

HHS Efforts to Reduce Healthcare-associated Infections

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Advisory Committee
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Overview of Presentation

- Background on Development of Draft Plan
- Working Group Structure
- Progress of Working Groups
- Influenza Vaccination of Health-care Personnel Initiative

Impact of Healthcare Associated Infections Nationally

- HAIs account for an:
 - estimated 1.7 million infections and
 - 99,000 associated deaths each year.,
- HAIs affect 5-10% of hospitalized patients annually
- HAIs add nearly \$20 billion to healthcare costs each year

Estimated Annual Hospital Cost of HAI by Site of Infection

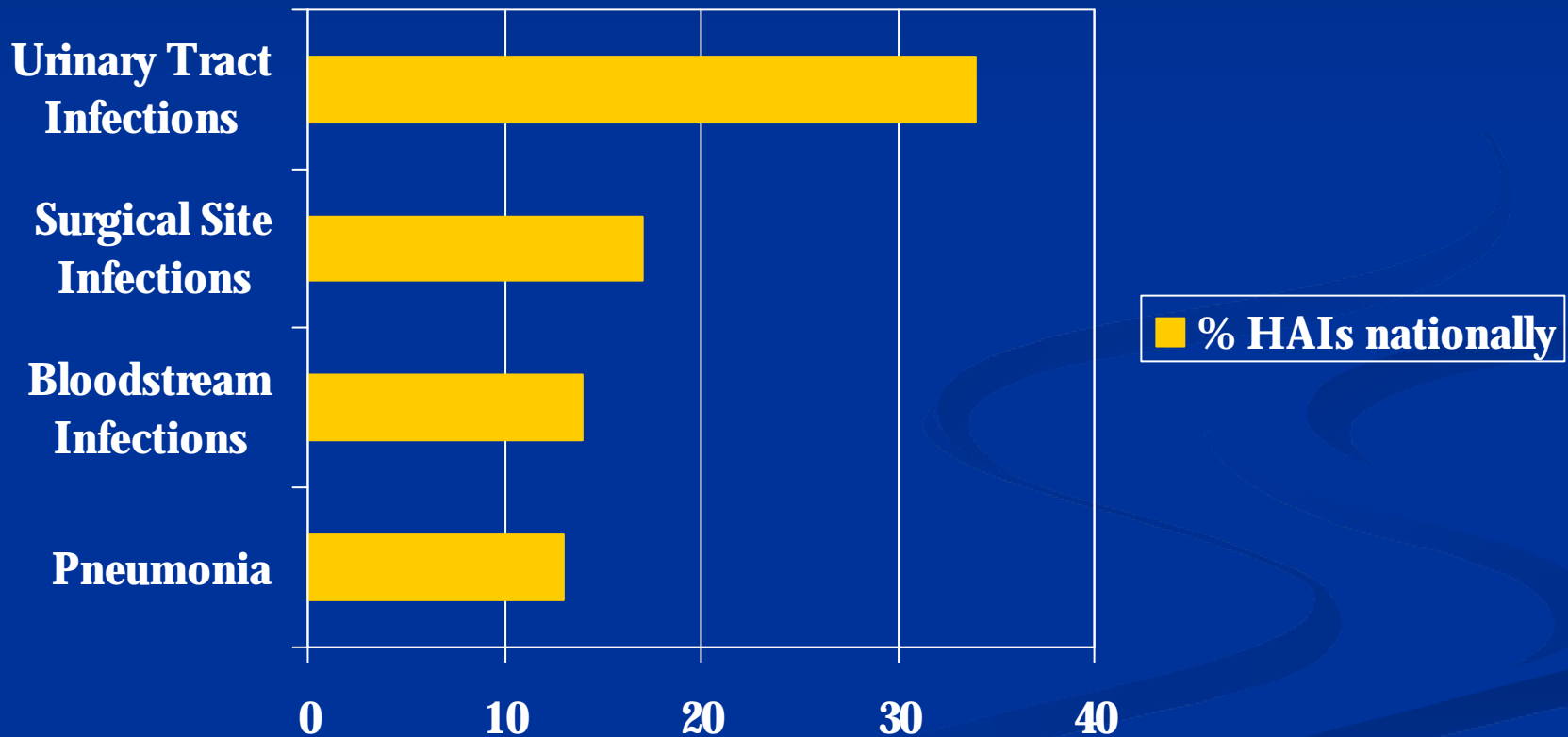
Major Site of Infection	Total infections	Hospital Cost per Infection (2002 \$)	Total annual hospital cost (in millions \$)	Deaths Per year
Surgical Site Infection	290,485	\$25,546	7,421	13,088
Central line associated-Bloodstream Infection	248,678	\$36,441	9,062	30,665
Ventilator-associated Pneumonia	250,205	\$9,969	2,494	35,967
Catheter associated-Urinary Tract Infection	561,667	\$1,006	565	8,205

Klevens RM, Edwards JR, Richards CL, Horan T, Gaynes R, Pollock D, Cardo D. Estimating healthcare-associated infections in U.S. hospitals, 2002. *Public Health Reviews* (in press)

Stone PW, Braccia D, Larson E. Systematic review of economic analysis of health care-associated infections. *Am J Infect Control* 2005;33:501-9.

