

Eliminating CLABSI: A Model for Reducing Preventable Harm

Dr. Peter Pronovost, Johns Hopkins University
 Teleclass Sponsored by Virox Technology Inc (www.virox.com)

Eliminating CLABSI:
 a model for reducing preventable harm

Peter Pronovost, MD, PhD, FCCM
 Johns Hopkins University

Hosted by Julie Storr
 Vice President, Infection Prevention Society
 WHO Project Manager, African Partnerships for Safety

2011
 TELECLASS EDUCATION
 TEN YEARS
 ANNIVERSARY

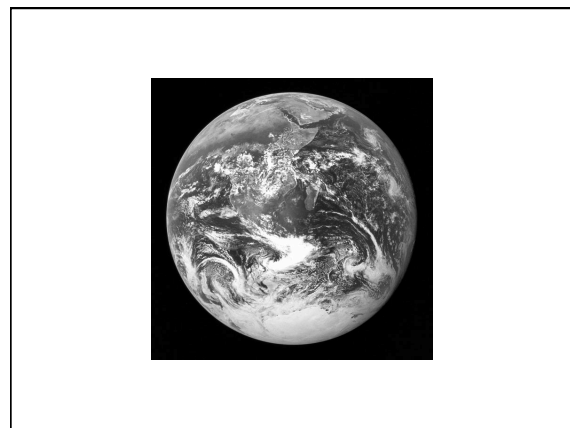
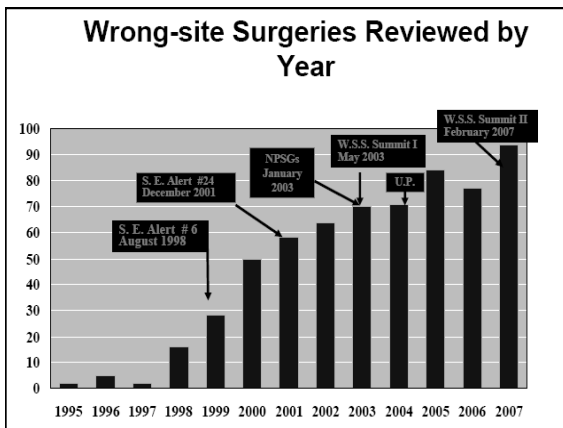
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I Will ...

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Improving Care

CUSP	Translating Evidence Into Practice (TRIP)
1. Educate staff on science of safety	1. Summarize the evidence in a checklist
2. Identify defects	2. Identify local barriers to implementation
3. Assign executive to adopt unit	3. Measure performance
4. Learn from one defect per quarter	4. Ensure all patients get the evidence
5. Implement teamwork tools	<ul style="list-style-type: none"> • Engage • Educate • Execute • Evaluate

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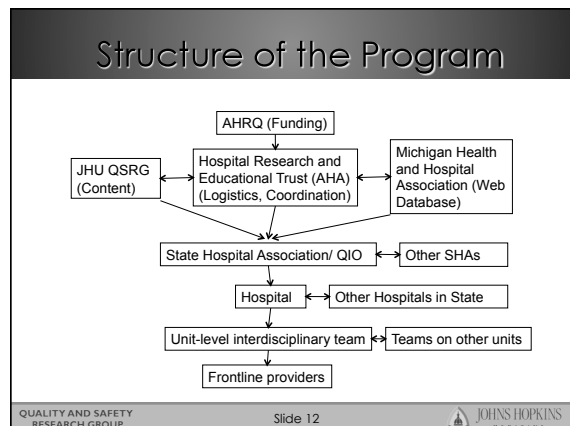
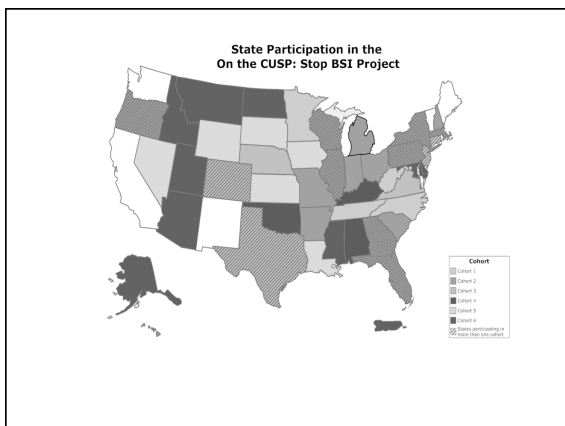
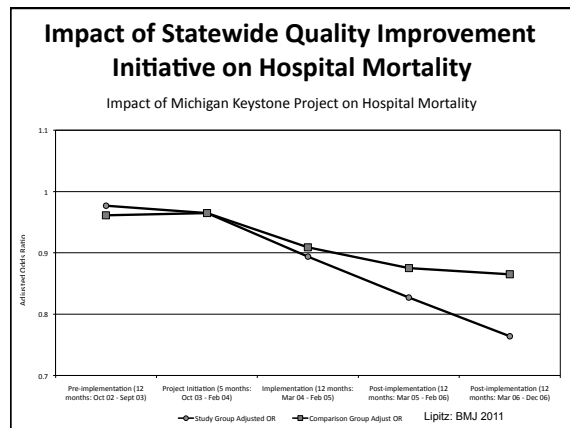
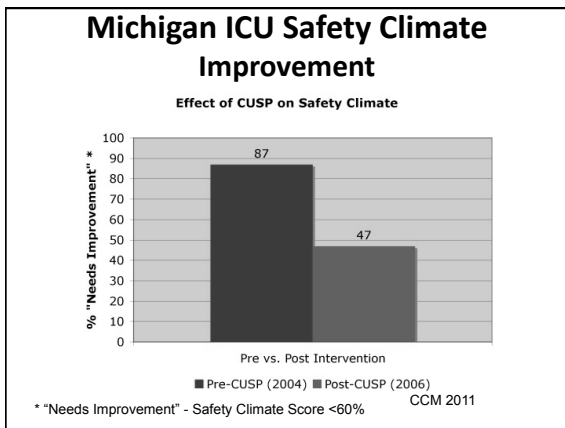
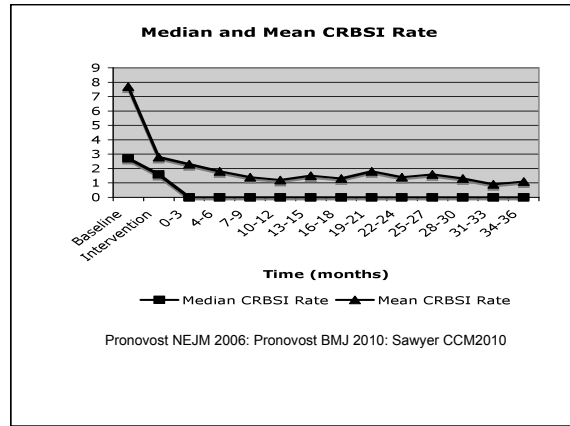
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Chain of ownership

