

Influenza Preparedness in the Pediatric Population

**Clinician Outreach and
Communication Activity (COCA)
Conference Call
December 14, 2010**



Objectives

At the conclusion of this hour, each participant should be able to:

- ❑ **Understand 2010 -2011 influenza activity**
- ❑ **Describe risk factors for developing serious flu complications in children**
- ❑ **State effective strategies for influenza prevention and treatment in children**
- ❑ **Identify emergency preparedness response tactics for the pediatric populations**

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CDC, our planners, and our presenter wish to disclose they have no financial interests or other relationships with the manufacturers of commercial products, suppliers of commercial services, or commercial supporters. Presentations will not include the discussion of the unlabeled use of a product or a product under investigational use with the exception of Oseltamivir which is FDA approved for use in age one year and older. During the influenza pandemic, CDC distributed the drug to birth under an EUA (Emergency Use Authorization) protocol. Although the EUA has expired, CDC recommends Oseltamivir to birth.

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TODAY'S PRESENTER



David Schonfeld, MD, FAPP

**Thelma and Jack Rubenstein Professor of Pediatrics
Director, Division of Developmental and Behavioral Pediatrics
Director, National Center for School Crisis and Bereavement
Cincinnati Children's Hospital Medical Center**

TODAY'S PRESENTER



Henry Bernstein, DO, FAAP
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TODAY'S PRESENTER

The screenshot shows a Windows Internet Explorer browser window displaying the CDC website. The address bar shows 'http://www.cdc.gov/flu/'. The page title is 'CDC - Seasonal Influenza (Flu)'. The main content area features a banner for 'National Influenza Vaccination Week' from December 5-11, 2010, with a 'Replay' button and a 'GO' button. Below the banner are sections for 'Influenza (Flu) Topics' and 'Flu Activity & Surveillance'. The 'Influenza (Flu) Topics' section includes links for 'Flu Basics', 'Health Professionals', 'Prevention', and 'Free Resources'. The 'Flu Activity & Surveillance' section includes a map of the United States and text stating 'CDC collects, compiles and analyzes information on influenza activity year round in the United States'. On the right side, there are utility links for 'Text size', 'Email page', 'Print page', 'Bookmark and share', and social media links for Facebook, Twitter, RSS, and audio/podcast.

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American Academy of Pediatrics

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The Pediatric Healthcare Provider's Role in Preparedness

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513-803-2222

The findings and conclusions in this presentation are those of the author and do not necessarily represent the views of the Centers for Disease Control and Prevention

Outline

- Potential roles for pediatricians/pediatric healthcare providers related to disaster
 - Providing direct medical care
 - Providing anticipatory guidance
 - Establishing partnerships in the community to provide pediatric expertise
- Importance of practice and personal/family preparedness

Providing direct medical care

- Provide direct medical care, often under stressful or austere conditions, to your own patient population
 - Keep updated on evolving public health status and relevant medical information
- Care for additional patients and families (may include adults) or deliver care at different sites (local, regional, or distant)
- Collaborate with hospital, clinic, and practice settings to plan for surge capacity
- Screening protocols for influenza like illnesses
 - See <http://www.aap.org/disasters/H1N1.cfm>

Providing anticipatory guidance

- Encourage and facilitate influenza vaccination
 - Universal vaccination, but mechanism for prioritizing if necessary
 - Delivery mechanism
 - Communication strategy
 - Be aware of media messages (planned and spontaneous) and be trusted (and hopefully persuasive) source of accurate medical information

Establishing partnerships in the community

- Identify yourself and professional organization(s) as resources for health departments and emergency managers for pandemic flu and other disaster/crisis response planning
- Become a trusted collaborator for community-based organizations
 - Schools
 - Child care, Preschool, Head Start
 - Other child congregate facilities (e.g., juvenile justice, youth groups, camps, etc.)

Providing consultation – Prior to a disaster

- Consult to health departments, emergency managers, etc. on plans
 - Ensure incorporation of medical home
- Consultation to schools, childcare, Head Start, afterschool groups, other congregate care sites
 - Assist with development of plans
 - Identify policies to reconsider
 - Encourage appropriate prevention efforts
 - Develop guidelines and processes for decisions about school closure

Providing consultation during response

- Assist with development of optimal media messages
 - Understand 2 general purposes of public health messages during a disaster – reassurance or call to action
 - “warning” is not one of them
 - Focus on behaviorally relevant information
 - Avoid fear-based messaging

Providing supportive services during response and recovery

- Provide supportive services for families and communities under stress within practice setting
- Identify the need for and facilitate referral
- Develop and promote mechanisms for providing services to children in schools and other congregate care sites and community sites
 - Assist with training/professional development
 - Advocate for service capacity

Importance of practice preparedness

- Make sure your office has a disaster preparedness plan
 - **Disaster Preparedness for Pediatric Practices: An Online Tool:**
<http://practice.aap.org/disasterpreptool.aspx>
 - Continuity of Operations plan coupled with appropriate policies regarding worker illness
- Universal influenza vaccination

Importance of personal/family preparedness

- Make sure your family has a family disaster plan; ensure the same for your staff
 - Alternate plans for childcare and eldercare
 - Options if school closes or primary caretakers become ill
- Recognize the importance of self-care

AAP Children and Disasters website

www.aap.org/disasters

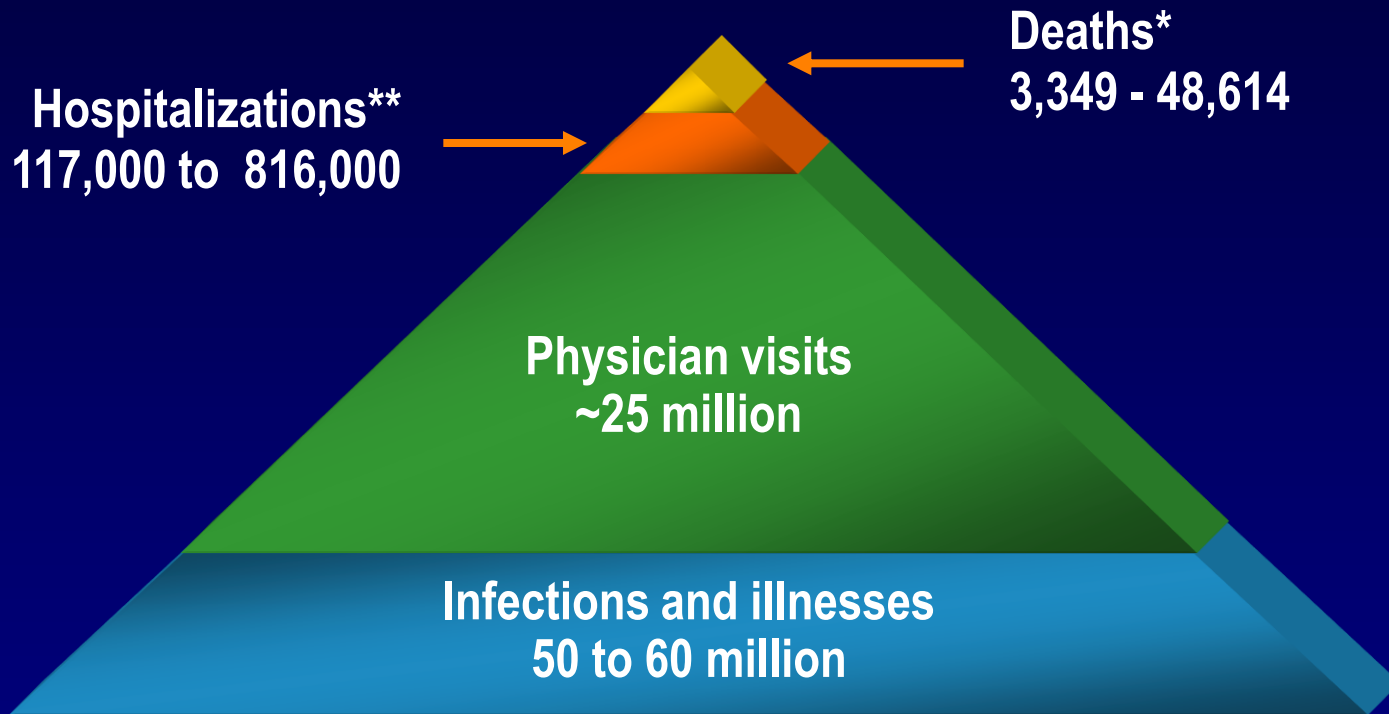
Seasonal Influenza Prevention: AAP Policies for Children and Health Care Personnel in 2010-2011

Henry (Hank) Bernstein, DO
American Academy of Pediatrics
Committee on Infectious Diseases



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Influenza Disease Burden in the U.S. in an Average Year



* MMWR. 2010; 59 (22): 1057-62.

