



Director's Update Brief novel 2009-H1N1

**Friday
26 MARCH 2010**

**Day 346 / Month 11
Day 173 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.

What is happening in the Southeast?



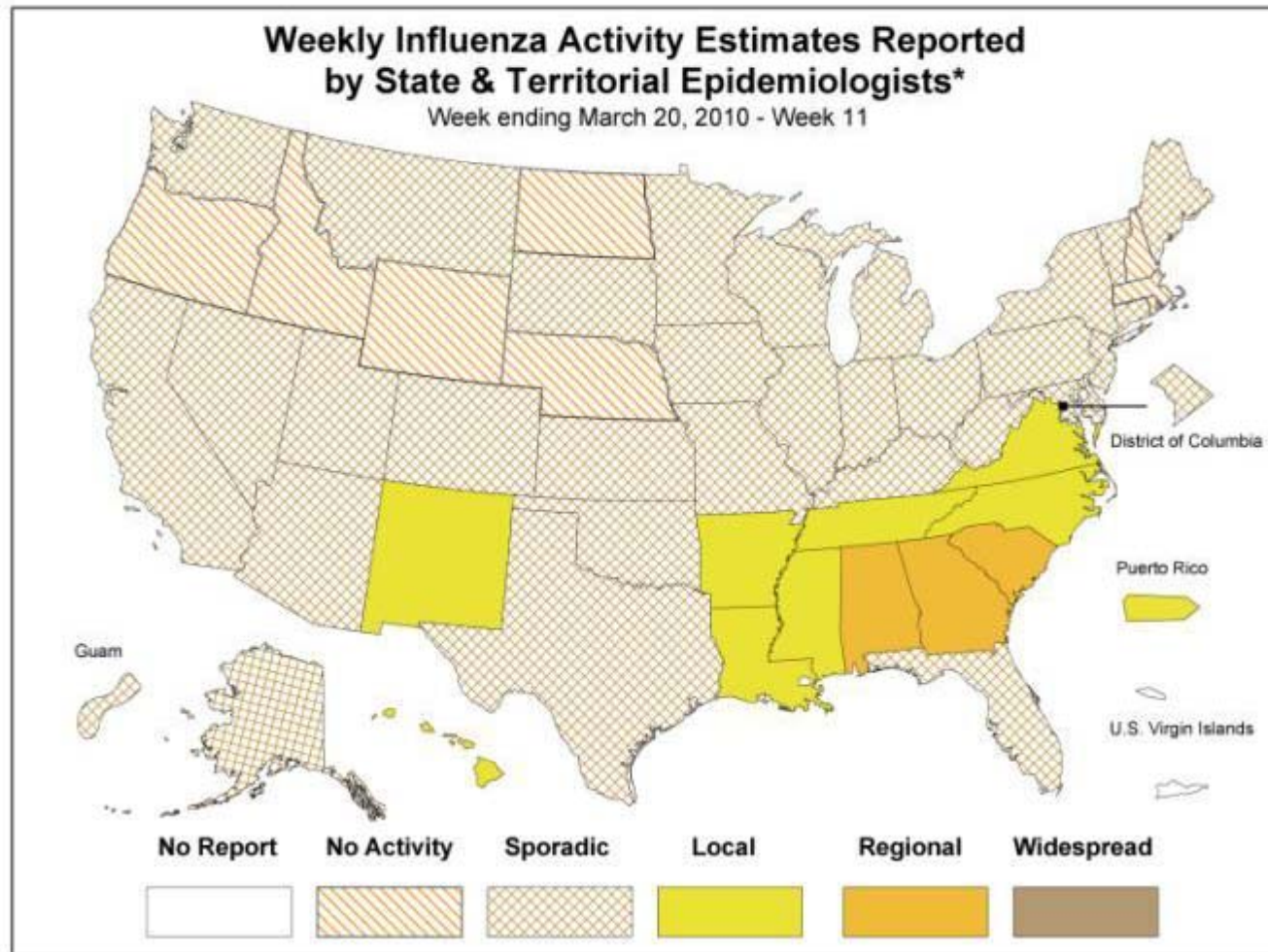
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Epidemiology/Surveillance

Weekly Influenza Activity Reported by SLTT's



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



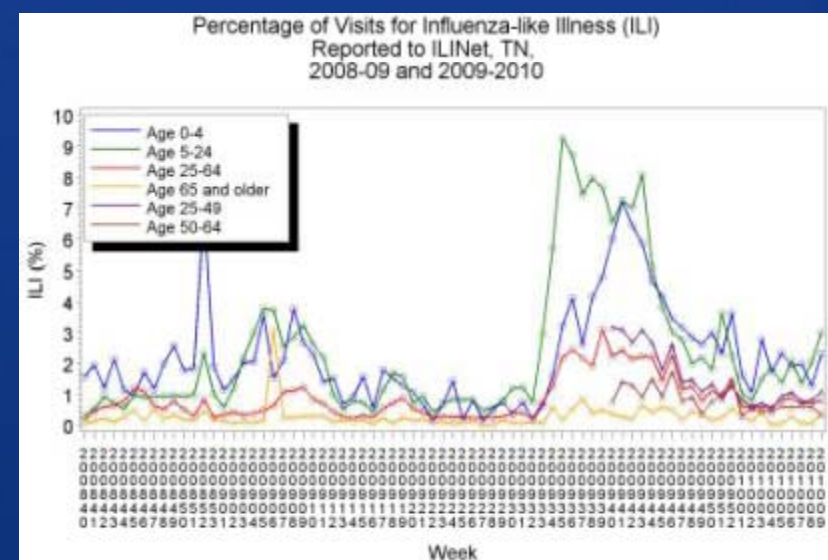
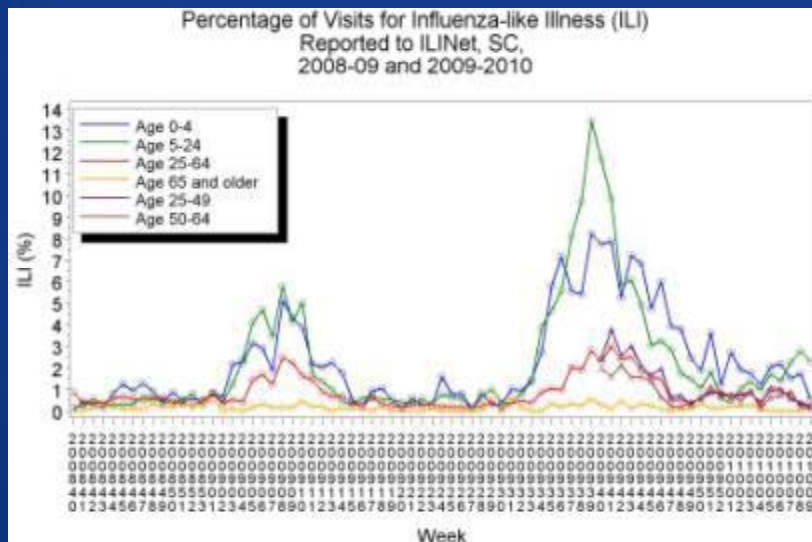
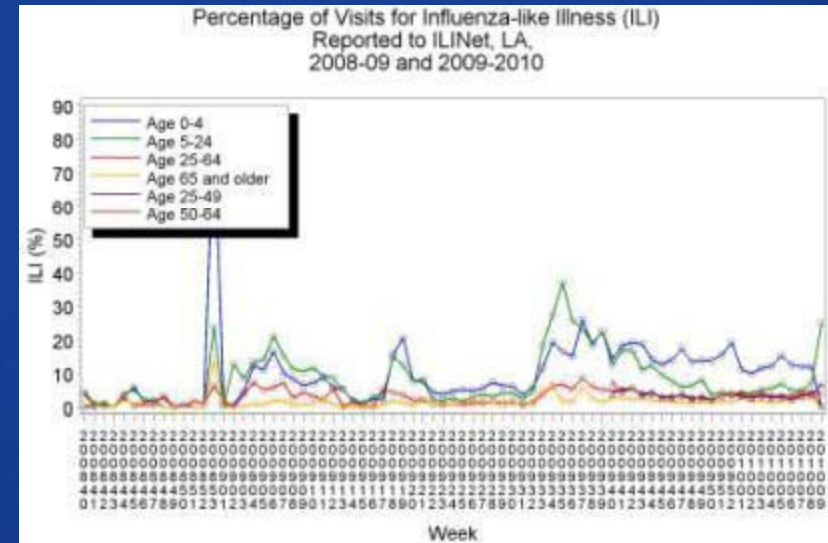
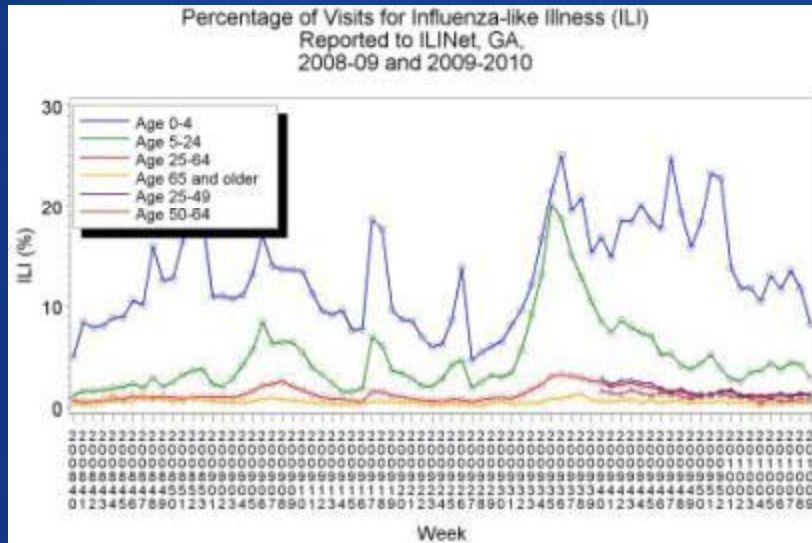
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Epidemiology/Surveillance

ILI by Age Group Southeastern States

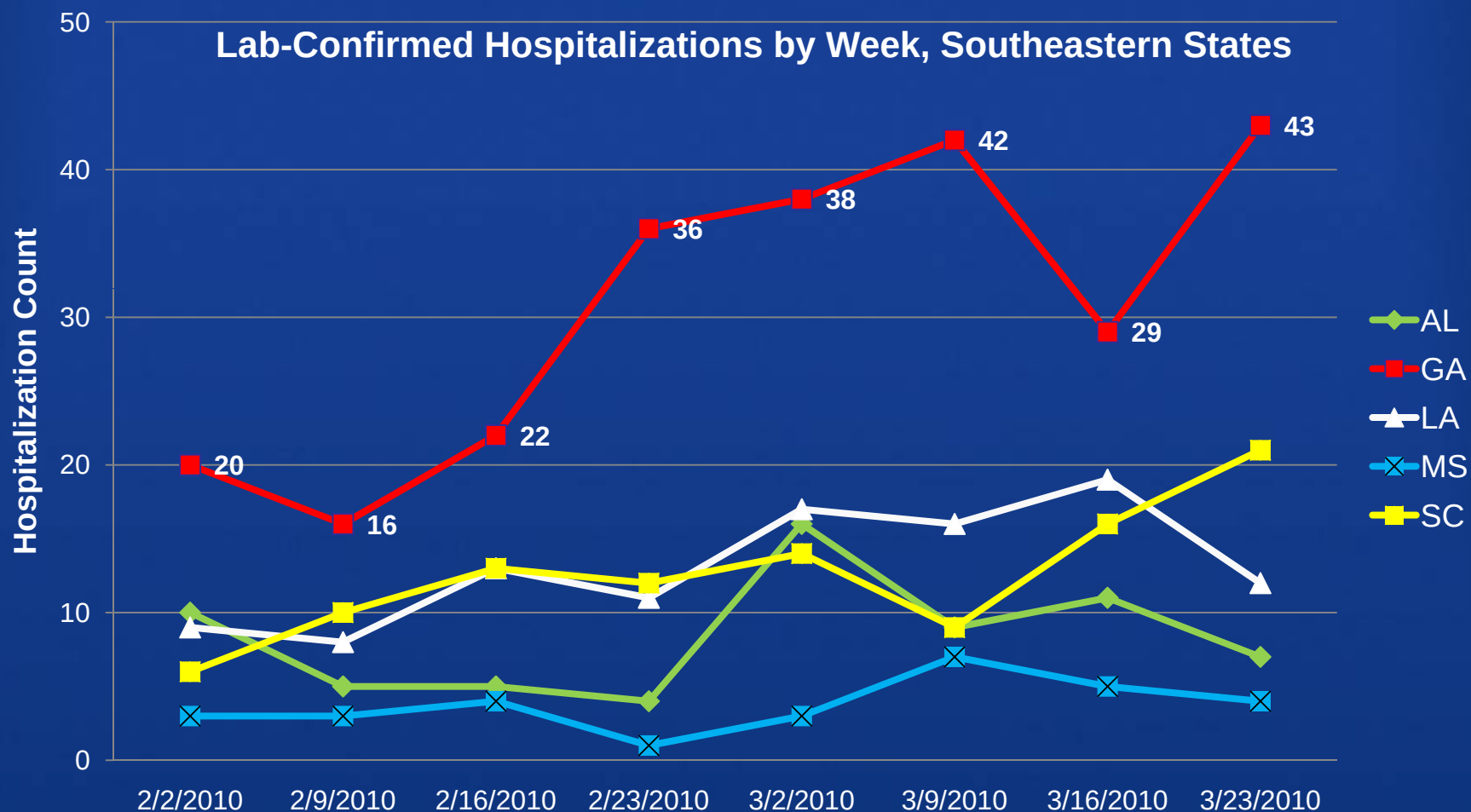


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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 11 – 20 MAR 2010

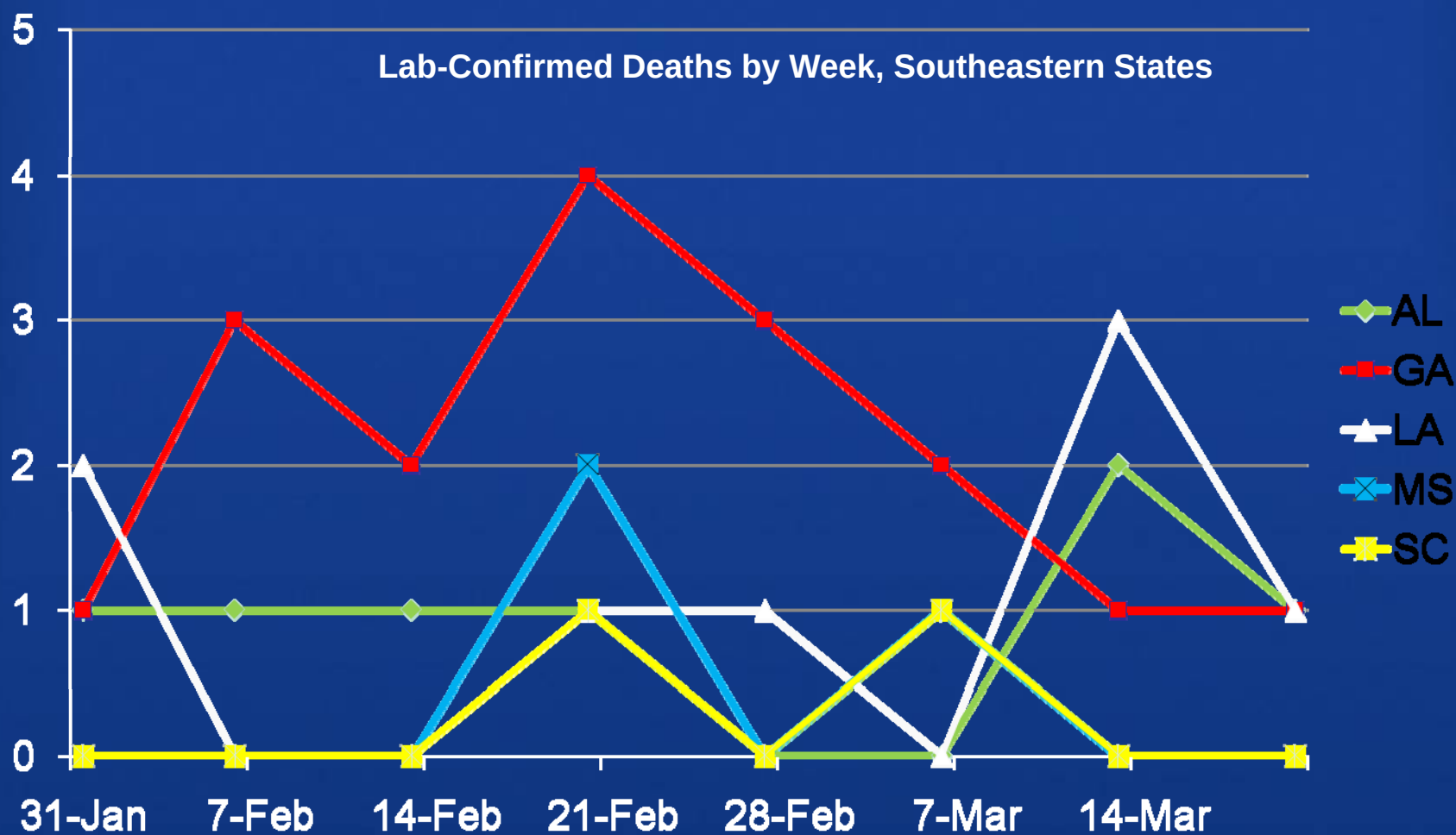


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**Epidemiology/Surveillance
Georgia Epi-Aid
Influenza Week 11 – 26 MAR 2010**

Preliminary Results:

- Lab-confirmed hospitalizations in Georgia increased since February 2010
- Georgia has most hospitalizations in US for the 3rd consecutive week
- Age groups in summer/fall and winter waves are similar
- Hospitalizations and deaths in summer/fall wave more common in females but no gender differences in winter
- H1N1 vaccination coverage in children lowest in nation, and 3rd lowest for age > 6 mos. (Louisiana, Alabama)

Next Steps:

- GIS mapping using SendSS, EIP, ILINet and syndromic surveillance data to better define geographic trends of influenza activity
- Obtain GA vaccination registry data (GRITS) and integrate with case results



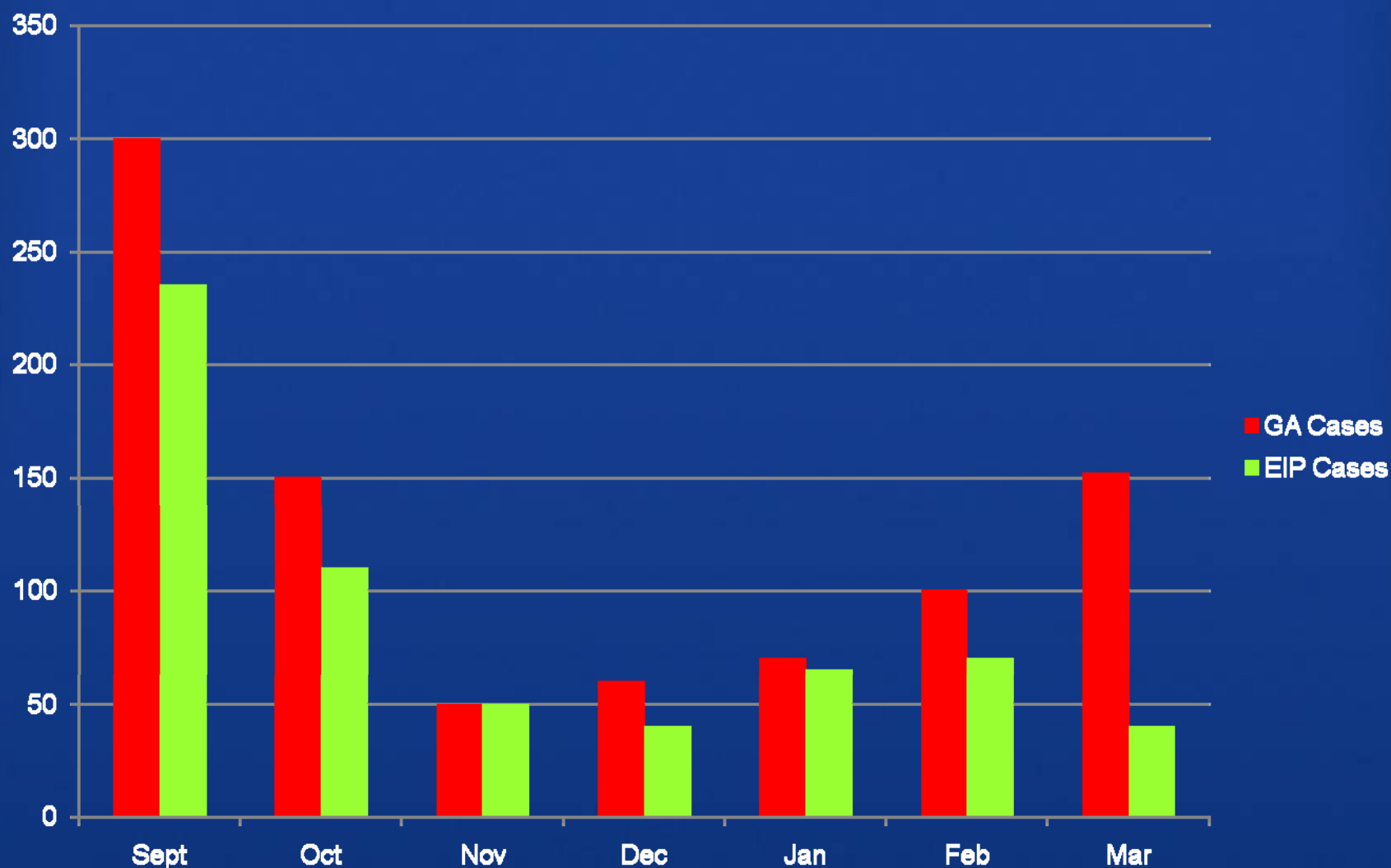
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Epidemiology/Surveillance

Comparison of EIP and All Lab Confirmed Hospitalized Cases in Summer/Fall and Winter Georgia, EIP Data



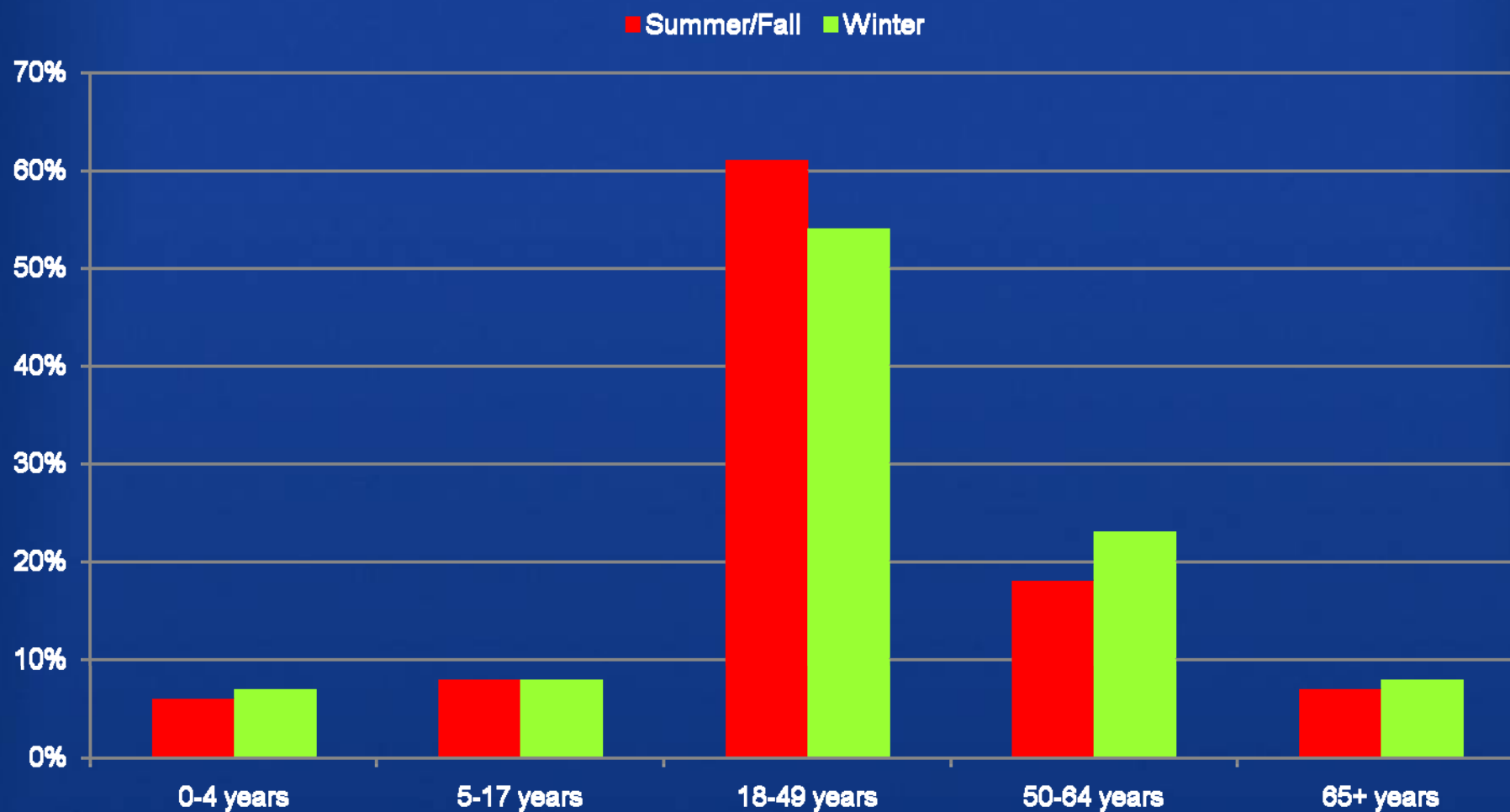
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Epidemiology/Surveillance

Comparison of Age Groups in Hospitalized Cases in Summer/Fall and Winter Georgia, EIP Data



