



Director's Update Brief novel 2009-H1N1

**Friday
7 AUG 2009 0815 EDT**

**Day 112
Week of School Guidance and Intensifying Media**



Key Events



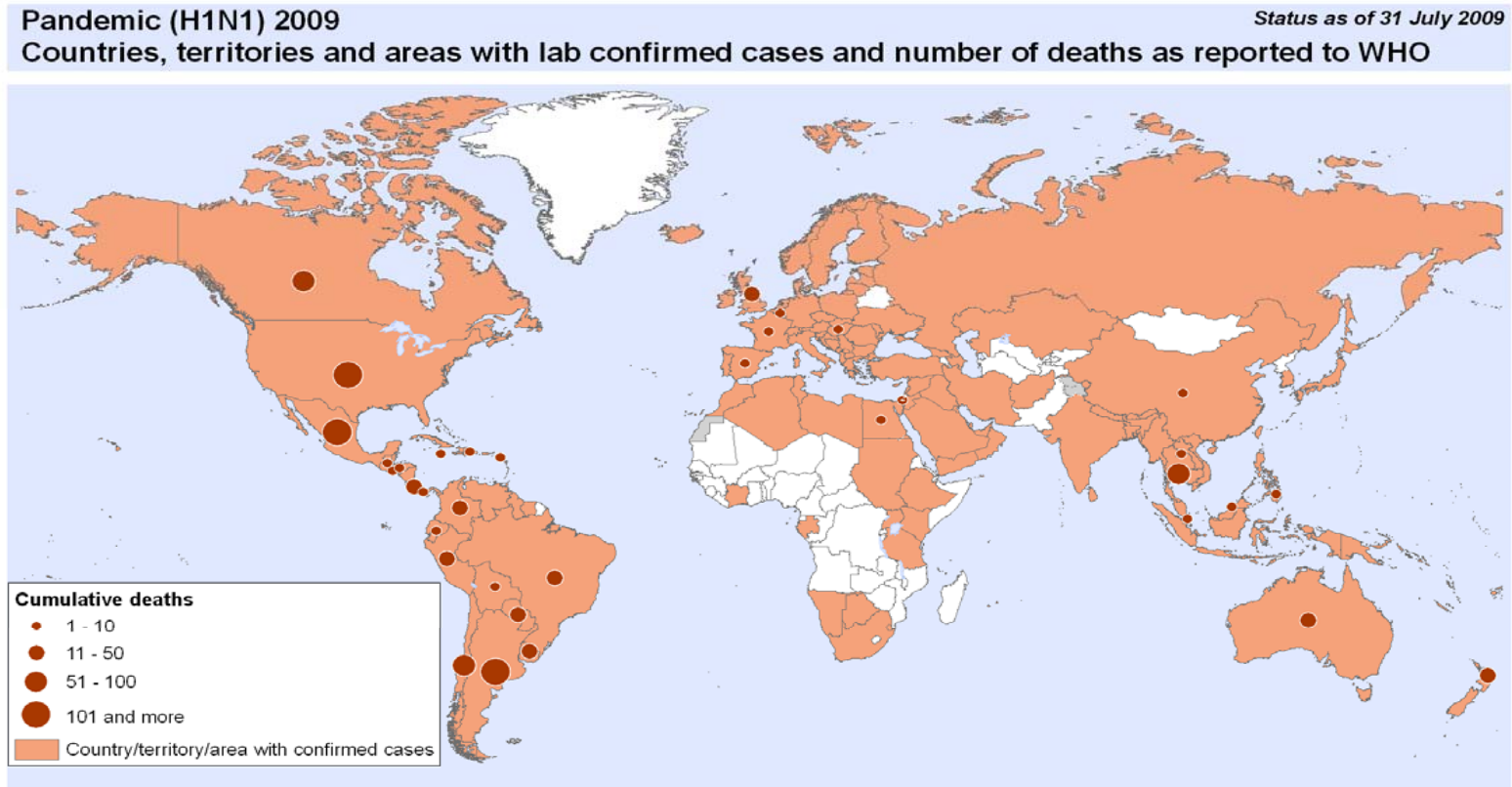
novel 2009-H1N1 – 7 AUG 2009

- **Key events:**
 - novel 2009-H1N1 Declarations
 - WHO: Pandemic Phase 6 (11 JUN 2009 1600 EDT)
 - Outbreaks in at least one country in > two WHO regions
 - USG: Public Health Emergency declared (26 Apr 2009)
 - Renewed by HHS Secretary Kathleen Sebelius
 - HHS: Downgraded to Phase 1 – Awareness (9 May 2009)
- **US Cases** (as of 6 August 2009; next update 17 August 2009)

US TOTALS	HOSP	DEATHS
CASES	6,506	436
SLTTs AFFECTED	50	35

International Global Update novel 2009-H1N1 – 7 AUG 2009

- As of July 31, the WHO has reported 162,380 confirmed cases and 1154 deaths
- Countries no longer required to test or report so numbers are an underestimate



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Map produced: 04 August 2009 13:00 GMT

Data Source: World Health Organization
Map Production: Public Health Information
and Geographic Information Systems (GIS)
World Health Organization



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Policy	▪ Collected JPHIT input, updating DUA accordingly ▪ Shared draft MOA with PHII, awaiting feedback
Data	▪ Published the final aggregate data specification (see: http://sites.google.com/site/phgrid/active-projects/novelh1n1) ▪ Engaged NCPHI science team and Flu division to address potential syndromic data duplication issues across CDC programs ▪ Continued progress with BioSense aggregated data extract
Technology	▪ Continued progress on CDC aggregate data repository and service enhancements
Communications & Outreach	▪ Released supplemental guidance to fund PHII, expected turnaround time is 10 days ▪ Convened 9 of the 14 calls with the states



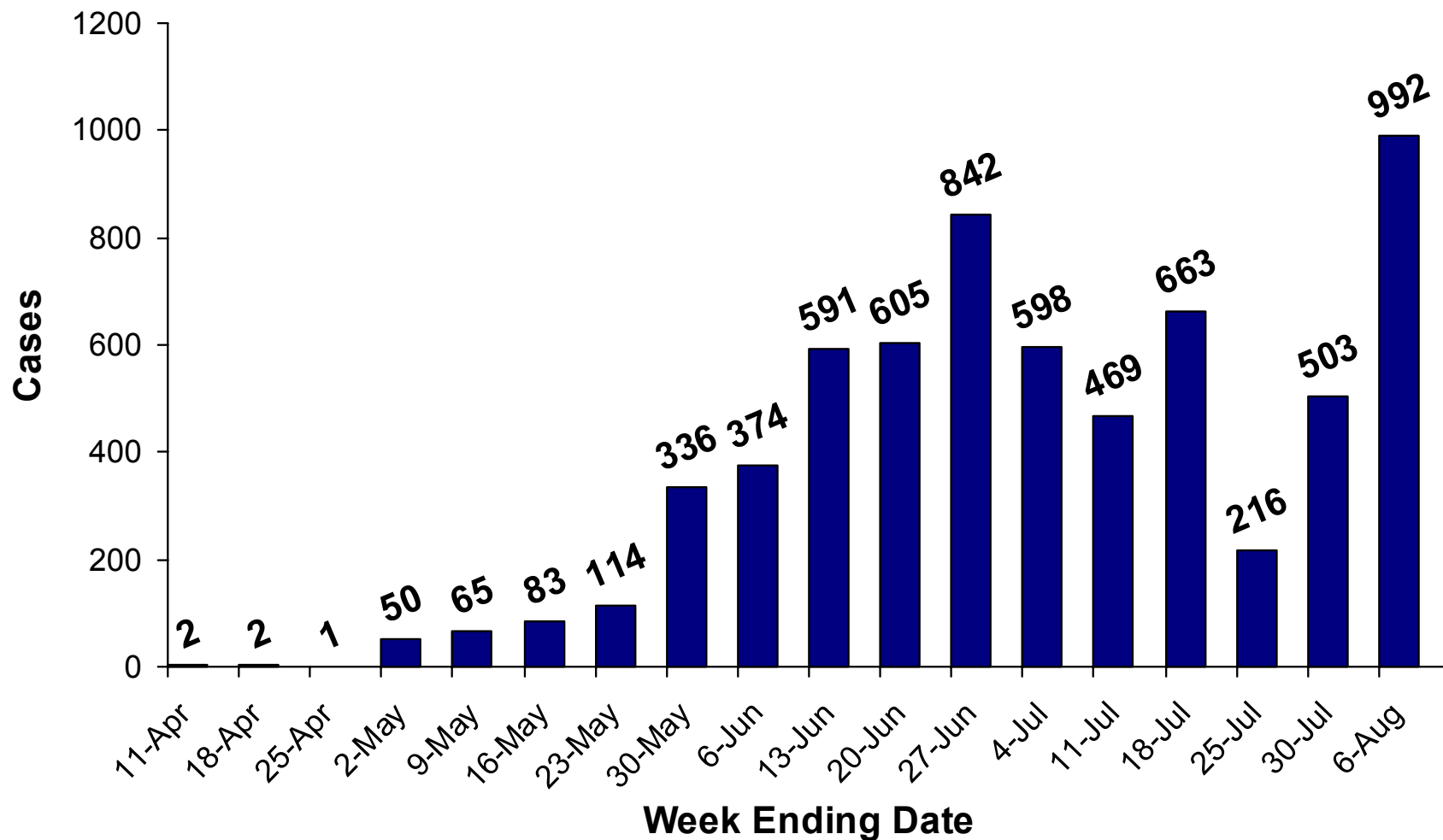
Epidemiology/Surveillance
Synopsis of Influenza Morbidity and Mortality
2009 novel 2009-H1N1 – 07 AUG 2009
Week ending August 4



- **ILI Activity**
 - **Percentage of visits due to ILI continues to decline in all regions except Region IV where it is mildly elevated but below baseline.**
- **Mortality**
 - **The proportion of deaths attributed to pneumonia and influenza was low and within the bounds of what is expected in summer.**
- **Hospitalization**
 - **H1N1 cumulative hospitalization rates for adults and children remain low and well below the seasonal average of last 4 years.**
- **Virologic**
 - **Almost 100% of specimens characterized are influenza A.**
 - **2 oseltamivir resistant novel H1N1 viruses have been identified from WA**
 - **Both BMT patients on long term oseltamivir treatment.**
- **Geographic spread**
 - **2 states reporting widespread activity and most report only sporadic or local activity**



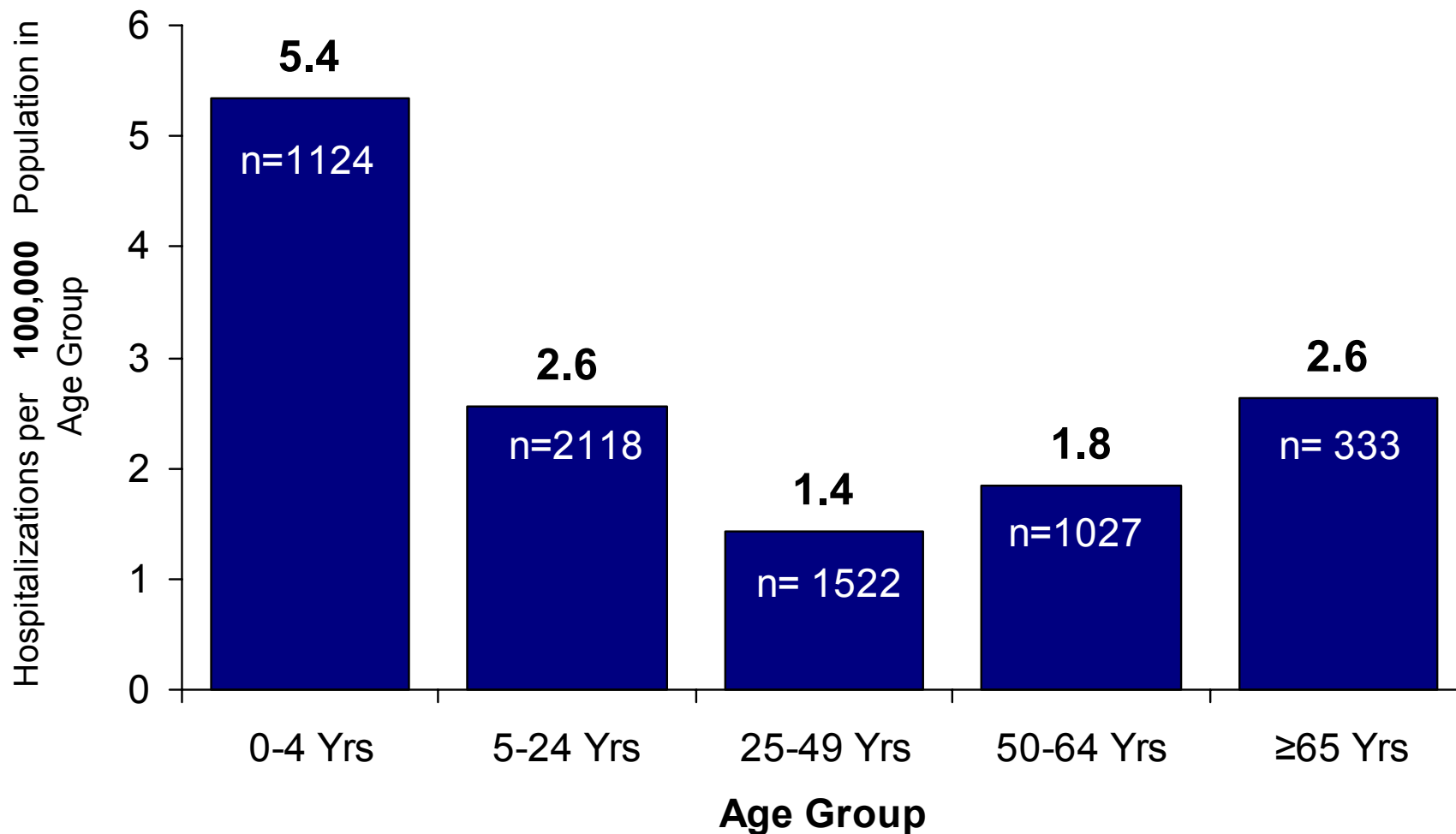
Epidemiology/Surveillance
Hospitalizations by Report Date
novel 2009-H1N1 – 6 AUG 2009 (n=6,506) (Weekly*)



***Data for week ending 25 July 2009 include reports submitted between 1:00 AM EDT 6/25/2009 and 11:00 AM.**



Hospitalization Rate per 100,000 Population by Age Group (n=6,124*)
novel 2009-H1N1 – 06 AUG 2009



*Hospitalizations with unknown ages are not included (n=382)

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

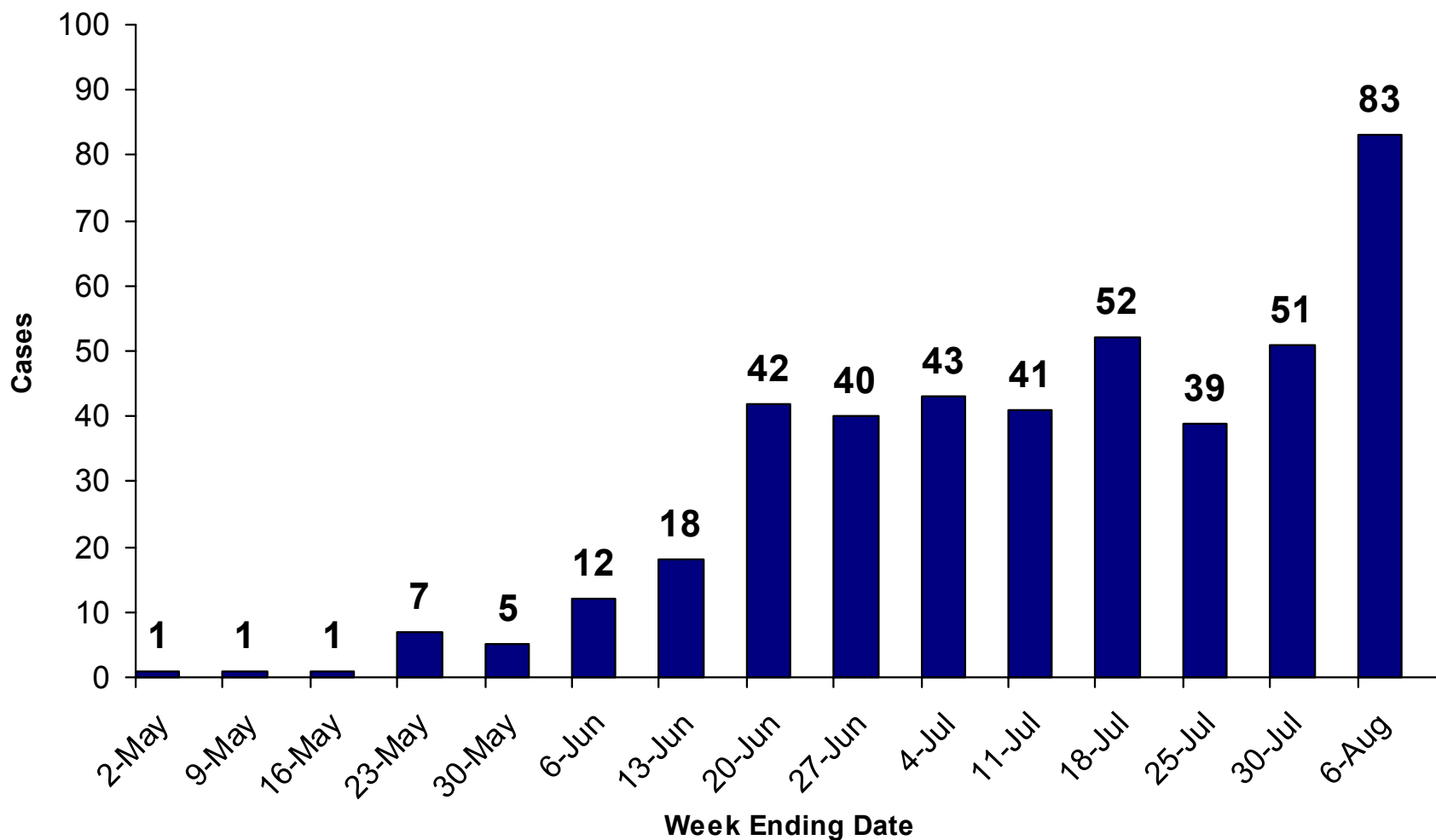
<http://www.census.gov/popest/national/asrh/files/NC-EST2007-ALLDATA-R-File24.csv>