**All-cause hospitalization and mortality associated with influenza virus infection.

Thompson WW, et al. *JAMA*. 2003;289:179; Thompson WW, et al. *JAMA*. 2004;292:1333; Couch RB. *Ann Intern Med*. 2000;133:992; Patriarca PA. *JAMA*. 1999;282:75; ACIP. *MMWR*. 2004;53(RR06):1.

Cumulative rate of laboratory-confirmed influenza-associated hospitalizations per 10,000 by age group during 3 seasons, Emerging Infections Program, 2007-2010

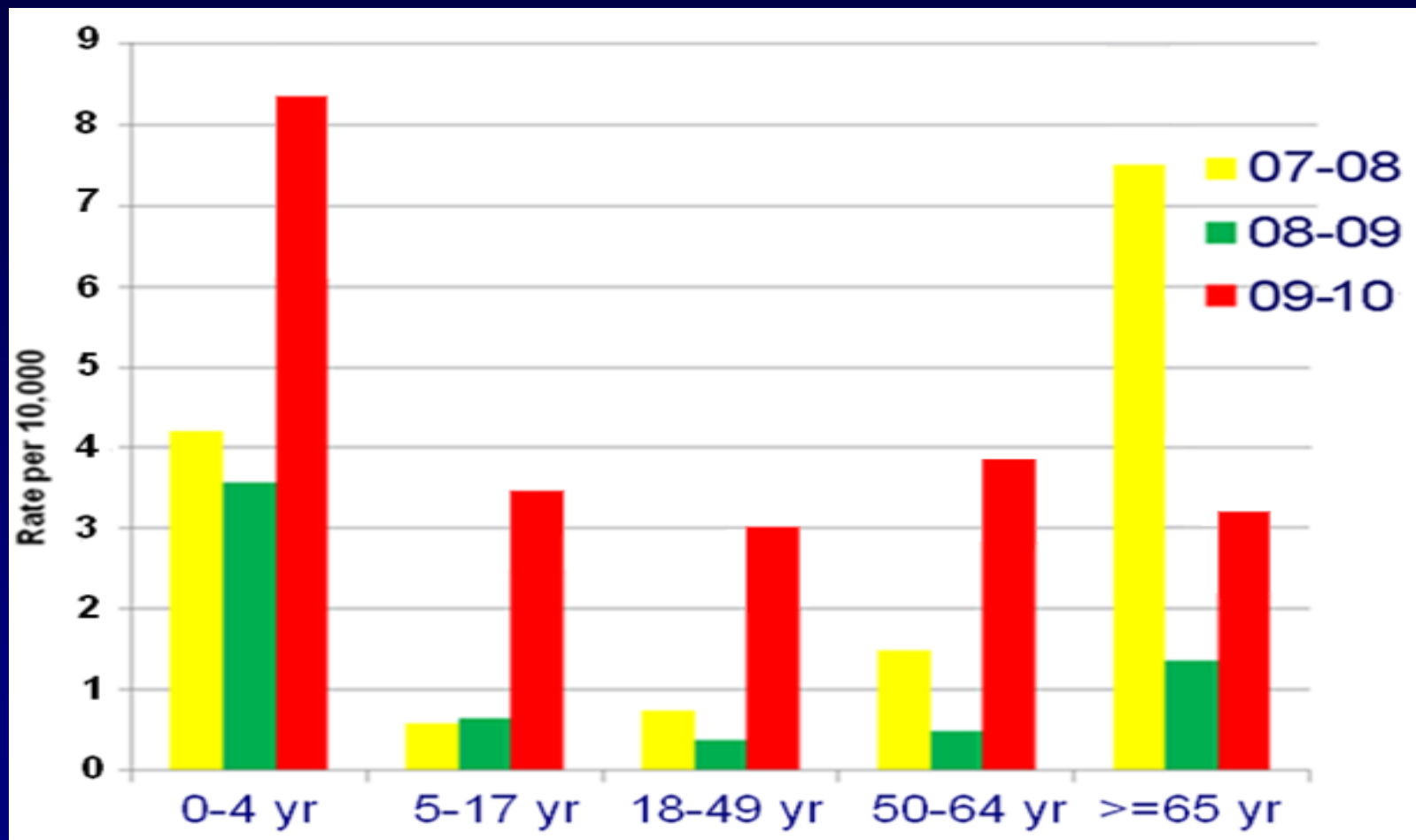


Table 2. Underlying Medical Conditions among the Patients, According to Age Group.*

Medical Condition	All Patients (N=272)	Patients <18 yr (N=122) <i>number (percent)</i>	Patients ≥18 yr (N=150)
Any one condition	198 (73)	73 (60)	125 (83)
Asthma	76 (28)	35 (29)	41 (27)
Chronic obstructive pulmonary disease	22 (8)	0	22 (15)
Diabetes	40 (15)	3 (2)	37 (25)
Immunosuppression	40 (15)	11 (9)	29 (19)
Chronic cardiovascular disease	35 (13)	5 (4)	30 (20)
Chronic renal disease	25 (9)	7 (6)	18 (12)
Neurocognitive disorder	20 (7)	14 (11)	6 (4)
Neuromuscular disorder	19 (7)	13 (11)	6 (4)
Pregnancy	18 (7)	1 (1)	17 (11)
Seizure disorder	18 (7)	13 (11)	5 (3)

* Patients who are pregnant, who have immunosuppression (from either medications or immune disorders, including human immunodeficiency virus infection), or who have chronic pulmonary disease (e.g., asthma or chronic obstructive pulmonary disease), cardiovascular disease (excluding hypertension), or renal, hepatic, hematologic, neurologic, or metabolic disease (e.g., diabetes) are considered to be at high risk for influenza-related complications. For additional clinical characteristics of the patients, see Table 1 in the Supplementary Appendix.

FLU VACCINE CATEGORIES



ANY QUESTIONS?



Trivalent Flu Vaccine Strains, 2010–2011 Northern Hemisphere Influenza Season

- **An A/California/7/2009 (H1N1)-like antigen**
 - ✓ **New to seasonal vaccine**
 - ✓ **Replaced influenza A (H1N1) virus that circulated since 1977**
- **An A/Perth/16/2009 (H3N2)-like antigen**
 - ✓ **New**
- **A B/Brisbane/60/2008-like virus**
 - ✓ **Unchanged**



Policy Statement—Recommendations for Prevention and Control of Influenza in Children, 2010–2011

COMMITTEE ON INFECTIOUS DISEASES

KEY WORDS

influenza, novel 2009 influenza A (H1N1) virus, pandemic, immunization, live-attenuated influenza vaccine, trivalent inactivated influenza vaccine, vaccine, children, pediatrics

ABBREVIATIONS

AAP—American Academy of Pediatrics

HCP—health care personnel

CDC—Centers for Disease Control and Prevention

TIV—trivalent inactivated influenza vaccine

LAIV—live-attenuated influenza vaccine

GBS—Guillain-Barré syndrome

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abstract

The purpose of this statement is to update current recommendations for routine use of trivalent seasonal influenza vaccine and antiviral medications for the prevention and treatment of influenza in children. The 2009 influenza A (H1N1) pandemic virus is expected to circulate, with infants and children at increased risk of severe illness and death. This year's trivalent seasonal influenza vaccine contains A/California/7/2009 (H1N1)-like antigen (derived from the 2009 pandemic influenza A [H1N1] virus); A/Perth/16/2009 (H3N2)-like antigen; and B/Brisbane/60/2008-like antigen. Pediatricians continue to have a leadership role in the prevention of influenza through vaccine use and public education. In addition, pediatricians should promptly identify influenza infections to enable rapid treatment of influenza, when indicated, to reduce childhood morbidity and mortality. *Pediatrics* 2010;126:000