Roberts RR, Scott RD, Cordell R, Solomon SL, Steele L, Kampe LM, Trick WE, Weinstein RA. The use of economic modeling to determine the hospital costs associated with nosocomial infections. *Clin Infect Dis* 2003;36:1424-32.

Leading Types of Healthcare Associated Infections



Source: *Estimating Healthcare Associated Infections and Deaths in U.S. Hospitals, 2002*
Division of Healthcare Quality Promotion, National Center for Infectious Diseases, CDC

GAO Report: HHS specific Recommendations

1. Improve central coordination of HHS-supported HAI prevention and surveillance activities
2. Identify priorities among CDC's recommended practices to:
 - Promote implementation of high priority practices
 - Consider inclusion into CMS's *Conditions for Participation*
3. Establish greater consistency and compatibility of data collected across HHS to:
 - Increase reliable national estimates

HHS Steering Committee on HAI Reduction

CHARGE: Develop a National Action Plan for Reducing HAIs. Plan will:

- Establish national goals for reducing HAIs
- Include short-term and long-term benchmarks
- Outline opportunities for collaboration with external stakeholders
- Coordinate and Leverage HHS resources to accelerate and maximize impact

Tier One Priorities

HAI Priority Areas

- Catheter associated-Urinary Tract Infection
- Central Line Associated Blood Stream Infection
- Surgical Site Infections
- Ventilator Associated Pneumonia
- MRSA
- Clostridium difficile

Implementation Focus

- Hospitals

****Tier Two will address additional HAI areas and other types of healthcare facilities**

Steering Committee Working Group Structure

Reducing
HAIs
Steering Cmte

**Prevention
And
Implementation
Lead: CDC**

**Research
Lead: AHRQ**

**Incentive
And
Oversight
Lead: CMS**

**Information
Systems
And
Technology
Co-leads: ONC
& CDC**

**Outreach
and
Messaging
Lead: OPHS**

Prevention and Implementation

Working Group Objectives

- Partner with the Healthcare Infection Control Practices Advisory Committee to prioritize existing recommended infection control clinical practices.
- Establish a “top 10” list for existing recommended guidelines.
- Identify opportunities to share best practices that result in successful HAI reductions and prevention.
- Enumerate strategies to translate prioritized guidelines into bedside care.

Working Group Lead:



Research

Working Group Objectives

- Identify gaps in existing knowledge base
- Prioritize research needs to fill knowledge gaps identified
- Develop and test interventions that utilize technology to promote HAI prevention
- Develop a coordinated research agenda to strengthen the science for infection control prevention

Working Group Lead:



Incentive and Oversight Working Group Objectives

- Explore with CMS the inclusion of specific infection control practices in their Conditions for Participation
- Explore financial incentives to enhance hospital compliance with prioritized infection control practices
- Partner with the Joint Commission, CMS, and the American Osteopathic Organization to ensure that compliance with infection control practices is evaluated in the required certification process

Working Group Lead:



Information Systems and Technology Working Group Objectives

- Establish definitional alignment and standardize measures for HAIs across agencies
- Provide guidance for developing a robust database that will measure HAIs and enable HHS to accurately benchmark progress toward HAI elimination.
- Mobilize health information systems to help reinforce appropriate patient safety practices
- Seek strategic opportunities to make varied HHS data systems interoperable

Working Group Leads: ONC and CDC

Outreach and Messaging Working Group Objectives

- Develop national initiative focused on reducing HAIs
- Explore opportunities to link HAI rates to the Secretary's Value Driven Healthcare Initiative.
- Disseminate information on HAI prevention to consumer groups to raise awareness to the issue

Working Group Lead: OPHS

Next Steps.....