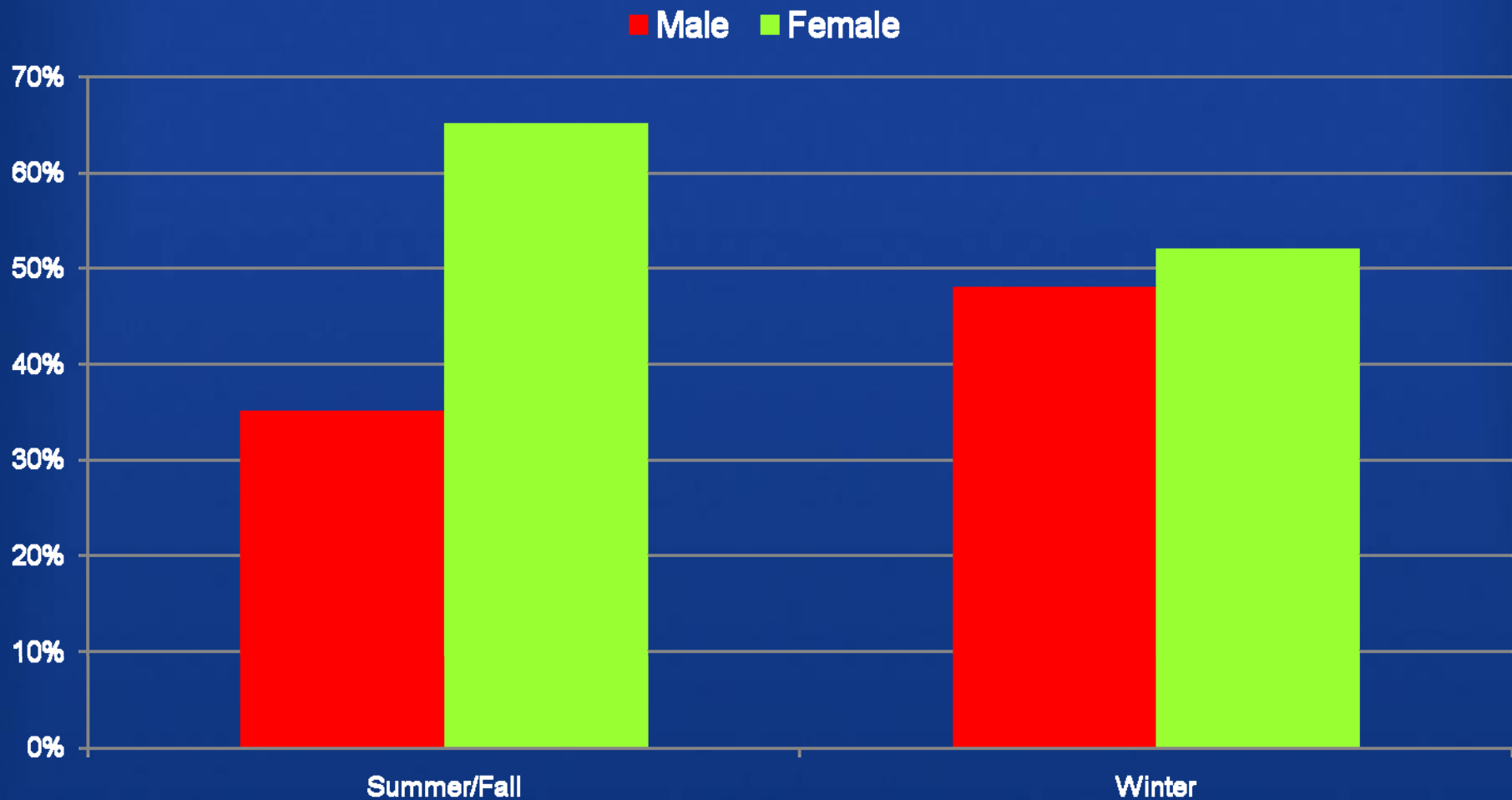
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Epidemiology/Surveillance

Comparison of Gender of Hospitalized Cases in Summer/Fall and Winter Georgia, EIP Data



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**Epidemiology/Surveillance
Georgia Epi-Aid
Influenza Week 11 – 26 MAR 2010**

EIP Hospitalized Patients (n=537)

Race/Ethnicity	Hospitalizations	Rate / 100,000 people
White	205	9.8
Black	256	17.7
Hispanic	61	14.1
Asian	15	7.7
Total	537	12.8

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Epidemiology/Surveillance Surveillance Systems Summary

- ***WHO/NREVSS Collaborating Laboratories***
 - % of specimens testing positive for influenza decreased slightly
- ***ILINet (week ending 20 March)***
 - % of ILI outpatient visits is below the national baseline; 3 (Region 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 slightly
- ***Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists – state reporting:***
 - Regional: 3 states
 - Sporadic: 31 states + Guam + DC
 - No Report: U.S. Virgin Islands
 - Local: 8 states + PR
 - None: 8 states



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ILI Syndromic Surveillance

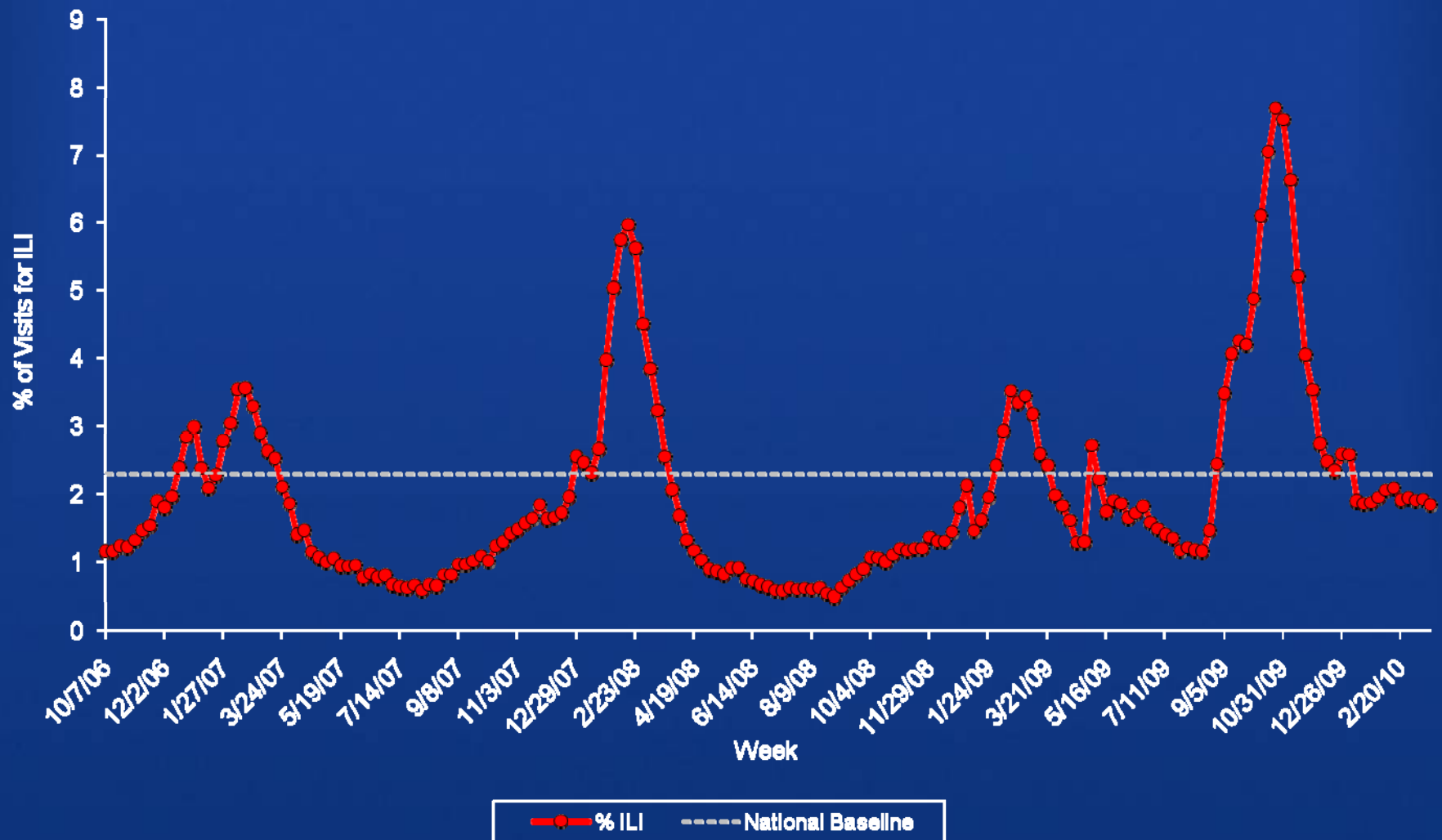


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Epidemiology/Surveillance
Percentage of Visits for Influenza-like Illness (ILI) Reported by
the *U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)*,
National Summary October 1, 2006 – March 20, 2010



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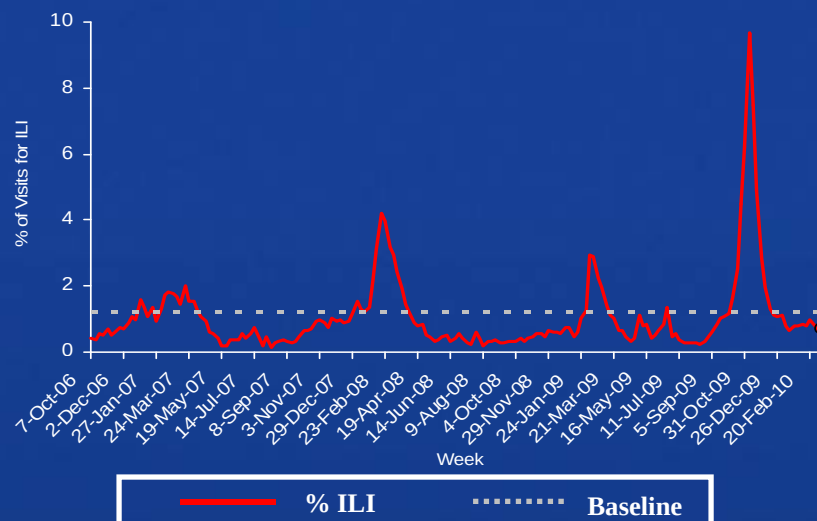
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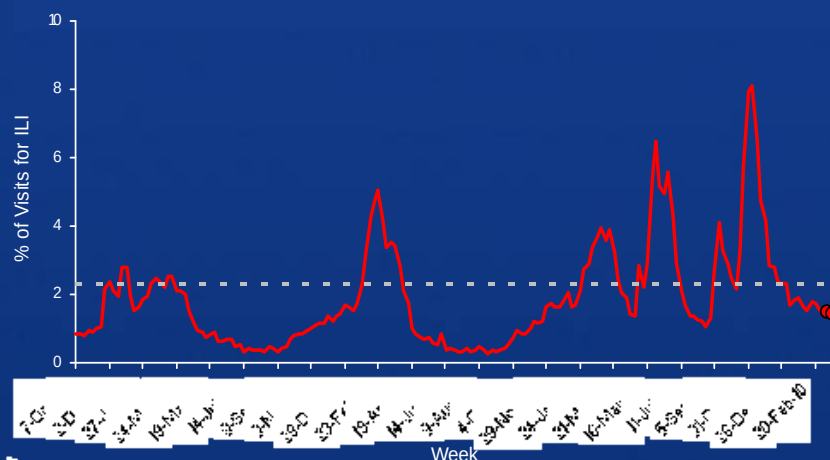
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions 1-3

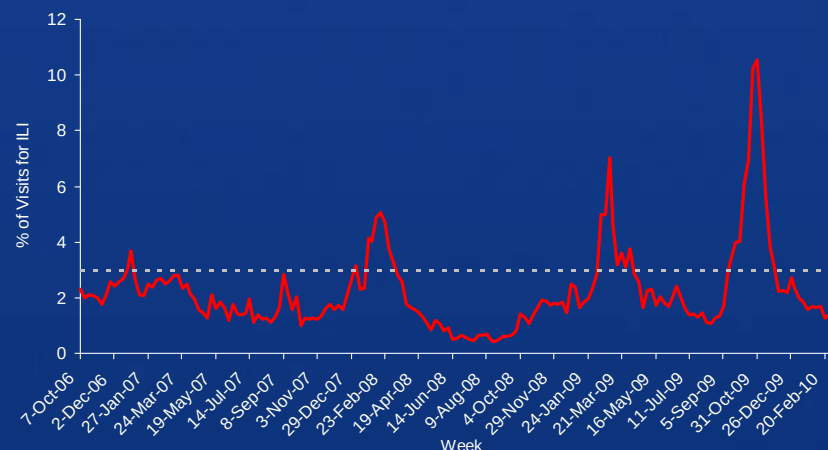
Region 1 - CT, ME, MA, NH, RI, VT



Region 2 - NJ, NY, USVI



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



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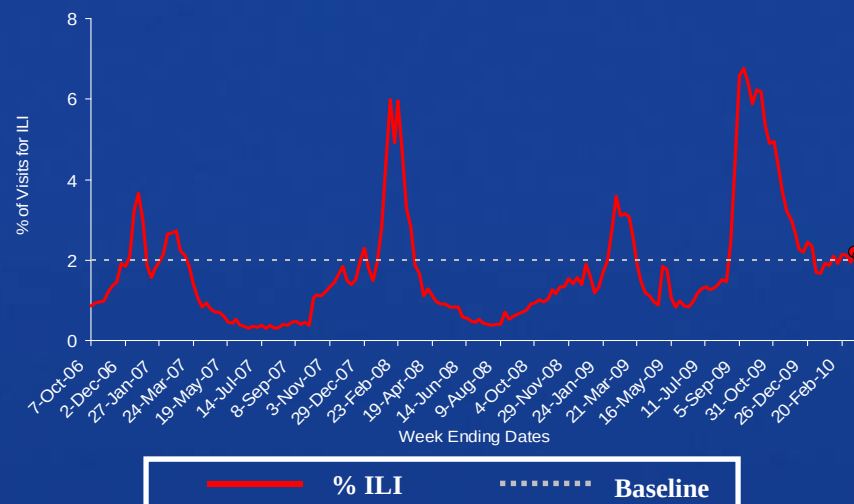
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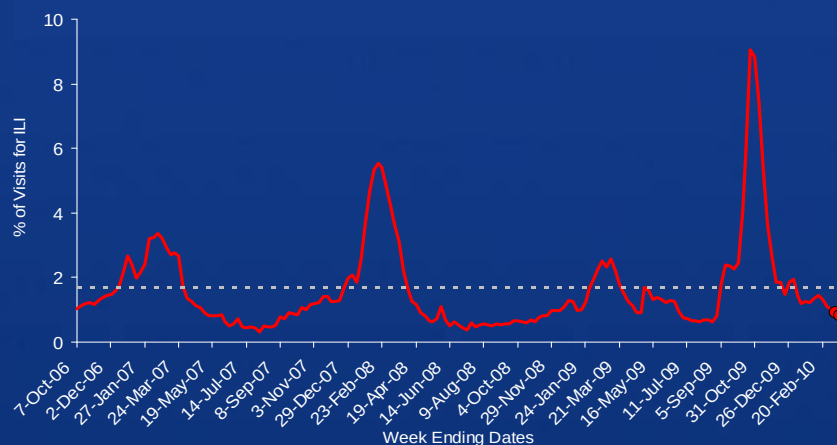
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions 4-6

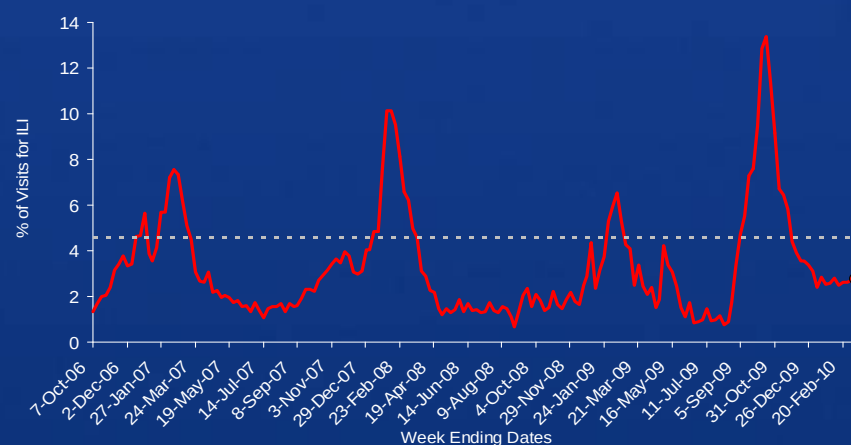
Region 4 - AL, FL, GA, KY, MS, NC, SC, TN



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



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



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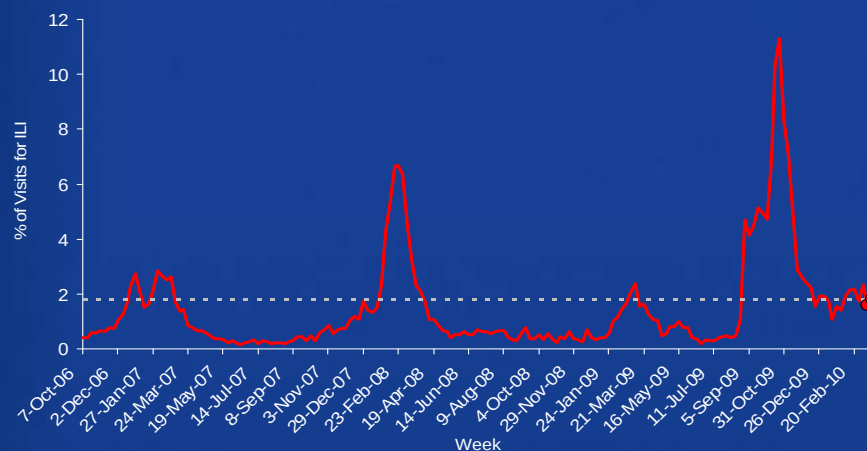
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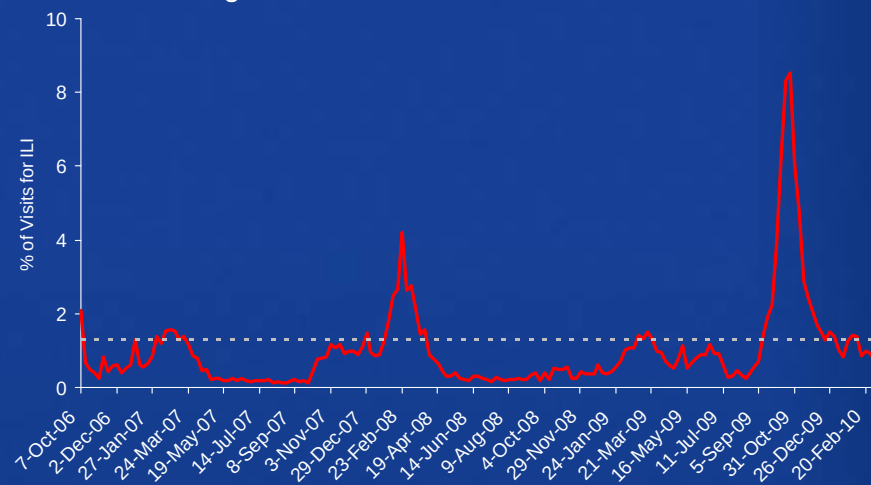
Epidemiology/Surveillance

Current Influenza Surveillance – *ILINet* Regions 7-10

Region 7 - IA, KS, MO, NE

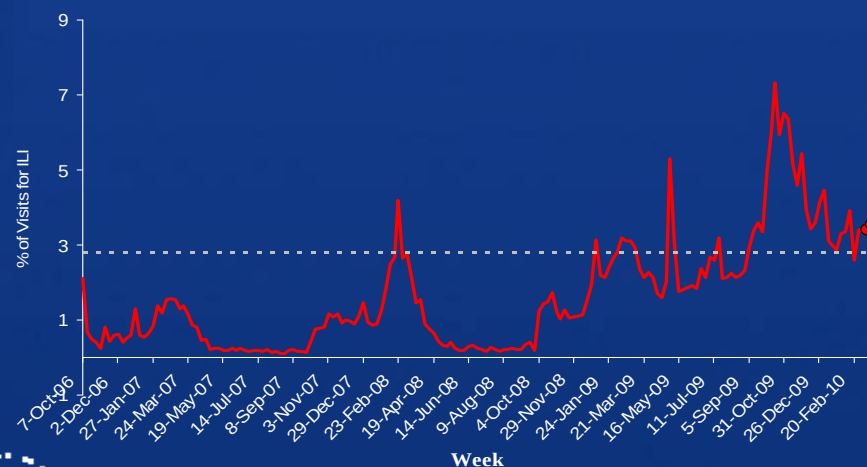


Region 8 - CO, MT, ND, SD, UT, WY

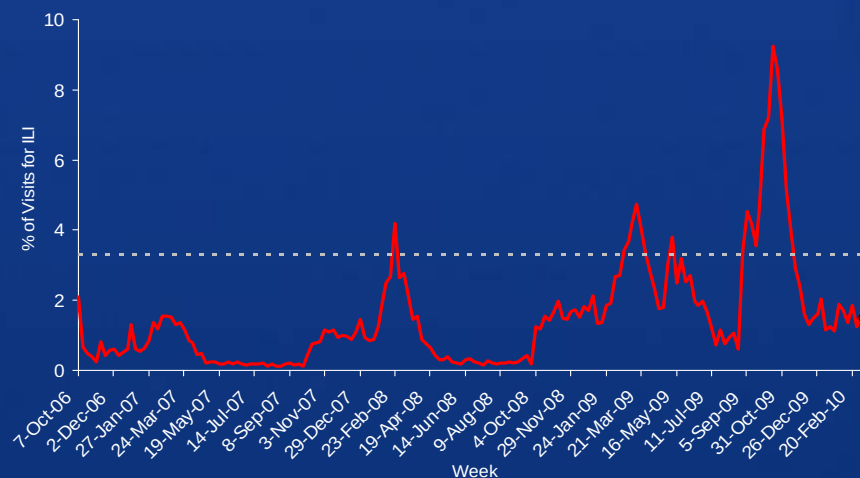


— % ILI Baseline

Region 9 - AZ, CA, HI, NV



Region 10 - AK, ID, OR, WA

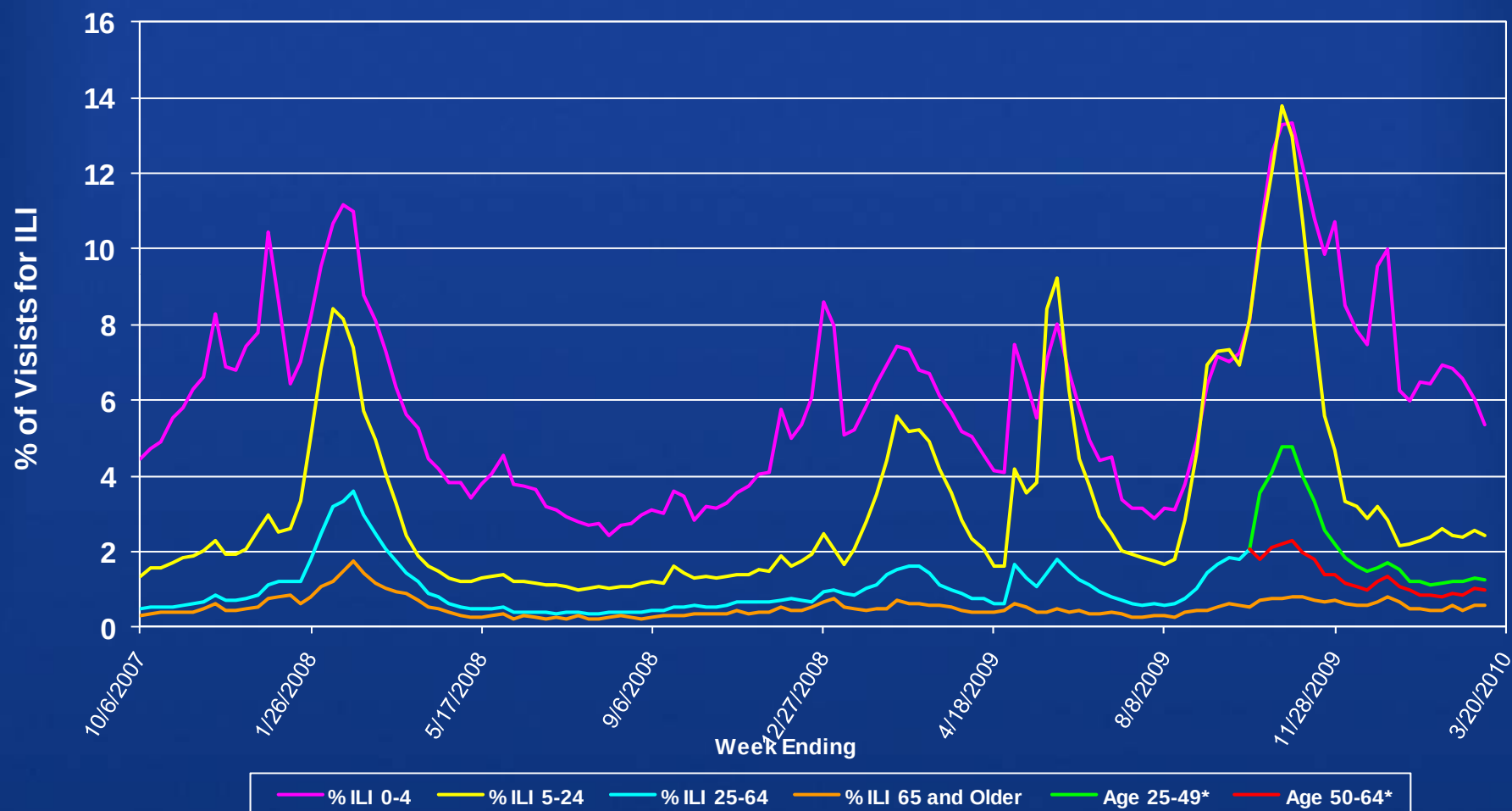


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Epidemiology/Surveillance
Percentage of Visits for ILI Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), National Summary 2007-08 through 2009-10 by Age Group
 data as of week ending 20 March, 2010