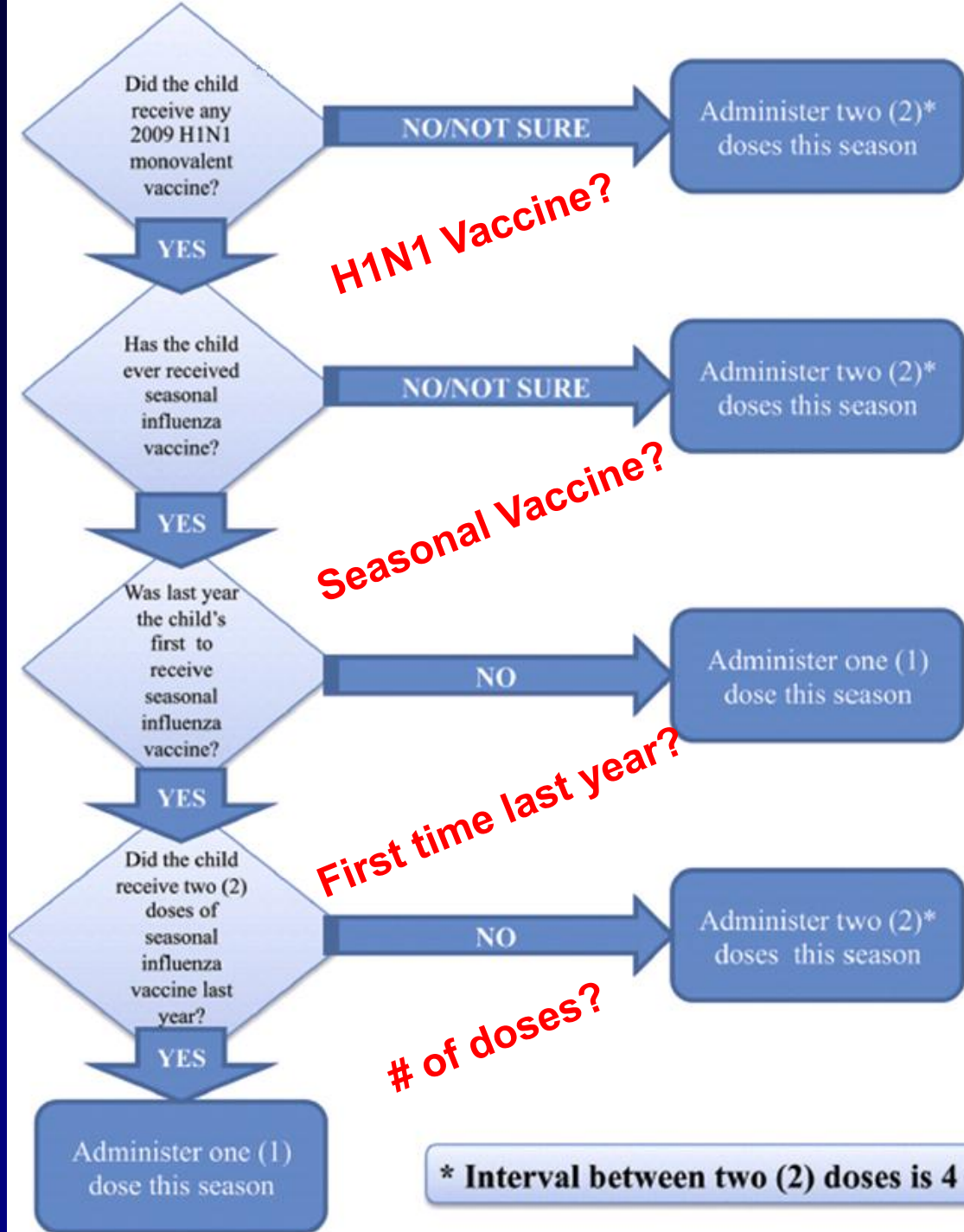
INTRODUCTION

Influenza 2010-2011: Key Points

- **2009 influenza A (H1N1) pandemic virus expected to circulate**
 - ✓ Infants and children at increased risk
- **Vaccine indicated for everyone ≥ 6 months**
 - ✓ Special outreach to children, certain household contacts, pregnant women, and HCP
- **Immunize during entire influenza season into April and May**

Number of 2010-2011 Seasonal Influenza Vaccine Doses Recommended For Children

Infants under 6 months of age	No influenza vaccine
Children 6 months through 8 years of age	Follow algorithm
Children 9 years of age and older	One (1) dose



*** Interval between two (2) doses is 4 weeks**

Special Outreach

- High risk children with chronic medical conditions (e.g., asthma, diabetes, neurodevelopmental disorders)
- Healthy children younger than 5 years:
 - ✓ If < 24 months, have similar risk of influenza-associated hospitalization as other high-risk groups
 - ✓ If 24-59 months, have increased morbidity, rates of outpatient visits and antimicrobial use

Cocoon Strategy

- **Immunize close contacts of**
 - **Infants < 6 months (cannot receive vaccine)**
 - **High risk children with chronic medical conditions**
 - **Healthy children younger than 5 years**

Use of Antivirals

- **Children with presumed influenza infection**
 - ✓ Hospitalized
 - ✓ At high risk of complication
 - ✓ Would benefit from a decrease in duration of symptoms
- **Best within 48 hours onset of symptoms**
 - ✓ Severity of symptoms may still be decreased outside of 48 hour window
- **If clinical judgment indicates treatment...**
 - ✓ Do not wait for definitive test result
 - ✓ RIDT with low sensitivity

Antiviral Medications

**Expected 2010-11
Seasonal Viruses**

**Adamantanes
(Symmetrel/Flumadine)**

**Osetamivir
(Tamiflu)**

**Zanamivir
(Relenza)**

A: 2009 H1N1

Resistant

Susceptible

Susceptible

A: H3N2

Resistant

Susceptible

Susceptible

B

Resistant

Susceptible

Susceptible

For current recommendations about treatment and chemoprophylaxis of influenza, see www.cdc.gov/flu/professionals/antivirals/index.htm or www.aapredbook.org/flu. Circulating strains in local communities may vary from those found in the vaccine. Antiviral sensitivities of these strains are reported weekly at www.cdc.gov/flu/weekly/fluactivity.htm.



Policy Statement—Recommendation for Mandatory Influenza Immunization of All Health Care Personnel

COMMITTEE ON INFECTIOUS DISEASES

KEY WORDS

health care personnel, mandatory, influenza, immunization,
vaccine, children, pediatrics

ABBREVIATIONS

HCP—health care personnel

CDC—Centers for Disease Control and Prevention

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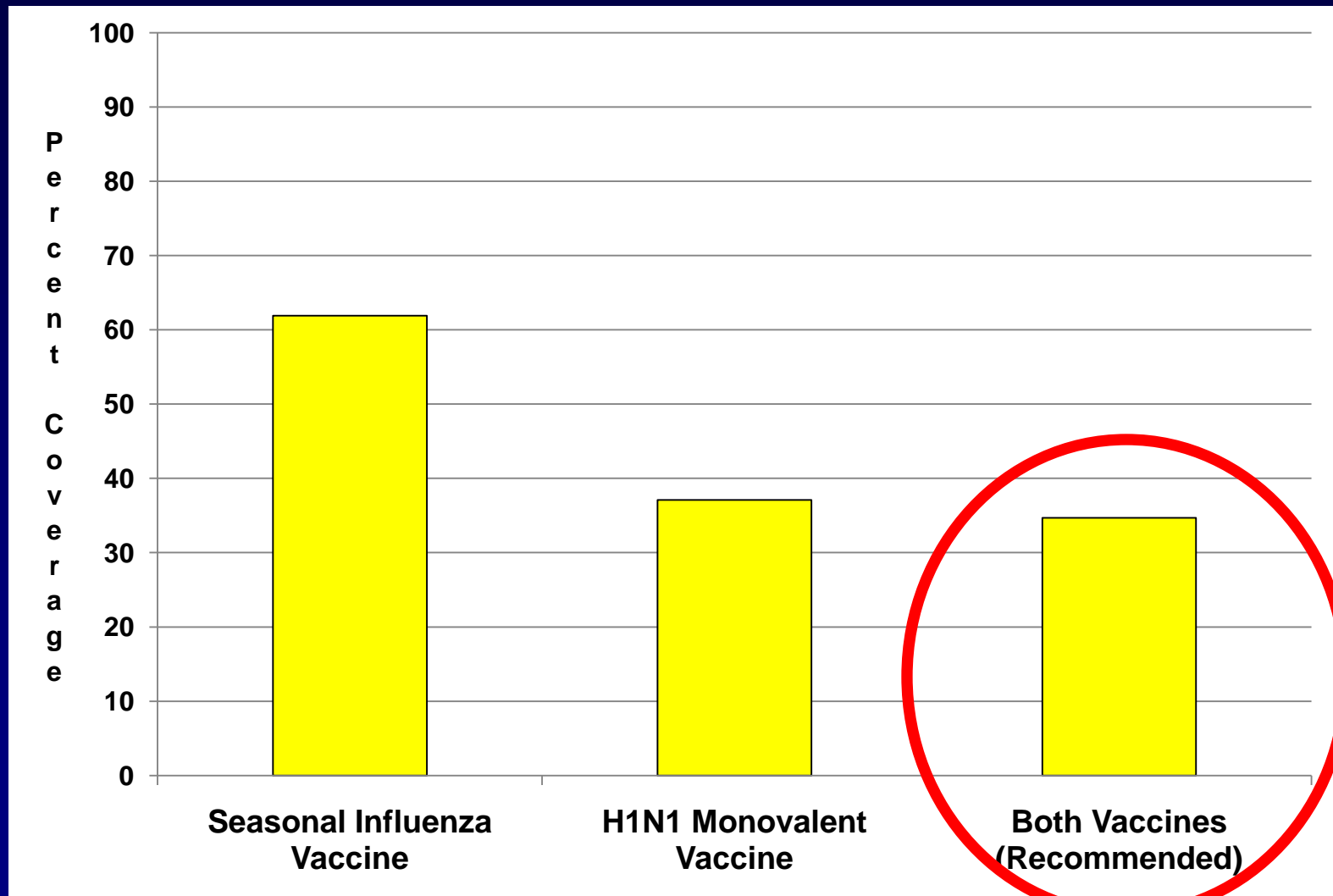
abstract