Epidemiology/Surveillance

Deaths by Report Date

novel 2009-H1N1 – 6 AUG 2009 (n=436) (Weekly*)



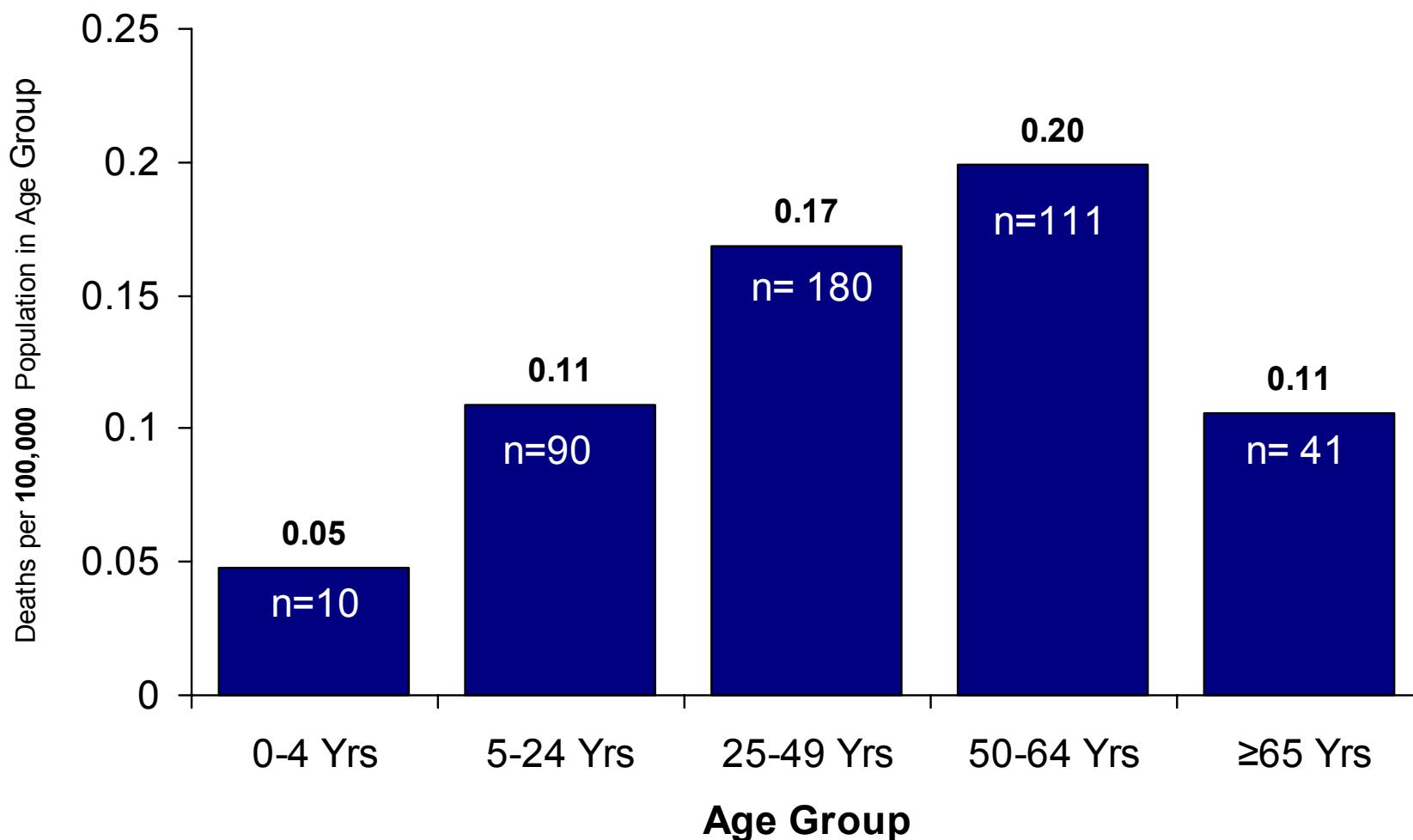
*Data for week ending 30 July 2009 include reports submitted between 1:00 AM EDT 6/25/2009 and 11:00 AM.



Epidemiology/Surveillance

Death Rate per 100,000 Population by Age Group (n=432*)

novel 2009-H1N1 – 06 AUG 2009



*Deaths with unknown ages are not included (n=4)

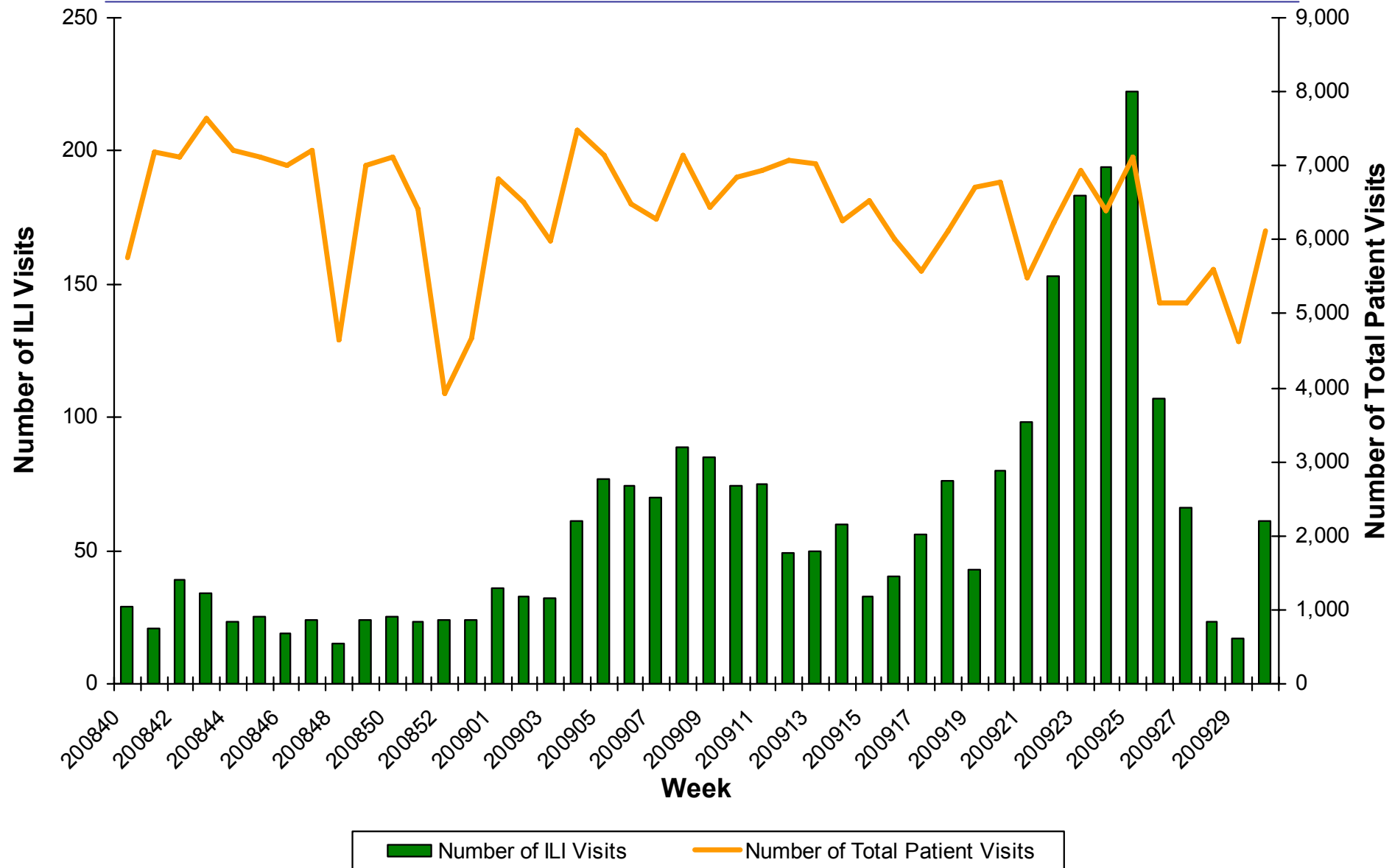
*Rate / 100,000 by Single Year Age Groups: Denominator source: 2008 Census Estimates, U.S. Census Bureau at:

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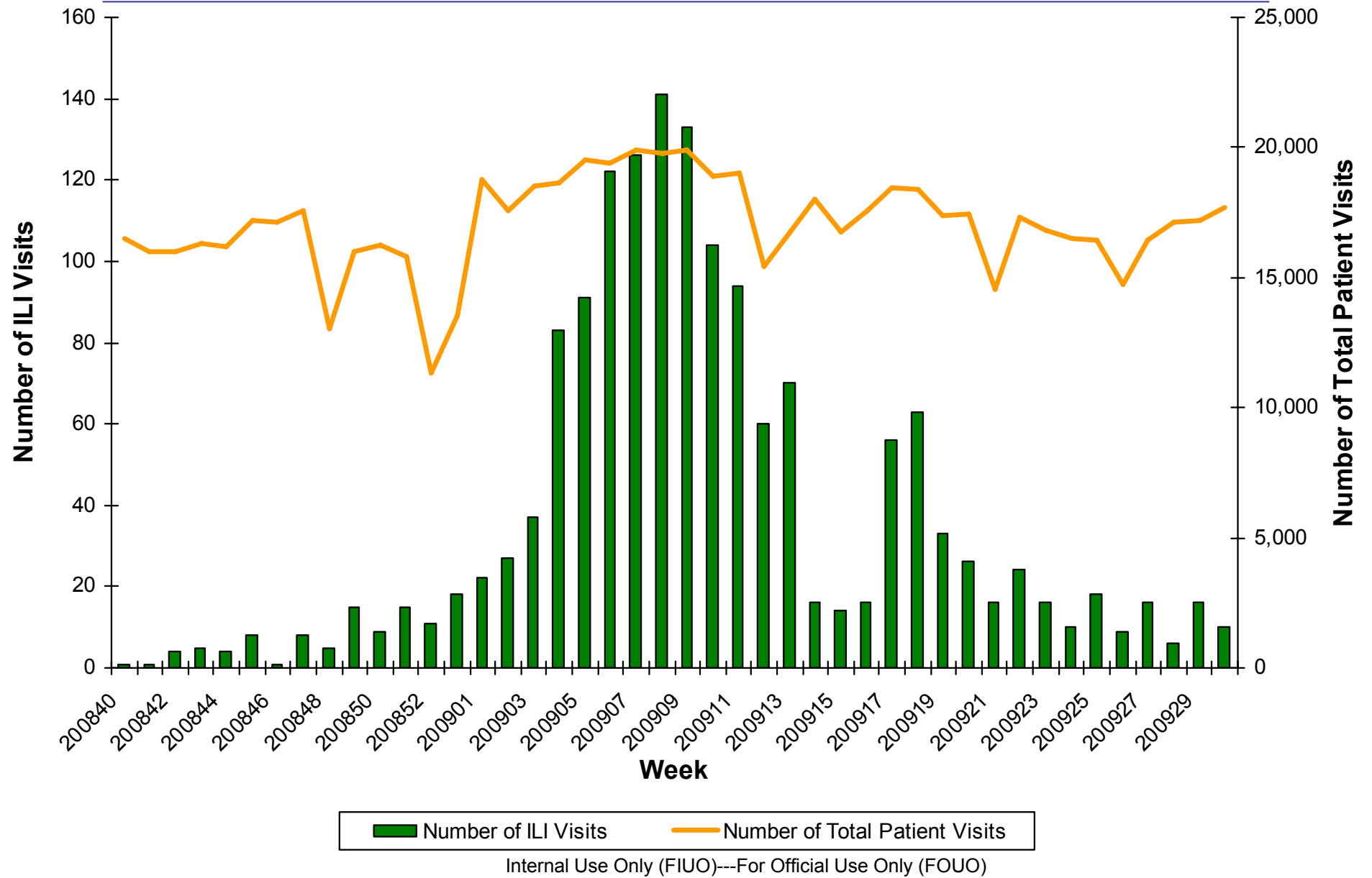
ILINet, Number of ILI Visits and Number of Total Patient Visits, Salt Lake City, 2008-09



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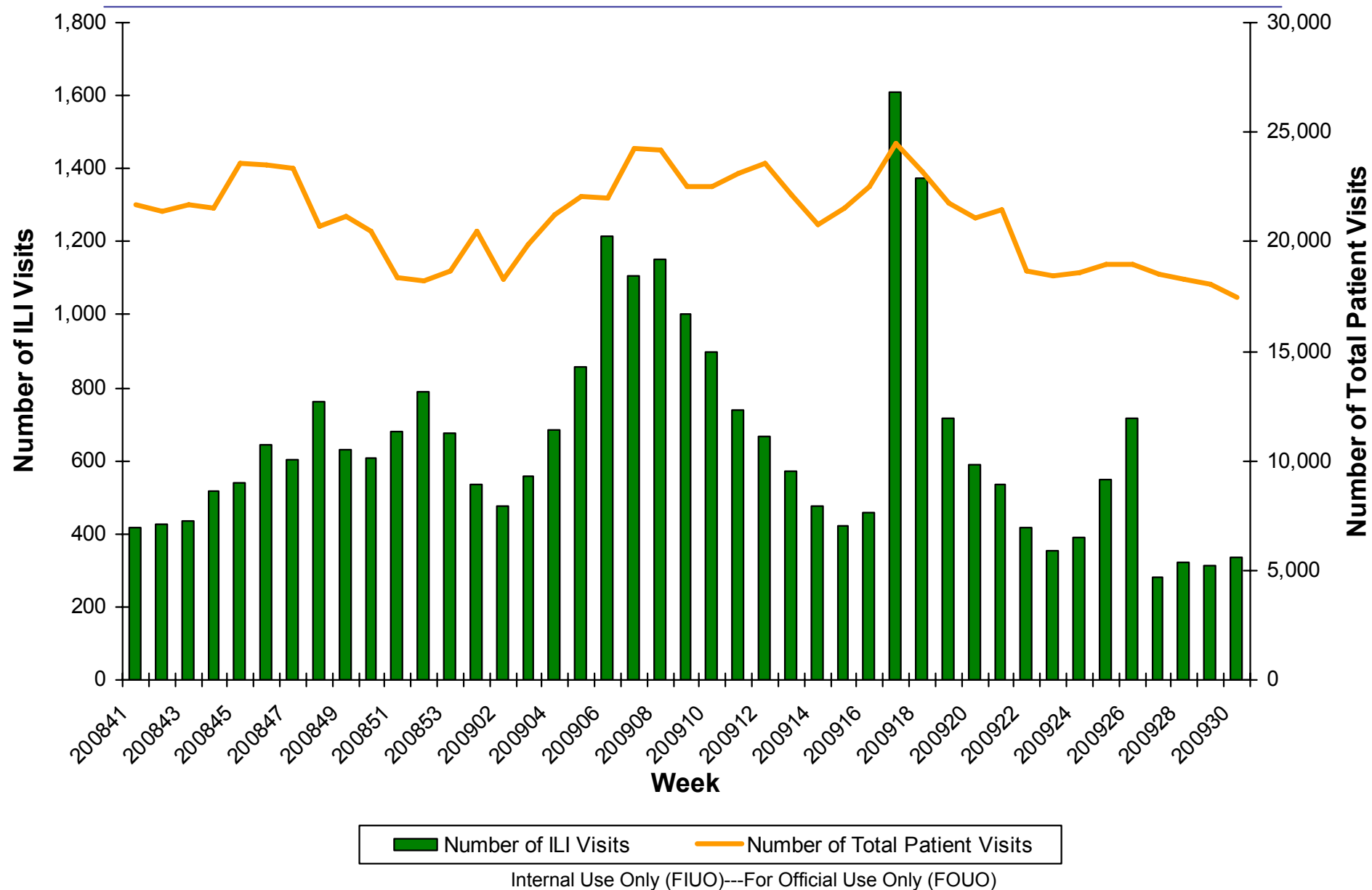