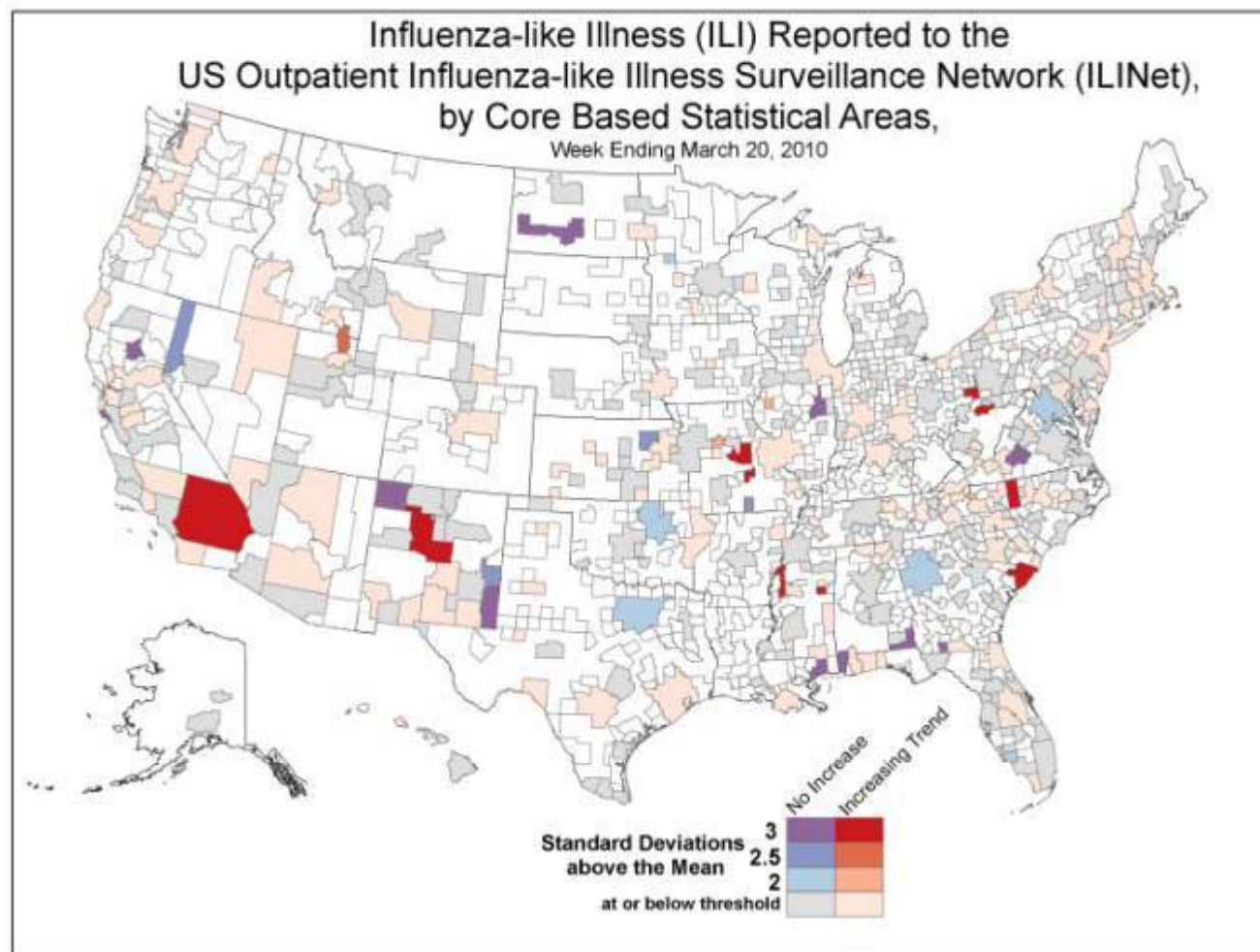
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* New age categories added October 10, 2009

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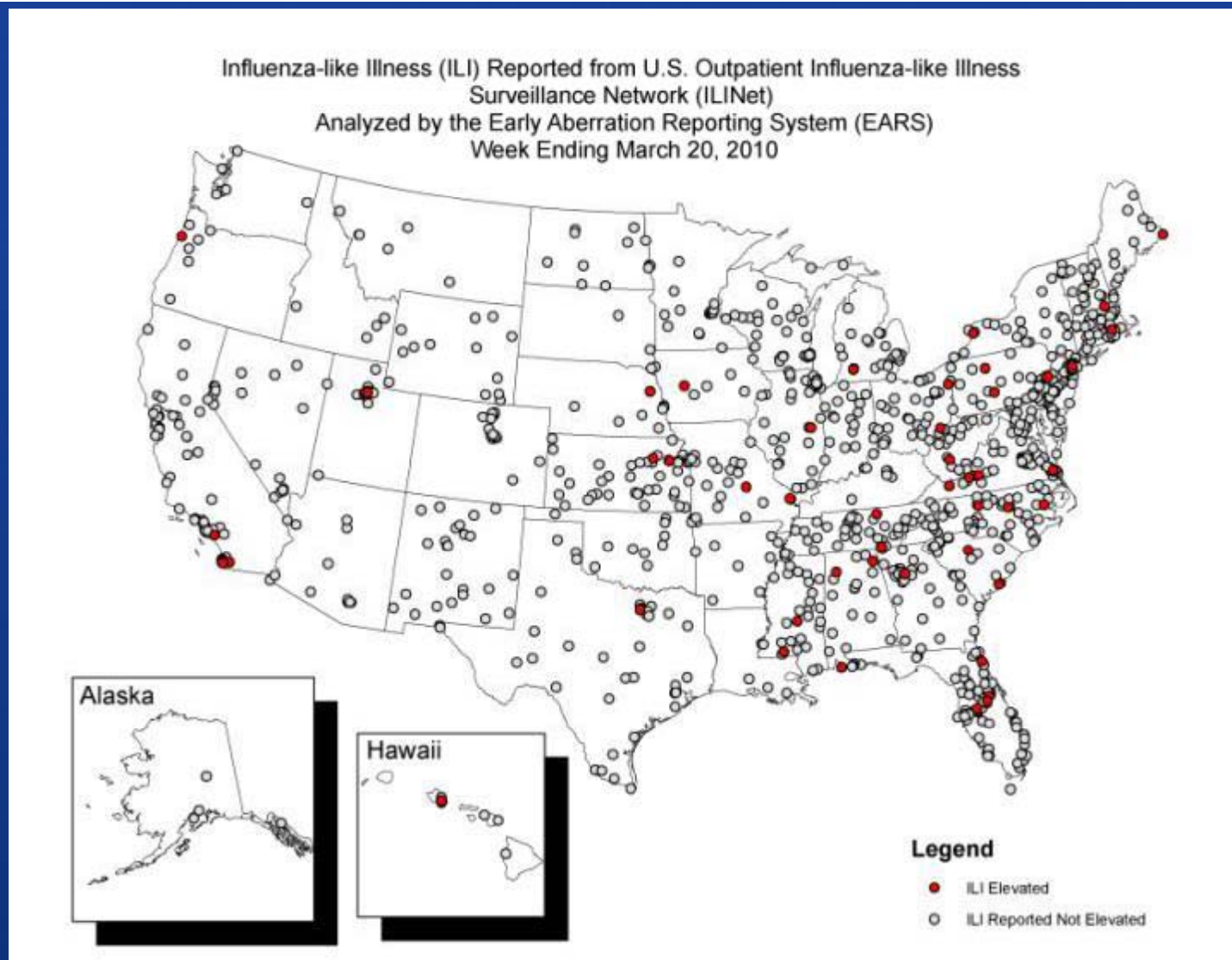


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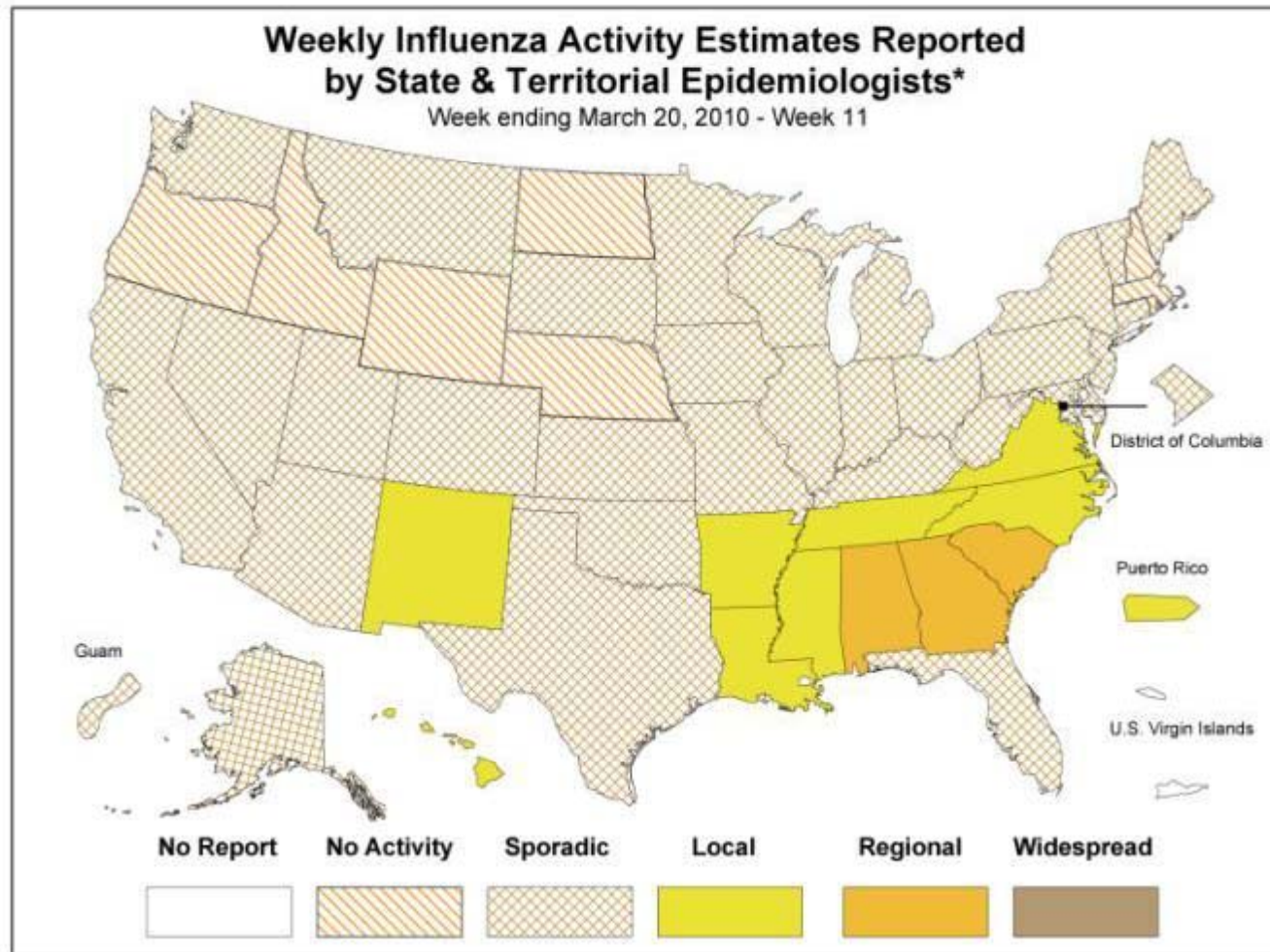
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Epidemiology/Surveillance

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 Virologic Surveillance

	Week 11
No. of specimens tested	3050
No. of positive specimens (%)	139 (4.6%)
<i>Positive specimens by type/subtype</i>	
Influenza A	137(98.6%)
A (2009 H1N1)	80 (58.4%)
A (subtyping not performed)	56 (40.9%)
A (unable to subtype)	0 (0.0%)
A (H3)	1 (0.7%)
A (H1)	0 (0.0%)
Influenza B	2 (1.4%)



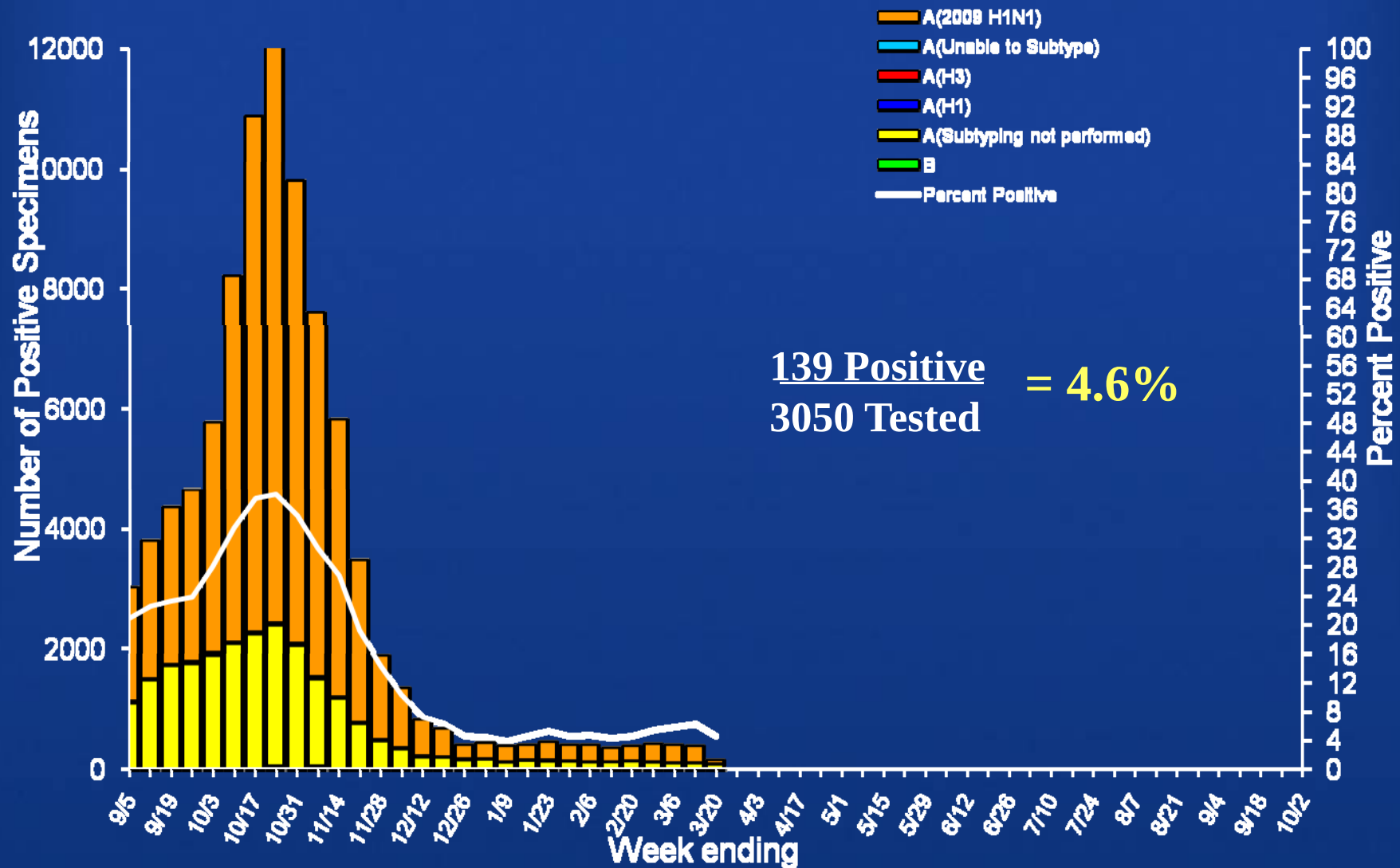
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Epidemiology/Surveillance

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



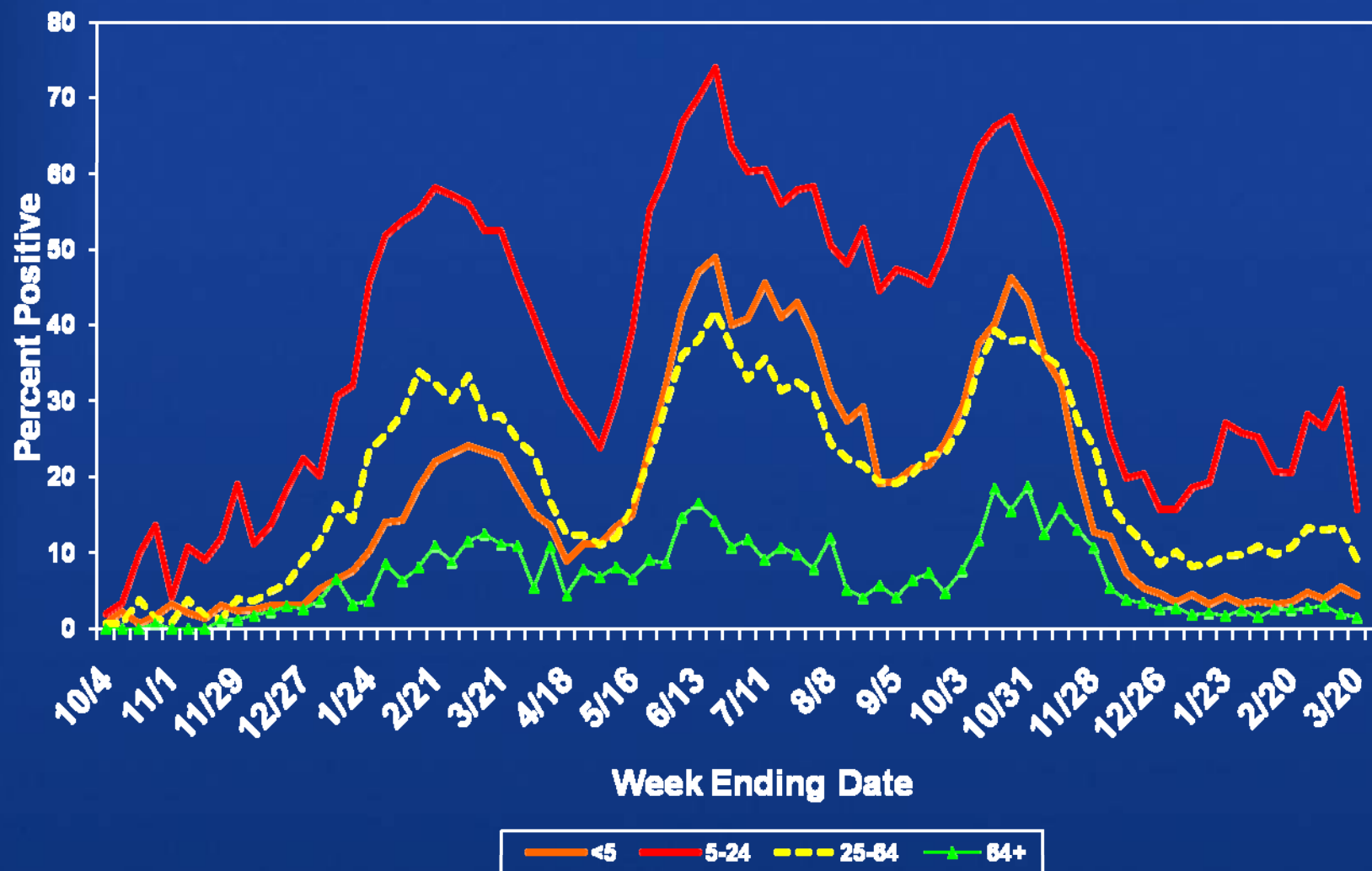
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Epidemiology/Surveillance

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



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Tracking Severity



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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 11 – 20 MAR 2010

Number of States and Territories Reporting on March 23, 2010

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

Total Number of States Reporting by Any Method = 42
Total Number of Territories Reporting by Any Method = 2
44 of 56 Jurisdictions Reporting = 79%



Mortality



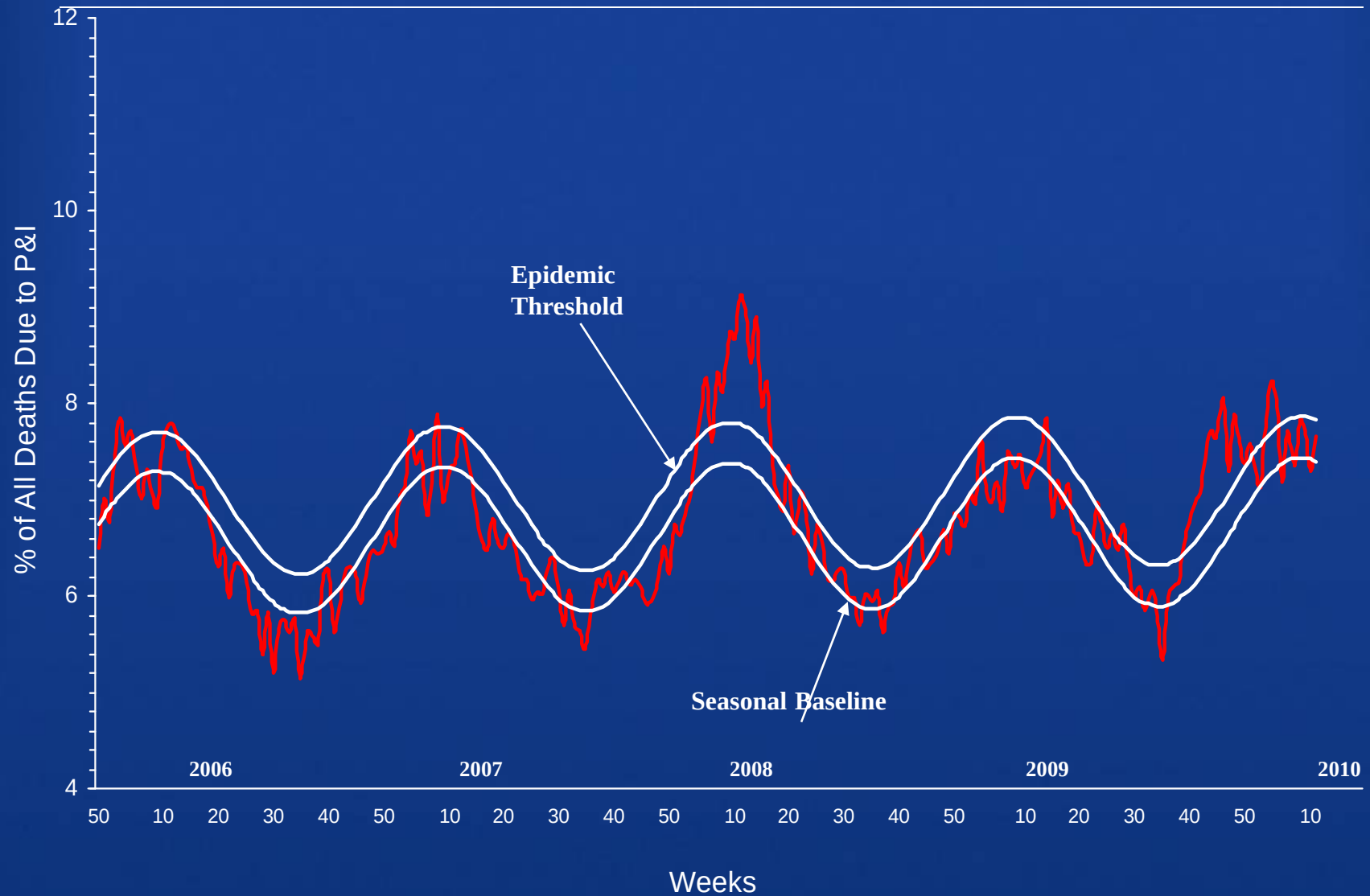
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Epidemiology/Surveillance

Pneumonia and Influenza Mortality for 122 U.S. Cities -Week Ending 20 MAR 2010



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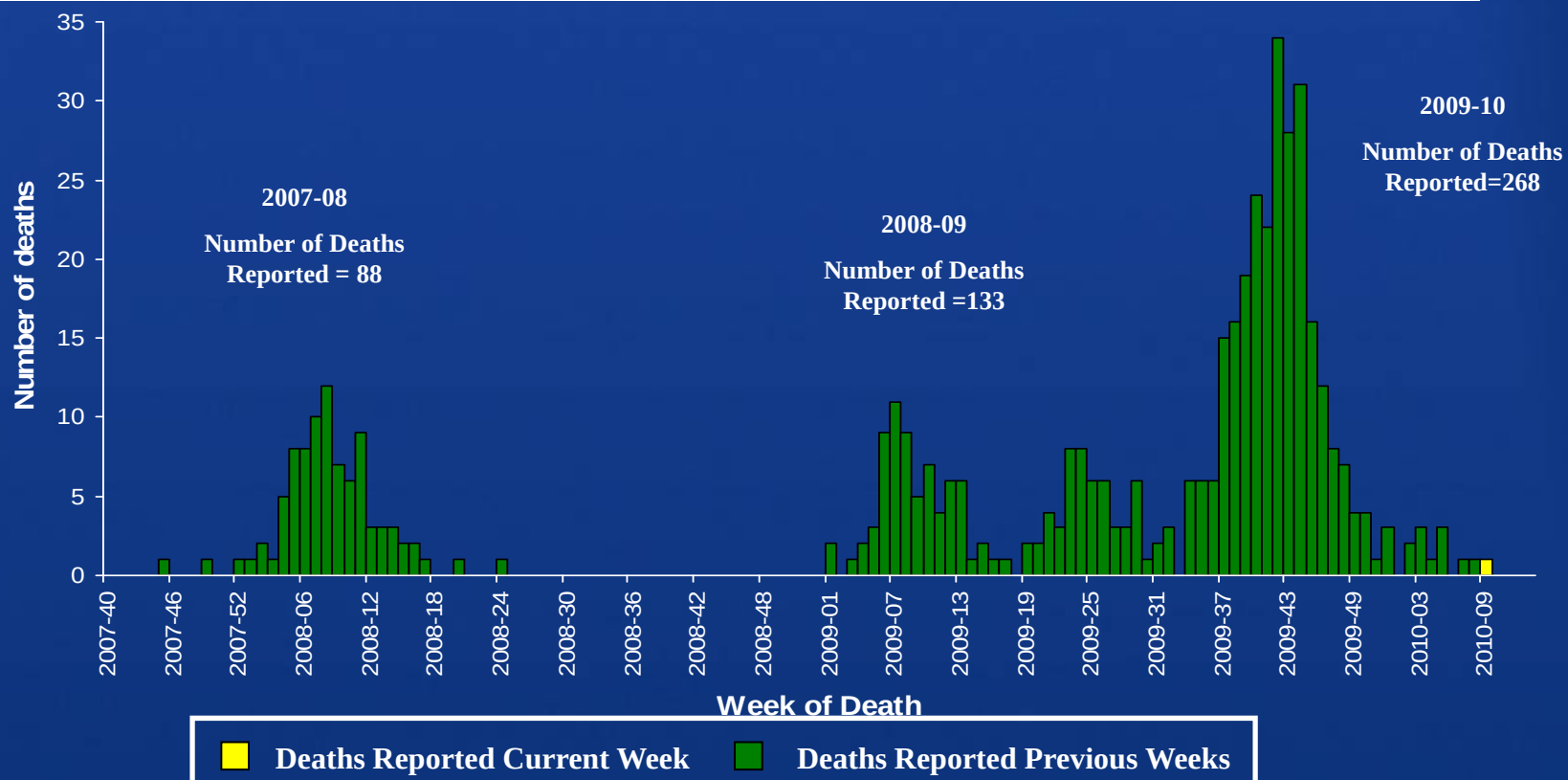
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Epidemiology/Surveillance