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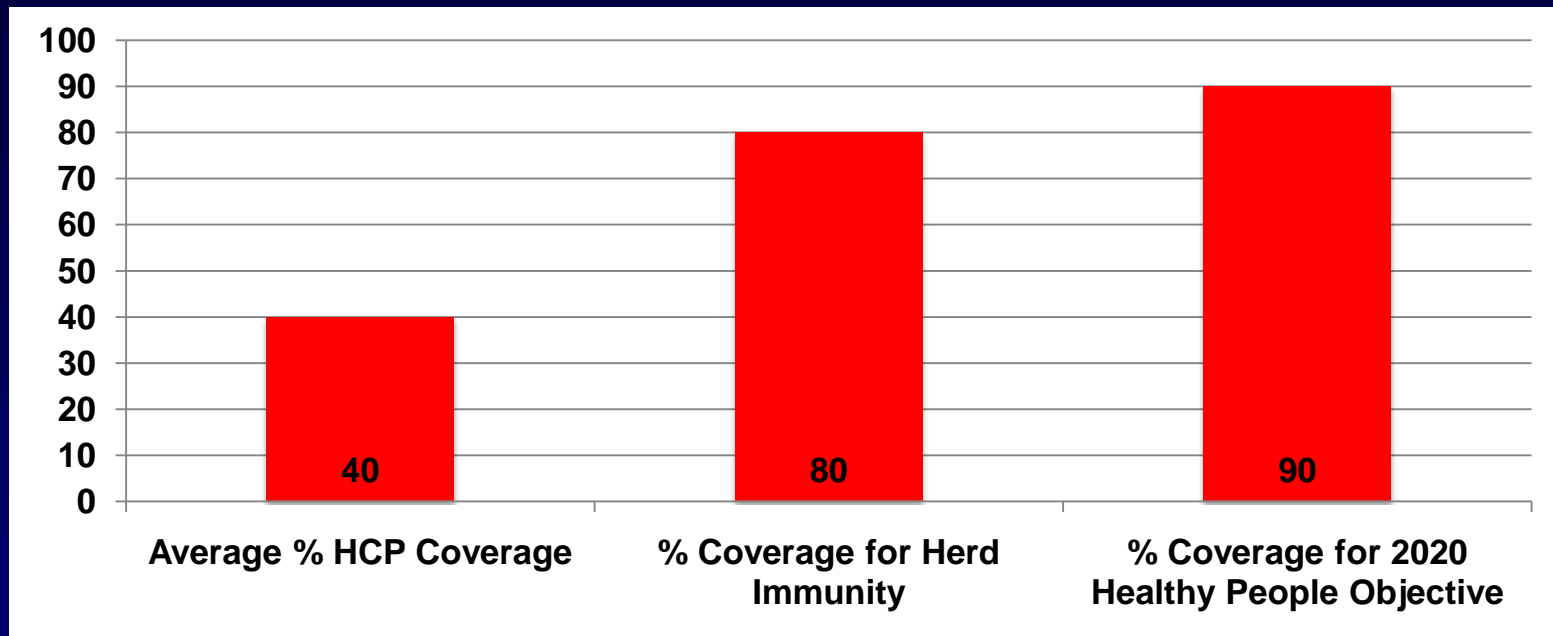
The purpose of this statement is to recommend implementation of a mandatory influenza immunization policy for all health care personnel. Immunization of health care personnel is a critically important step to substantially reduce health care–associated influenza infections. Despite the efforts of many organizations to improve influenza immunization rates with the use of voluntary campaigns, influenza coverage among health care personnel remains unacceptably low. Mandatory influenza immunization for all health care personnel is ethically justified, necessary, and long overdue to ensure patient safety. *Pediatrics* 2010;126:809–815

INTRODUCTION

Percent of HCP Vaccinated in 2009-2010 Season



Influenza Immunization for HCP



- HCP immunization rates remain low
- HCP in close contact with high risk populations
 - ✓ Influenza cases in healthy adults reduced by 70-90% when vaccine well-matched to circulating strain¹

Reasons Mandatory Requirements Should Be Implemented (1)

- Influenza is a serious threat
- Vaccine is safe and effective in preventing disease
- **Necessary:** less strict strategies have not been enough to prevent spread
- **Ethically justified:** matter of patient safety
- Historically, other mandatory vaccine programs have been **successful** (Tb testing; school immunization requirements)

Reasons Mandatory Requirements Should Be Implemented (2)

- **Mandatory influenza programs cut costs and increase efficiency in healthcare settings**
- **Concept has widespread support**
- **Hospitals have already implemented successful mandatory influenza programs**

Features of Successful Mandatory Programs

- Education about influenza and vaccine
- Access to vaccine
- Incentives for participation
- Mandatory Participation either by:
 - ✓ Vaccination
 - ✓ Documented declination of vaccination



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Influenza Epidemiology, Vaccine, and Limitations of Rapid Tests