ILINet, Number of ILI Visits and Number of Total Patient Visits, Denver, 2008-09





ILINet, Number of ILI Visits and Number of Total Patient Visits, Atlanta, 2008-09





novel 2009-H1N1 – 7 AUG 2009

- Interagency Vaccine Prioritization Workgroup Meeting (Monday 8/10/09)
 - **Discuss ACIP recommendations**
 - **USG plans for allocating and prioritizing H1N1 vaccine**
 - **Plans for vaccinating the Federal workforce**
- Ancillary supply distribution options under consideration at HHS
 - **Contract for kitting with McKesson distributing kits**
 - **Contract for kitting and distribution**



novel 2009-H1N1 – 7 AUG 2009

- **School guidance being released today**
 - **Previewed with State Health Officers, Education stakeholders**
 - **Working with Peds Desk, ICU, CDC Info, JIC to prepare for technical assistance, questions regarding guidance implementation**
- **New exclusion period recommendation posted on CDC Web site 5Aug5**
- **School Dismissal Monitoring System**
 - **Delay in the start of school year Puerto Rico today, impacts approximately 1519 schools, 544,138 students, and 40,514 teachers**
 - **Reason is to prepare schools (SOPs, supplies, education materials)**
 - **No other H1N1-related school dismissals were detected**



novel H1N1 – 7 AUG 2009

- **Collaborated with Pediatric Desk on four H1N1 Pediatric Information Sharing calls with primary care providers, hospitals (Boston, Chicago, Atlanta, Colorado) and public health representatives from several states (August 4-6)**
- **Working with HHS/ASPR to set up communications with primary care providers, hospitals and other healthcare entities through CMS' Open Door Forum on August 20 and September 14 at 1:30 pm. Agenda being developed**
- **Contributing to HHS/ASPR efforts to develop Data Elements to obtain information from states on status of healthcare systems using HAv-BED reporting system**



novel 2009-H1N1 – 7 AUG 2009

**Communication Research on Outreach to Pregnant Women Focus Groups
Atlanta, Dallas, Portland; Early September**

Topics—Pregnant Women (18 focus groups)

- Fever management,
- Flu threat assessment (H1N1 and seasonal)
- Antiviral use (KAB)
- Personal infection control
- Caring for sick person at home
- School dismissal
- Trusted information sources

Topics—OBGYN, Nurse MW (14 focus groups)

- general knowledge of seasonal and pandemic influenza;
- influenza testing;
- influenza treatment;
- discussion of pandemic influenza response strategies;
- alternate care management;
- expectations regarding government and healthcare system;
- clinical guidance and information dissemination; and
- wrap-up

Immediate reporting of preliminary analysis



novel 2009-H1N1 – 7 AUG 2009

Communication Planning for Outreach to Pregnant Women (Vaccine Task Force)

Goal: Educate pregnant women and their medical providers re:

Seriousness of seasonal flu and H1N1

Importance of vaccination

Appropriate use of antiviral medication

Audiences:

Health care providers & professional organizations

Pregnant women

Channels

Partners

Non profit organizations

Retail Outlets

Manufacturers

TV Talk shows

Online media

Mommy bloggers

Bus and subway ads

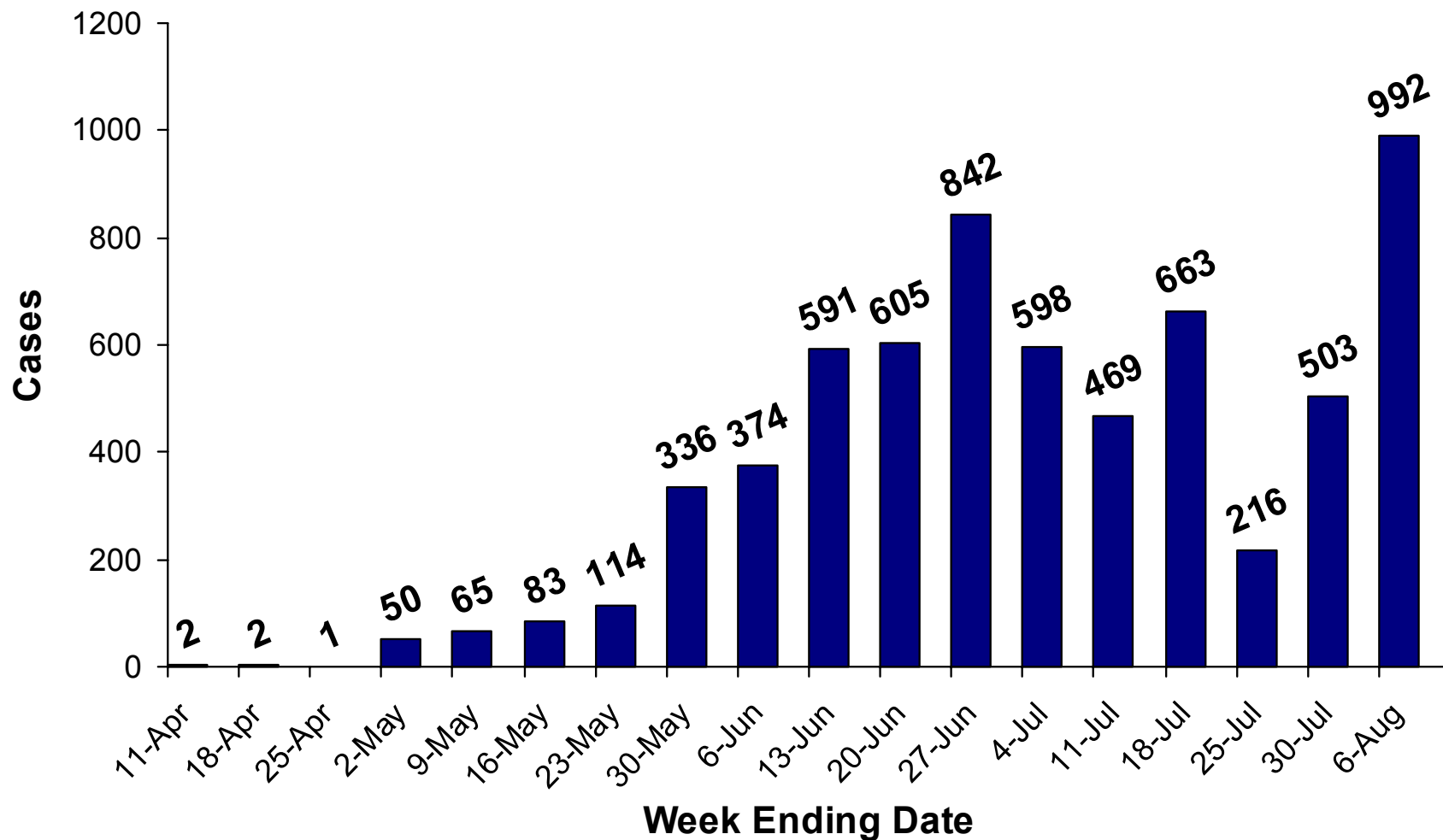
Trailers on DVD rentals



Supporting Documentation



Epidemiology/Surveillance
Hospitalizations by Report Date
novel 2009-H1N1 – 6 AUG 2009 (n=6,506) (Weekly*)



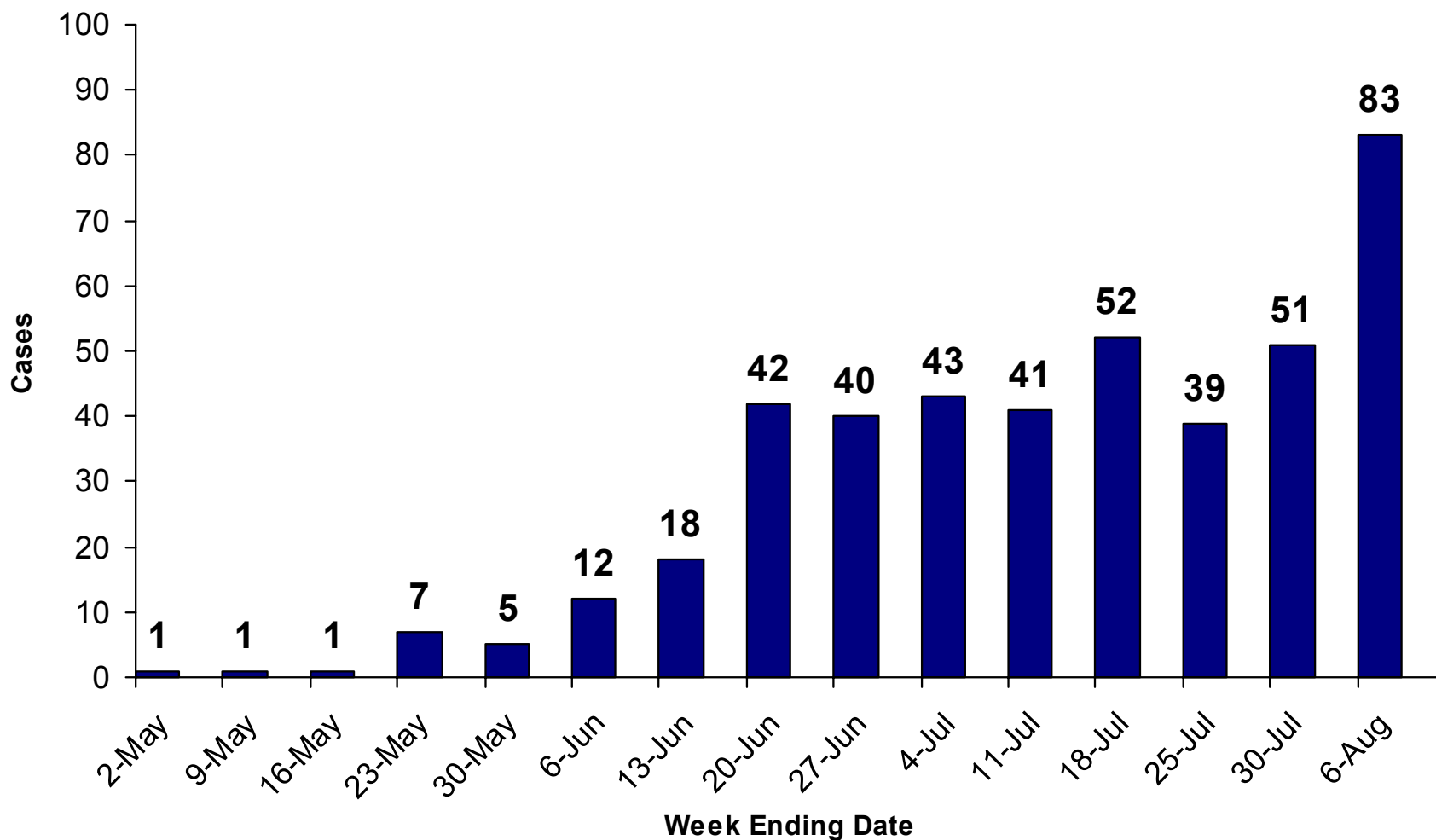
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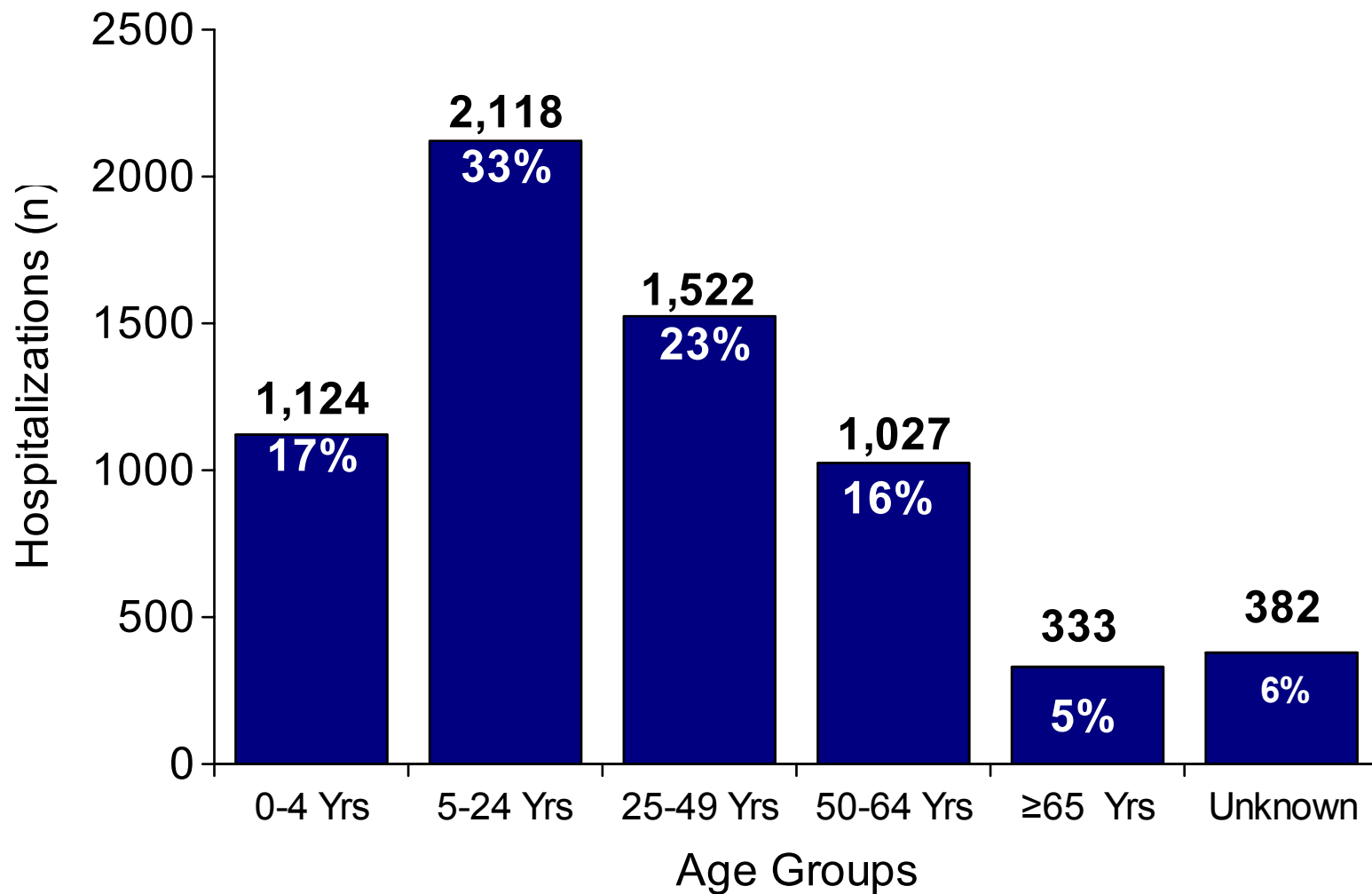
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Hospitalizations by Age Group
novel 2009-H1N1 – 6 AUG 2009 (n=6,506)