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 – 11	0	1	0	1
# Deaths Since August 30, 2009	218	49	1	268
# Deaths Since April 26, 2009	278	52	2	332



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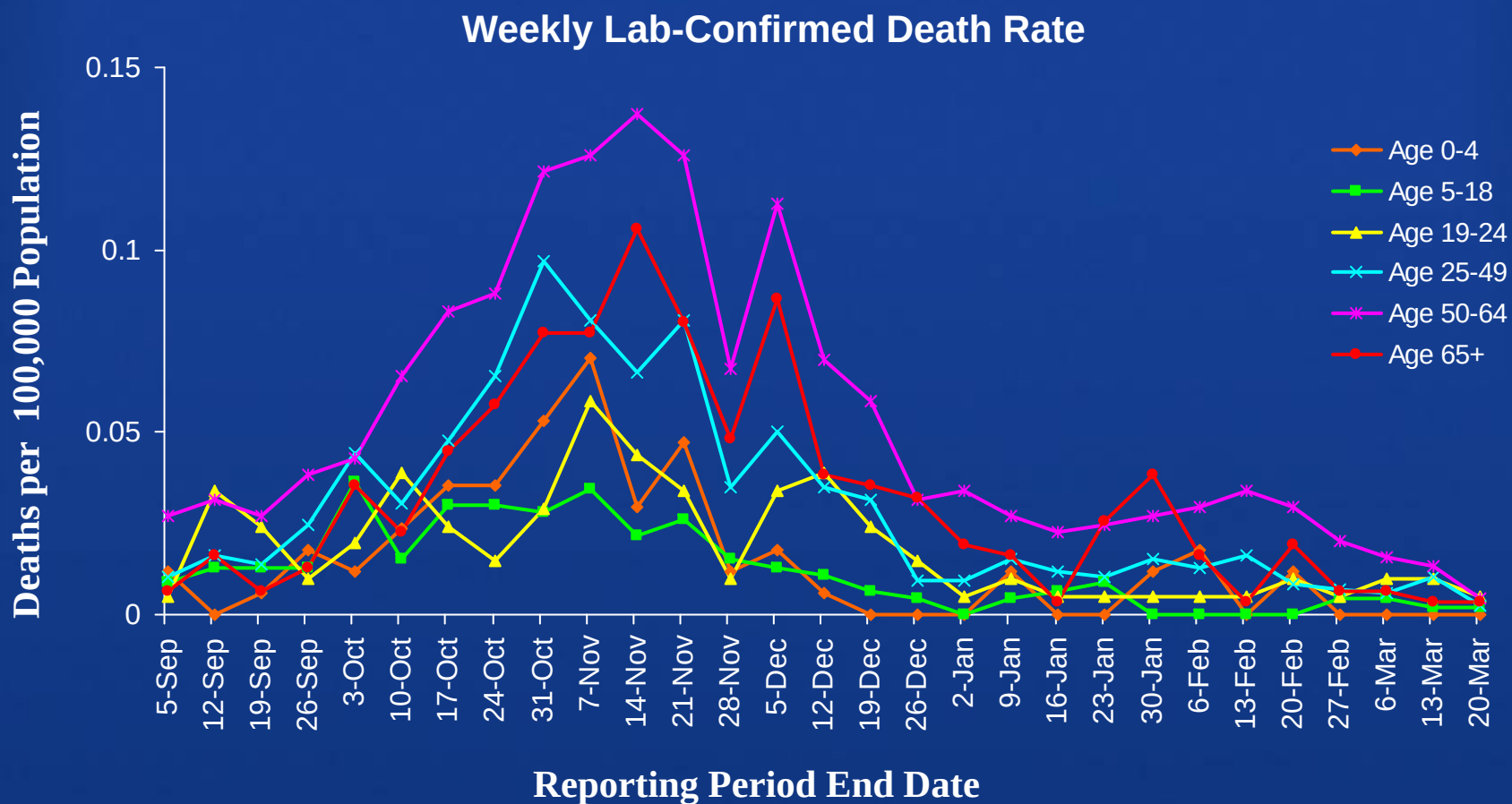
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Epidemiology/Surveillance

Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)

Influenza Week 11 – 20 MAR 2010



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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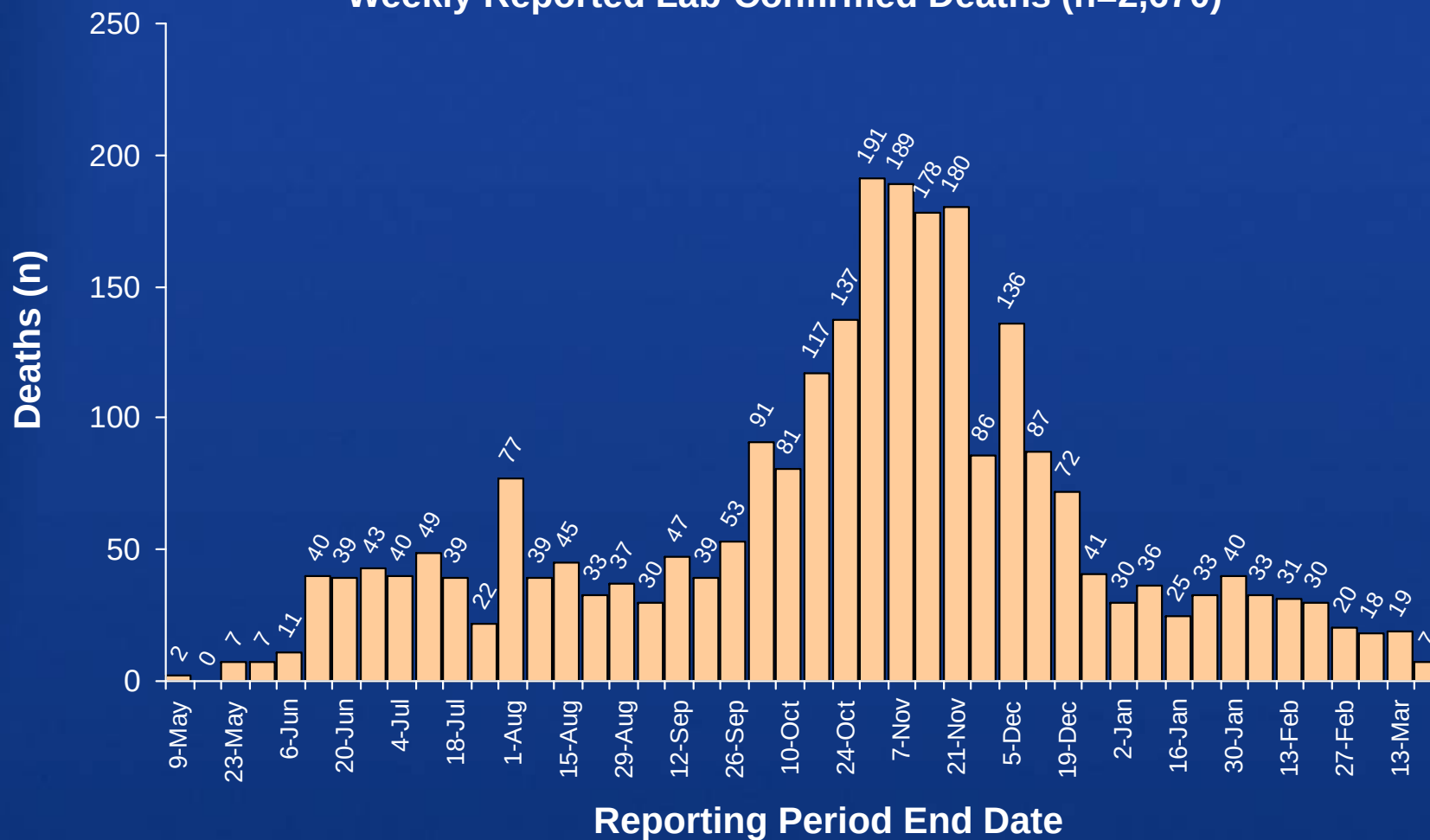
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Epidemiology/Surveillance

Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)

Influenza Week 11 – 20 MAR 2010

Weekly Reported Lab-Confirmed Deaths (n=2,670)



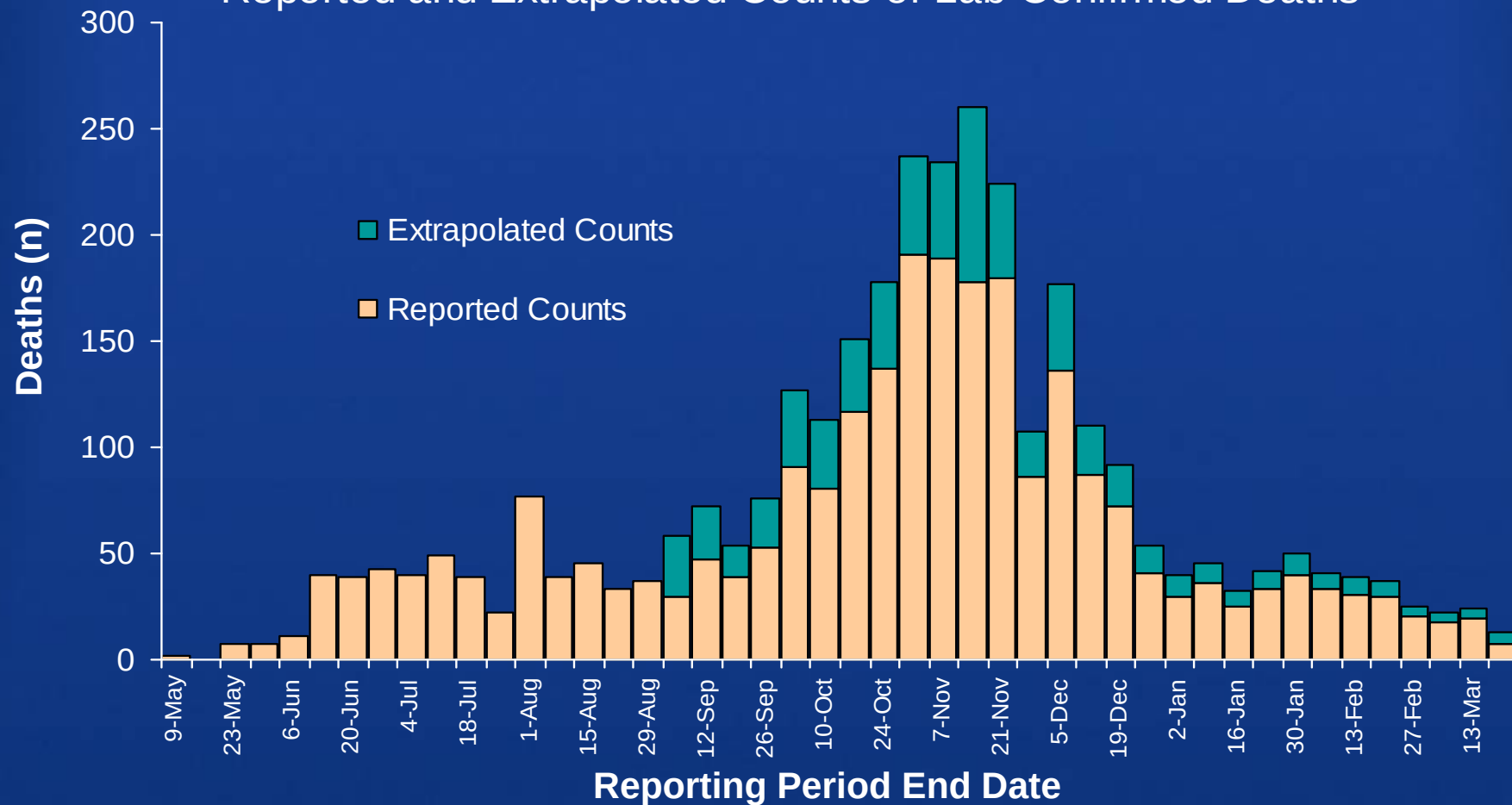
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Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 11 – 20 MAR 2010

Reported and Extrapolated Counts of Lab-Confirmed Deaths



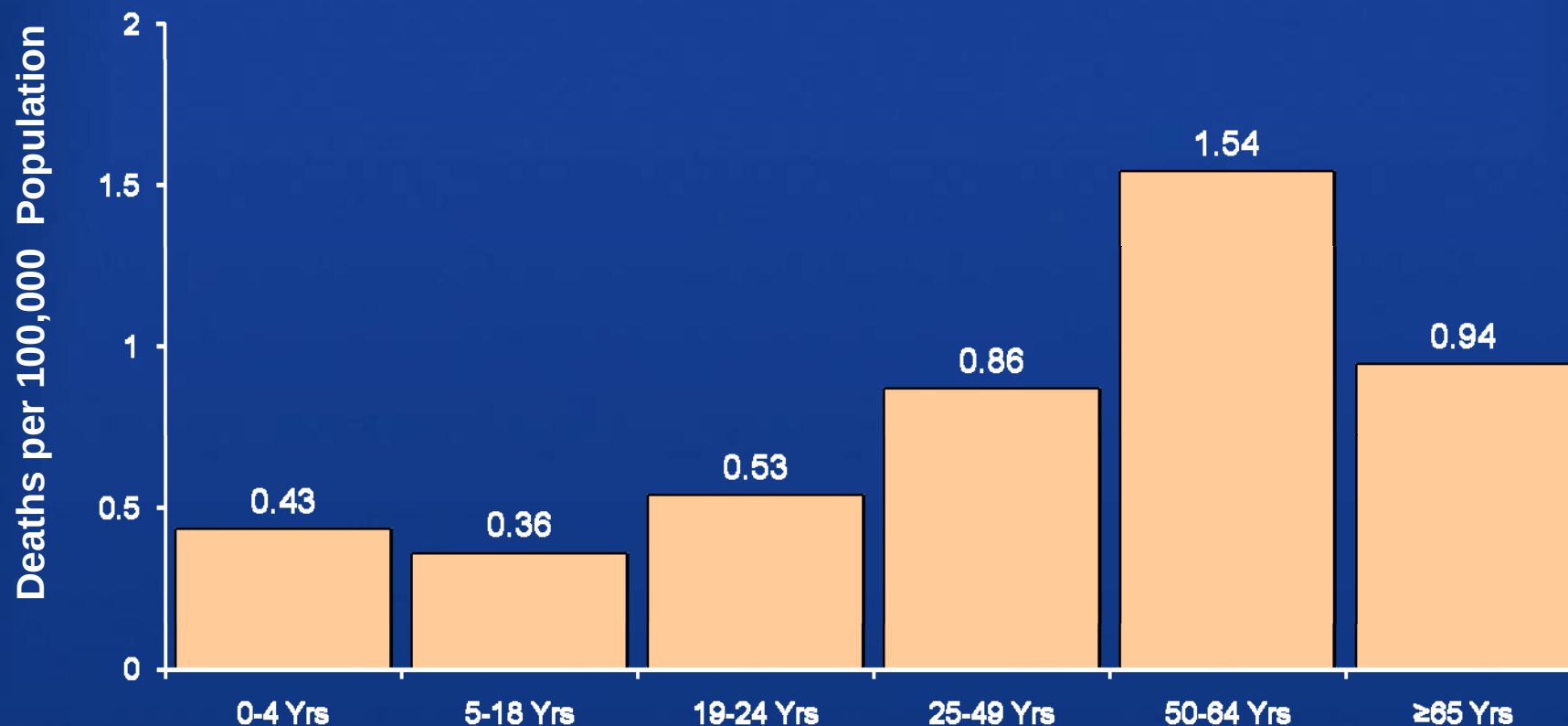
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 11 – 20 MAR 2010

Cumulative Lab-Confirmed Death Rate by Age Group (n=2,077)*



*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>



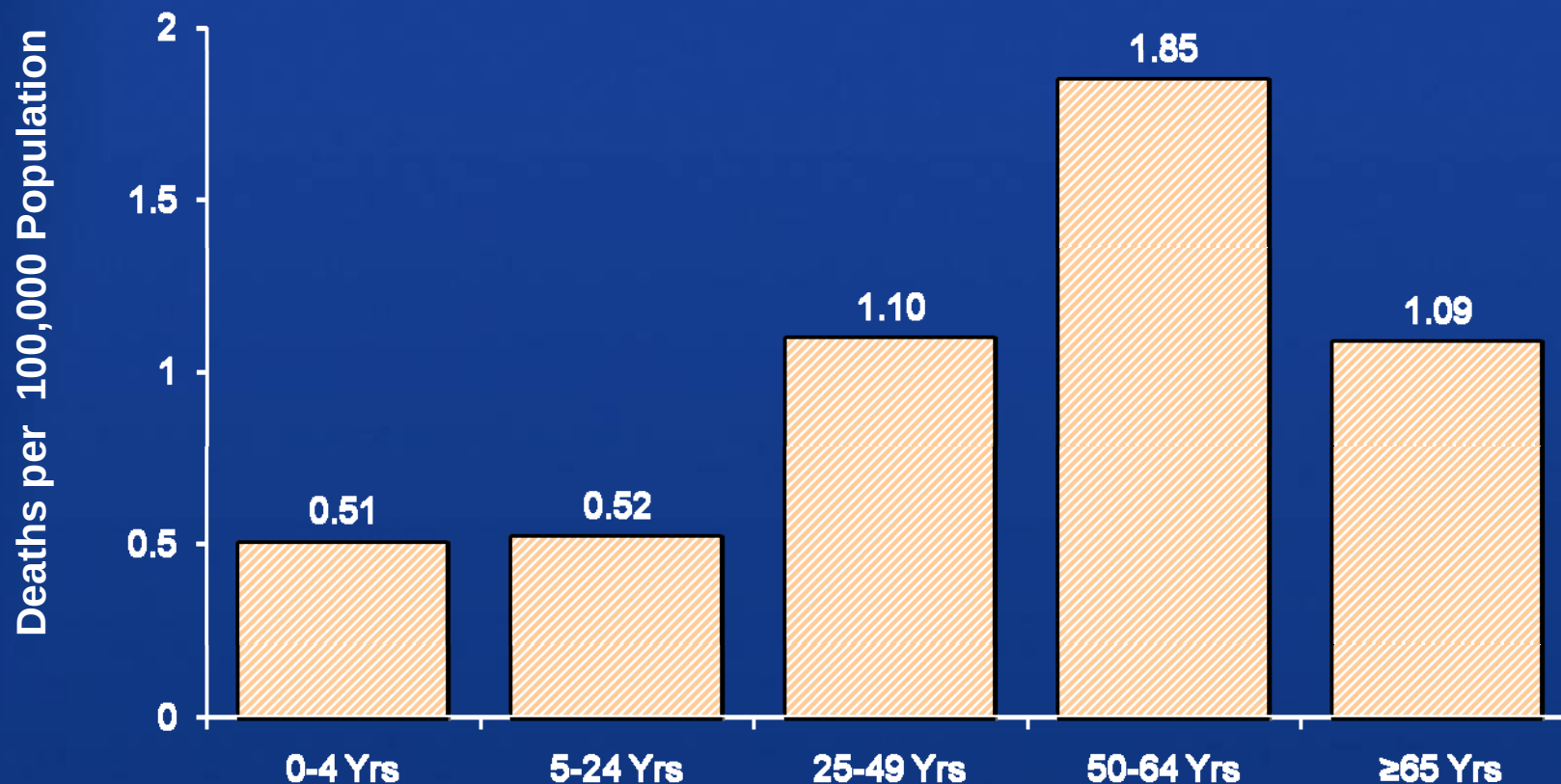
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
2009-H1N1 April through March 20, 2010

Cumulative Lab-Confirmed Death Rate by Age Group (n=2,670)*



*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

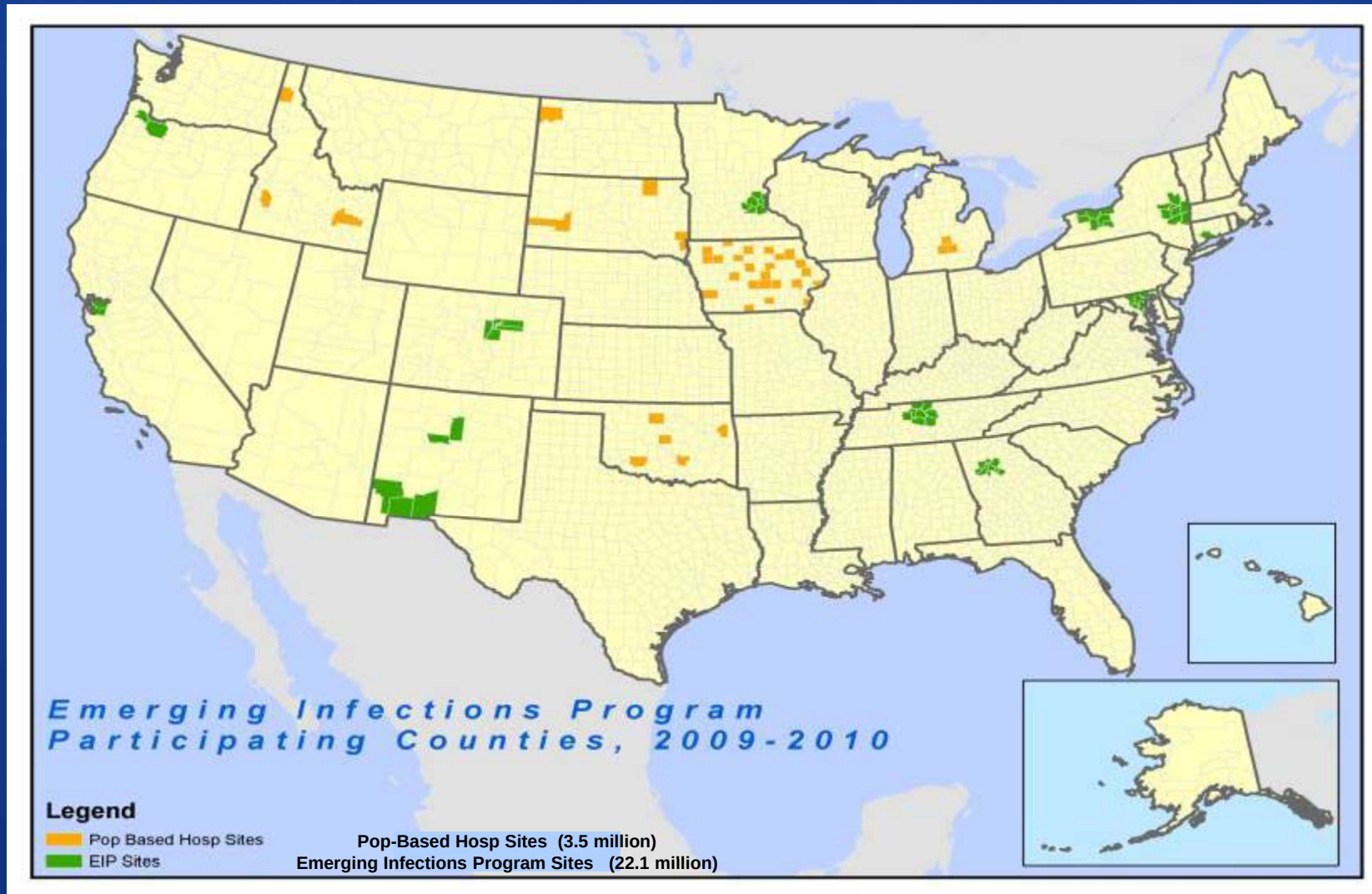


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Laboratory-Confirmed Influenza Hospitalization Surveillance, 2009-2010



