Update on AHRQ’s Activities for Preventing Healthcare-Associated Infections

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Support research to develop improved methods for preventing HAIs: what to do

Support research to develop effective implementation strategies for HAI prevention (implementation science): how to do it

Translate research findings into tools for implementing HAI prevention

Promote implementation of HAI prevention with effective methods, strategies, and tools
HAI Prevention Research: Funding Opportunity Announcements

• HAI FOAs renewed September 2016
  ► Research (R01) and Dissemination (R18)
  ► Highlight intimate connection between HAI prevention and CARB
  ► All settings – acute care, long-term care, and ambulatory care
  ► Broad areas of research interest:
    o Efficacy and effectiveness of preventive interventions
    o Assessment of risk factors for HAIs and sources of antibiotic-resistant HAIs
Preventing HAIs: Currently Funded Research

Examples:

• Project PROTECT: Universal decolonization to reduce resistant infections in nursing homes

• Integrating personal and household environmental hygiene measures to prevent MRSA
Preventing HAIs: Implementation Research

Examples:

• Implementation of chlorhexidine bathing to reduce HAIs
• Project SMART: Implementing management strategies to reduce HAIs
  ▶ Study will culminate in development of a Management Practices Toolkit for HAI reduction
  ▶ Toolkits from AHRQ research studies exemplify translation of knowledge from research into tools for broad use, as recommended by PACCARB
Promoting Implementation of HAI Prevention

• Comprehensive Unit-based Safety Program (CUSP)
  • Improvement in:
    ► Safety culture
    ► Teamwork
    ► Communication

• Checklist of proven practices
CUSP Implementation Projects

- CUSP for CLABSI
- CUSP for CAUTI – Hospital
- CUSP for Safe Surgery – Inpatient
- CUSP for Safe Surgery – Ambulatory
- CUSP for Mechanically Ventilated Patients
- CUSP for CAUTI in Long-Term Care
- CUSP for Persistently Elevated CLABSI/CAUTI Rates in ICUs
- CUSP for Improving Surgical Care and Recovery
CUSP Implementation Projects

CUSP for CAUTI in Long-Term Care

• Completed in September 2016
• Achieved 54% reduction in CAUTI rates in over 400 nursing homes
• Toolkit to Reduce CAUTI in Long-Term Care Facilities – Released March 2017
PACCARB Recommendations: CUSP for CAUTI in LTC

• Coordination with other Agencies
  ▶ CDC and CMS staff served on the Technical Expert Panel that guided implementation of the project
  ▶ CMS and CDC staff are involved in dissemination of the toolkit

• Partnerships
  ▶ HRET, APIC, Baylor College of Medicine, SHM, U. of Michigan, State nursing home associations
CUSP Implementation Projects

CUSP for Persistently Elevated CLABSI and CAUTI Rates in ICUs

- F/U to nationwide CLABSI and CAUTI projects
- Completed recruitment of >300 ICUs across 4 HHS regions
- Tailored CUSP interventions to ICUs with persistently elevated rates
- Established project infrastructure – State Hospital Associations as coordinating entities
- Implementation of CUSP interventions ongoing
PACCARB Recommendations: CUSP for CLABSI/CAUTI in ICUs

• Coordination with other Agencies
  ► CDC and CMS are instrumental in identifying ICUs eligible for recruitment into the project
  ► CDC and CMS staff serve on the Technical Expert Panel that guides implementation of the project

• Partnerships
  ► HRET, ANA, APIC, MHA, SCCM, SHM, U. of Michigan, State Hospital Associations
CUSP Implementation Projects

CUSP for Improving Surgical Care and Recovery

• 5-year project, launched September 2016

• Promote implementation of evidence-based practices to enhance recovery, improve outcomes, and reduce complications, including SSI and CAUTI

• Currently recruiting for Cohort 1 on colorectal surgery – 150 hospitals so far

• Future cohorts planned for orthopedic, gynecologic, emergency general, and bariatric surgery
PACCARB Recommendations: CUSP
Improving Surgical Care & Recovery

• Coordination with other Agencies
  ▶ CDC and CMS staff serve on the Technical Expert Panel that guides implementation of the project

• Partnerships
  ▶ Johns Hopkins University, American College of Surgeons, Westat
New CUSP Implementation Toolkits

• Toolkit to Improve Safety in ASCs
  ▶ Tailoring the implementation of practices to improve safety in ASCs, including the Surgical Safety Checklist

• Toolkit to Improve Safety for Mechanically Ventilated Patients
  ▶ Incorporates project’s bundle of evidence-based interventions

• Toolkit for Safe Surgery – Inpatient
  ▶ Product of project that reduced SSI by 25-40%
  ▶ Release planned for later this year
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