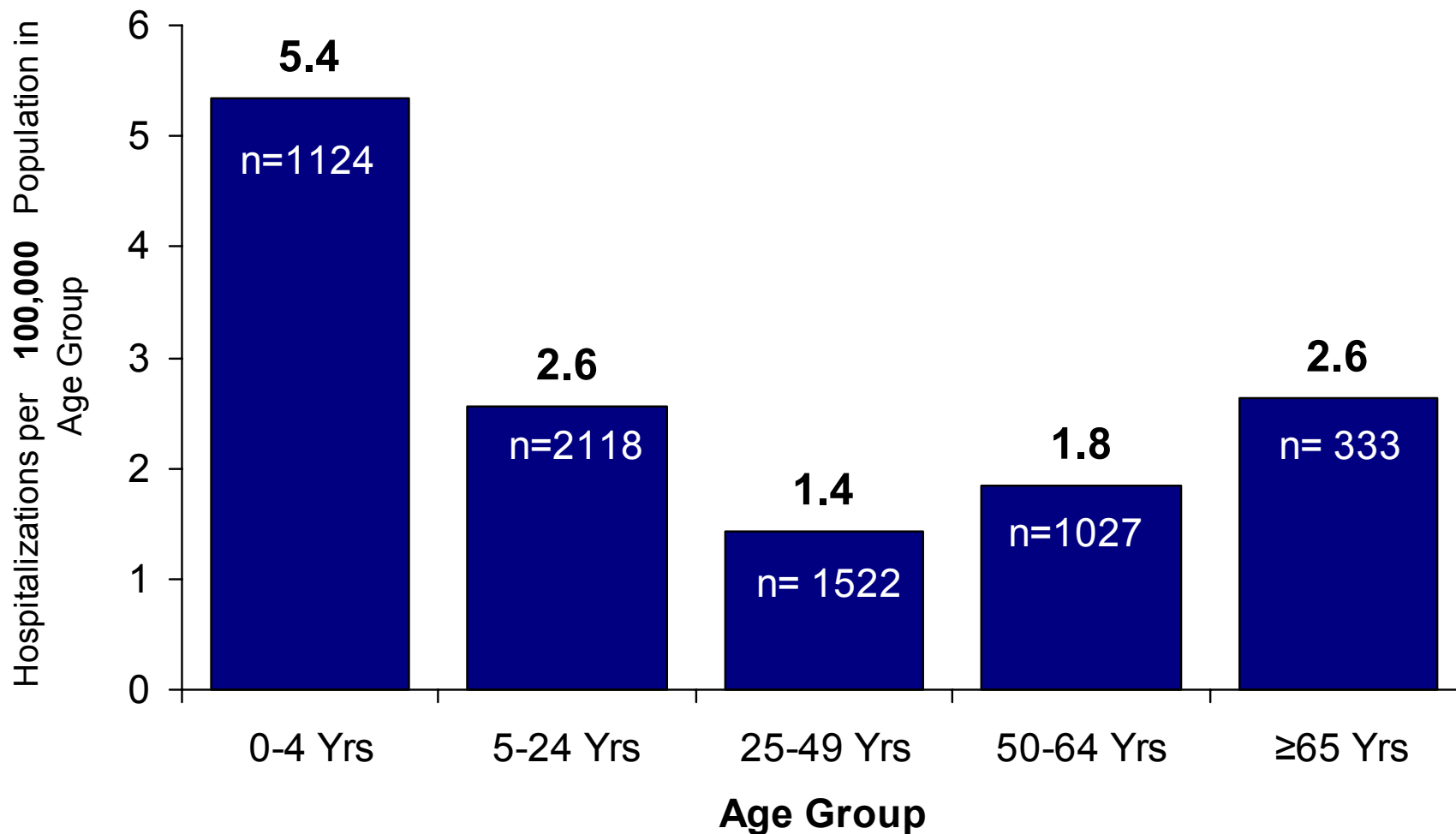


Percentages Represent Proportion of Total Hospitalizations





Hospitalization Rate per 100,000 Population by Age Group (n=6,124*)
novel 2009-H1N1 – 06 AUG 2009



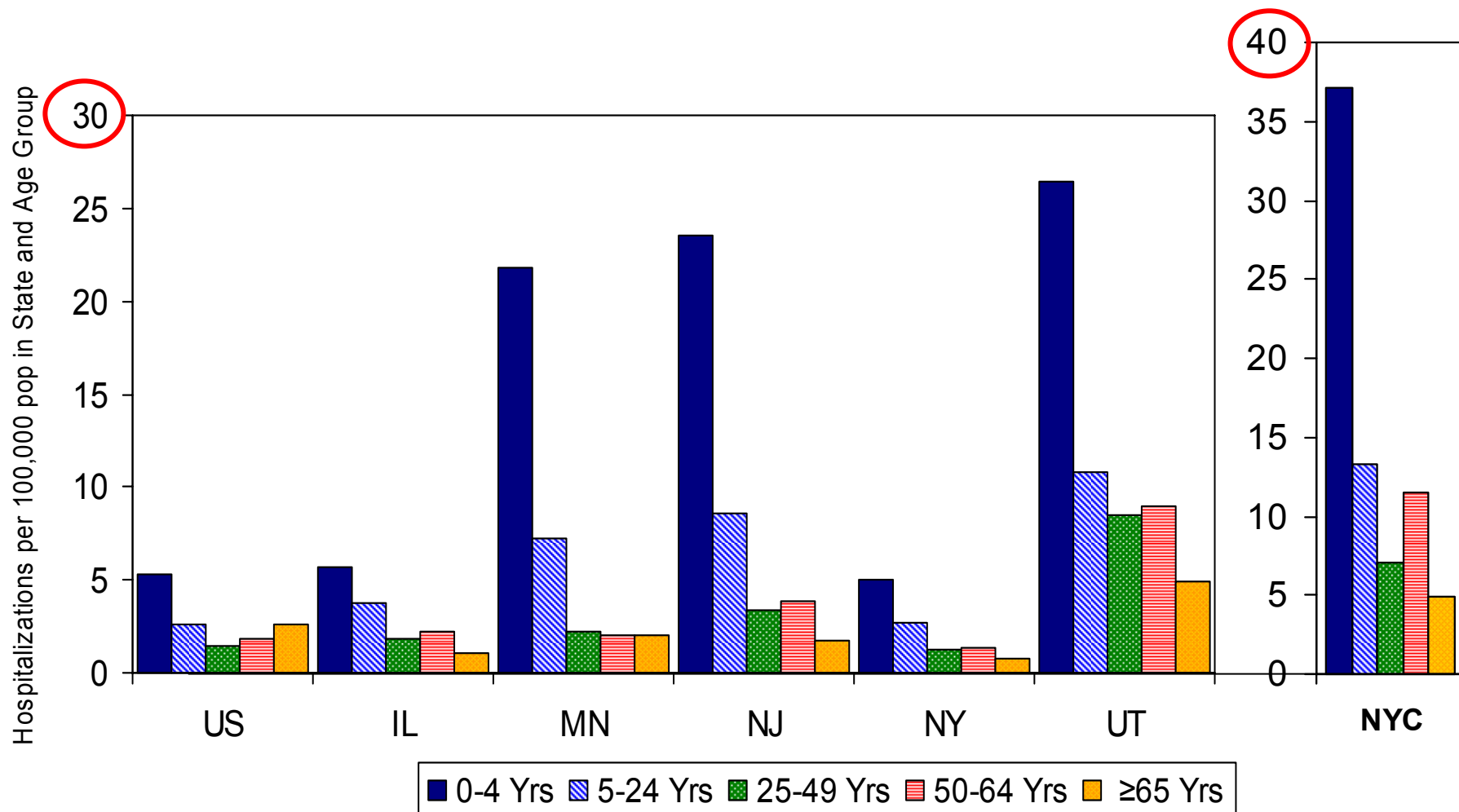
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Hospitalization Rate per 100,000 Population by Age Group and Selected Sites novel 2009-H1N1 – 06 AUG 2009



*Denominator: U.S. Census population estimates for July 2008 for all states, 2007 American Community Survey for NYC
Hospitalizations with unknown ages are not included

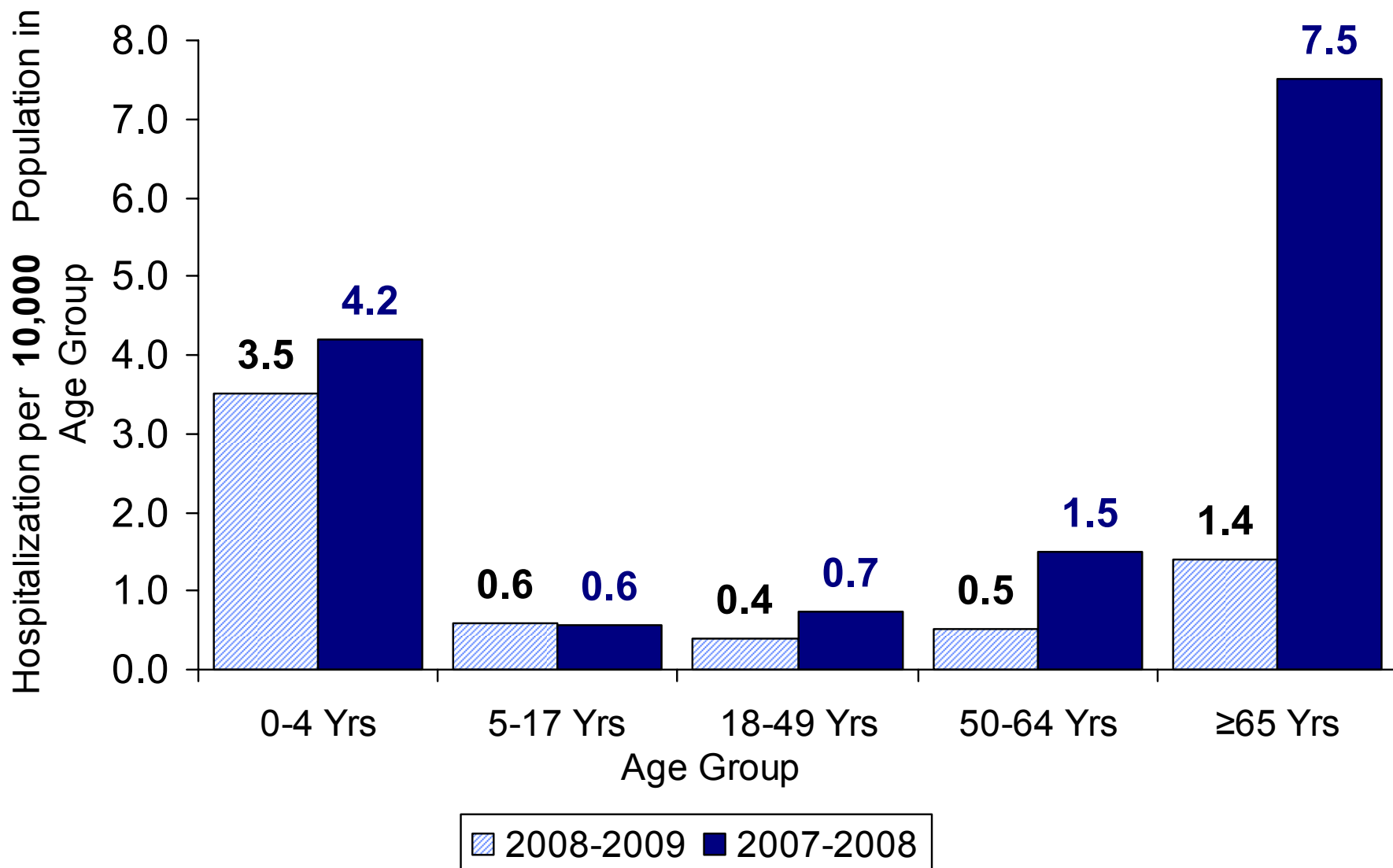
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Epidemiology/Surveillance
Seasonal Influenza Hospitalization Rates by Age
Emerging Infections Program (EIP) sites

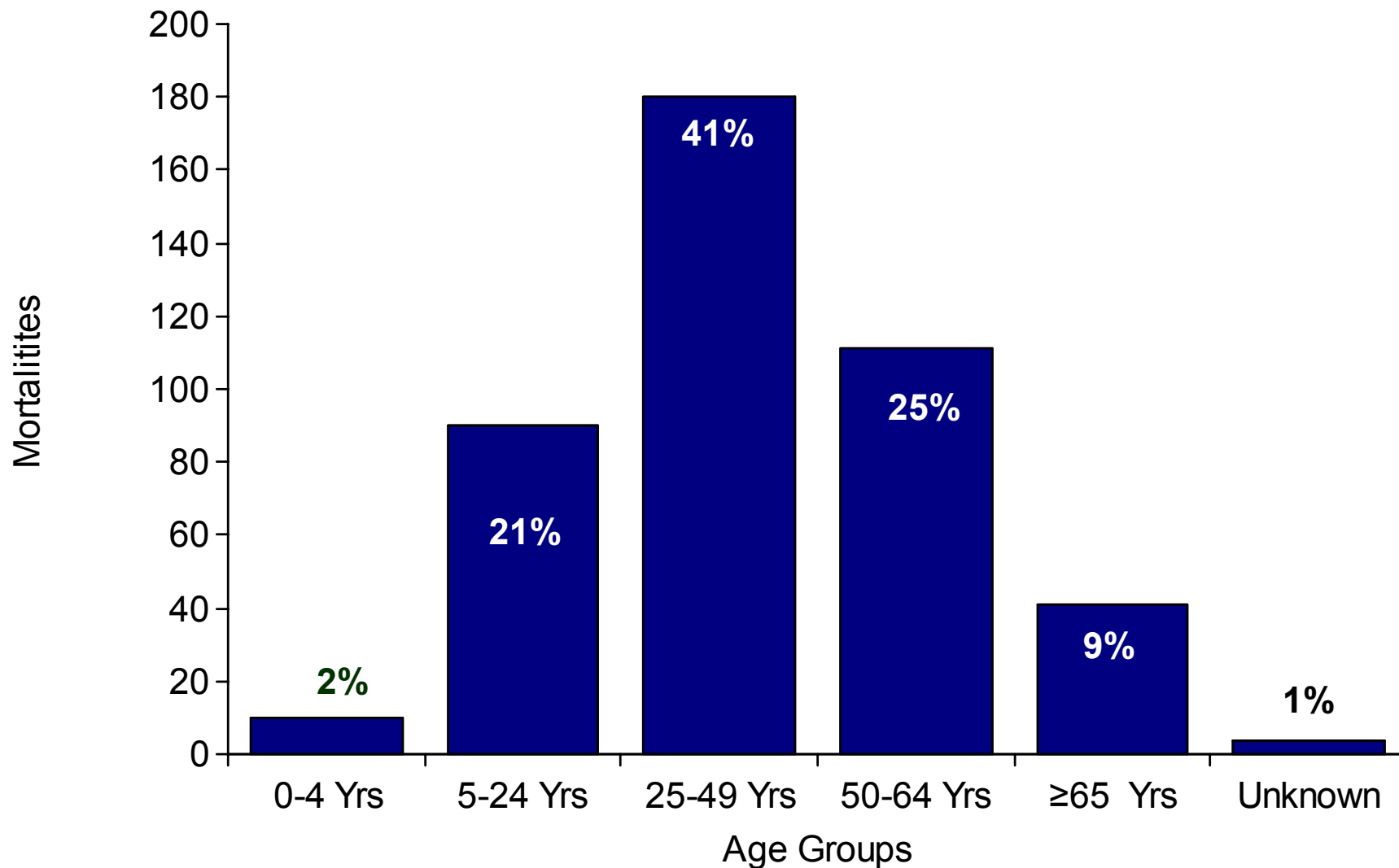


25 JUN 2009





Epidemiology/Surveillance
Deaths by Age Group
novel 2009-H1N1 – 6 AUG 2009 (n=436)