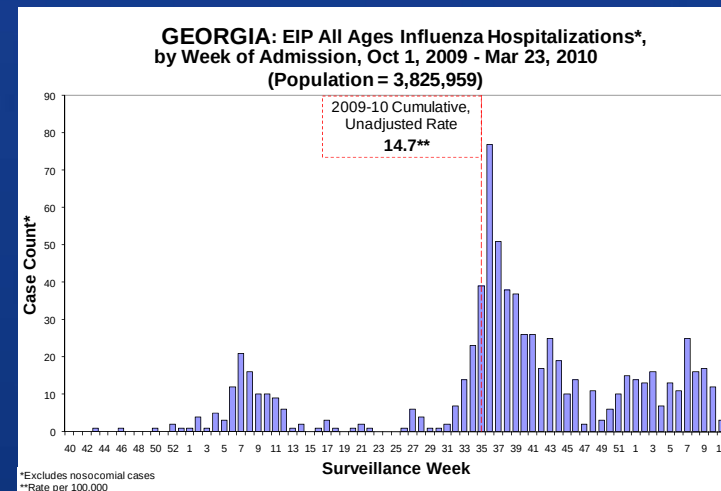
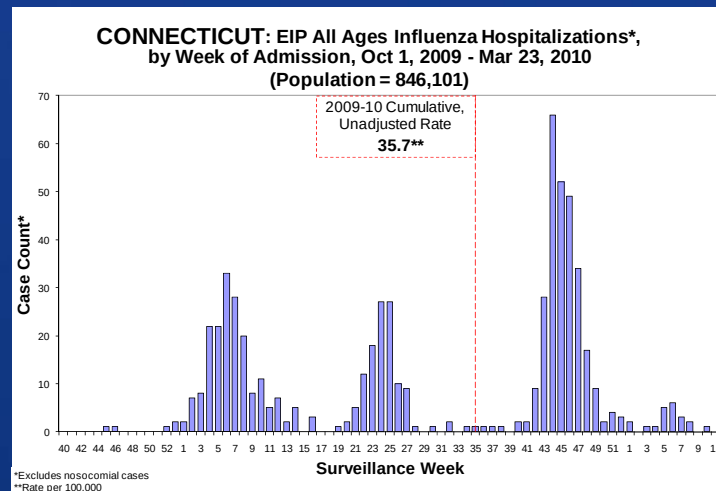
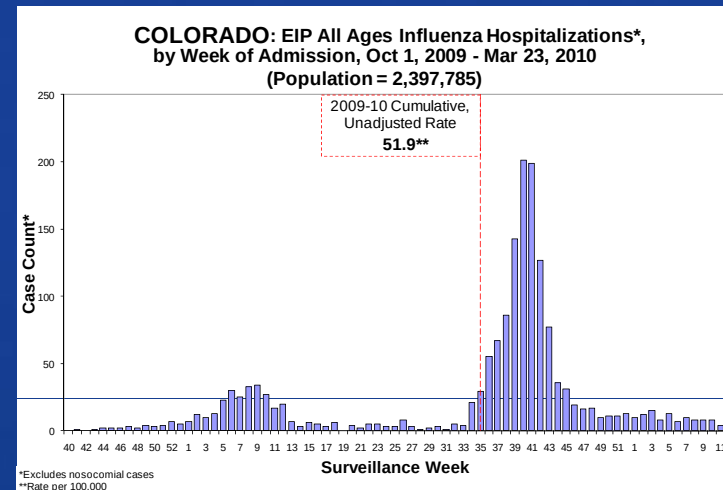
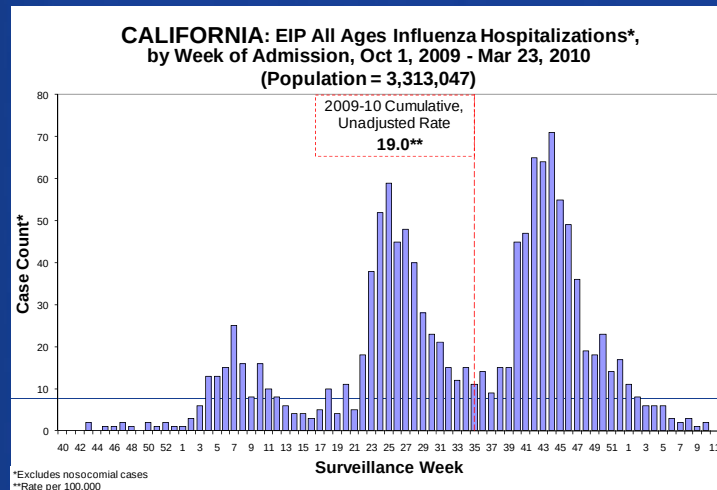
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Epidemiology/Surveillance

EIP Counts by Week by Site



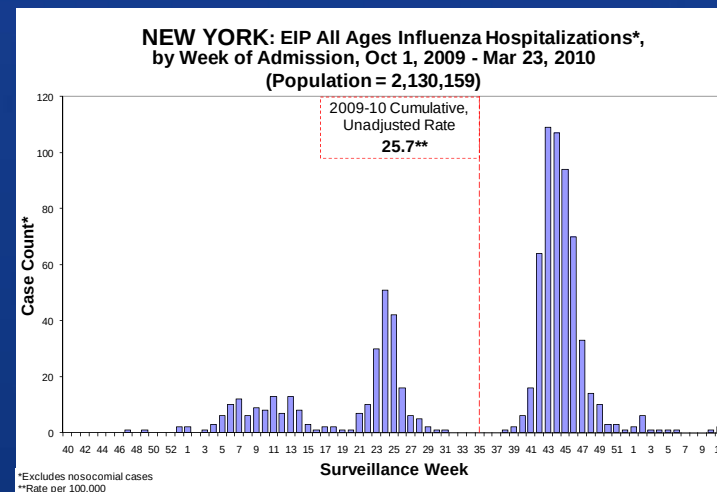
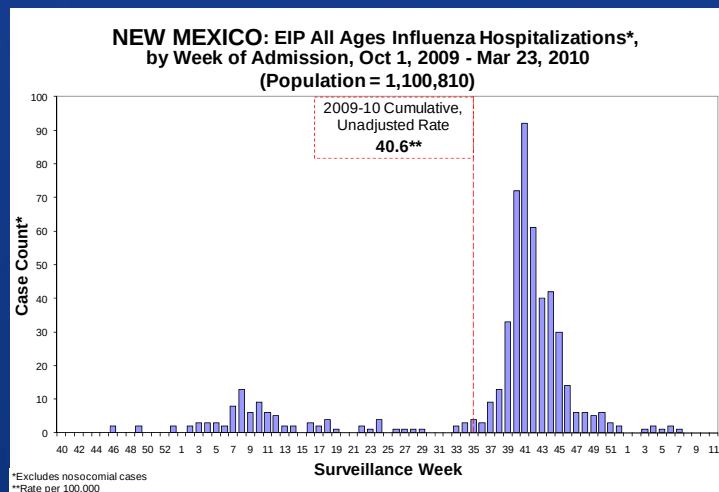
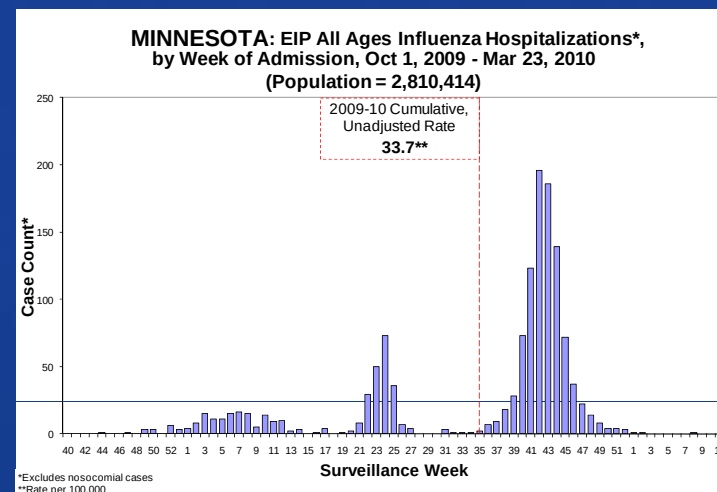
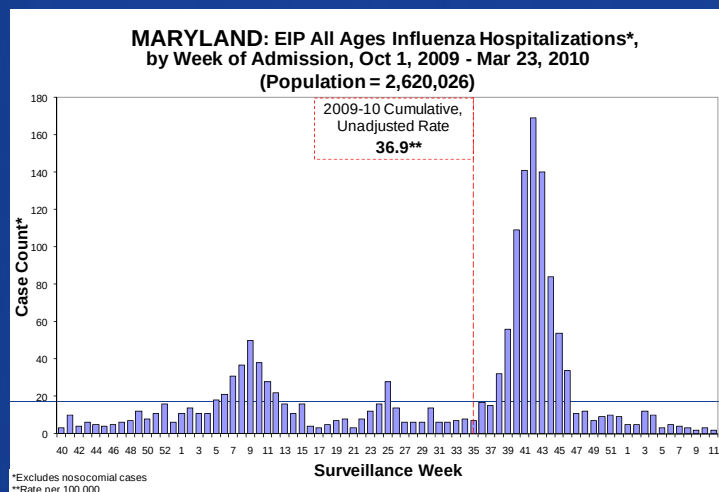
novel 2009-H1N1 – 26 MAR 2010

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Epidemiology/Surveillance

EIP Counts by Week by Site



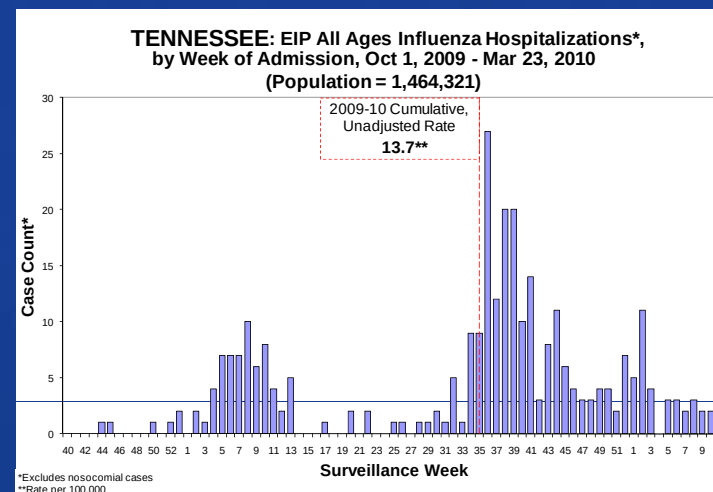
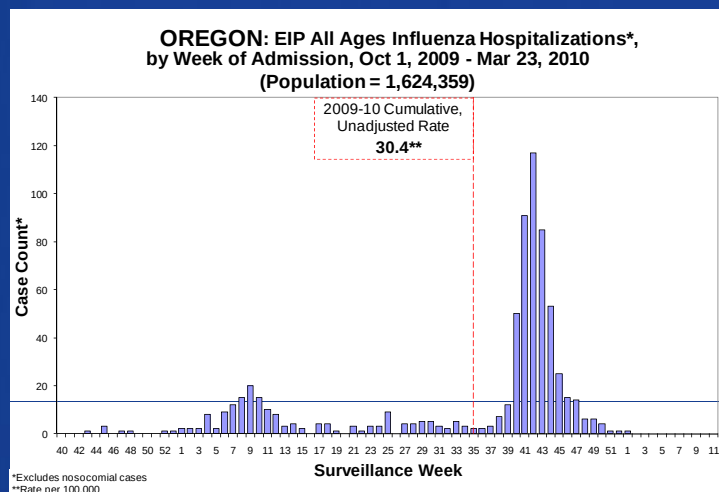
novel 2009-H1N1 – 26 MAR 2010

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Epidemiology/Surveillance

EIP Counts by Week by Site



novel 2009-H1N1 – 26 MAR 2010

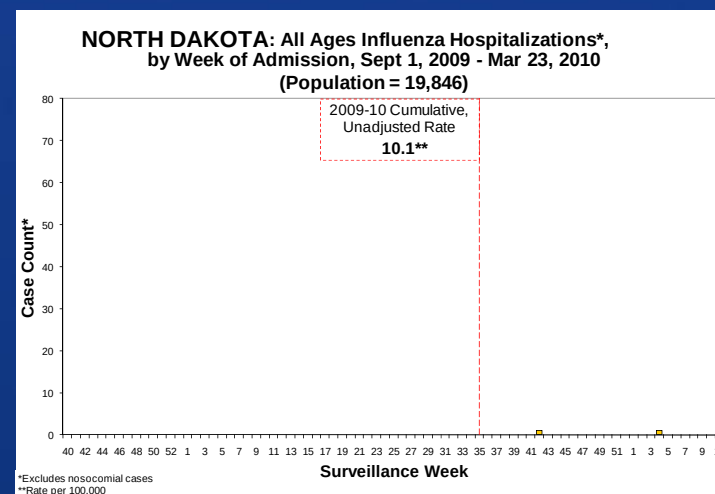
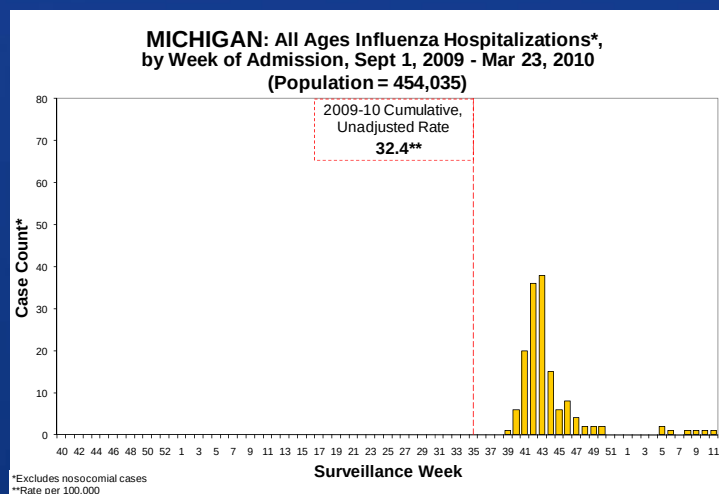
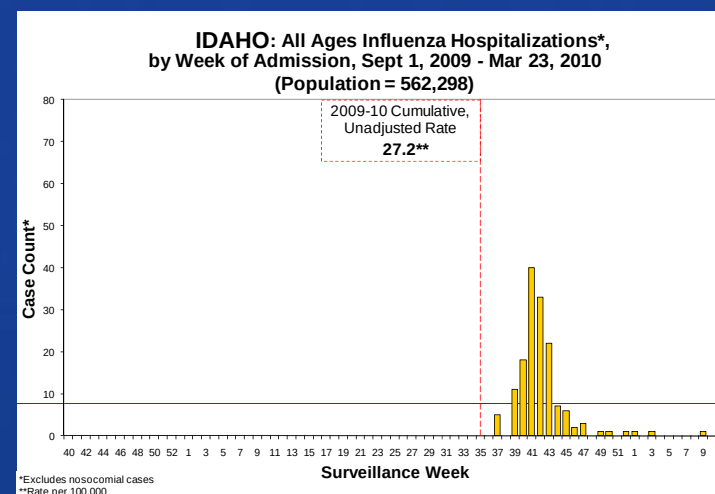
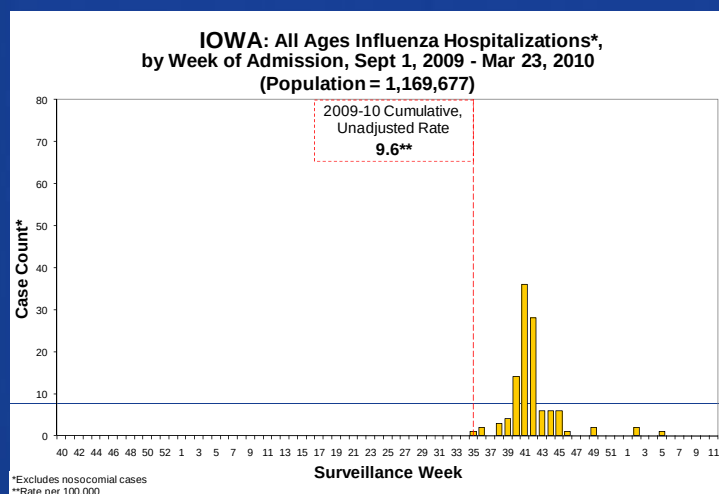
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Epidemiology/Surveillance

Influenza Hospitalization: New Sites

Counts by Week by Site



novel 2009-H1N1 – 26 MAR 2010

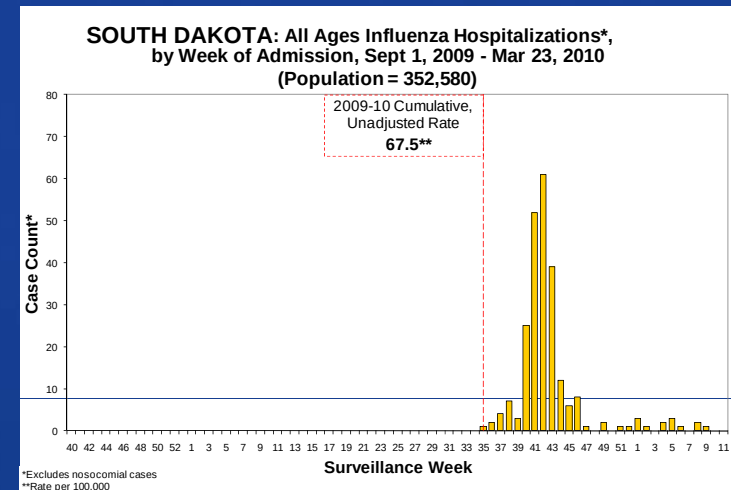
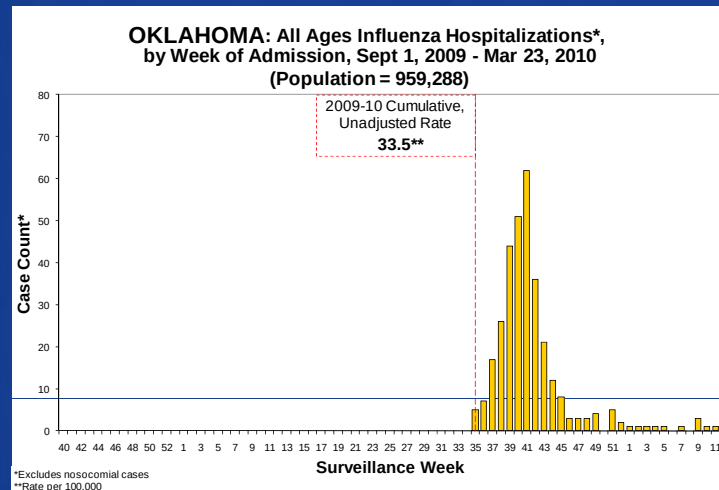
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Epidemiology/Surveillance

Influenza Hospitalization: *New Sites*

Counts by Week by Site



novel 2009-H1N1 – 26 MAR 2010

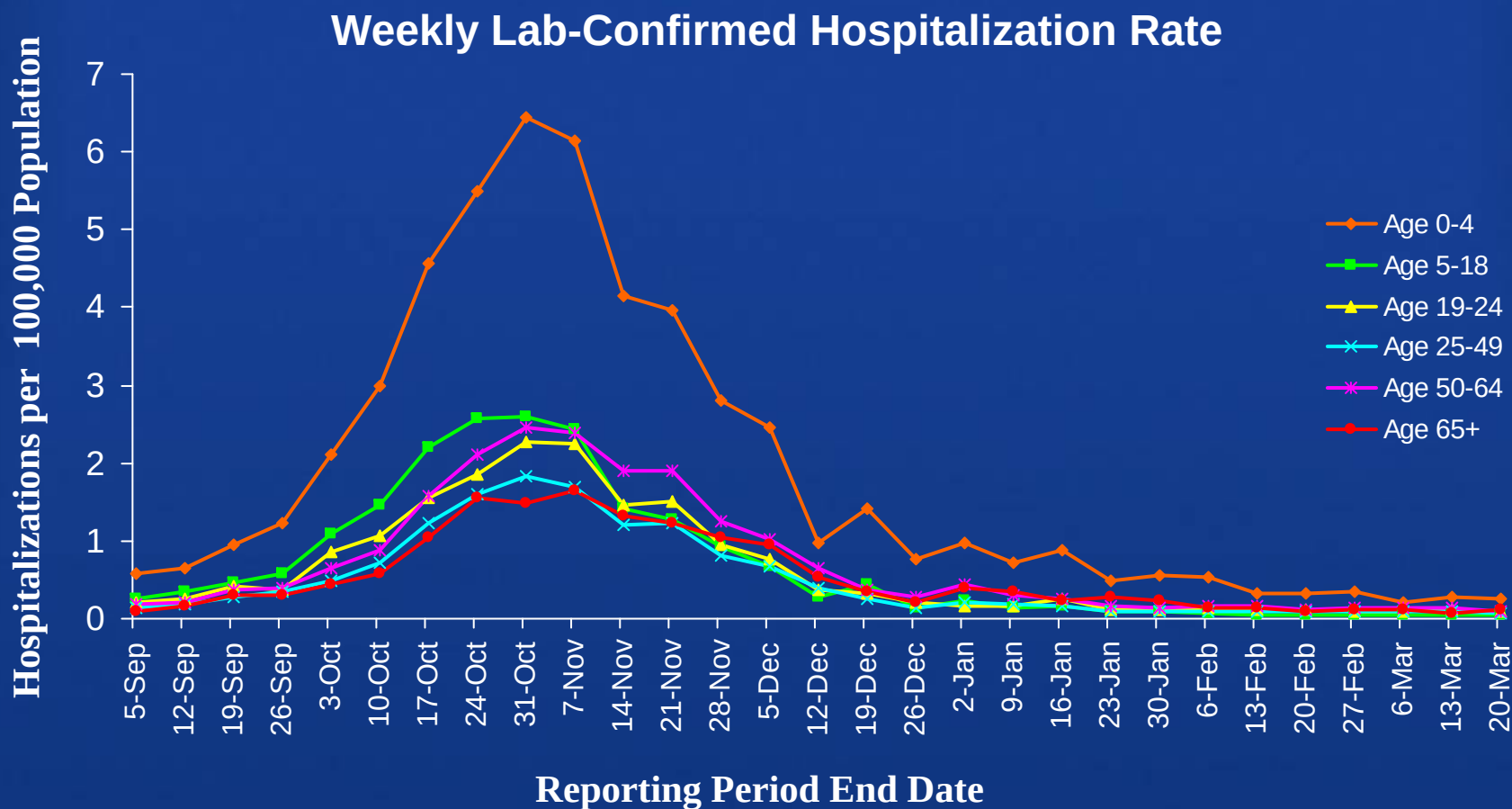
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Epidemiology/Surveillance

Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)

Influenza Week 11 – 20 MAR 2010



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>



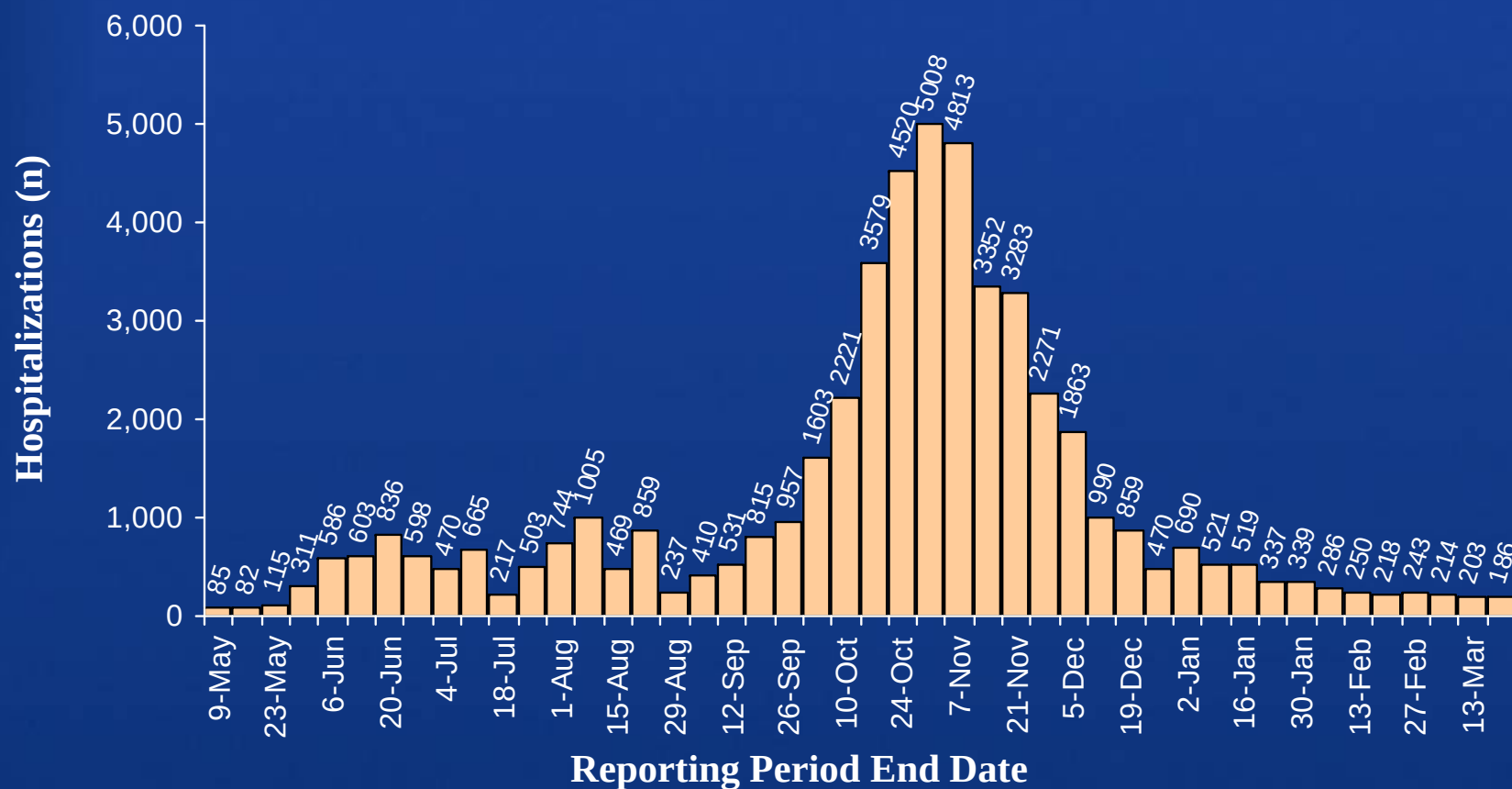
novel 2009-H1N1 – 26 MAR 2010

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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 11 – 20 MAR 2010

Weekly Reported Lab-Confirmed Hospitalizations (n=50,765)