Lisa A. Grohskopf, MD, MPH

Medical Officer

Epidemiology and Prevention Branch

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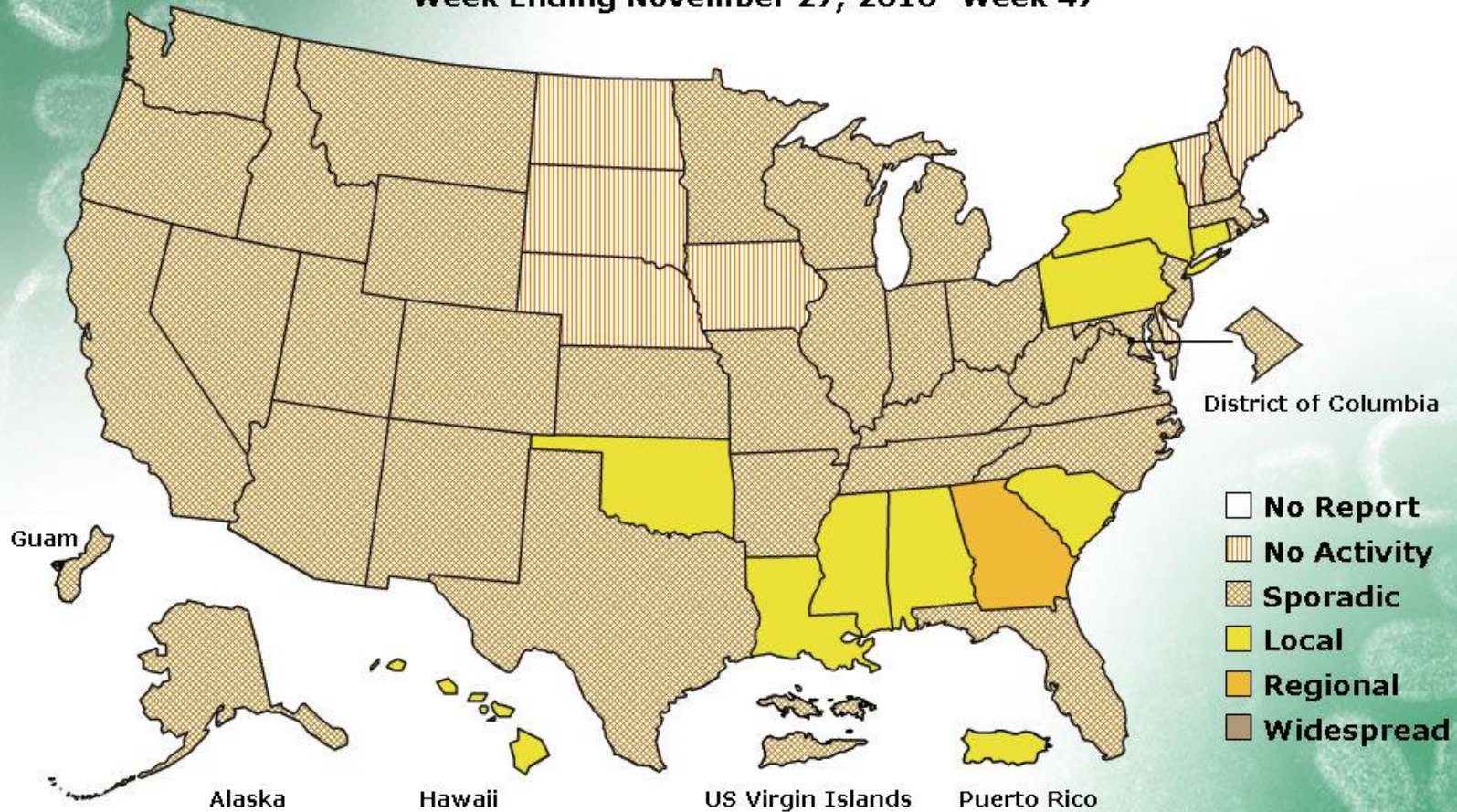
Influenza Epidemiology Update

FLUVIEW



A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

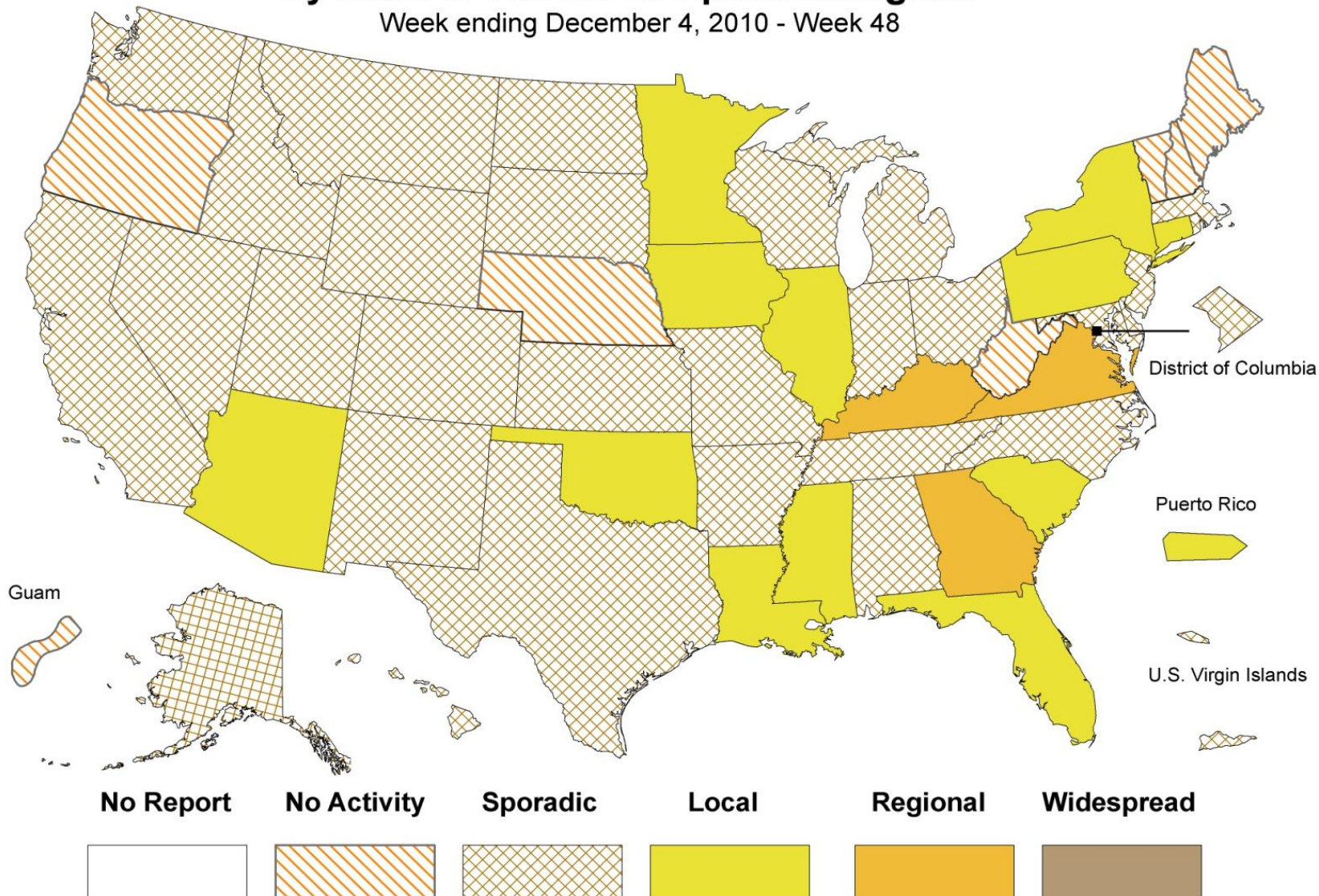
Week Ending November 27, 2010- Week 47



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

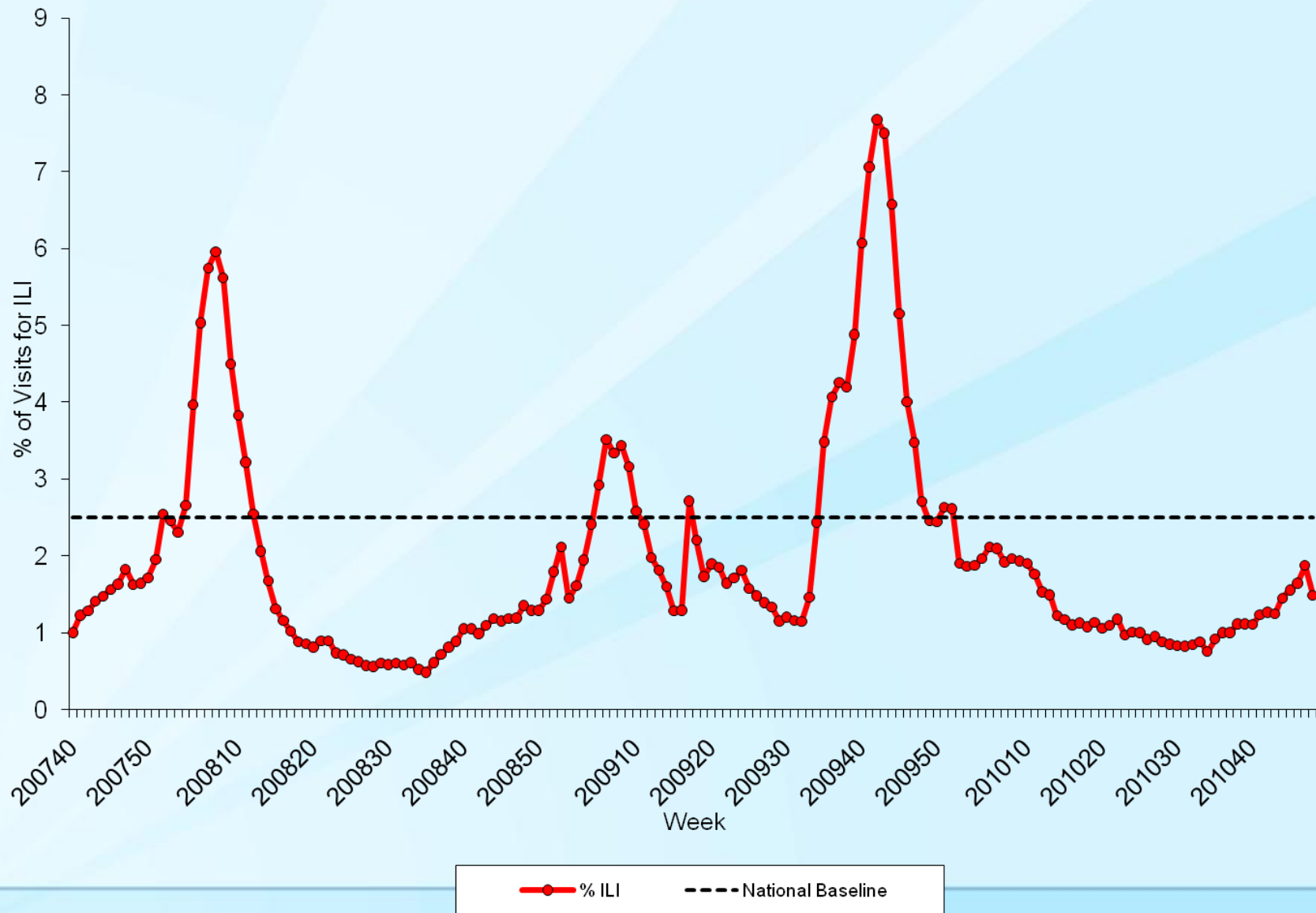
Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending December 4, 2010 - Week 48