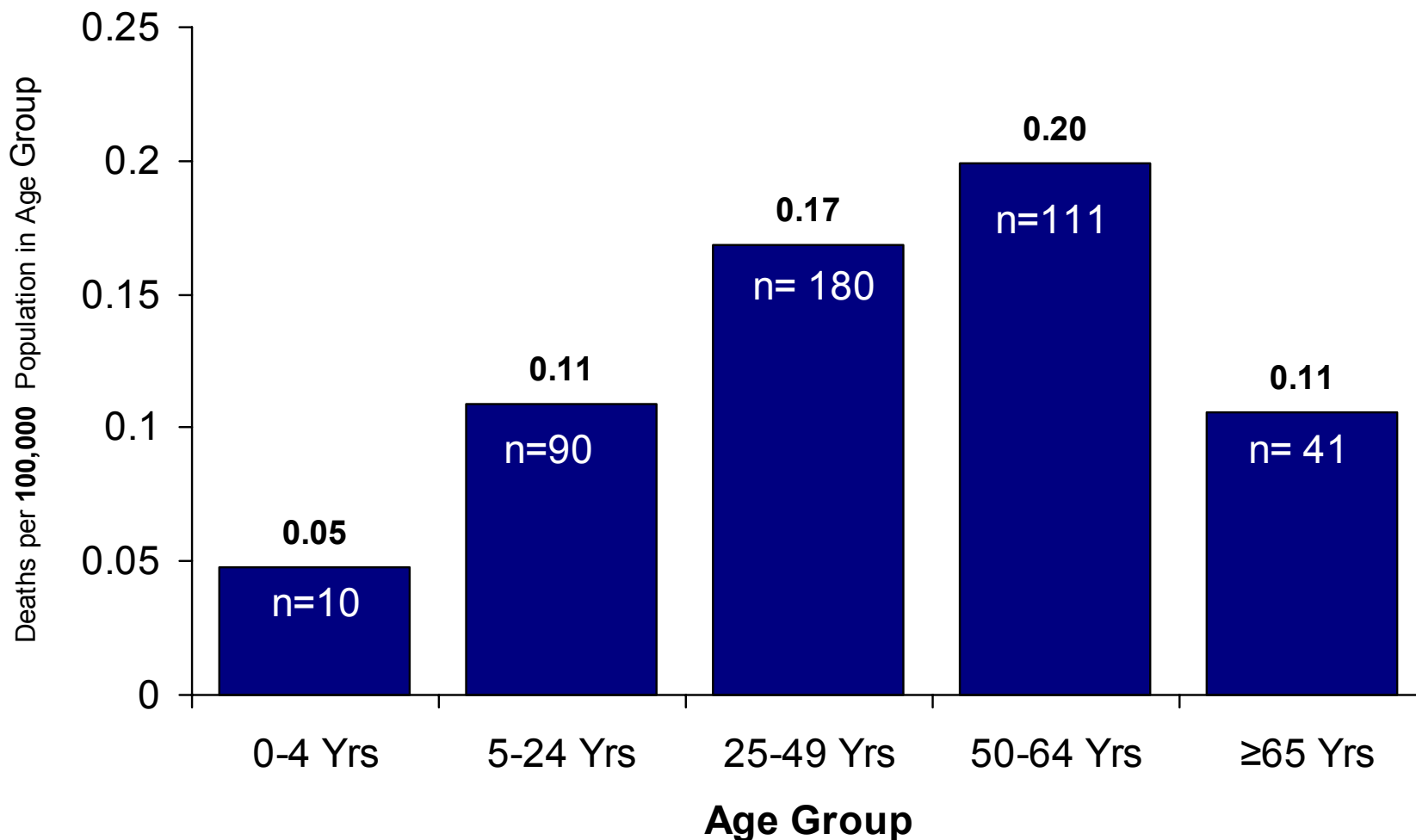




Epidemiology/Surveillance

Death Rate per 100,000 Population by Age Group (n=432*)

novel 2009-H1N1 – 06 AUG 2009



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Epidemiology/Surveillance
Deaths Reported to CDC by States
novel 2009-H1N1 – 16 JULY 2009



- n=190
- Median age 42 years (range 2 months-84 years)

Age Groups	Hospitalized No. (%)
0-23 months	6 (3%)
2-4 Yrs	0 (0%)
5-9 Yrs	12 (6%)
10-17 Yrs	12 (6%)
18-29 Yrs	27 (14%)
30-49 Yrs	71 (37%)
50-64 Yrs	48 (25%)
≥65 Yrs	14 (7%)

83% adults



Epidemiology/Surveillance
Deaths Reported to CDC by States
novel 2009-H1N1 – 16 JULY 2009



- PMH data available for 175 fatal cases
- 117/175 (67%) persons with severe underlying conditions
- 151/175 (86%) persons with any underlying condition (includes obesity)

Condition	Percent Deceased Cases with Condition	
	Age <18 (N=29)	Age ≥18 (N=146)
Asthma	1 (3%)	26 (18%)
Pulmonary disease	8 (28%)	34 (23%)
Diabetes	0 (0%)	32 (22%)
Chronic cardiovascular disease	5 (17%)	31 (21%)
Neurocognitive disorder	10 (34%)	9 (6%)
Neuromuscular disorder	7 (24%)	6 (4%)
Pregnant	(0%)	11 (8%)
Seizure disorder	6 (21%)	3 (2%)
Renal Disease	0 (0%)	20 (14%)
Immunosuppressive Disorder	1 (3%)	16 (11%)
Other ULC (hepatic, cancer, immunosuppressed, metabolic disorders)	2 (7%)	28 (19%)
Morbid obesity	(0%)	13 (9%)
Obesity	3 (10%)	65 (45%)



Epidemiology/Surveillance

novel 2009-H1N1 Hospitalizations Reported to CDC

Underlying Conditions as of 06 JULY 2009



Condition	Prevalence, General US Population	Prevalence, hospitalized H1N1 patients (268)	Prevalence among deaths (160)
Asthma or COPD	8% (asthma) 4% (COPD)	32%	14% (asthma) 25% (COPD)
Diabetes	6%	15%	18%
Immunocompromised		13%	9%
Chronic cardiovascular disease*	7%	14%	19%
Current Smoker	18%	10%	ND
Chronic Renal Disease Stage III and IV	8%	9%	12%**
Neurocognitive disorder		7%	11%
Neuromuscular disorder	0.03%	7%	8%
Pregnant	1%	6%	6%
Seizure disorder	1%	6%	6%
Cancer	4%	3%	10%
Obesity	27%	8%?	41% Morbid 8%

*Excludes hypertension

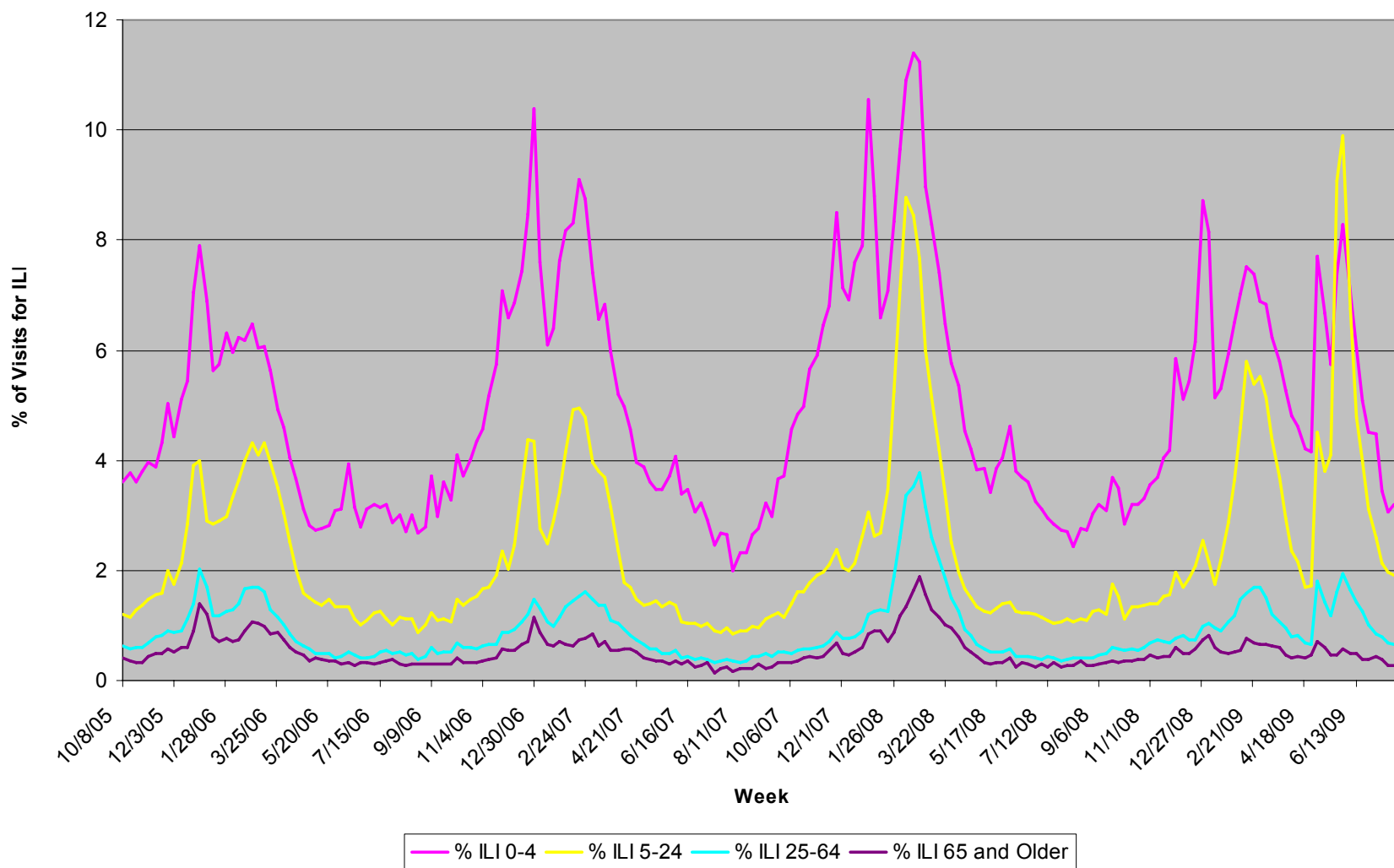
**Non-specific renal disease noted in medical history



Epidemiology/Surveillance

Percentage of Visits for Influenza-like Illness (ILI) Reported by the US Outpatient Influenza-like Illness Surveillance Network (ILINet), National Summary 2008-09 and Previous Three Seasons, By Age

novel 2009-H1N1 – 07 AUG 2009



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**Epidemiology/Surveillance
Surveillance Systems Summary
novel 2009-H1N1 – 07 AUG 2009**



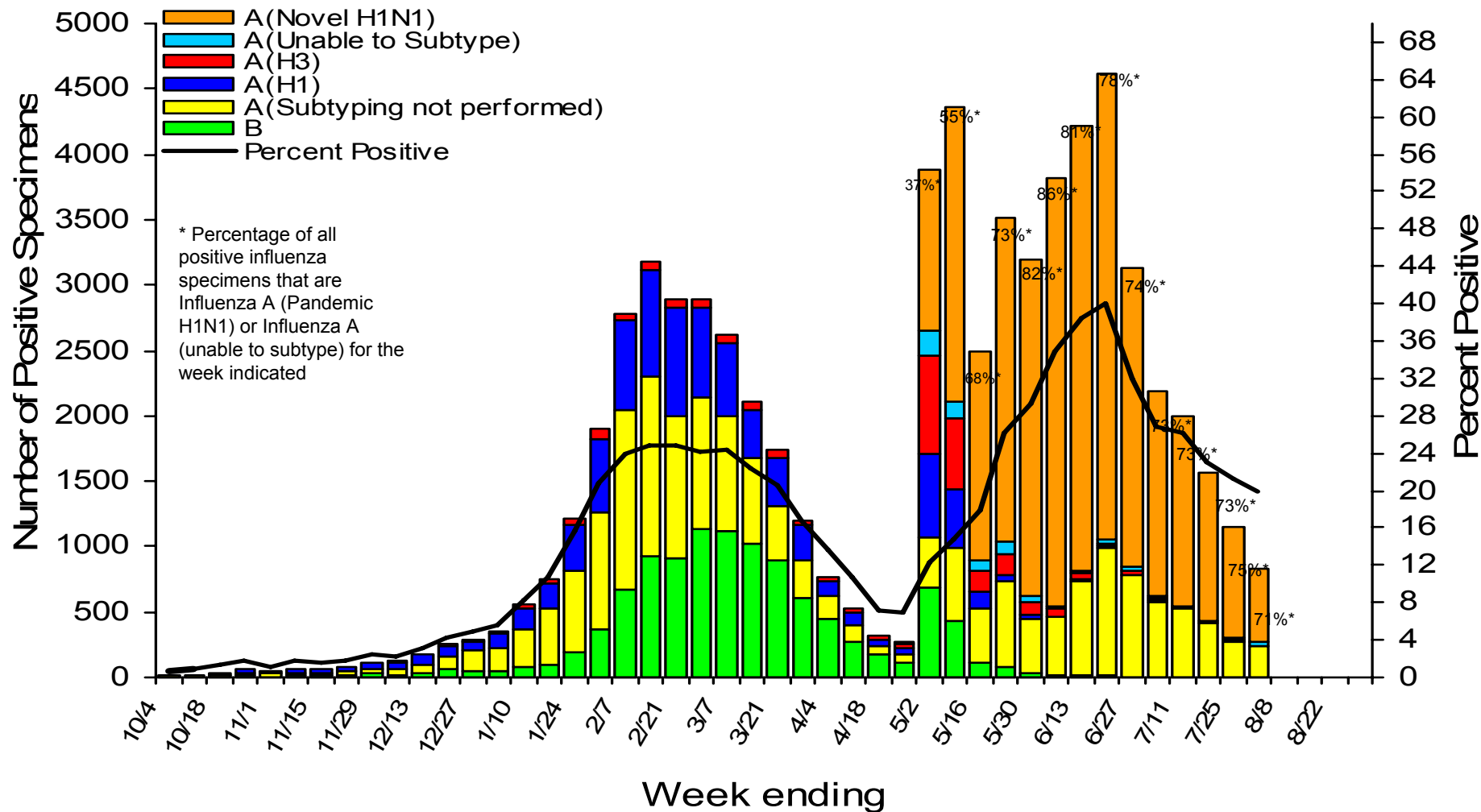
- ***WHO/NREVSS Collaborating Laboratories***
 - Seasonal A (H1), A (H3), and B viruses co-circulated with Novel H1N1 viruses
 - % of specimens testing positive for influenza decreased slightly
- ***ILINet (week ending 25 July)***
 - % of ILI outpatient visits is below the national baseline
 - Overall, the % of outpatient visits for ILI decreased slightly
- ***122 Cities Mortality Reporting System (graph)***
 - % pneumonia and influenza deaths was below the epidemic threshold
 - % deaths due to pneumonia and influenza decreased slightly
- ***Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists – state reporting:***
 - Widespread: PR + 4 states
 - Local: DC + 11 states
 - No Report: 1 state
 - Regional: 11 states
 - Sporadic: 23 states