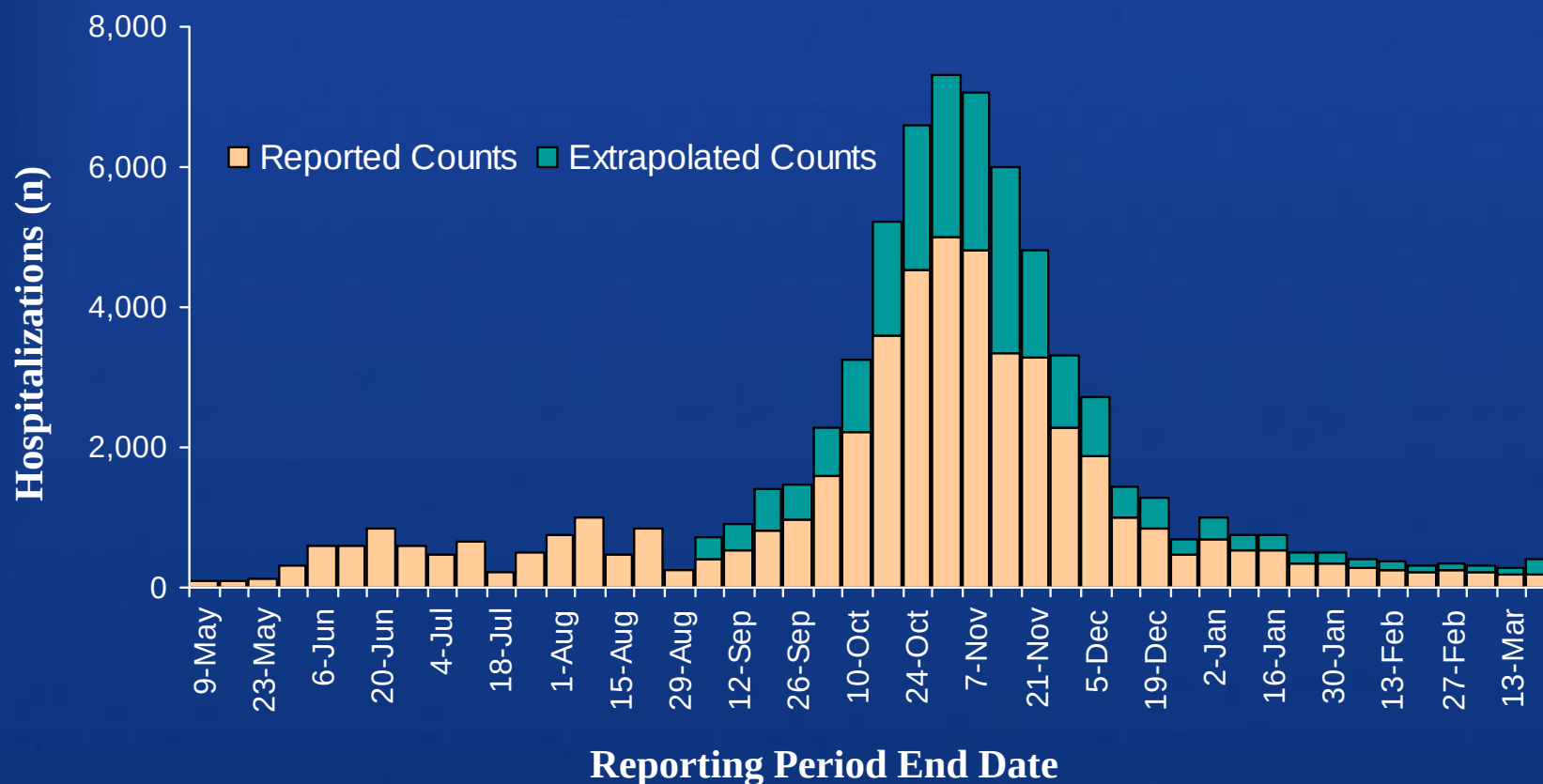
novel 2009-H1N1 – 26 MAR 2010

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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 11 – 20 MAR 2010

Reported and Extrapolated Counts of Lab-Confirmed Hospitalizations



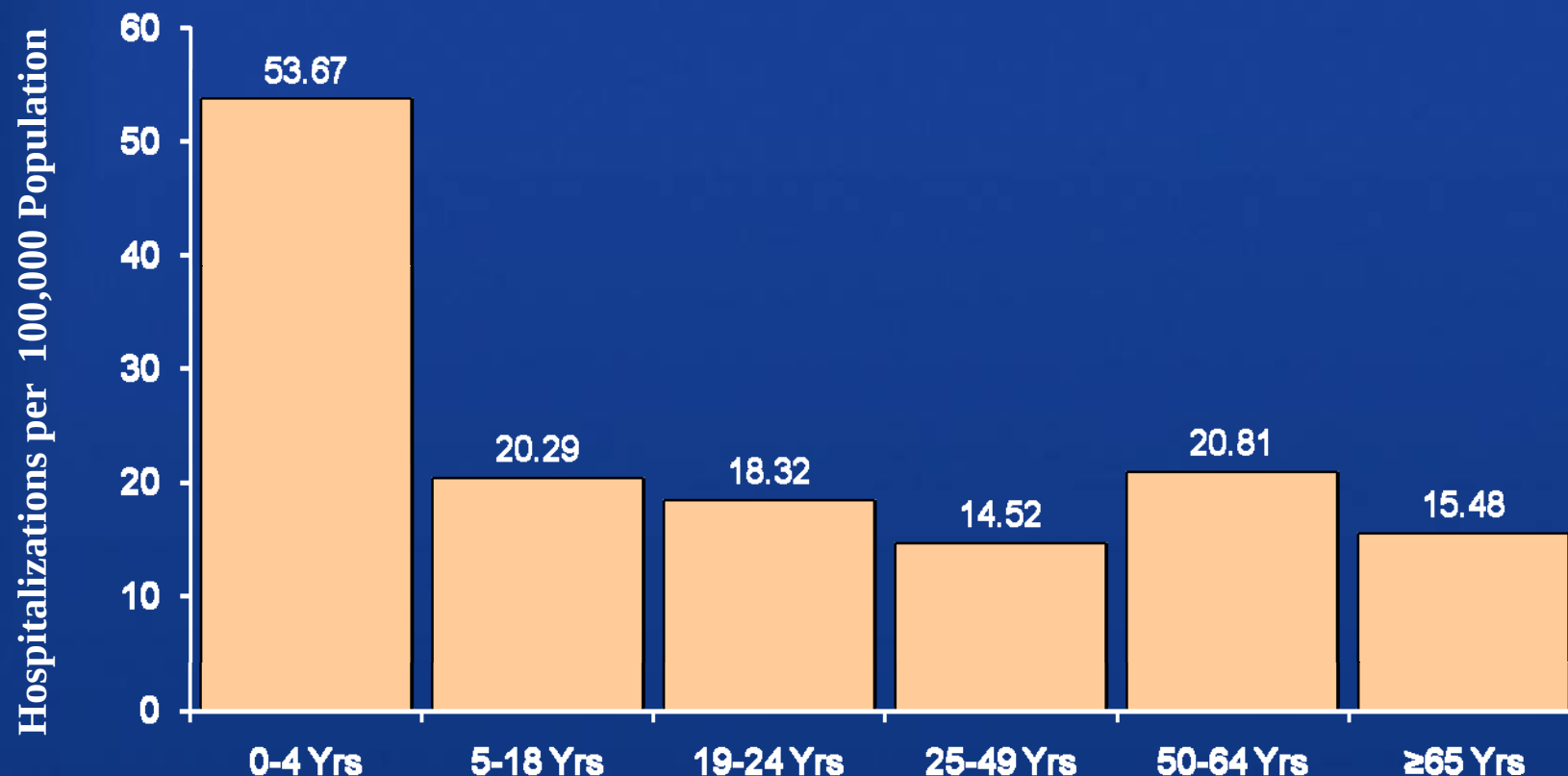
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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
Influenza Week 11 – 20 MAR 2010

Cumulative Lab-Confirmed Hospitalization Rate by Age Group (n=41,551)*



*Numbers are cumulative from start of MMWR week 35 (August 30, 2009). Hospitalizations with unknown ages are included (n=209) 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>

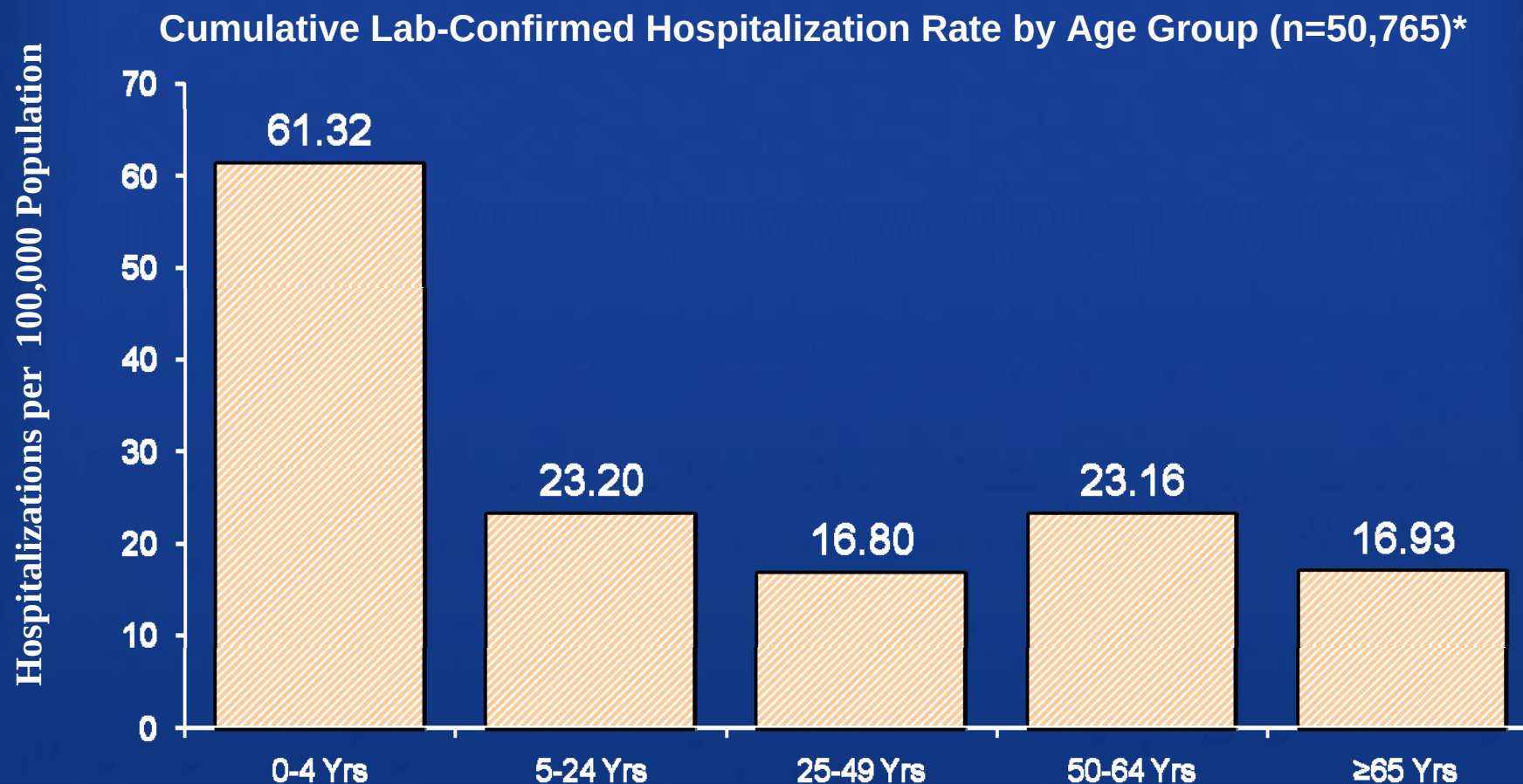


novel 2009-H1N1 – 26 MAR 2010

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Epidemiology/Surveillance
Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA)
2009-H1N1 April through March 20, 2010



*Hospitalizations with unknown ages are included (n=636) 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>



novel 2009-H1N1 – 26 MAR 2010

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Epidemiology/Surveillance

Severity: H1N1 2009



**Seasonal
Severity**



novel 2009-H1N1 – 26 MAR 2010

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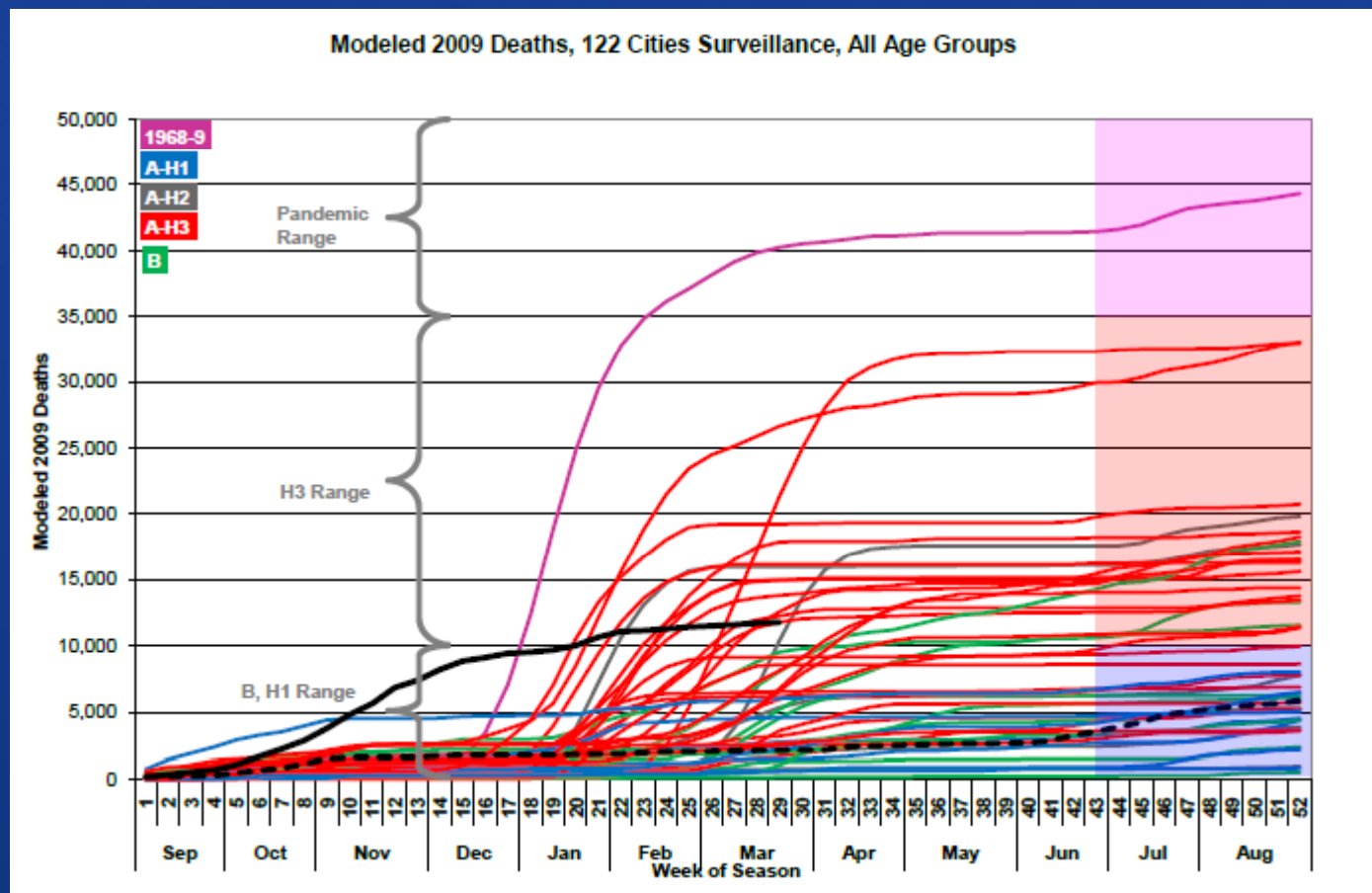
Internal Use Only (FIUO)---For Official Use Only (FOUO) -Sensitive But Unclassified (SBU) - NOT FOR FURTHER DISTRIBUTION

Epidemiology/Surveillance

Estimated Cumulative Deaths by Week

All ages

Seasonal
Severity



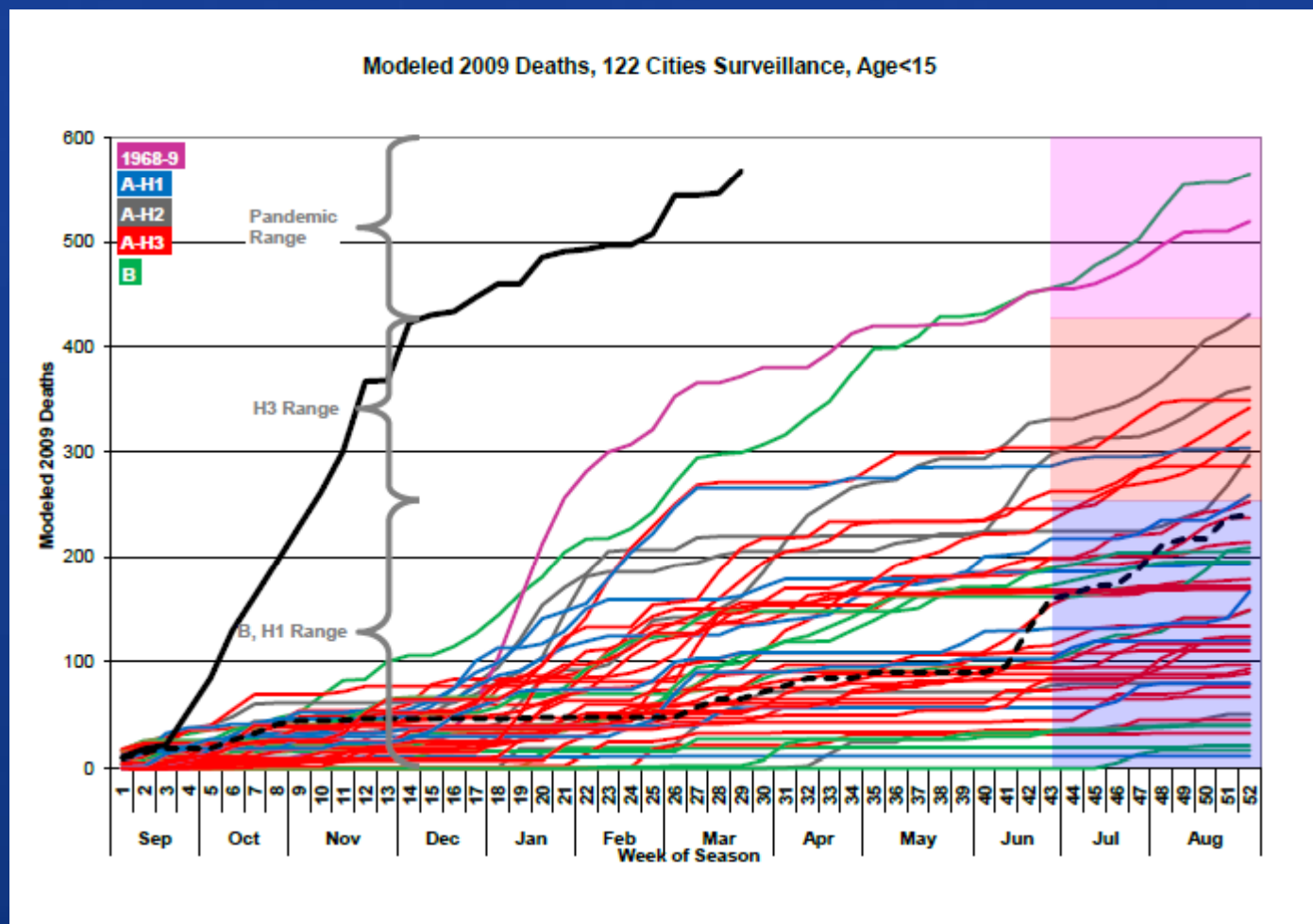
novel 2009-H1N1 – 26 MAR 2010

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Epidemiology/Surveillance Estimated Cumulative Deaths by Week Age < 15 years

Seasonal
Severity



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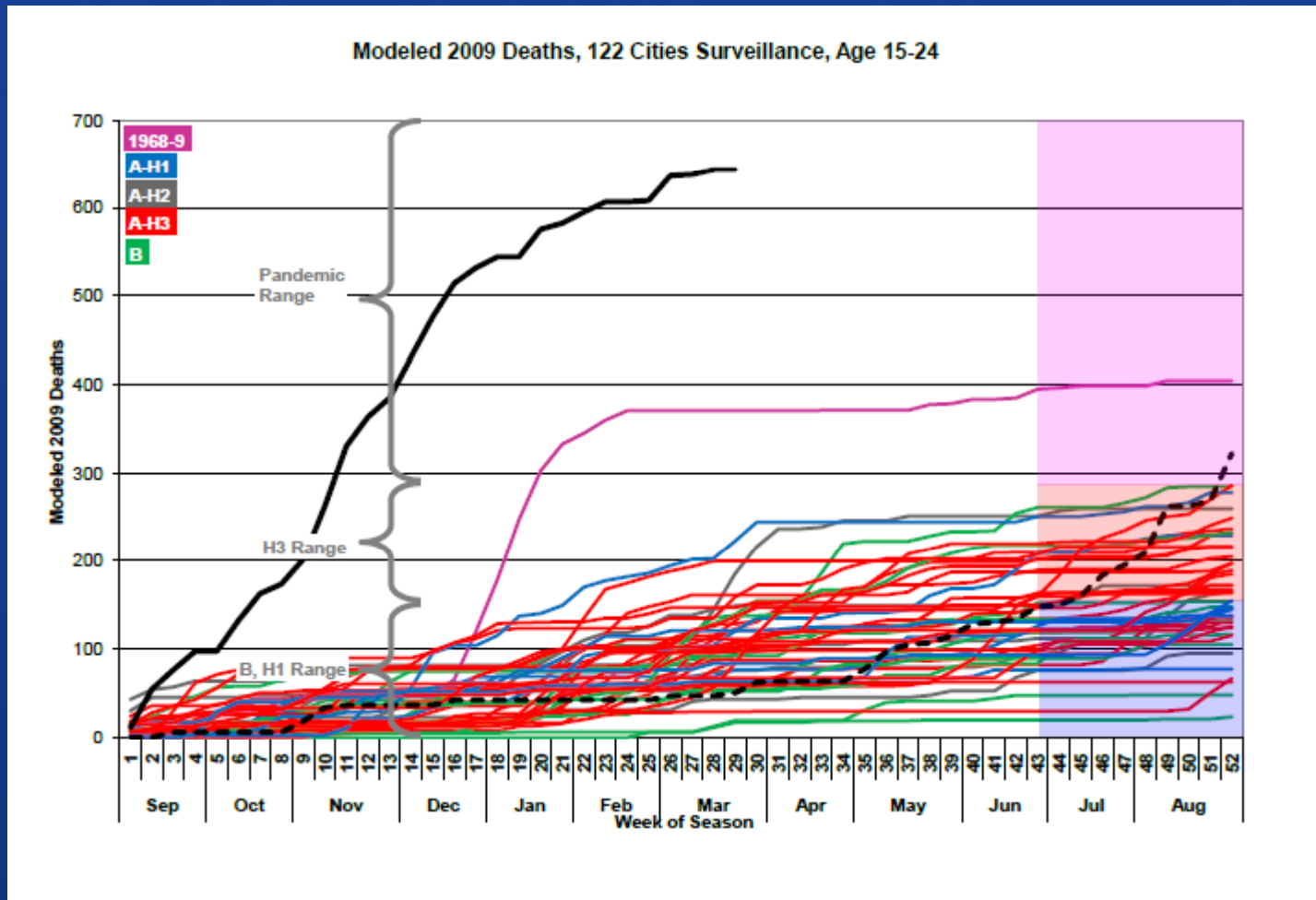
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Epidemiology/Surveillance

Estimated Cumulative Deaths by Week

Ages 15-24 years

Seasonal
Severity



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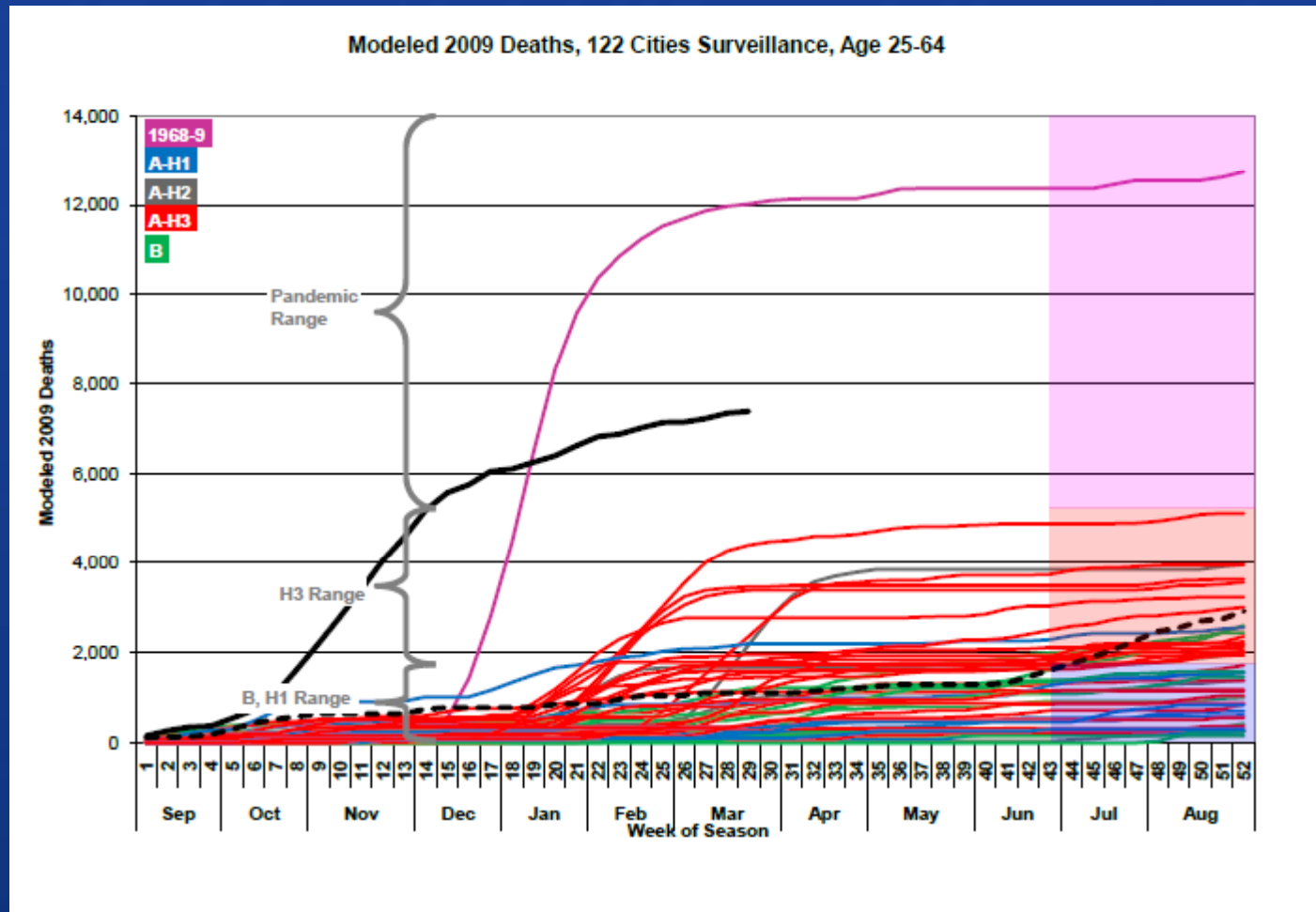
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Epidemiology/Surveillance