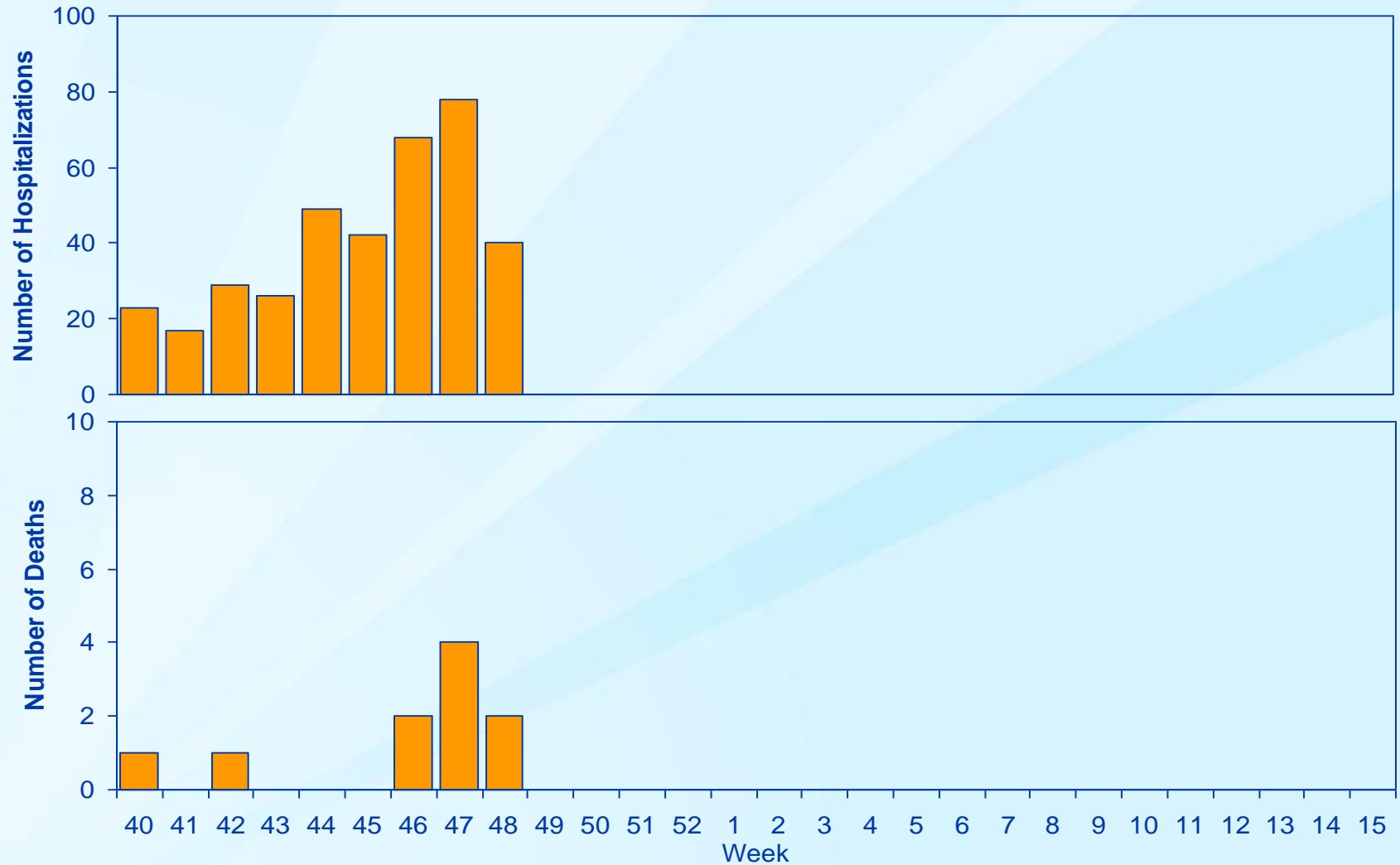


* This map indicates geographic spread & does not measure the severity of influenza activity

Percentage of Visits for Influenza-like Illness (ILI) Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, September 30, 2007 – December 4, 2010



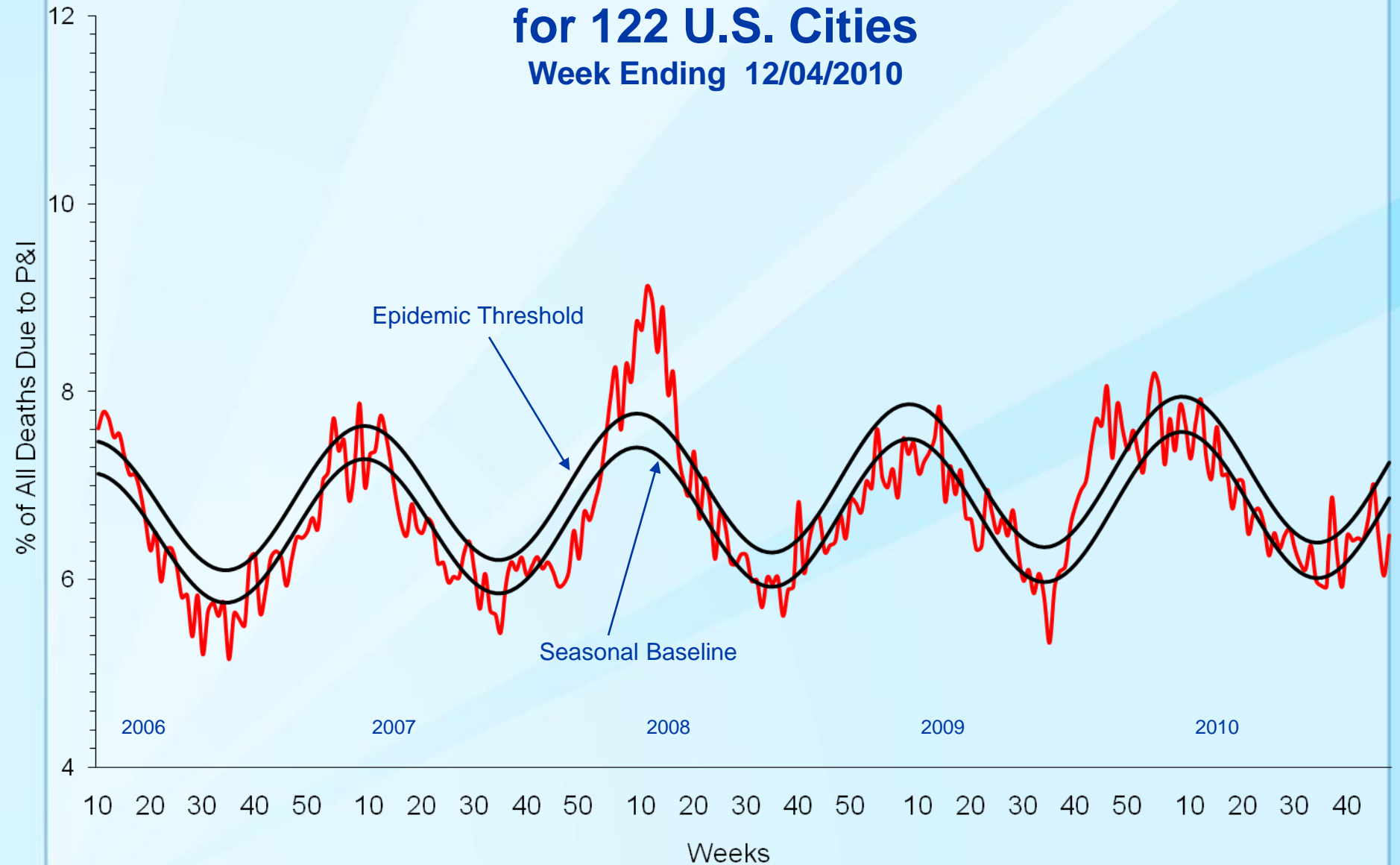
Weekly Laboratory-Confirmed Influenza-Associated Hospitalizations and Deaths, National Summary, 2010-11 Influenza Season