Epidemiology/Surveillance

U.S. WHO/NREVSS Collaborating Laboratories Summary, 2008-09

novel 2009-H1N1 – 07 AUG 2009



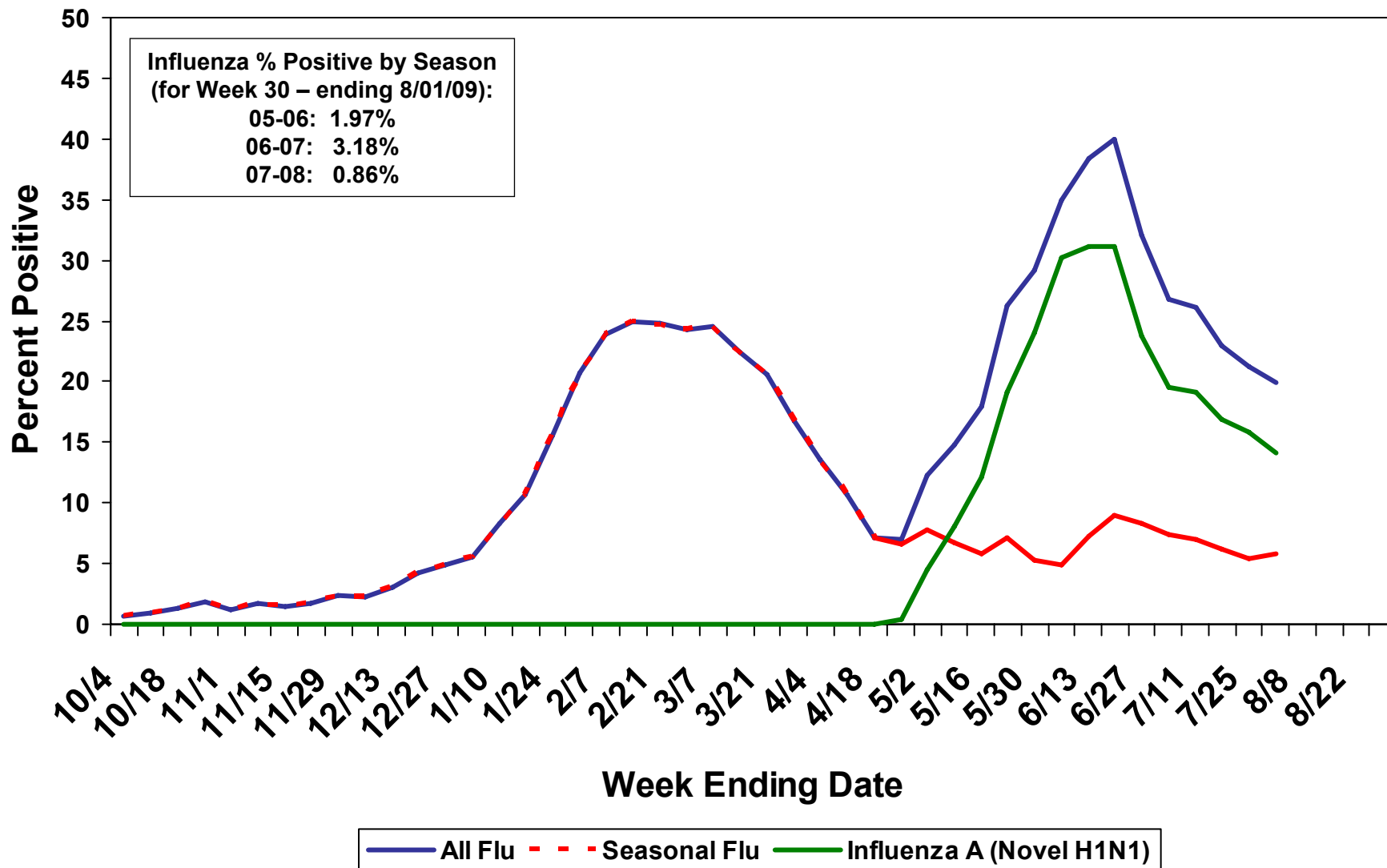


Epidemiology/Surveillance

Percent of Specimens Positive for Influenza Reported by WHO and NREVSS

Labs: Novel Influenza A(H1N1) vs. Seasonal Influenza, by Week

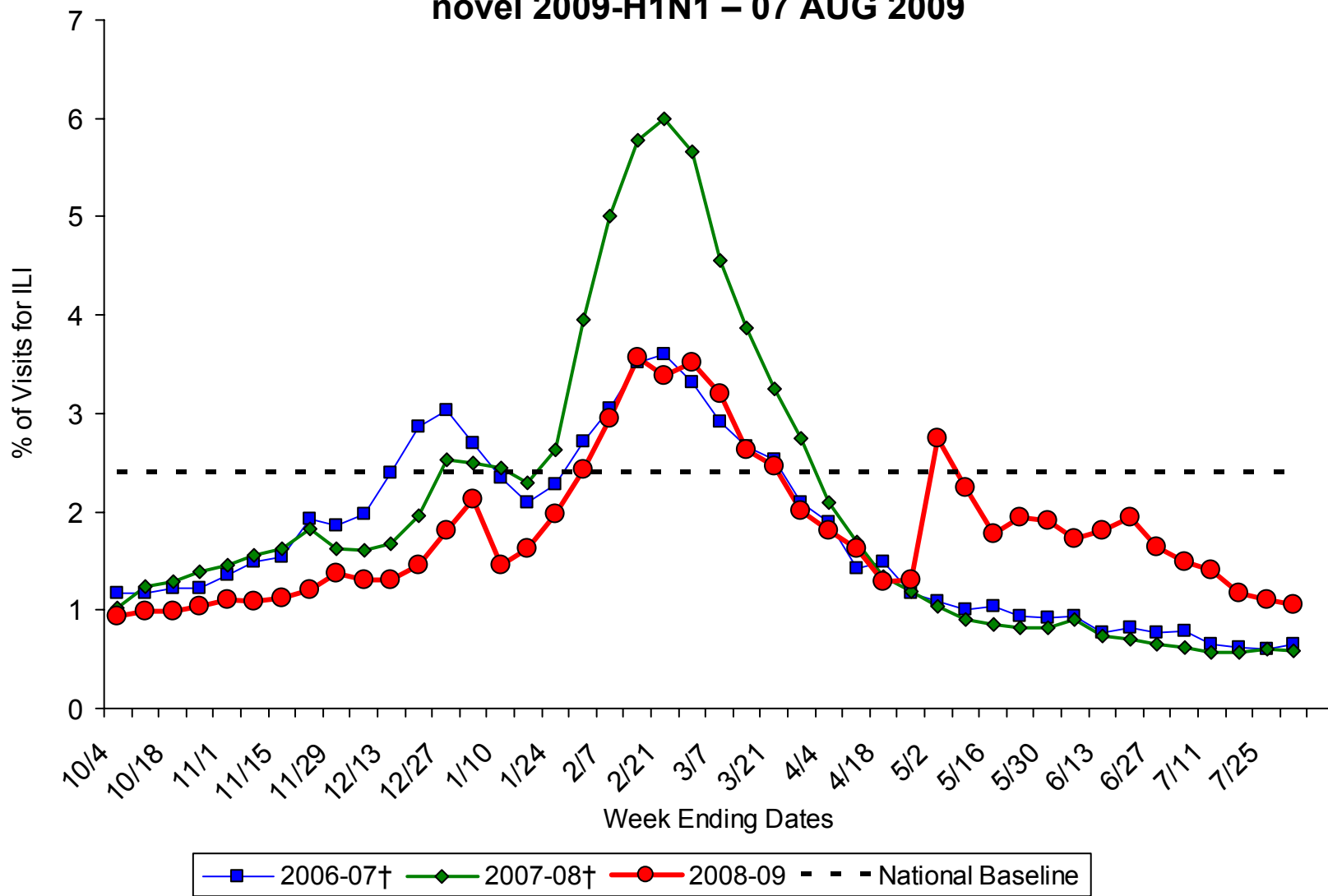
novel 2009-H1N1 – 07 AUG 2009



Epidemiology/Surveillance

Percentage of Visits for Influenza-like Illness (ILI) Reported by the US Outpatient Influenza-like Illness Surveillance Network (ILINet), National Summary 2008-09 and Previous Two Seasons

novel 2009-H1N1 – 07 AUG 2009

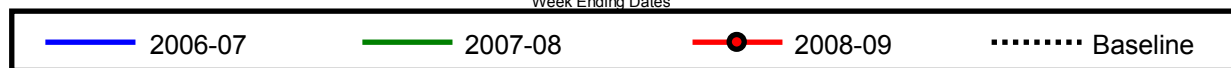
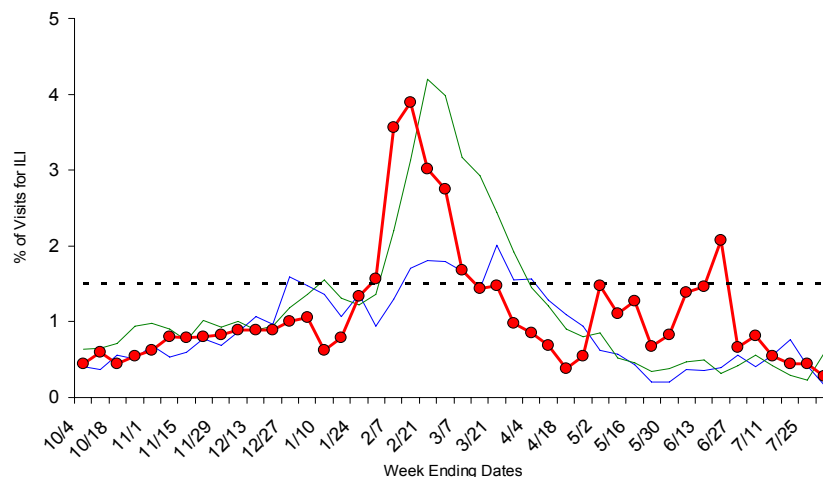


Epidemiology/Surveillance

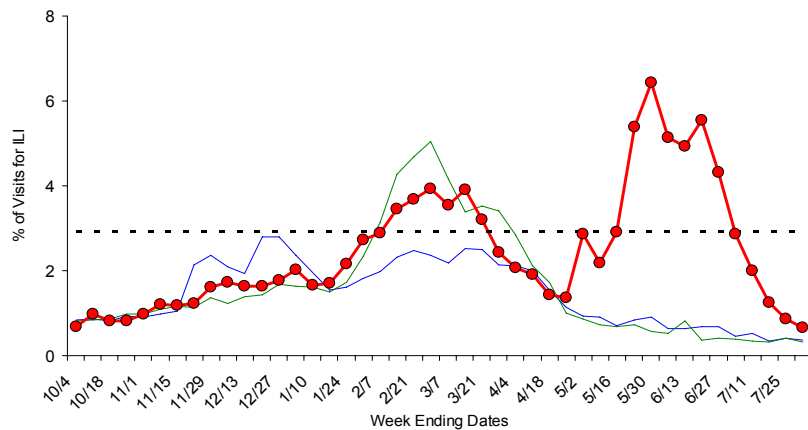
Current Influenza Surveillance – *ILINet Regions I-III*

novel 2009-H1N1 – 07 AUG 2009

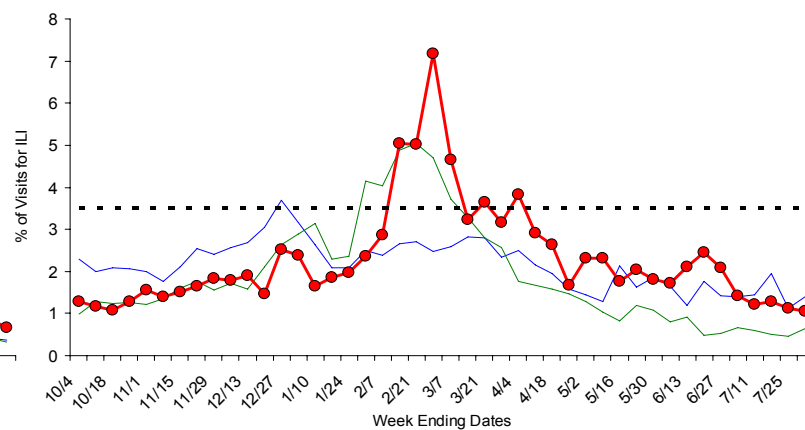
Region I - CT, ME, MA, NH, RI, VT



Region II - NJ, NY



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





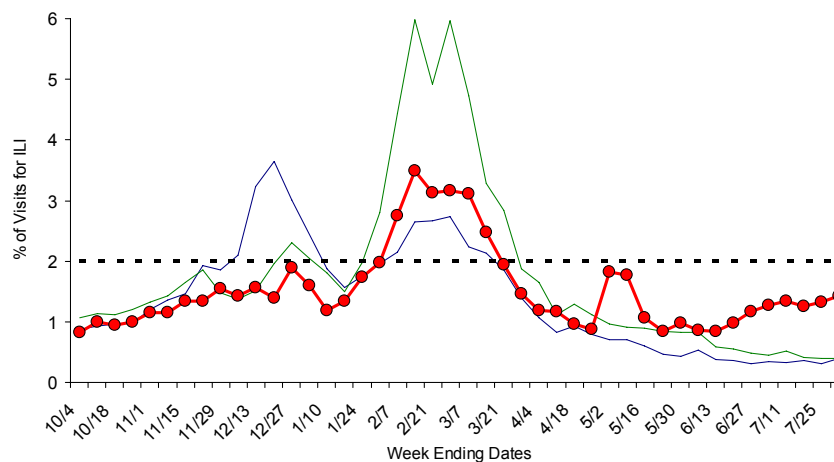
Epidemiology/Surveillance

Current Influenza Surveillance – *ILINet Regions IV-VI*

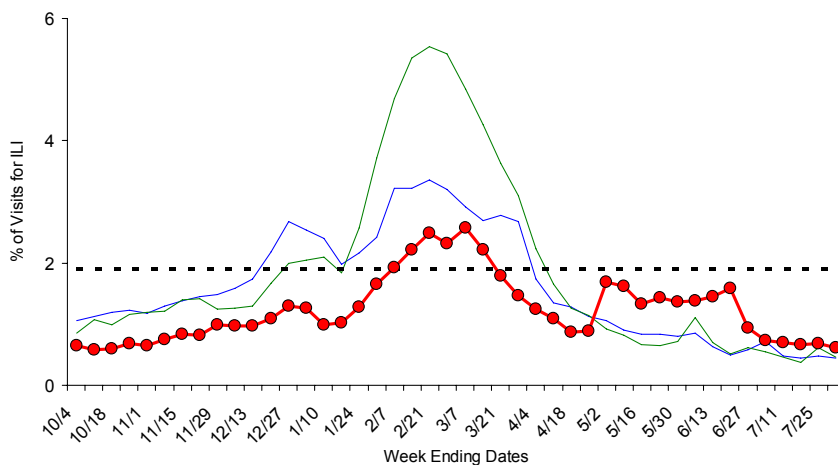
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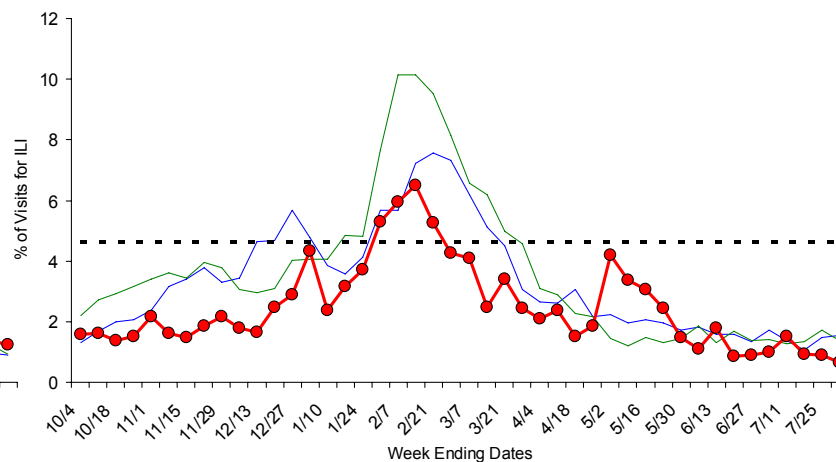
Region IV - AL, FL, GA, KY, MS, NC, SC, TN



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



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



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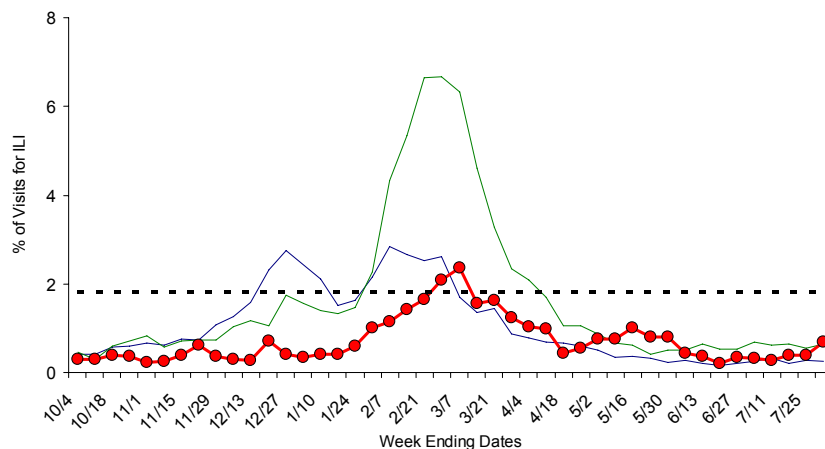
Epidemiology/Surveillance

Current Influenza Surveillance – ILINet Regions VII-X

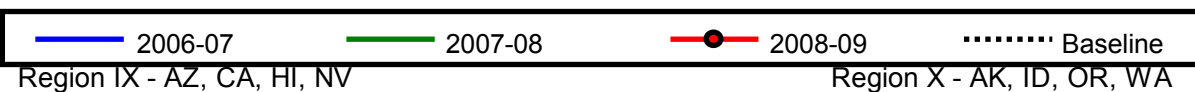
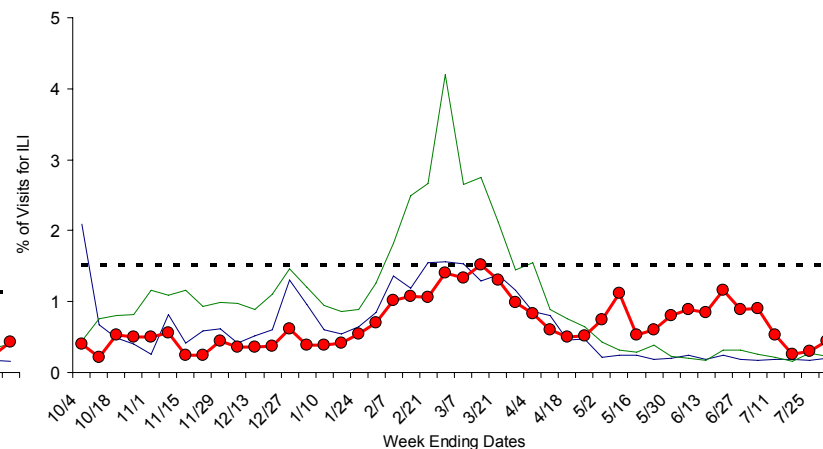
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Region VII - IA, KS, MO, NE

