

CUSP: Helping Teams Eliminate Preventable Harm

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Learning Objectives



- To explain the philosophy and approach of CUSP
- To describe the steps in CUSP
- To explain how CUSP relates to evidence-based efforts to improve care

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TRIP and CUSP Model



TRIP 1

- 1. Summarize the evidence
- 2. Identify local barriers to implementation
- 3. Measure performance
- 4. Ensure all patient receive the intervention
- ¹ BMJ 2008;337:963-965

CUSP ²

- 1. Educate on the science of safety
- 2. Identify defects
- 3. Assign executive to adopt unit
- 4. Learn from Defects
- 5. Implement teamwork & communication tools

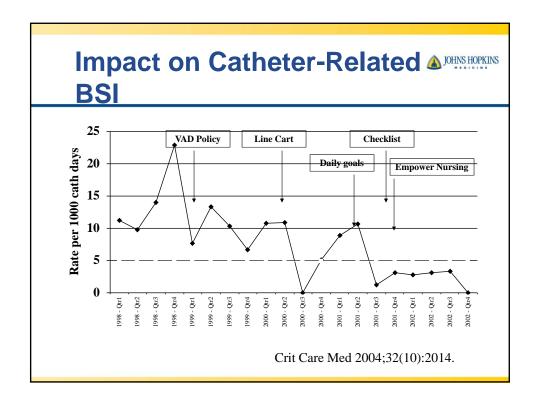
²Jt Comm J Qual Patient Saf 2010;36:252-60

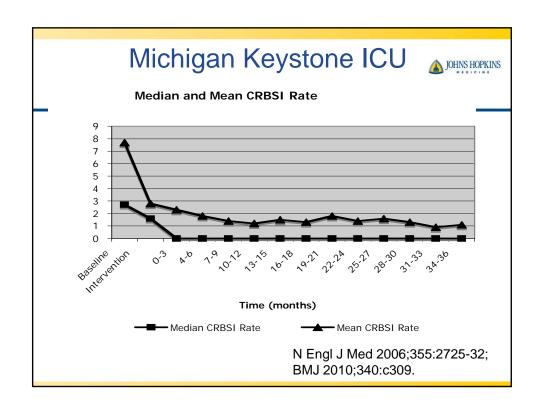
Evidence-based Behaviors to Prevent CLABSI

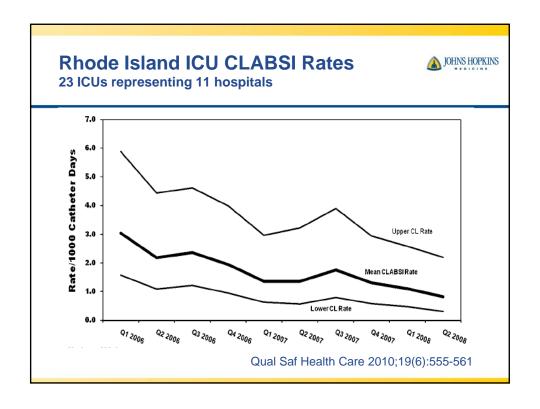


- Remove Unnecessary Lines
- Wash Hands Prior to Procedure
- Use Maximal Barrier Precautions
- · Clean Skin with Chlorhexidine
- Avoid Femoral Lines