	Senior leaders	Team leaders	Staff
Engage	<i>How does this make the world a better place?</i>		
Educate	<i>What do we need to do?</i>		
Execute	<i>What keeps me from doing it?</i>		
	<i>How can we do it with my resources and culture?</i>		
Evaluate	<i>How do we know we improved safety?</i>		

Pronovost: Health Services Research 2006

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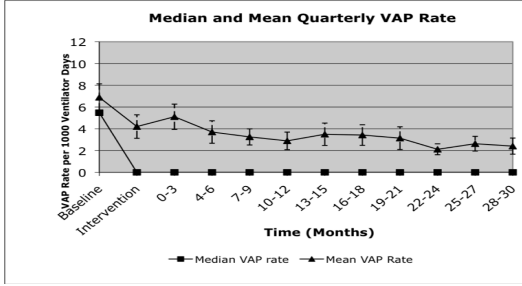
Fractal-

- A fractal is the same geometric pattern repeated in different sizes and shapes.
- Each piece is part of the whole.



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Michigan Keystone ICU



Median and Mean Quarterly VAP Rate

Infect Control Hosp Epidemiol 2011;32(4):ePub

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Getting to 0 in a Hospital

- CEO commits to 0
- ICU leaders accountable, know rates, commit to 0
- ICU makes it easy to comply with checklist
- ICU empowers nurses to ensure compliance
- ICU reviews every infection as a defect
- ICU standardizes, audits, and improves catheter maintenance
- ICU posts and discuss infection rates weeks without an infection

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Why Did This Work

- Started with goal and worked backwards
- Kept score with measure clinicians believed valid
- Guided by science, phase 1, 2, 3
- Committed to collaborate
- Modified locally to fit context
- Focused on adaptive work
- Framed CLABSI as a social program capable of being solved
- Created a community

Laws and the enforcement of laws, important though they are, can never substitute for the character of the citizens themselves
Teddy Roosevelt

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Lessons about checklists

- View checklists as one component of a broader intervention (TRIP model to identify barriers)
- Link checklists in time and space
- Reduce ambiguity
- Get ground truth
- Encourage local adaptation

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COMING SOON ...	
14 June 11	(Free 10 th Anniversary Teleclass) Reducing the Spread of Pathogens by Environmental Surfaces in Healthcare: Have We Advanced in the Last 10 Years? Speaker: Prof. Syed S. Sattar, Centre for Research on Environmental Microbiology, University of Ottawa Sponsor: Virox Technologies Inc (www.virox.com) and Diversey Inc (www.diversey.com)
15 June 11	(South Pacific Teleclass) Pandemic, Public Health and Emergency Care: Contemporary Trends and New Challenges for Infection Control and Infectious Diseases Speaker: Prof. Ramon Shabam, Griffith University, Australia
21 June 11	(Free WHO Teleclass – South Pacific) Establishing an Infection Control Program for Acute Respiratory Infections and Ensuring Pandemic Preparation Speaker: Prof. Wing Hong Seto, Queen Mary Hospital, Hong Kong Sponsor: World Health Organization First Global Patient Safety Challenge: Clean Care is Safer Care (www.who.int/gpsc/en)
23 June 11	Ventilator-Associated Pneumonia: Epidemiology, Diagnosis, and Prevention Speaker: Dr. Lennox Archibald, University of Florida
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