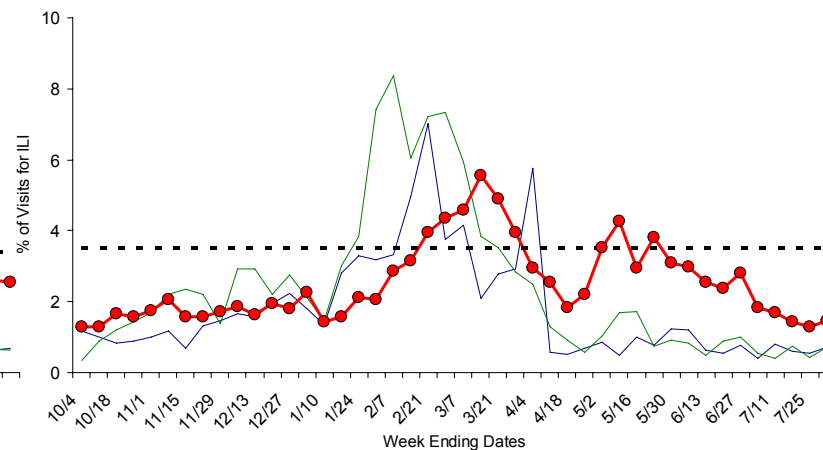
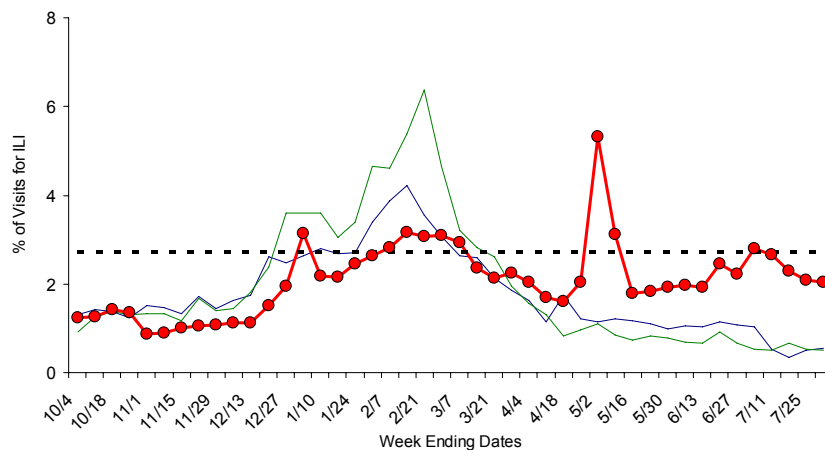


Region VIII - CO, MT, ND, SD, UT, WY



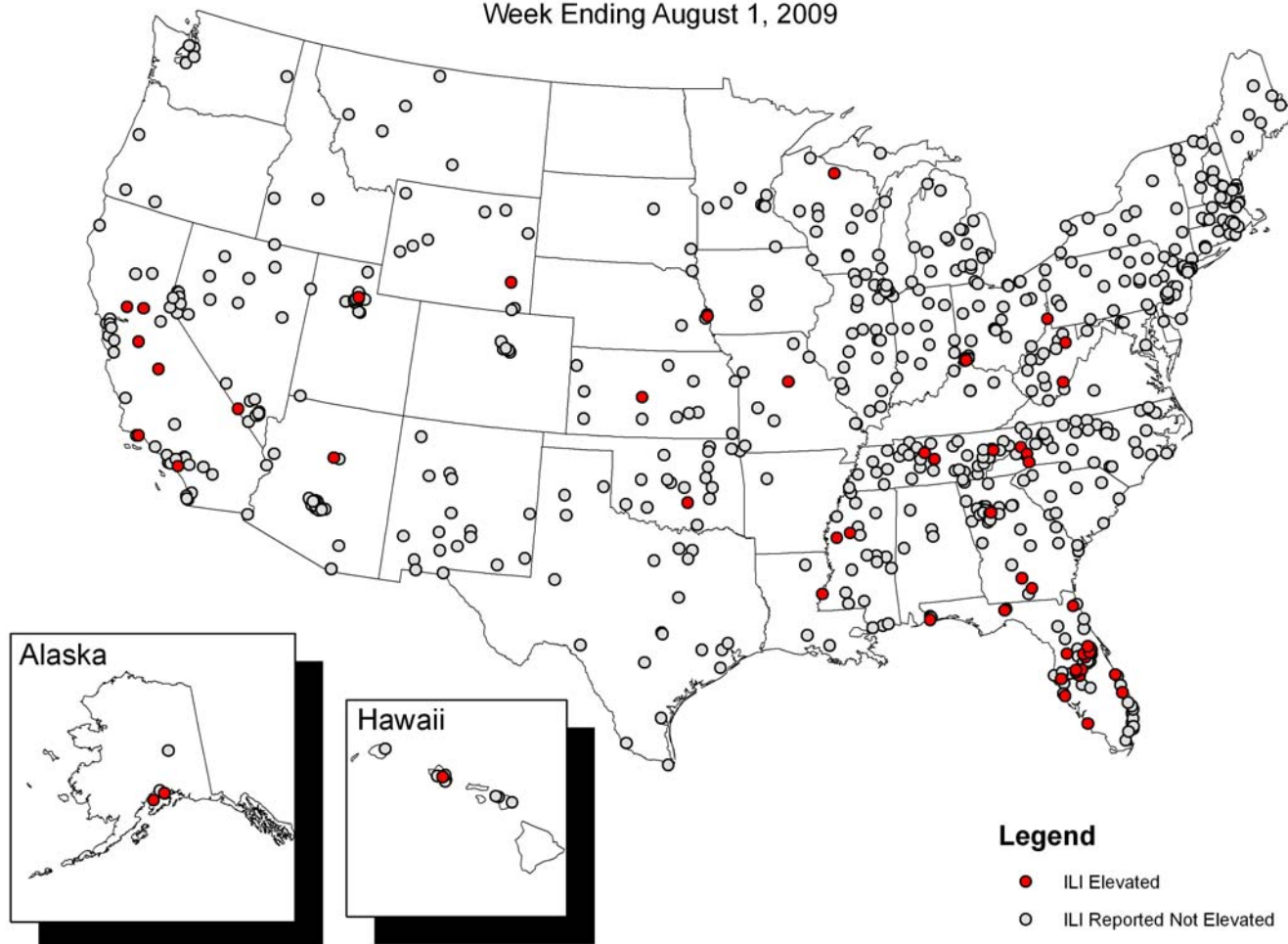
Region IX - AZ, CA, HI, NV

Region X - AK, ID, OR, WA



novel 2009-H1N1 – 07 AUG 2009

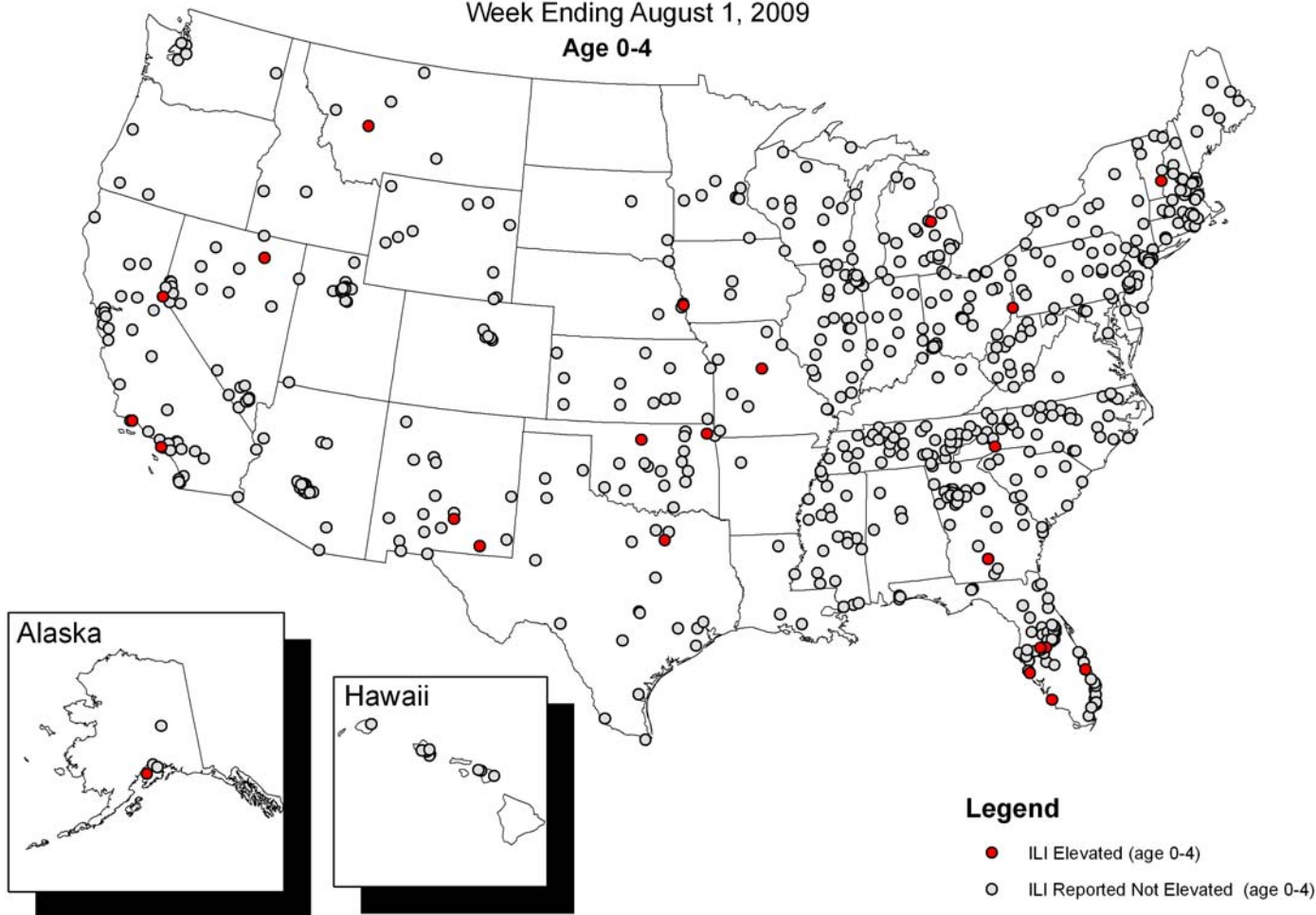
Influenza-like Illness (ILI) Reported from U.S. Outpatient Influenza-like Illness
Surveillance Network (ILINet)
Analyzed by the Early Aberration Reporting System (EARS)
Week Ending August 1, 2009



novel 2009-H1N1 – 07 AUG 2009

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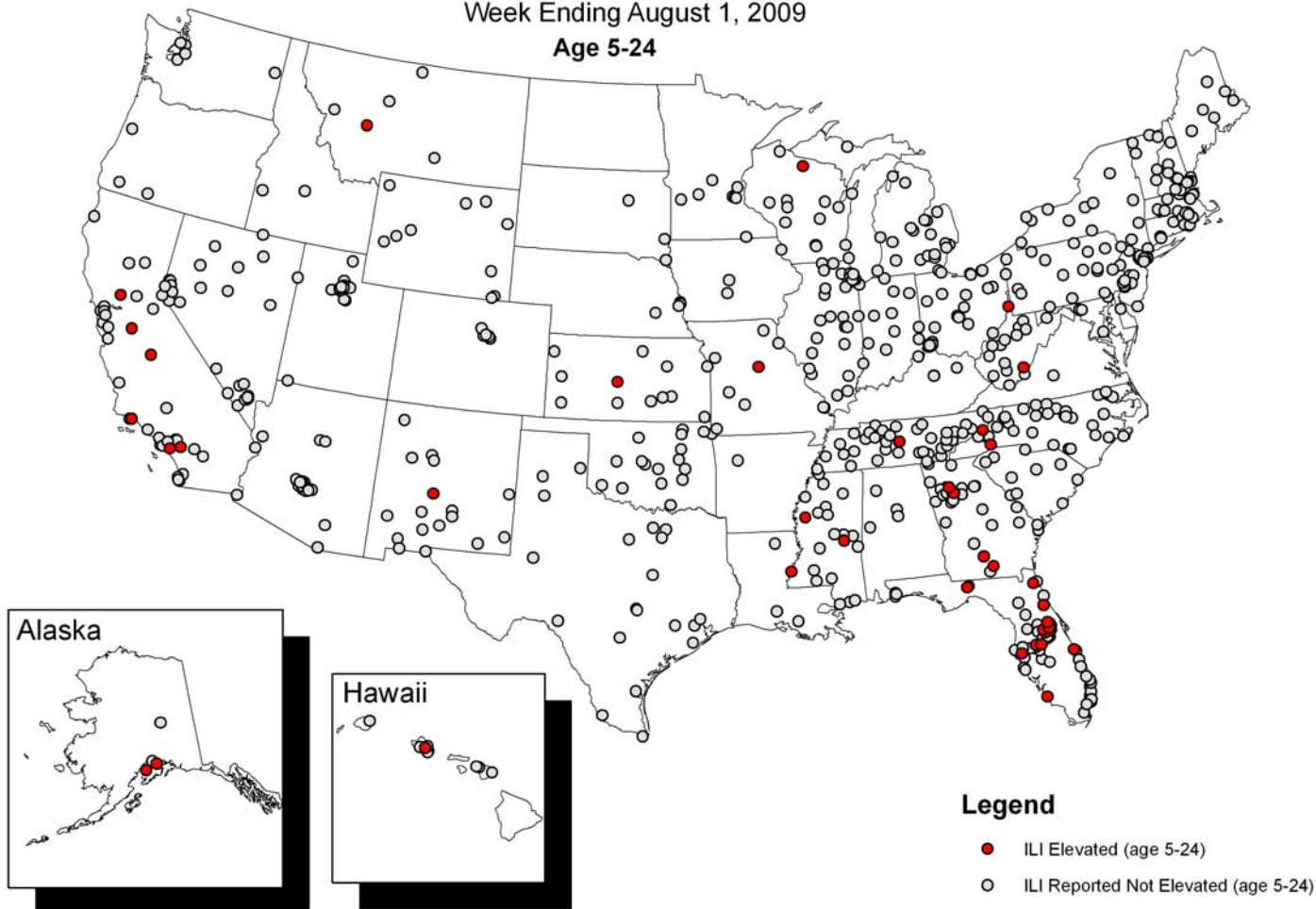
Age 0-4



novel 2009-H1N1 – 07 AUG 2009

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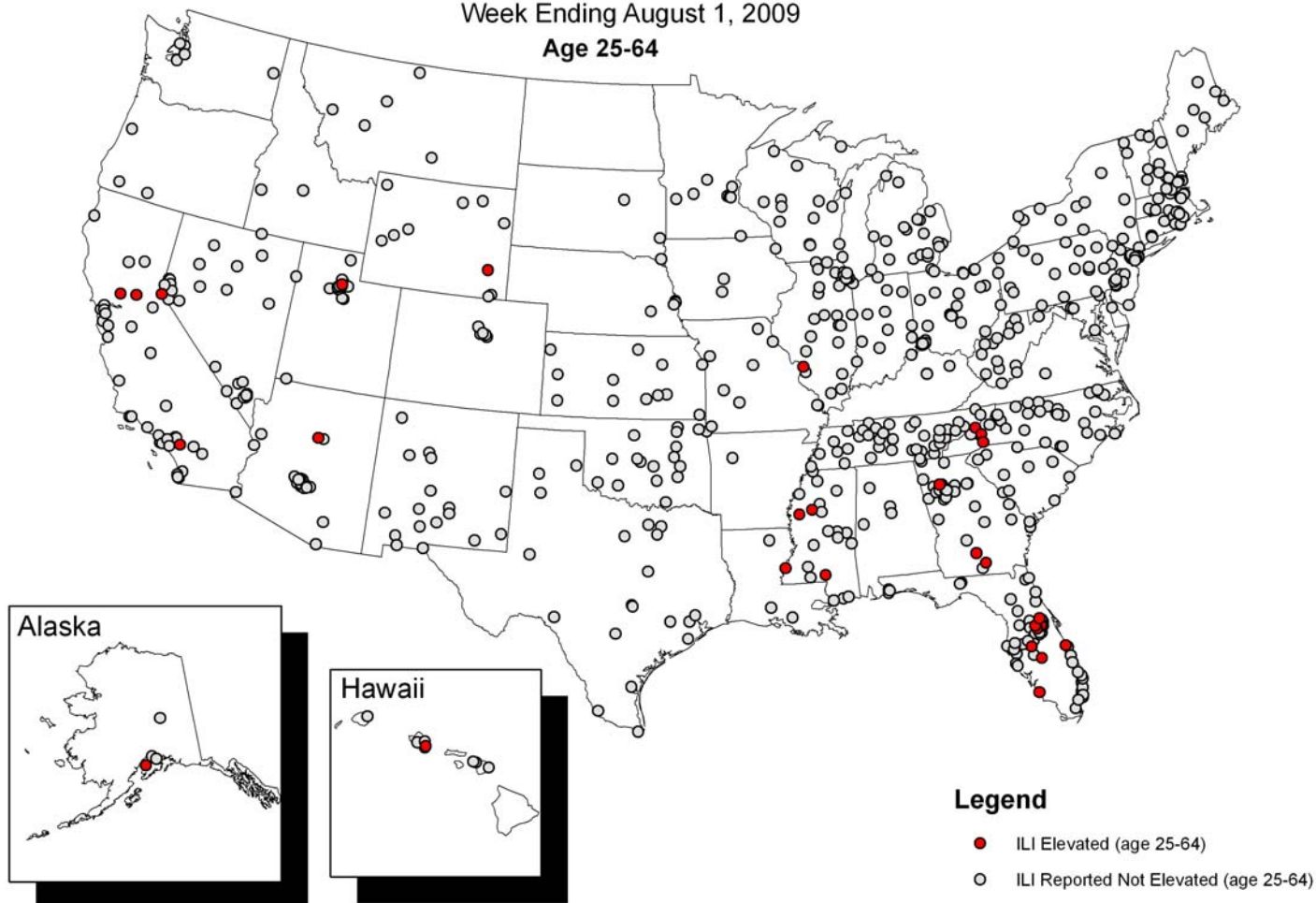
Age 5-24