- Please share your comments and ideas...send to Julie.Moreno@hhs.gov or Rani.Jeeva@hhs.gov
- Plan is undergoing Departmental Clearance
- After clearance, will be posted in the FR for public comment
- Plan to be Revised based on Comments Received
- Planned Release- Late January 2009

Influenza Vaccination of Health-care Personnel:

An HHS Initiative to Improve a Serious Public Health Problem

**Only 45 percent of U.S. health-care personnel
were vaccinated in 2007**

Impact of Influenza Vaccination of Health Care Personnel on patients

- **Over 12 years in one hospital, vaccination coverage increased from 4% to 67%**
 - **Laboratory-confirmed influenza cases among HCP decreased from 42% to 9%**
 - **Nosocomial cases among hospitalized patients decreased 32% to 0 ($p < 0.0001$)¹**
- **Three randomized controlled trials evaluated impact of HCP influenza vaccination on residents in nursing homes^{2,3,4}**
 - **They estimated 5%- 40% decrease in overall mortality among residents in the setting of high employee vaccination levels, regardless of patient vaccination levels.**

¹Salgado et al., Inf Cont Hosp Epi 2004;25:923-8

²Carman et al., Lancet 2000;355(9198): 93--7

³Potter, et al., J Infect Dis 1997;175:1—6

⁴Hayward, et al, BMJ 2006;333:1241-6

HHS Initiative for Influenza Vaccination of Health Care Personnel: Components

Two components

- Improving HHS health care employee influenza vaccination, with focus on
 - Federal Occupational Health
 - Indian Health Service
 - U.S. Public Health Service Commissioned Officers
 - NIH Clinical Center
 - CDC
- Promoting influenza vaccination to non-federal health care organizations and HCP

HHS Initiative for Influenza Vaccination of Health Care Personnel: HHS Employees

Three focus areas

- Developing office and agency specific strategies to improve HCP vaccination levels
- Measuring employee vaccination rates
- Disseminating a toolkit containing
 - Standard presentation
 - Relevant articles
 - Posters
 - Fact sheets, questions and answers
 - Vaccine information statements
 - Links to other resources
 - Toolkit is available on HHS OPHS website

HHS HCP Vaccination Toolkit

Health Care Personnel Initiative to Improve Influenza Vaccination Toolkit - Microsoft Internet Explorer

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Address <http://www.hhs.gov/ophs/programs/initiatives/vacctoolkit/index.html> Go Links

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Health Care Personnel Initiative to Improve Influenza Vaccination Toolkit

Introduction

Influenza is a contagious respiratory illness that can be easily spread through person to person contact. Influenza can cause mild to severe illness and in some cases may lead to death. Annually, between 5 percent and 20 percent of the population become ill with influenza, and on average more than 200,000 persons are hospitalized and 36,000 people die. Many professional agencies and organizations, including the Centers for Disease Control and Prevention (CDC), the National Foundation for Infectious Diseases (NFID), the Infectious Disease Society of America, and the Joint Commission on Accreditation of Health Care Organizations (JCAHCO) recommend annual influenza vaccinations for health care personnel (HCP) because of their increased risk of contracting and transmitting influenza. By being vaccinated, HCP decrease their likelihood of contracting influenza and decrease the chance of infecting others. It is imperative for HCP to set an example for the patients they serve by being vaccinated and also by being informed with the most current influenza information in order to properly educate them.

The Department of Health and Human Services (HHS) wants to improve vaccination rates amongst HCP with the goal of reaching the Healthy People 2010 objective of 60 percent vaccination rate. In 2006, vaccination rates were less than 50 percent for HCP. This objective can be achieved by partnering with other organizations to promote influenza vaccination. Therefore, this toolkit was designed to provide numerous resources for health care organizations, health care professional schools, professional health associations, and HCP leaders to gain valuable information about influenza and pass it on to their colleagues and employees. The toolkit is comprised of links to State of and education novel

<http://www.hhs.gov/ophs/programs/initiatives/vacctoolkit/index.html>

Trusted sites

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Other HHS Activities

- CDC developed a measure on HCP influenza vaccination adopted by the National Quality Forum (limited to 12 months and evaluation thereafter)
- CDC's National Influenza Vaccination Week (Dec 8-14) will feature HCP vaccination on Dec 12 in a webcast
- FDA's Patient Safety News features HCP influenza vaccination in print and video:
 - <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/psn/transcript.cfm?show=81#4>
- HRSA sent letter to all grantee Federally Qualified Health Centers encouraging HCP vaccination

HHS Initiative for Influenza Vaccination of Health Care Personnel: Outreach

HHS will also promote Influenza Vaccination of Health Care Personnel (HCP) nationwide

**Healthy People 2010 target: 60% of all HHS HCP will be vaccinated annually
By 2010**

HHS plans to partner with many other organizations to promote HCP influenza vaccination

Selected Partners include:

- American Academy of Family Physicians
- American Academy of Pediatrics
- American College of Obstetricians and Gynecologists
- American College of Physicians
- American Hospital Association
- American Medical Association
- American Nurses Association
- American Society of Health-System Pharmacists
- Association for Professionals in Infection Control and Epidemiology, Inc.
- National Black Nurses Association
- National Hispanic Nurses Association
- National Foundation for Infectious Diseases
- National Influenza Vaccine Summit
- National Medical Association
- National Hispanic Medical Association