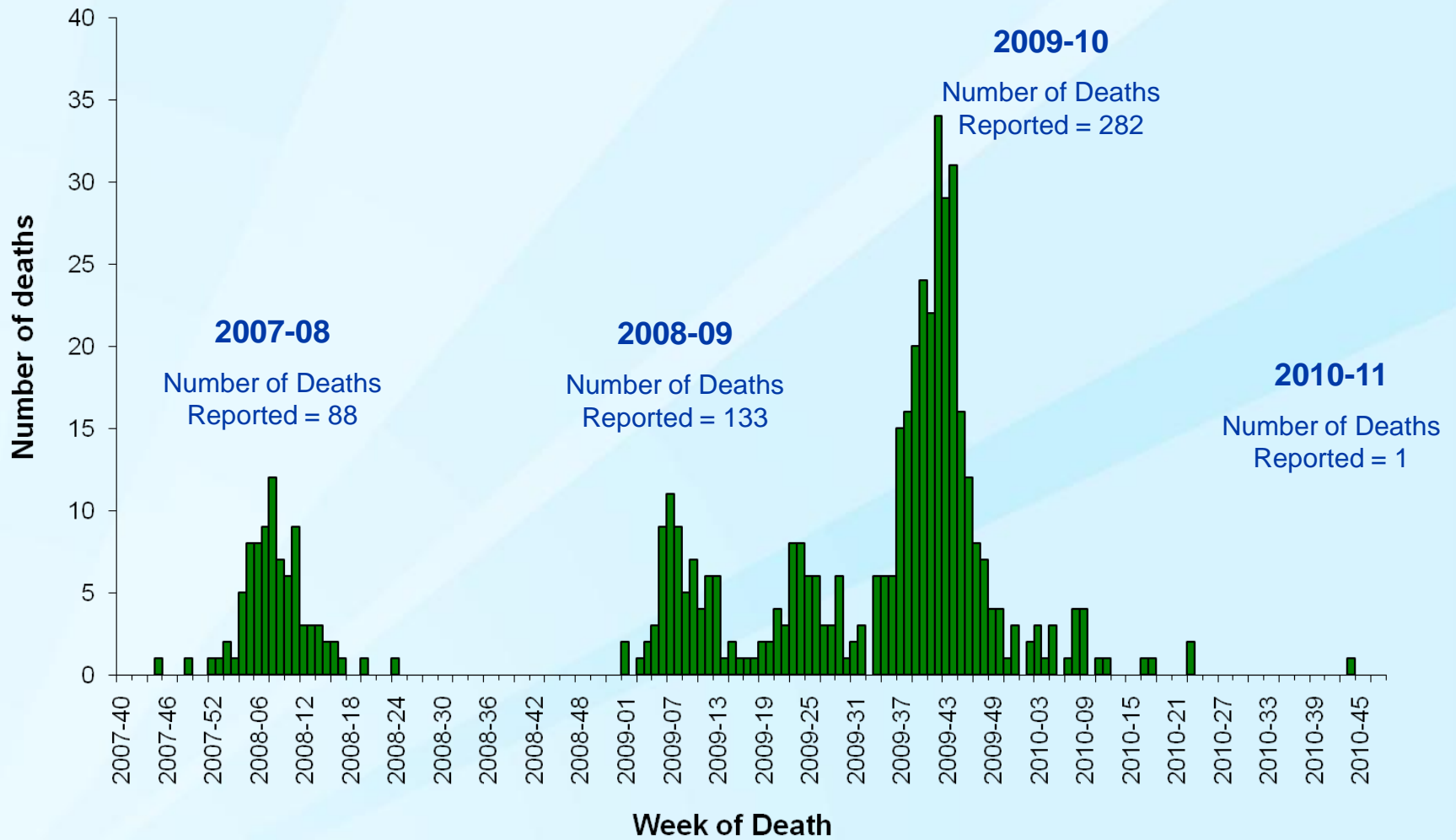
Pneumonia and Influenza Mortality

for 122 U.S. Cities

Week Ending 12/04/2010



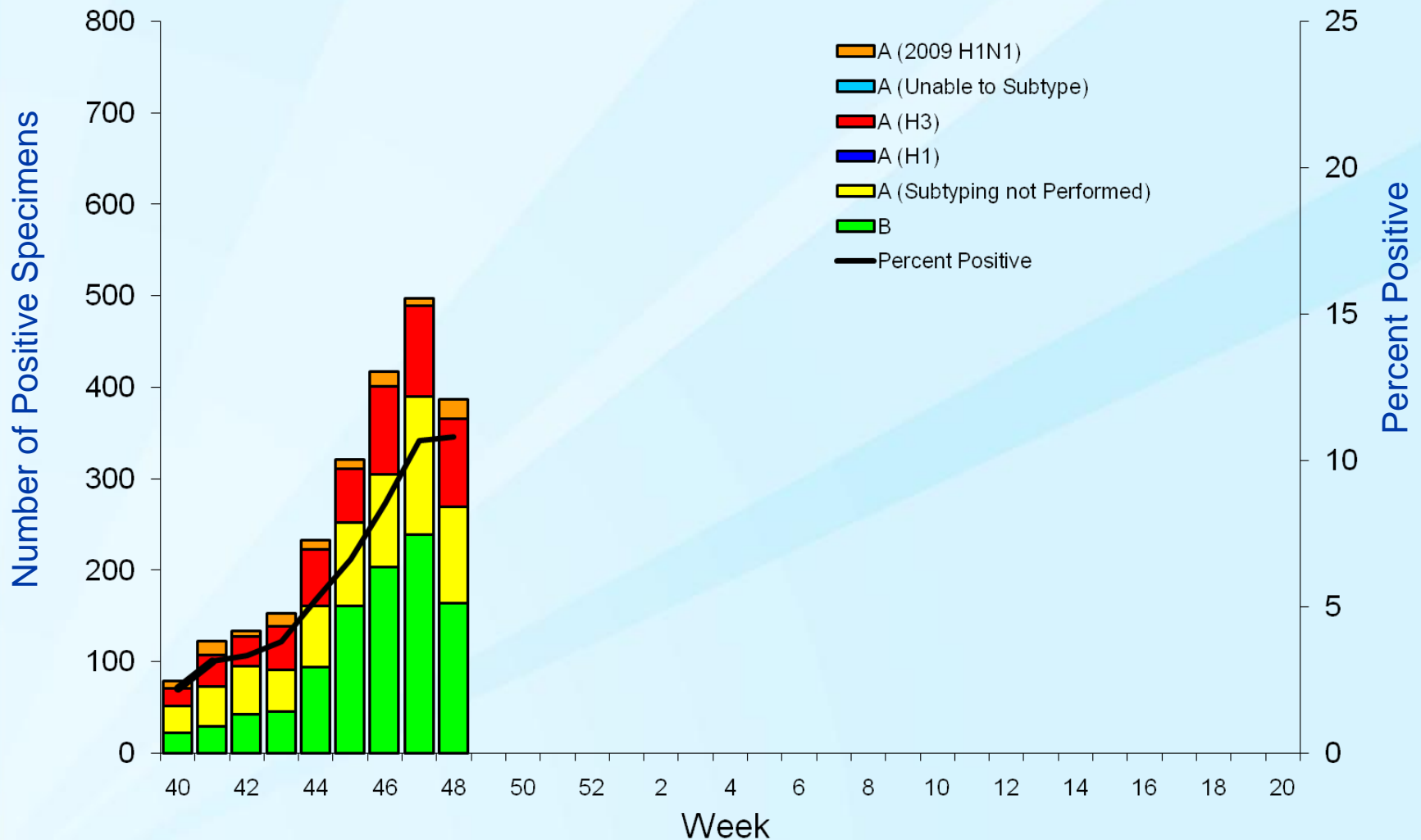
Number of Influenza-Associated Pediatric Deaths by Week of Death: 2007-08 season to present