novel 2009-H1N1 – 07 AUG 2009

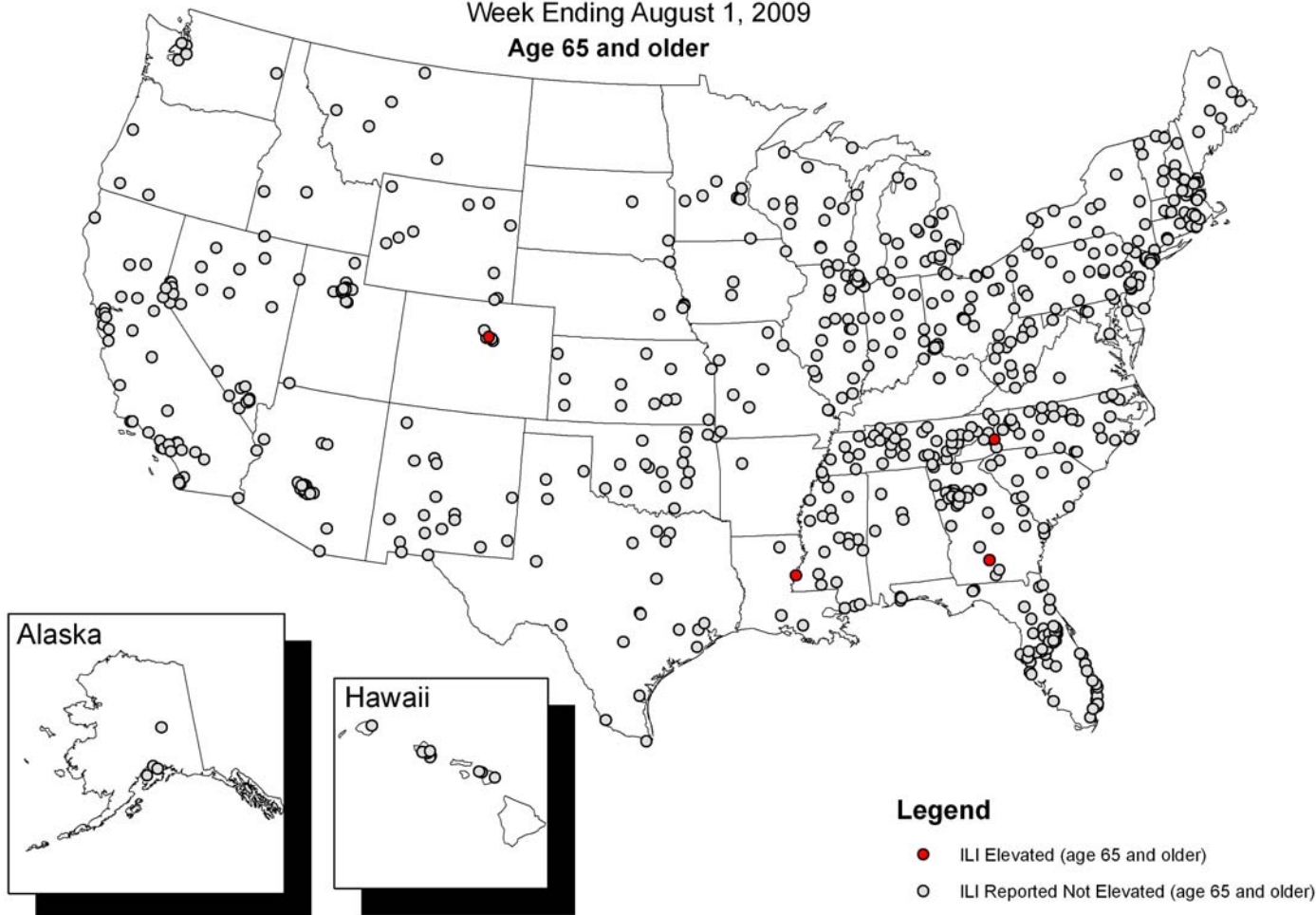
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Age 25-64



novel 2009-H1N1 – 07 AUG 2009

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Age 65 and older

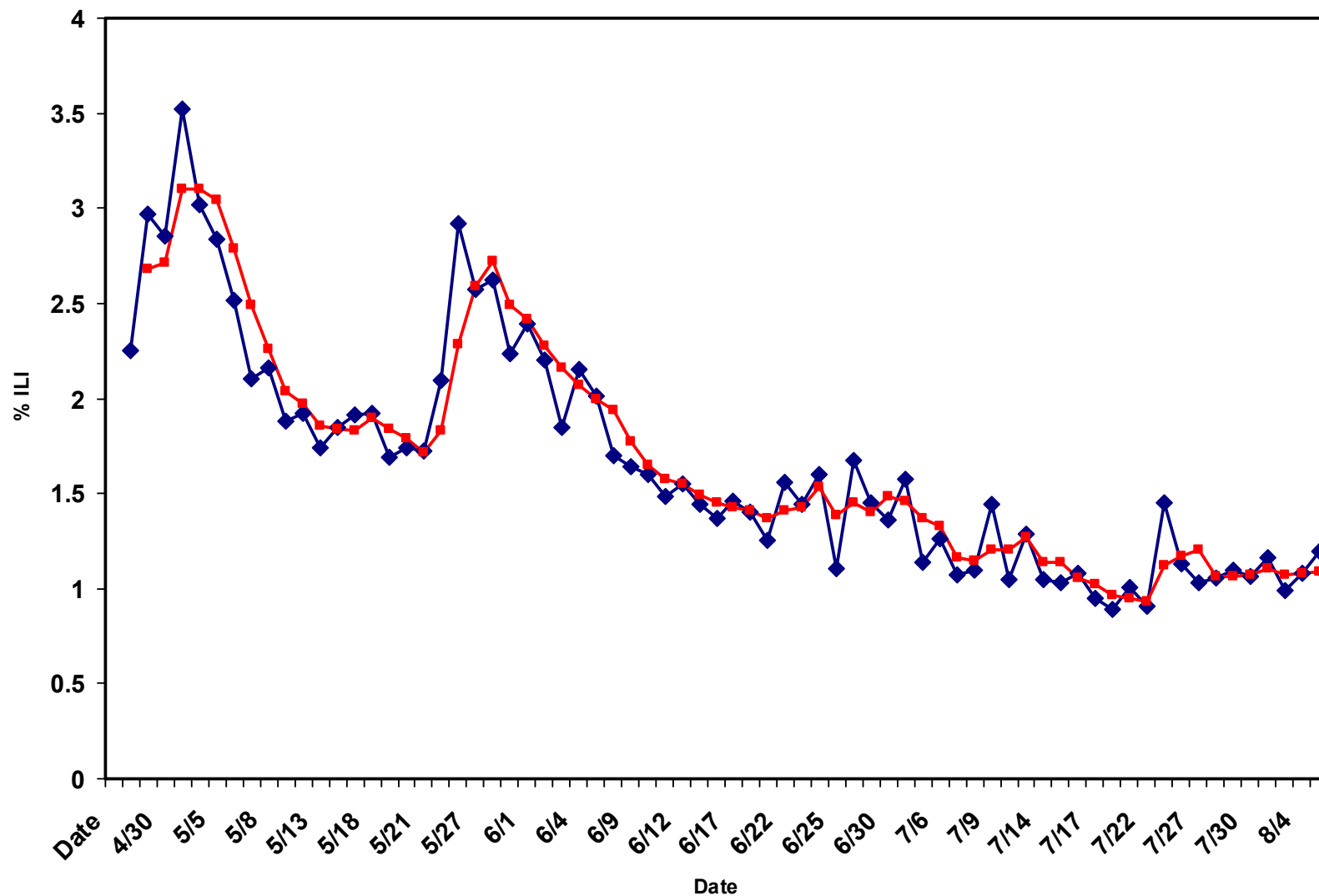




Epidemiology/Surveillance

Percentage of Visits Due to ILI Reported to ILINet*, by day**

novel 2009-H1N1 – 07 AUG 2009



*Average of 173 providers reporting per day

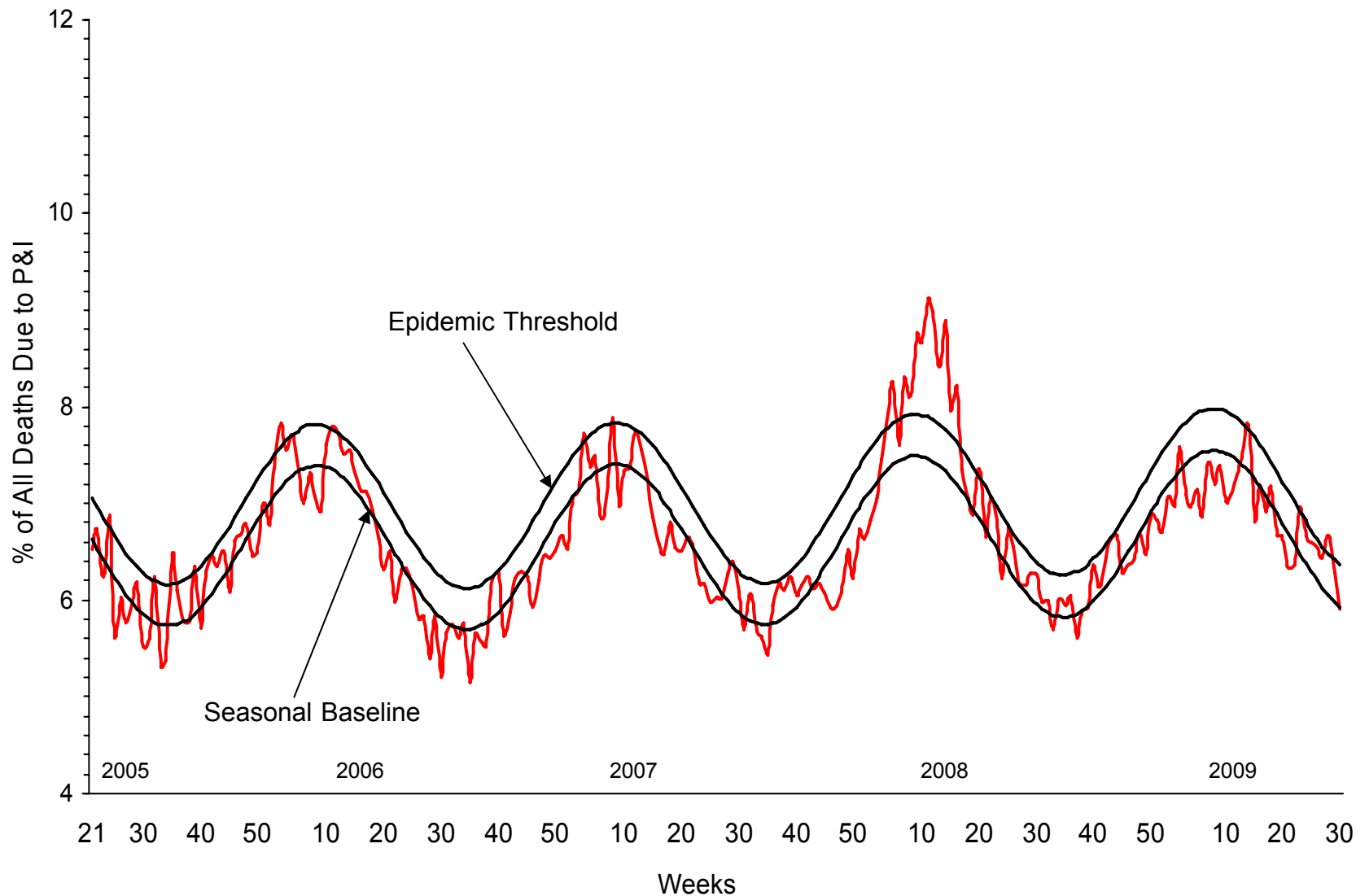
**Weekend and holiday data excluded

—◆— %ILI —■— Three Day Moving Average

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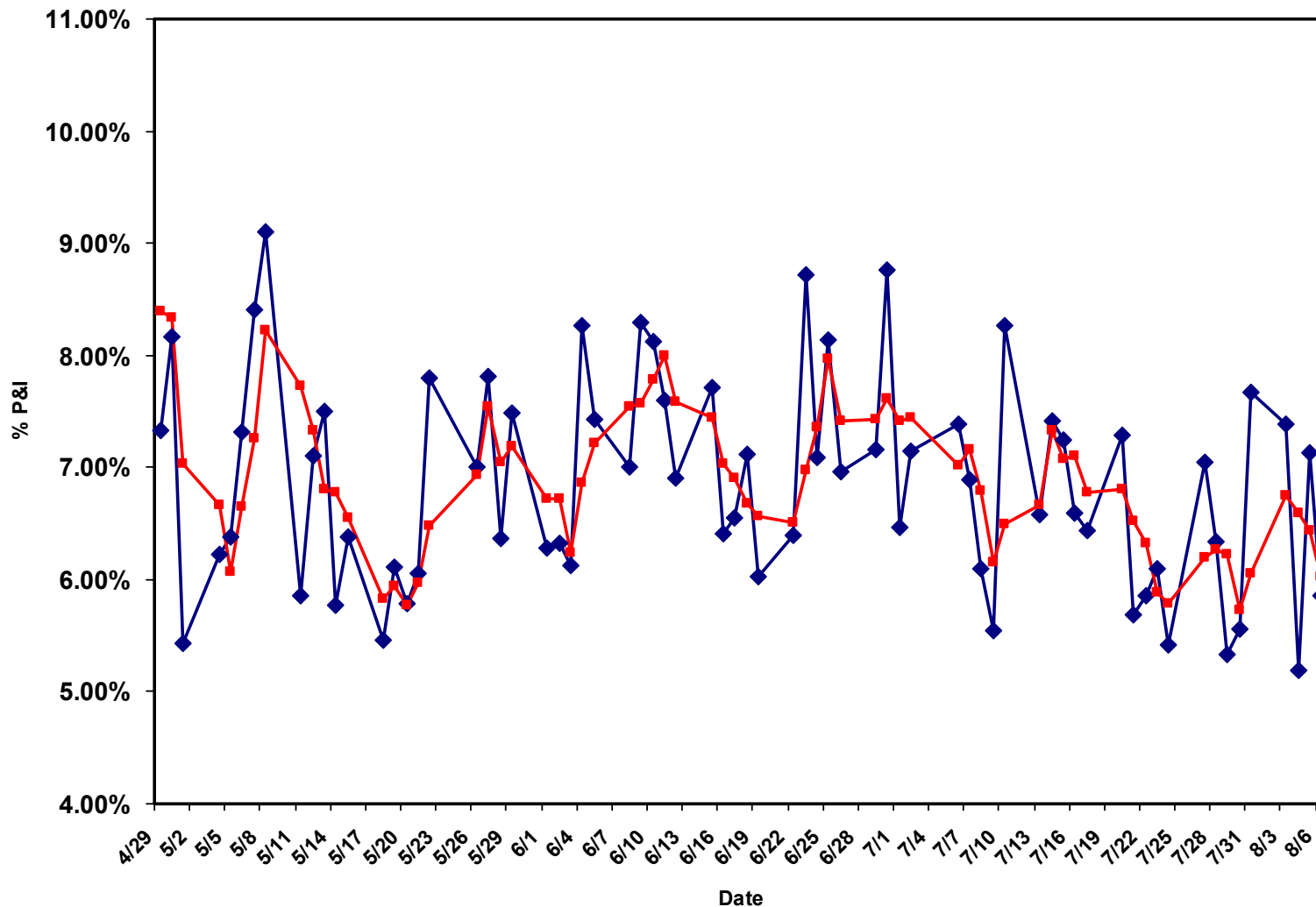
Epidemiology/Surveillance
Pneumonia and Influenza Mortality for 122 U.S. Cities
Week Ending 07/25/2009
novel 2009-H1N1 – 07 AUG 2009



Epidemiology/Surveillance

Percentage of Deaths Due to Pneumonia and Influenza Reported by 122 Cities* Mortality Reporting System, by day**

novel 2009-H1N1 – 07 AUG 2009



*Average of 51 cities reporting per day

**Weekend & Holiday data excluded

◆ % P&I ■ Three Day Moving Average

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