Estimated Cumulative Deaths by Week

Ages 25-64 years

Seasonal
Severity



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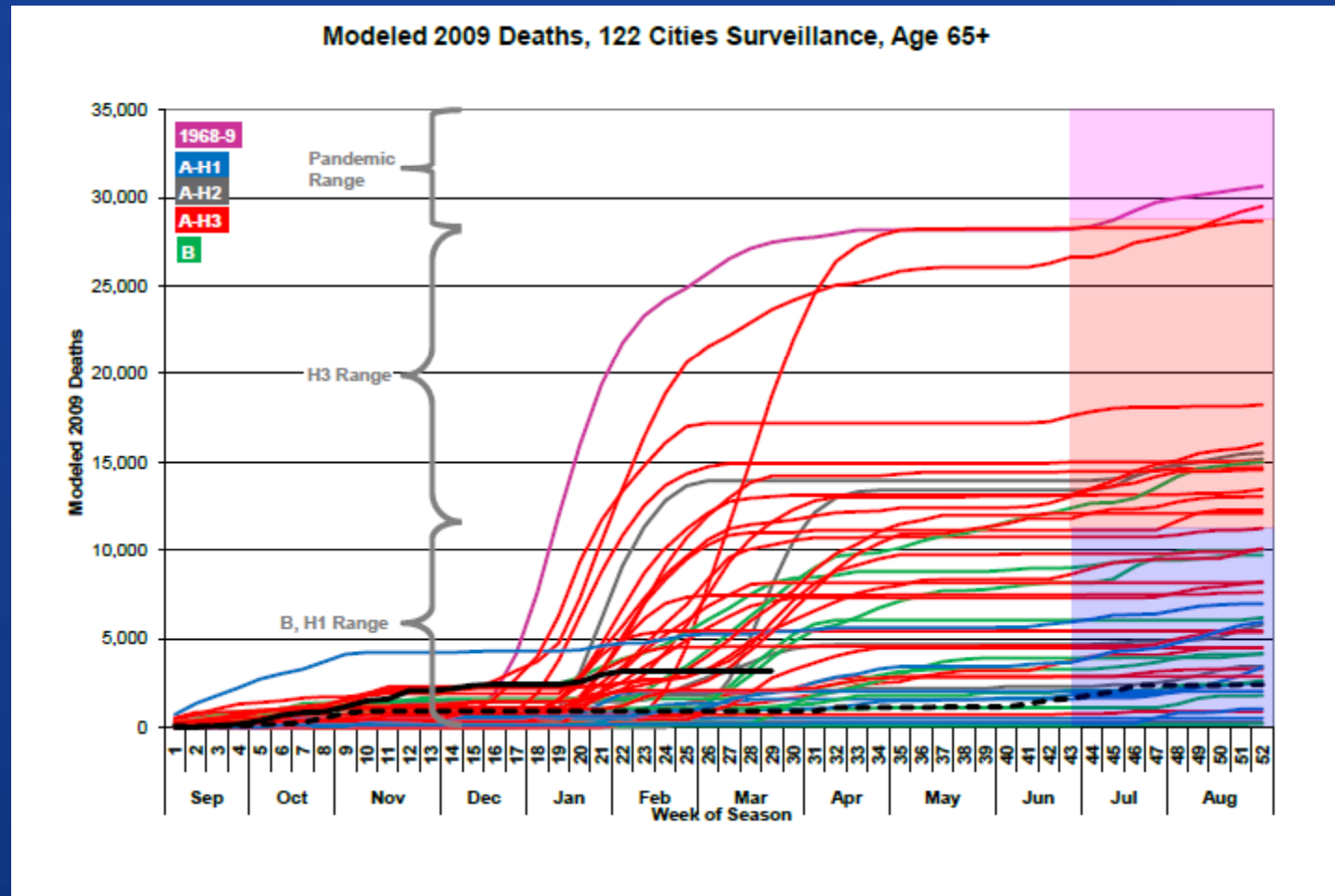
Internal Use Only (FIUO)---For Official Use Only (FOUO) -Sensitive But Unclassified (SBU) - NOT FOR FURTHER DISTRIBUTION

Epidemiology/Surveillance

Estimated Cumulative Deaths by Week

Ages 65 and Older

Seasonal
Severity



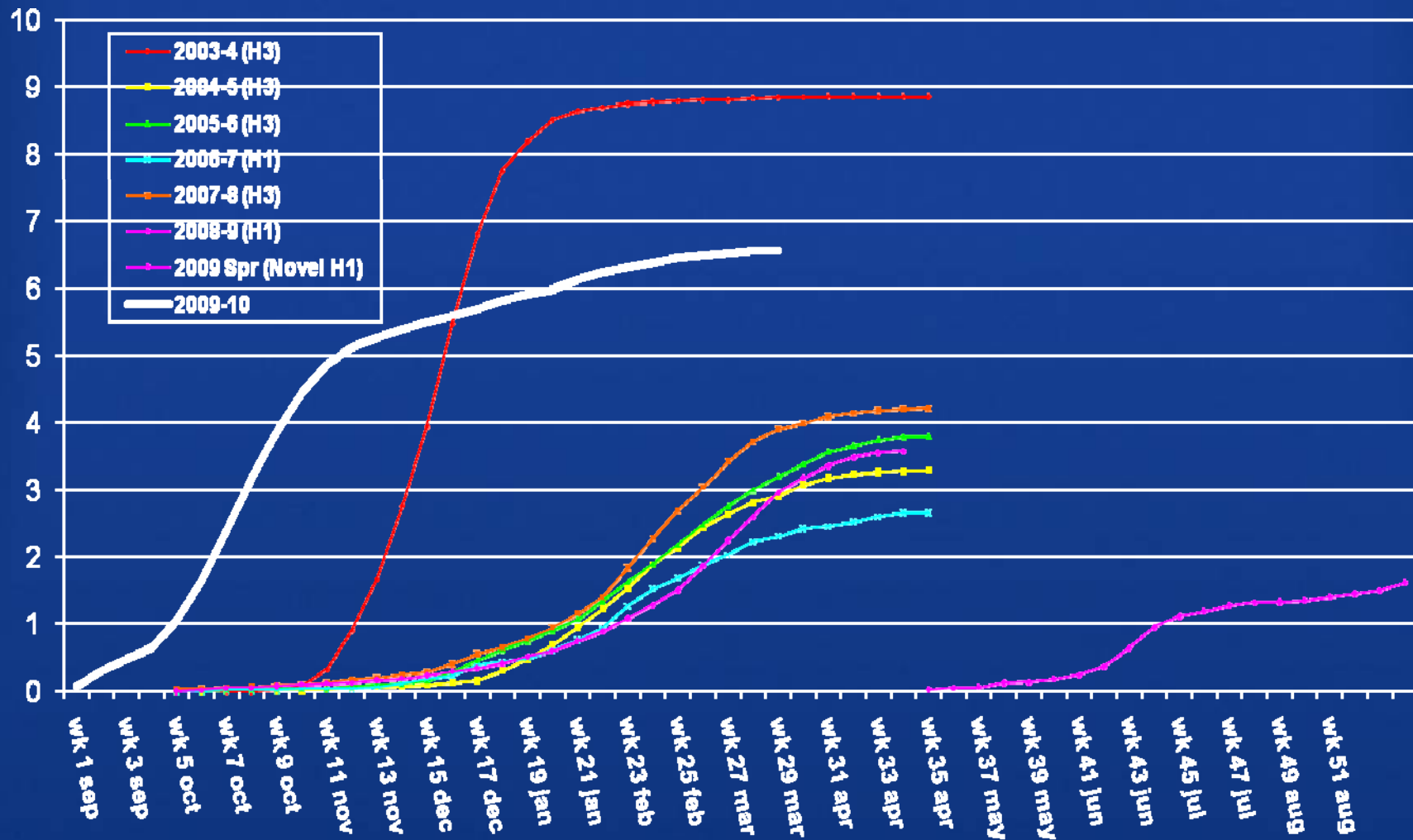
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Epidemiology/Surveillance

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



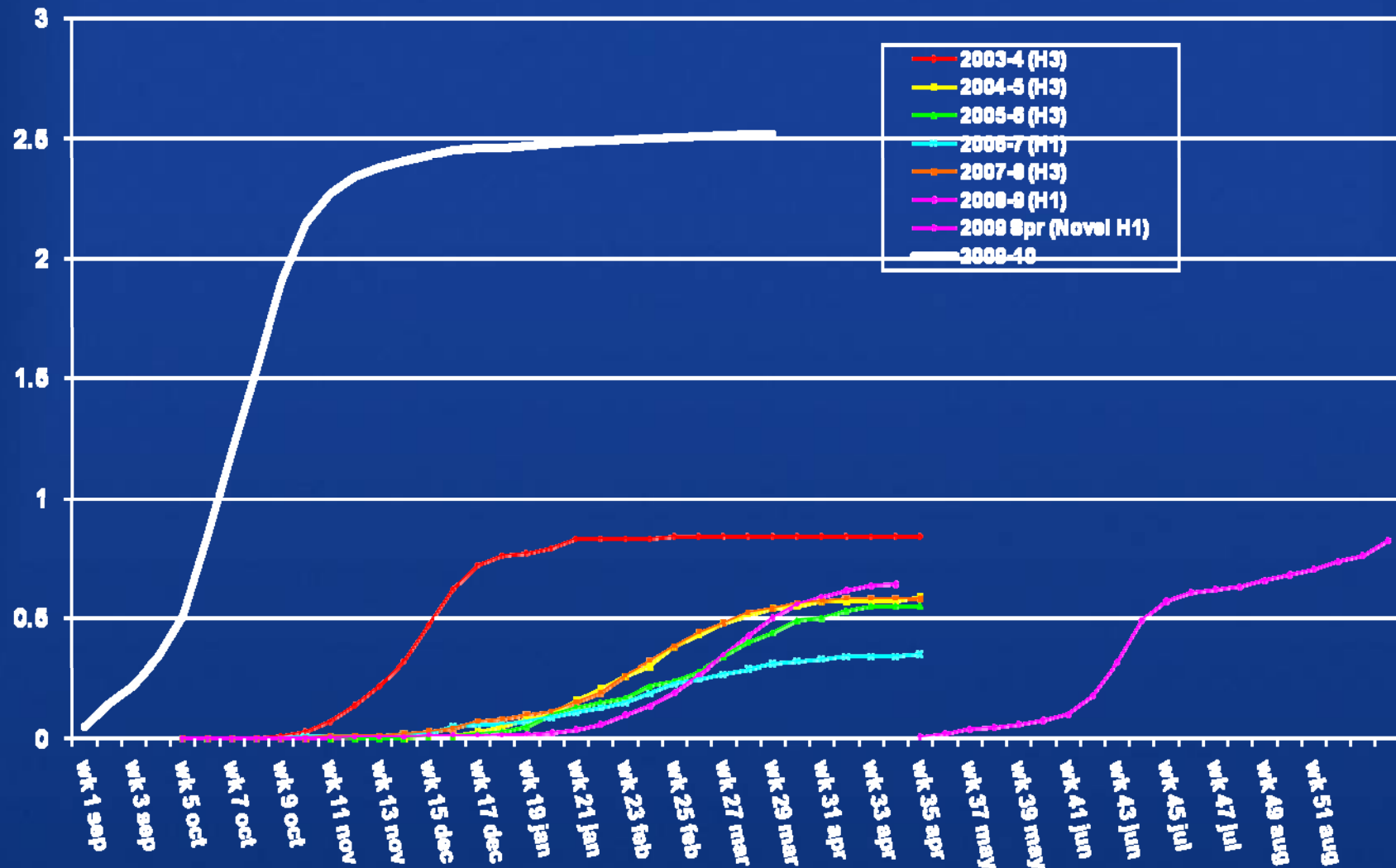
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Epidemiology/Surveillance

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



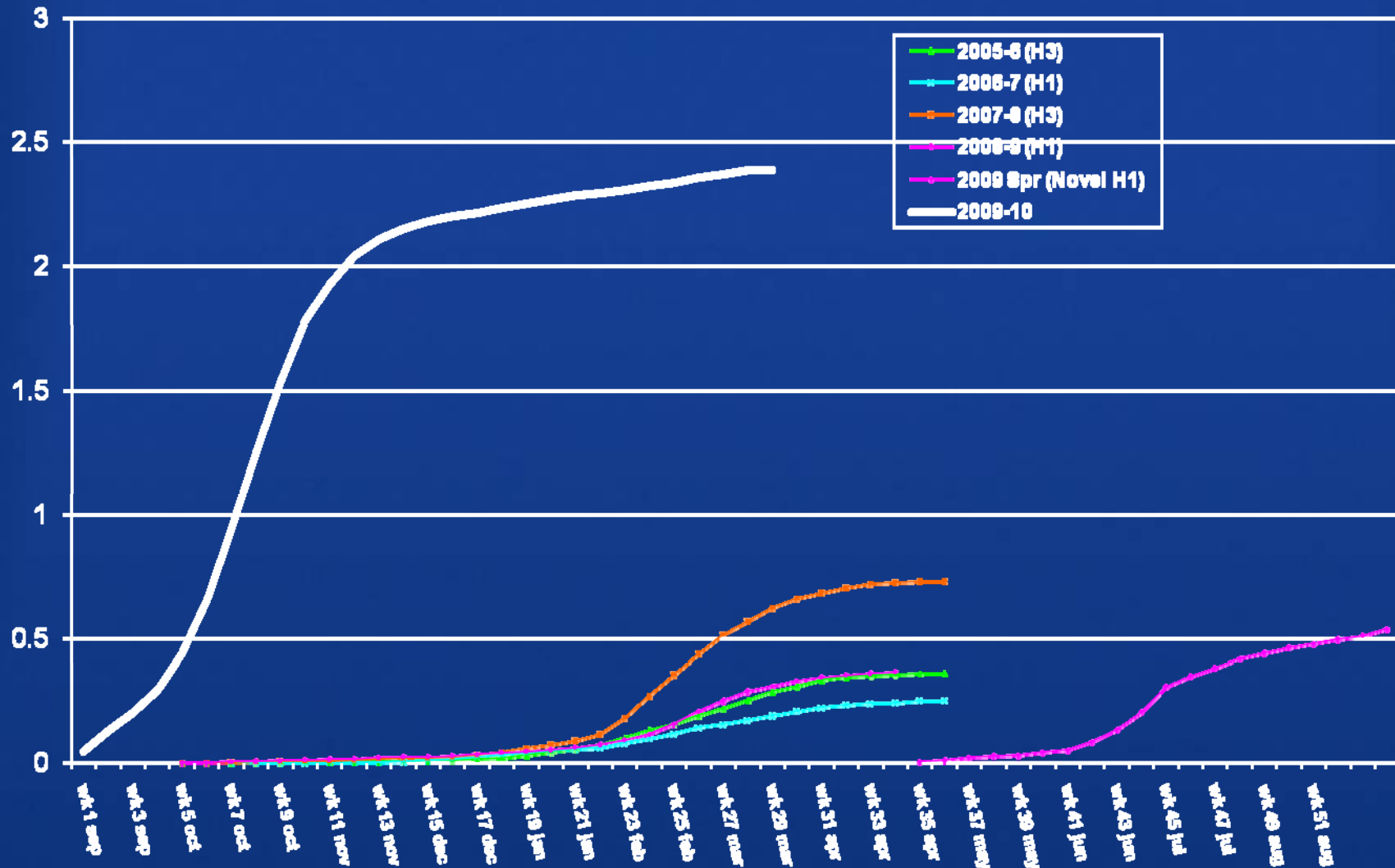
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Epidemiology/Surveillance

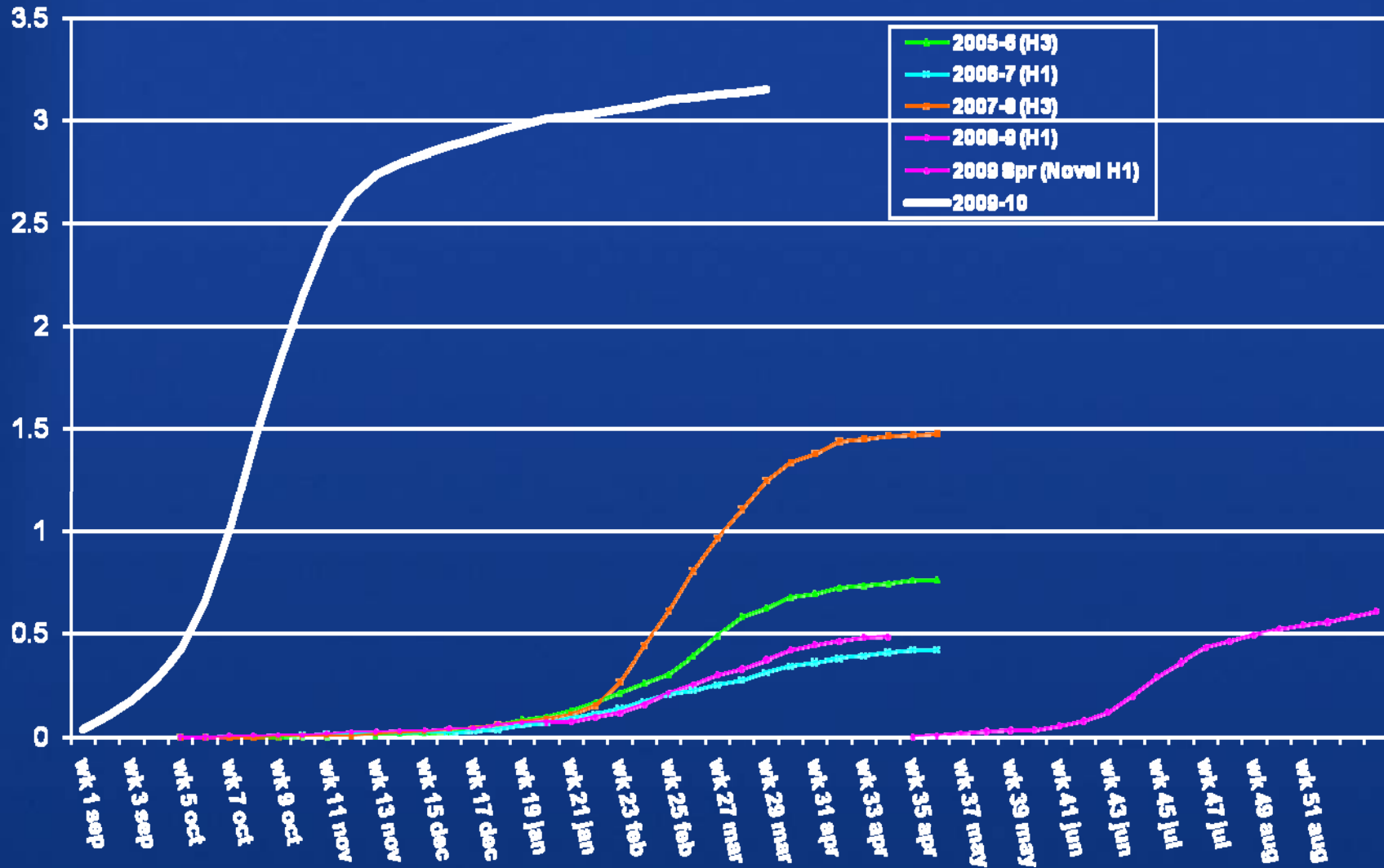
Cumulative rate of hospitalization/ 10,000 population ages 18-49, EIP, 2005-2009