■ Deaths Reported Previous Week

■ Deaths Reported Current Week

Influenza Positive Tests Reported to CDC by U.S. WHO/NREVSS Collaborating Laboratories, National Summary, 2010-11



Influenza Vaccine



2010-11 Trivalent Vaccine Composition

- ❑ **Annual vaccination of all persons aged 6 months and older is recommended**
- ❑ **Vaccine strains:**
 - **A/California/7/2009-like H1N1**
 - Same strain as 2009 monovalent vaccine
 - **A/Perth/16/2009-like H3N2**
 - New H3N2 strain for Northern Hemisphere
 - **B/Brisbane/60/2008**
 - Was in 2009-10 seasonal vaccine
- ❑ **Recently, 2009 H1N1, H3N2, and B virus strains have all been identified in persons in the U.S.**

Seasonal Influenza Vaccines United States, 2010-11 Season

TABLE. Influenza vaccines recommended by the Advisory Committee on Immunization Practices (ACIP) for different age groups — United States, 2010–11 season

Vaccine	Trade name	Manufacturer	Presentation	Mercury content (mcg Hg/0.5 mL dose)	Age group	No. of doses	Route
TIV*	Fluzone	sanofi pasteur	0.25mL prefilled syringe	0	6–35 mos	1 or 2†	Intramuscular [§]
			0.5 mL prefilled syringe	0	≥36 mos	1 or 2†	Intramuscular [§]
			0.5 mL vial	0	≥36 mos	1 or 2†	Intramuscular [§]
			5.0 mL multidose vial	25.0	≥6 mos	1 or 2†	Intramuscular [§]
TIV	Fluvirin	Novartis Vaccine	5.0 mL multidose vial	25.0	≥4 yrs	1 or 2†	Intramuscular [§]
			0.5 mL prefilled syringe	<1.0			
TIV	Agriflu	Novartis Vaccine	0.5 mL prefilled syringe	0	≥18 yrs	1	Intramuscular [§]
TIV	Fluarix	GlaxoSmithKline	0.5 mL prefilled syringe	0	≥3 yrs	1 or 2†	Intramuscular [§]
TIV	FluLaval	GlaxoSmithKline	5.0 mL multidose vial	25.0	≥18 yrs	1	Intramuscular [§]
TIV	Afluria [¶]	CSL Biotherapies	0.5 mL prefilled syringe	0	≥9 yrs	1	Intramuscular [§]
TIV High-Dose**	Fluzone High-Dose	sanofi pasteur	0.5 mL prefilled syringe	0	≥65 yrs	1	Intramuscular [§]
LAIV††	FluMist ^{§§}	MedImmune	0.2 mL sprayer, divided dose	0	2–49 yrs	1 or 2†	Intranasal

* Trivalent inactivated vaccine

Expected number of doses for 2010-10: approximately 160 million

Influenza Vaccine Distribution

- ❑ **Doses distributed in the U.S. as of November 26, 2010:**
 - Approximately 162.8 million doses

- ❑ **Most doses ever distributed in the U.S. in a single prior season:**
 - Approximately 114 million doses (2009-2010 season)

Rapid Testing Issues

Influenza Diagnostic Tests

Test Type	Approximate Test Time
Viral culture	3-10 days
Direct/Indirect Fluorescent Antibody Staining (DFA/IFA)	2-4 hours
RT-PCR	2-4 hours
Serology (paired specimens)	2 weeks or more
Enzyme Immunoassay (EIA)	2 hours
Rapid Influenza Diagnostic Tests (RIDTs)	10-15 minutes

Challenges in the Use of RIDTs

Factors that can influence RIDT results:

- ❑ **Timing of specimen collection**
 - Ideally as close to illness onset as possible (<5 days)
 - Viral shedding varies with age, time since illness onset, immune status
- ❑ **Source of clinical specimen**
 - Nasopharyngeal swab/aspirate; nasal swab/aspirate; throat swab; combined specimens
- ❑ **Specimen collection issues**
 - Acceptable specimen/validated specimen?
 - Some tests include swab to use (e.g. foam swab)
 - Some materials not compatible (e.g., calcium alginate swabs not recommended)
- ❑ **Time from specimen collection to testing**
 - Tested quickly or frozen/thawed and tested later?
 - Shipped to an outside laboratory?

Challenges in the Use of RIDTs

- ❑ **Sensitivity (fixed test parameter)**
 - Sub-optimal sensitivity of RIDTs (compared to RT-PCR or viral culture)
 - False negative results occur
 - Sensitivities can vary by influenza virus type (A, B), influenza A subtype, and circulating strains from year-to-year
- ❑ **Specificity (fixed test parameter)**
 - High specificity of RIDTs
 - Low frequency of false positive results can occur
- ❑ **Prevalence (variable)**
 - Major determinant of predictive values of influenza tests
 - Positive Predictive Value is highest and Negative Predictive Value is lowest during peak influenza activity
 - Negative Predictive Value is highest and Positive Predictive Value is lowest during low influenza activity

CDC Guidance Regarding RIDTs

- ❑ Listing of available FDA-cleared RIDTs with acceptable types of clinical specimens (e.g. throat, nasal, etc.)
- ❑ Recommended clinical specimens to collect and optimal period for all influenza tests
- ❑ Information on proper interpretation of RIDT results
- ❑ Empiric antiviral treatment can be started without testing or, if testing done, before results available
- ❑ **Low sensitivities of RIDTs result in many false negatives;**
 - therefore empiric treatment without use of RIDTs has been encouraged for clinical practice; do not base decisions on whether to start antiviral treatment on RIDT results
- ❑ **Start antiviral treatment as soon as possible when indicated (antivirals are most effective when initiated as early as possible)**
- ❑ If influenza testing is desired, definitive methods (e.g., RT-PCR, viral culture) are recommended

Key Messages

- ❑ **Clinical decisions regarding whether to prescribe antiviral medications should be guided by clinical and epidemiological factors**
- ❑ **If treatment is indicated, it should be initiated promptly**
 - Initiation of antivirals under these circumstances should not be delayed while awaiting results of influenza testing, if testing is done
- ❑ **Use rapid tests during influenza season if positive results will change or influence clinical management of patients with suspected influenza**
 - A positive result can be helpful to confirm influenza virus infection
 - A negative result does not necessarily exclude influenza virus infection
- ❑ **Viral culture and/or RT-PCR should be done for confirmatory testing of positive RIDT results**



**Centers for Disease Control and Prevention
Atlanta, Georgia**

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Those who participate in the COCA Conference Calls and who wish to receive CE credit/contact hours and will complete the online evaluation by **Jan 21 2011** will use the course code **EC1648**. Those who wish to receive CE credits/contact hours and will complete the online evaluation between **Jan 22, 2011** and **Jan 21, 2012** will use course code **WD1648**. CE certificates can be printed immediately upon completion of your online evaluation. A cumulative transcript of all CDC/ATSDR CE's obtained through the CDC Training & Continuing Education Online System will be maintained for each user.

Thank you for joining!

Please email us questions at coca@cdc.gov

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Influenza Preparedness in the Pediatric Population

 = Continuing Education Credits

Date: Tuesday, December 14, 2010
Time: 2:00 PM – 3:00 PM (Eastern Time)

Presenter(s):

-  **David J Schonfeld, MD**
Thelma and Jack Rubinstein Professor of Pediatrics
Director, Division of Developmental and Behavioral Pediatrics
Director, National Center for School Crisis and Bereavement
Cincinnati Children's Hospital Medical Center
-  **Henry H. Bernstein, DO, FAAP**
Professor of Pediatrics
Dartmouth Medical School
Department of Pediatrics
Children's Hospital at Dartmouth
-  **Lisa Grohskopf, MD, MPH**
National Center for Immunization and Respiratory Diseases
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