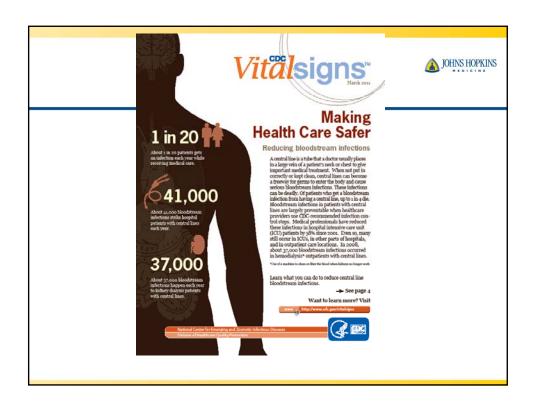
MMWR. 2002;51:RR-10

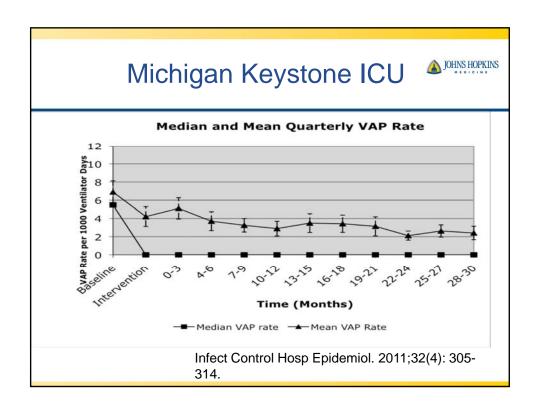










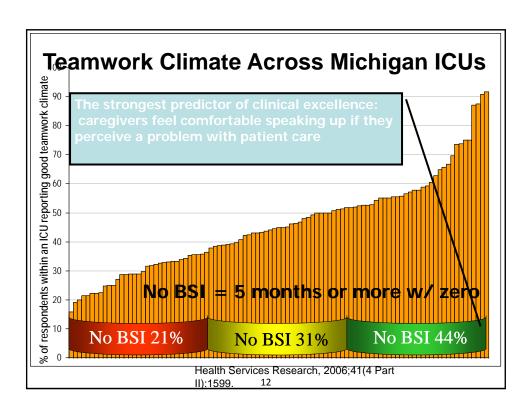


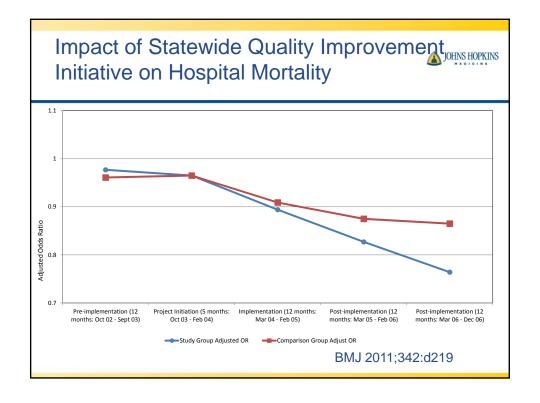
Improving Care takes technical work, and adaptive (culture) work



The safety culture of an organization is the product of individual and group values, attitudes, perceptions, competencies, and patterns of behavior that determine the commitment to, and the style and proficiency of, an organization's health and safety management.

"The Way We Do Things Around Here"





Keystone ICU project: Business Case



- 30 CLABSIs averted annually
- 18 VAP cases averted annually
- Financial benefits exceed costs of intervention
 - \$1.1 million saved per year for average hospital

Am J Med Qual. 2001;26:333-339

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Lessons Learned



- Harm is preventable
 - Majority of healthcare acquired infections are preventable; should be viewed as defect
- Focus on systems; Not individuals
- Far more complex than checklists
 - Imperative for frontline staff to be engaged and take ownership
 - Able to achieve unprecedented improvements in patient safety

Implementing CUSP is a Continuous Journey



- Add science of safety education to orientation
- Learn from one defect per quarter, share or post lessons (answers to the 4 questions) with others
- Implement teamwork tools that best meet your teams needs
- Details are in the CUSP manual

CUSP Lessons Learned



- Culture is local
 - Implement in a few units, adapt and spread
 - Include frontline staff on improvement team
- Not linear process

 - Iterative cyclesTakes time to improve culture
- Couple with clinical focus
 - No success improving culture alone
 - CUSP alone viewed as 'soft'
 - Lubricant for clinical change

CUSP CAUTI



- National Program
- HRET is national leader with MHA
- Model similar to CUSP Stop BSI
- Mid implementation ~many states already fully engaged
- Reducing CAUTI
- Reducing use of catheters
- · Improving safety culture

CUSP for Safe Surgery "SUSP"



- AHRQ Funded Surgical Safety Project~ similar to "CUSP" StopBSI and StopCAUTI programs
- 4 year project designed as National Program
- Innovations beyond past work:
 - Pronovost Co-PI with American College of Surgeons (Ko)
 - Begin with ACS NSQIP participants /complications of colon surgery
 - Ethnographic study/small cohort (Bosk,UPenn)
 - CUSP expanded toolkit for easy online upload and training
 - International Partner (WHO Patient Safety Program)

SUSP: WHO may participate



- Project is for at ALL hospitals in all states, the District of Columbia and Puerto Rico
- The FIRST group of hospitals (recruitment now) ~ NSQIP participants
 - Reason? Ability to provide baseline data and be up and running quickly
- All other cohorts will include non-NSQIP hospitals ~
- Second wave of participants: Fall 2012

What must coordinating groups do?



- State Hospital Associations, Hospital Engagement Networks (HENS), other state level coordinating groups play a key role in organizing and facilitating the work in their network hospitals
 - Recruit hospitals
 - Provide conference call line for Hopkins coaching
 - Facilitate regional/state face to face meetings or videoconferences/webinars
 - Participate in monthly coordination/improvement call with your designated Hopkins faculty leader

What must hospitals do?



- Commit to participate for 24 months
 - Letter of commitment by CEO
- Designate at least one surgery team to implement the program
 - Prefer general surgery (initial focus: colorectal surgeries)
- Allocate time so the team can do its work

What must hospital teams do?



- submit pre-launch data (readiness survey and baseline outcomes data*)
- submit a limited monthly data set
- participate in monthly project calls or webinars
- Implement the interventions (CUSP plus activities to reduce surgical complications)
- participate in biannual face to face meetings or videoconferences
- share what they learn

What must hospital teams do?



- Implement the Comprehensive Unit based Safety Program "CUSP" with specific features and applications designed specifically for the surgical setting
 - The CUSP improvement intervention was developed at Johns Hopkins by this project team, and is now widely used in projects around the world
 - CUSP is an intervention to improve teamwork, communication and facilitate behavior change

What must hospital teams do?



- Implement technical interventions to make surgery safer and to reduce surgery complications.
 - Reduce SSI
 - Briefings and Debriefings
 - Antibiotic redosing
 - CHG bathing
 - Glucose control

Hopkins/National Project Responsibilities



- National Coordination with SHAs, HENS etc
- All program content, tools, coaching
- Centralized data collection, report generation

Next Steps



- Recruit now for first cohort
- Begin Active work in APRIL
- Recruit late summer for second cohort

References



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