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

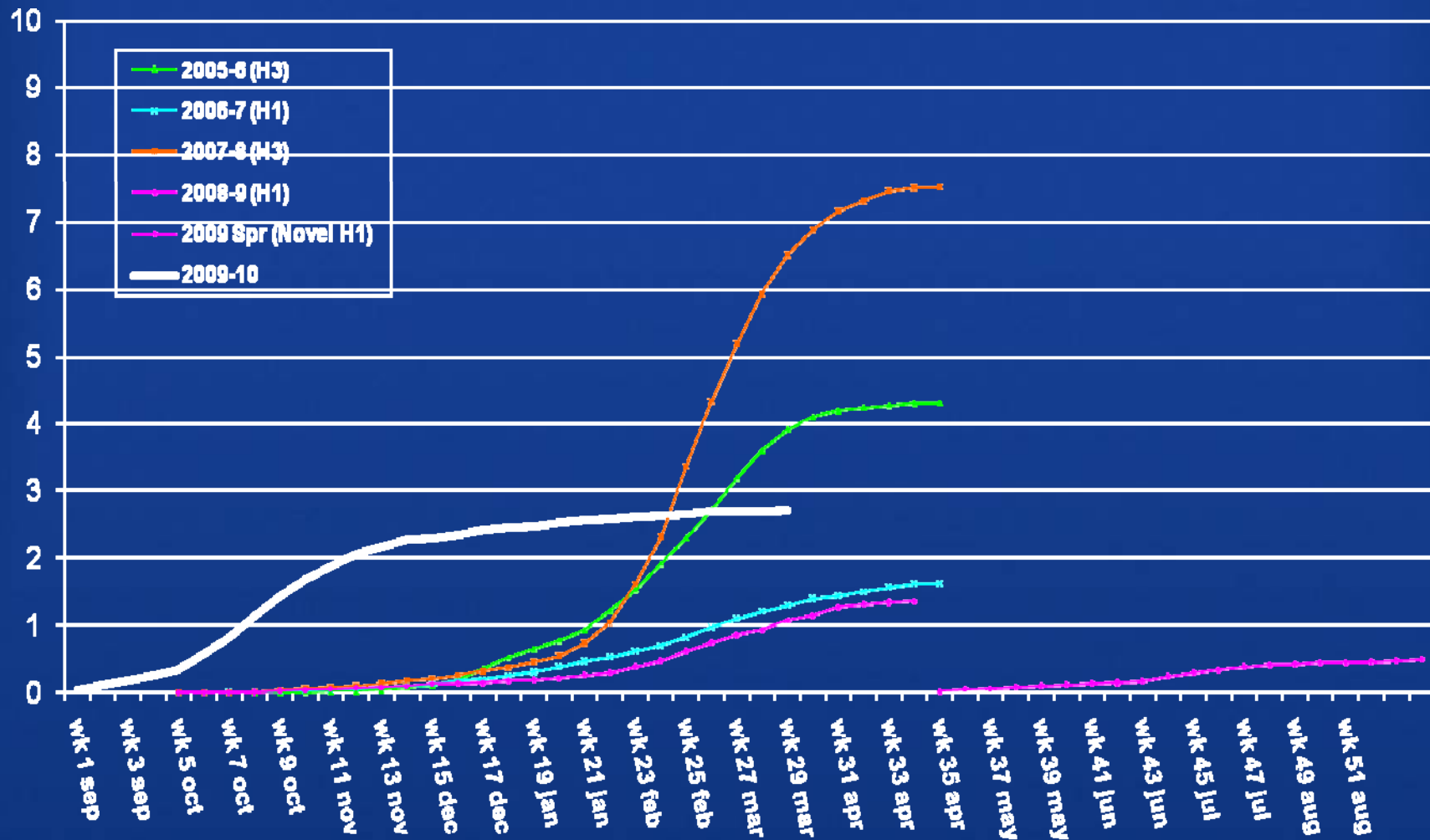


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Epidemiology/Surveillance

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



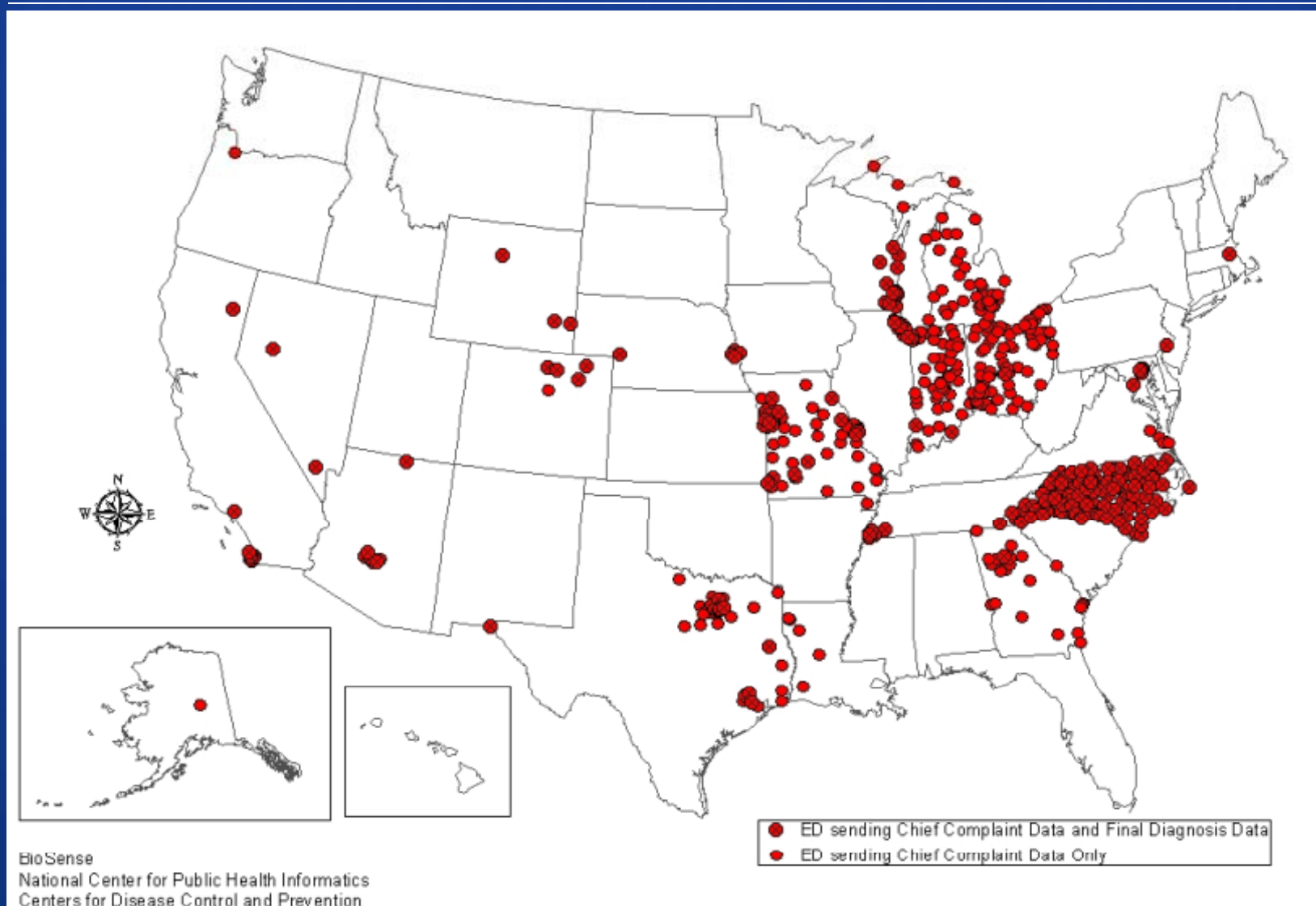
novel 2009-H1N1 – 26 MAR 2010

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BioSense

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

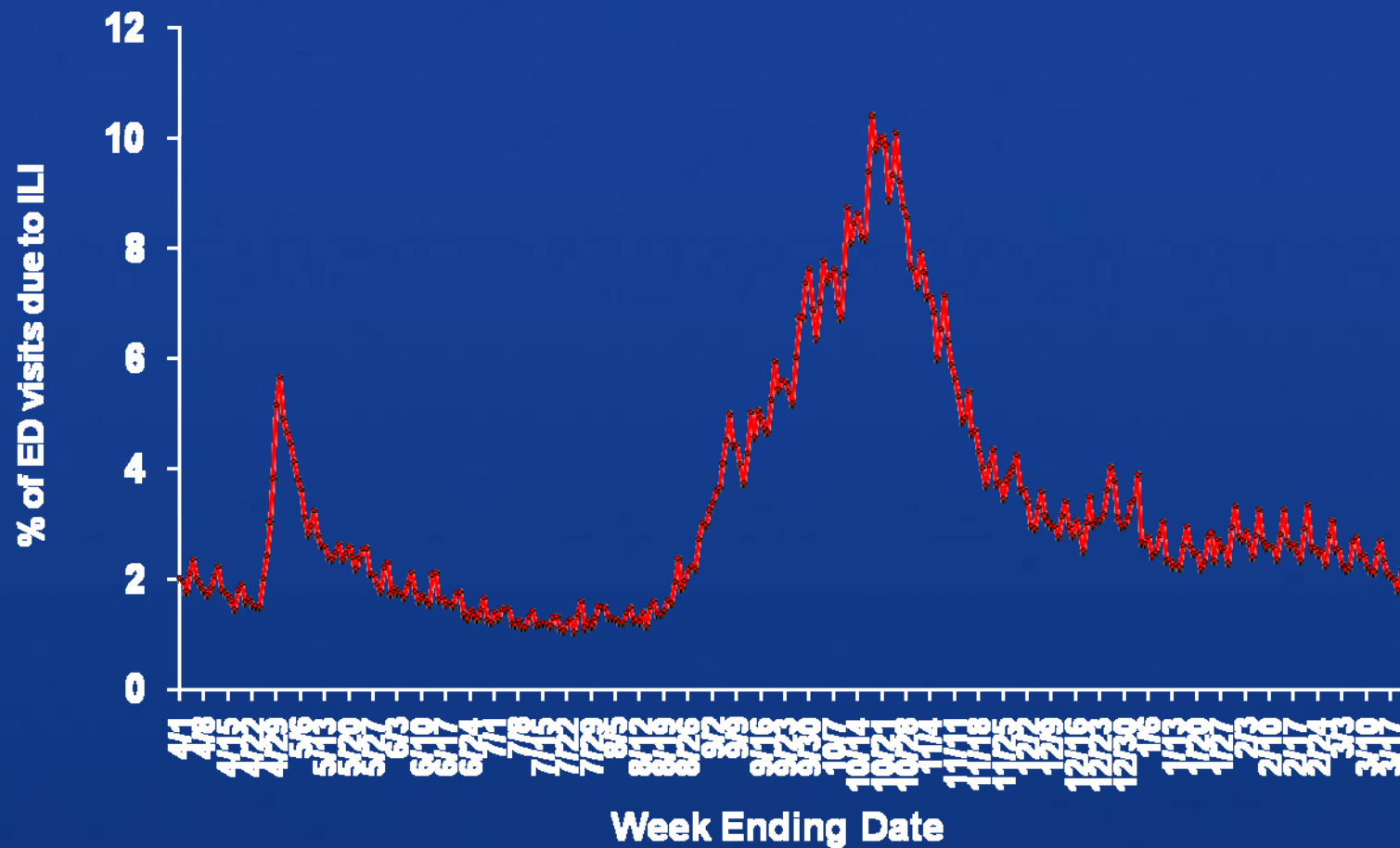


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BioSense
BioSense Emergency Departments (N=569) % of ED Visits due to ILI:
U.S., April 1, 2008 to March 22, 2010

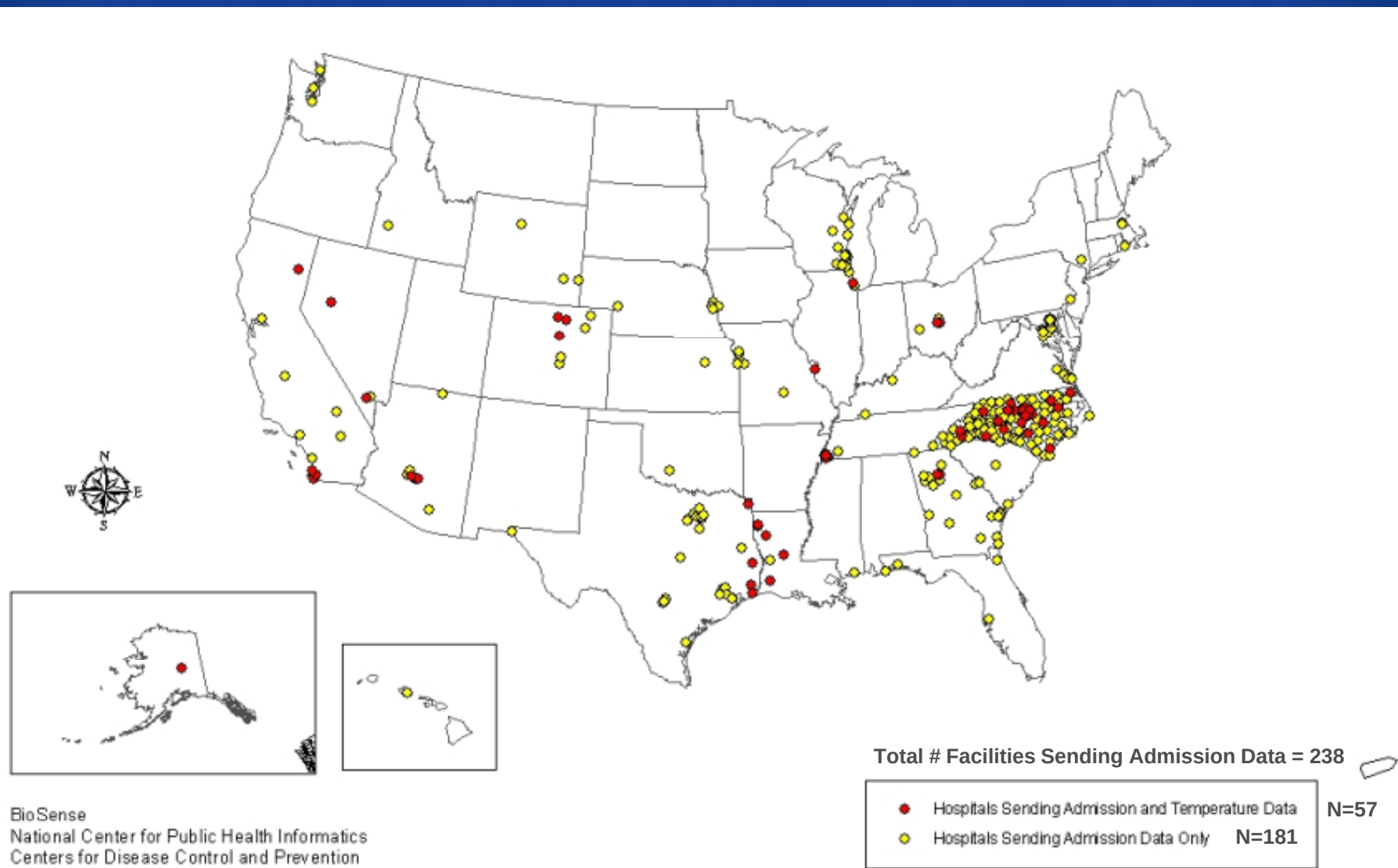


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BioSense Location of BioSense Emergency Dept. Sending Temperature and/or Disposition Data



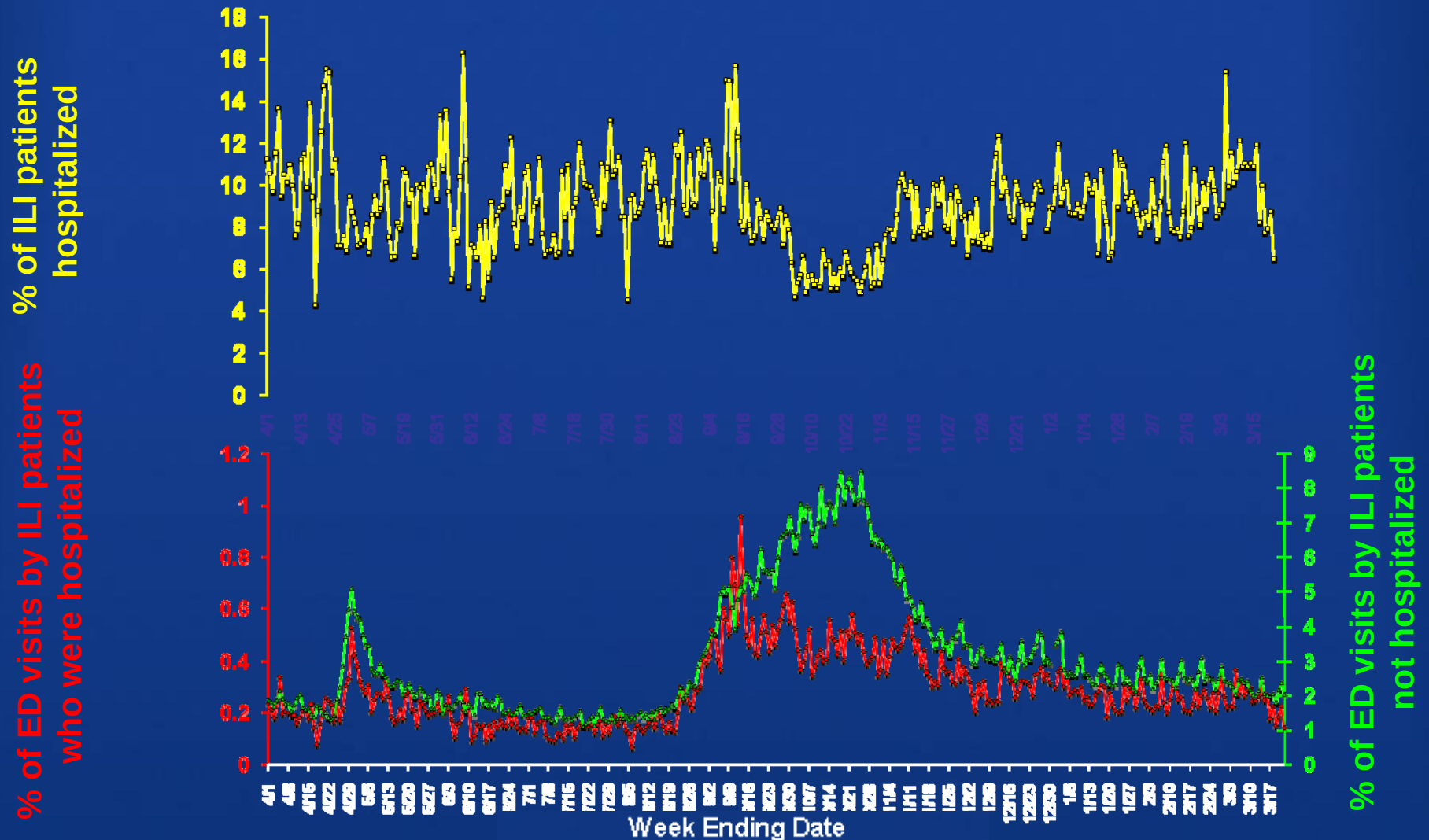
novel 2009-H1N1 – 26 Mar 2010

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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 March 22, 2010

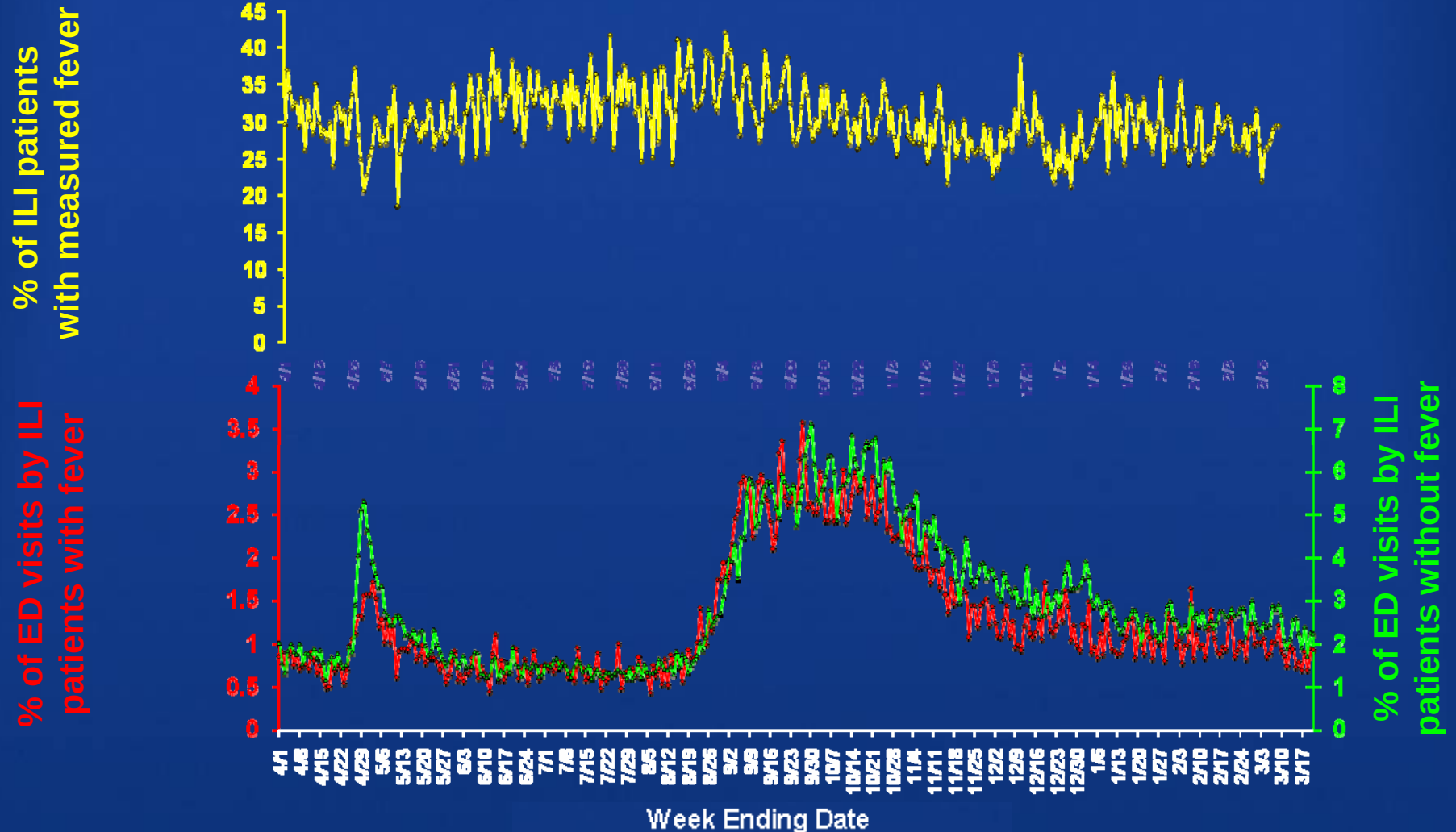


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BioSense Emergency Departments (N=57) % of ED visits due to ILI and % of ILI patients with fever: U.S., April 1, 2009 to March 21, 2010



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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>



novel 2009-H1N1 – 26 Mar 2010

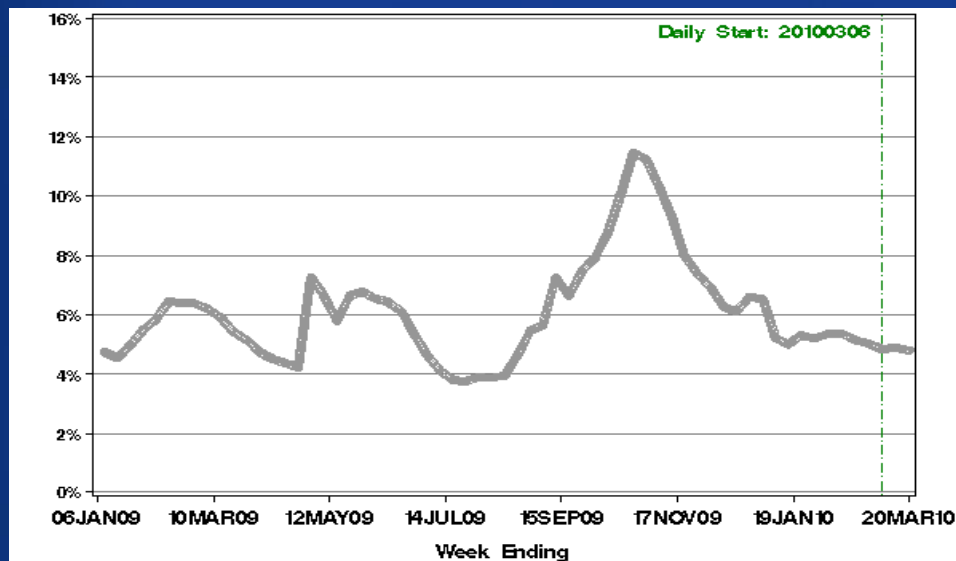
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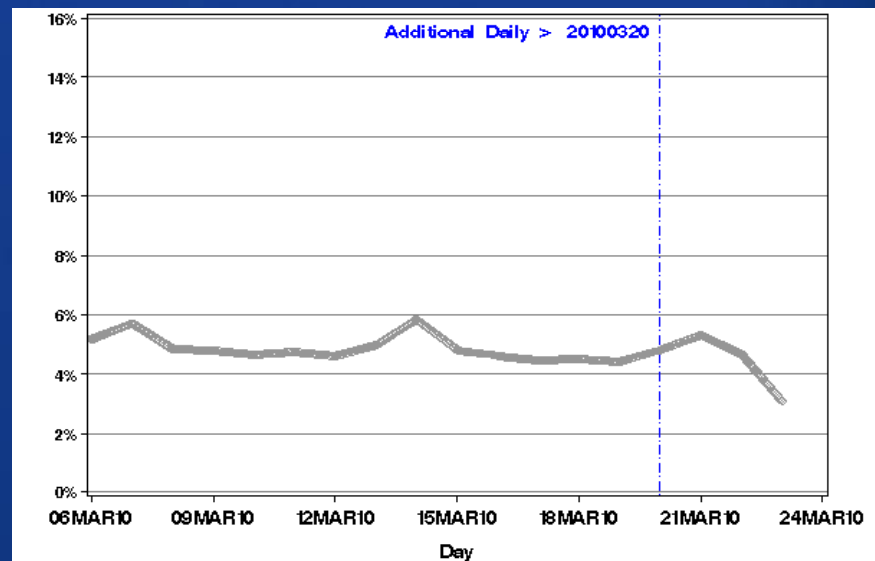
Health Department Syndromic Surveillance: Distribute Project
Aggregate Data: 27 Health Departments (Weighted)

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

By Week, through MMWR Week Ending 20 Mar 2010



By Day, 6 Mar 2010 through 23 Mar 2010
(Vertical line depicts end of weekly view)



novel 2009-H1N1 – 26 Mar 2010

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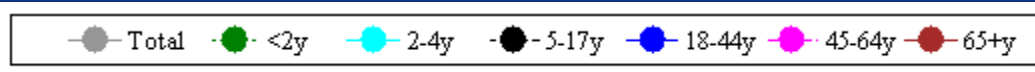
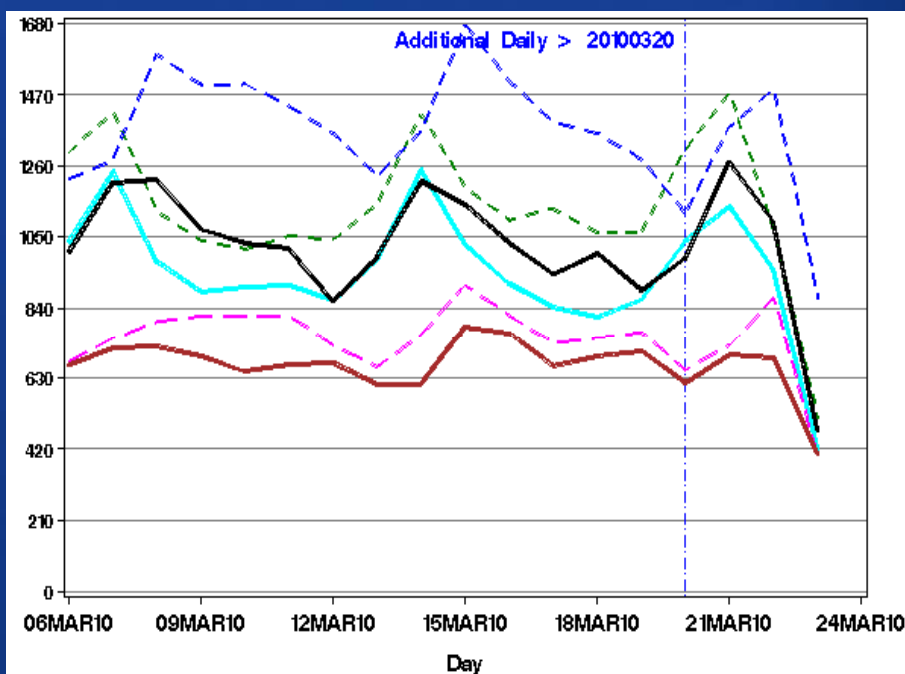
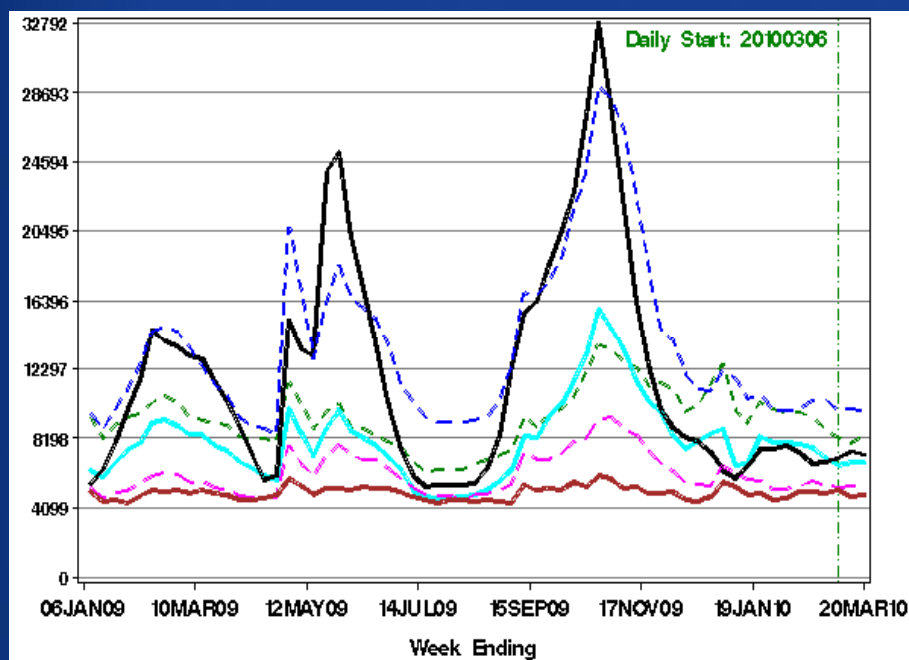
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Health Department Syndromic Surveillance: Distribute Project Aggregate Data: 27 Health Departments (with complete reporting through 3/23/10)

Number of ED Visits due to ILI, by Age Group

By Week, through MMWR Week Ending 20 Mar 2010

By Day, 6 Mar 2010 through 23 Mar 2010
(Vertical line depicts end of weekly view)



novel 2009-H1N1 – 26 Mar 2010

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Joint Information Center (JIC)
H1N1 Headlines: March 25 2010

2009 H1N1 Headlines (3/18-3/25)

Swine flu virus not so new, study finds
(3/24)

Novavax reports positive data from flu vaccine study
(3/24)

Cuba gets H1N1 vaccines,
Africa to follow -- WHO
(3/19)

Study finds H1N1 flu in pregnancy
is critical risk (3/18)

Summary Box: Walgreen flu
shots and revenue fell
(3/23)



novel 2009-H1N1 --26 MAR 2010

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