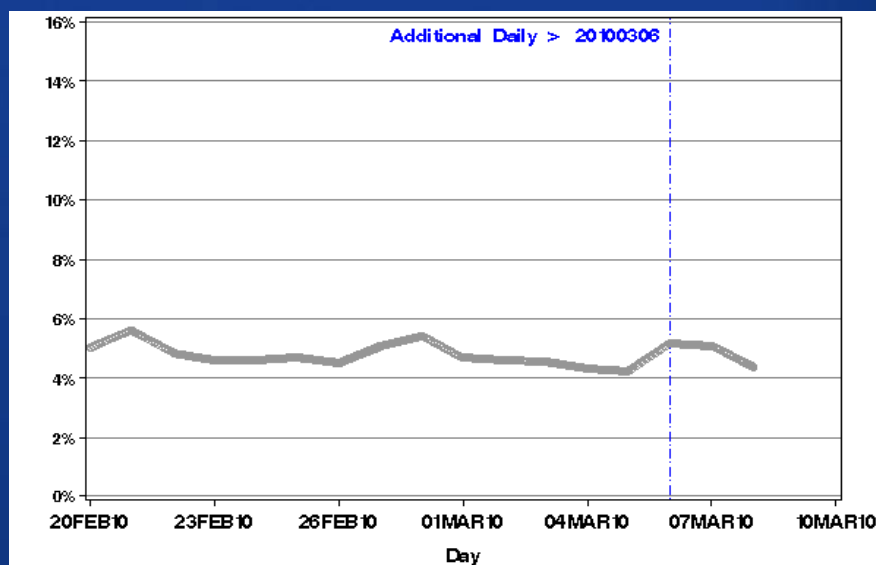
Health Department Syndromic Surveillance: Distribute Project Aggregate Data: 27 Health Departments (Weighted)

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

By Week, through MMWR Week Ending 6 Mar 2010



By Day, 20 Feb 2010 through 8 Mar 2010
(Vertical line depicts end of weekly view)



novel 2009-H1N1 – 12 MAR 2010

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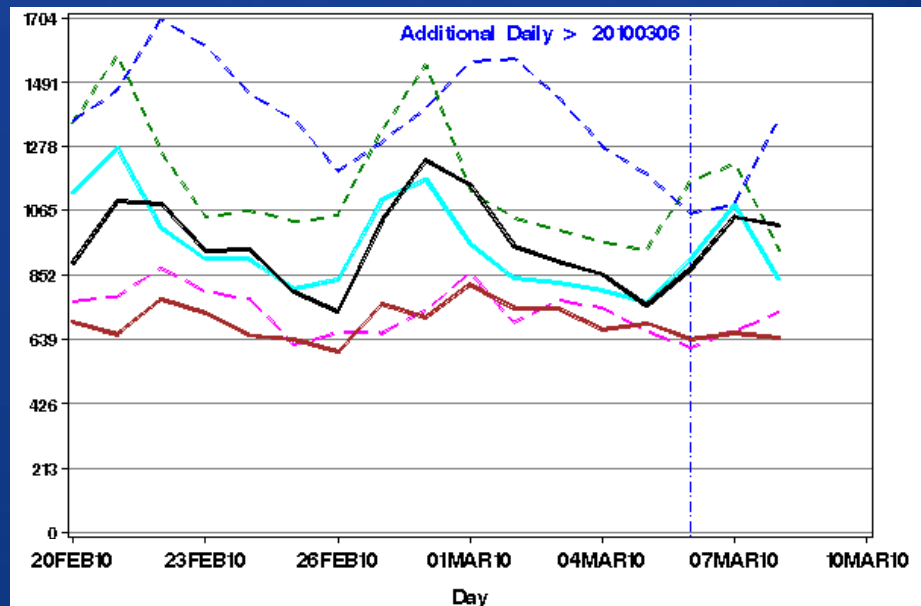
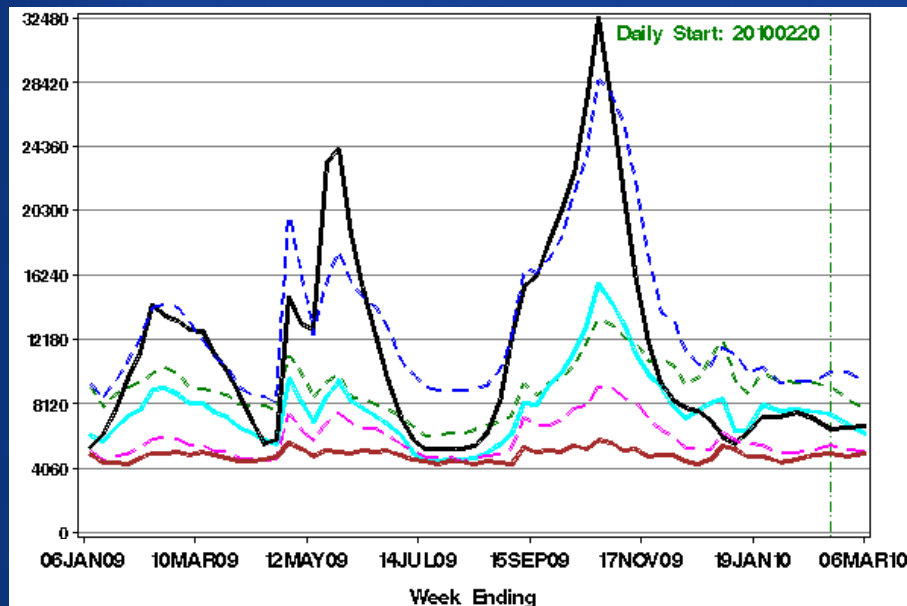
Health Department Syndromic Surveillance: Distribute Project

Aggregate Data: 27 Health Departments (with complete reporting through 3/8/10)

Number of ED Visits due to ILI, by Age Group

By Week, through MMWR Week Ending 6 Mar 2010

By Day, 20 Feb 2010 through 8 Mar 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) H1N1 Headlines: March 11, 2010

2009 H1N1 Headlines (3/1-3/11)

Dutch government
wants to sell flu
vaccines back (3/6)

FDA warning for hand sanitizer in Puerto Rico (3/4)

Canadian vaccination study
proves 'herd immunity' (3/9)

H1N1 seen lying low,
then rising again in Europe (3/9)

The Flu Season That Fizzled
(3/2)

Flu Shots in Children
Can Help Community (3/9)

Biggest swine flu regret for US:
vaccine chaos (3/5)



novel 2009-H1N1 -12 MAR 2010

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Joint Information Center (JIC) H1N1 Headlines: March 11, 2010

- Communications After Action Report March 16th
- Planning for 2011 Seasonal Influenza Communications
- Research Plan to Assess Impact of H1N1 on Various Target Group Attitudes, Beliefs, and Behaviors Concerning Seasonal Influenza Vaccination



novel 2009-H1N1 –12 MAR 2010

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