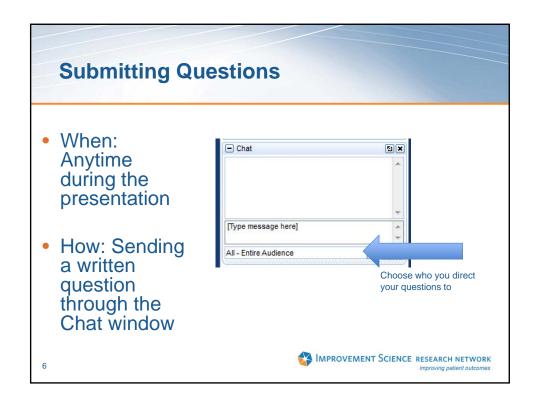


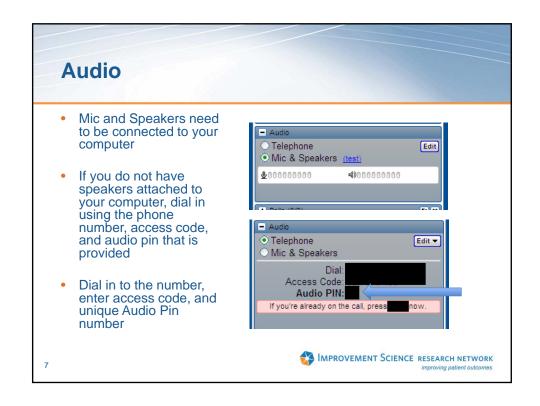
About our Web Seminar

- For help, notify the ISRN Coordinating Center through the Questions window
- Problems with slides?
 - Refresh your screen, or
 - Log off and log back into the web seminar
- Log in to the member center to access the Archived Presentation (Will be available by the end of the week)

This seminar is supported in part by a grant from the Dean's Scholarly Project Award Program: Scholarship of Teaching Award from the University of Texas Health Science Center San Antonio School of Nursing.

IMPROVEMENT SCIENCE RESEARCH NETWORK improving patient outcomes





Presenters



Kathleen R. Stevens, RN, EdD, ANEF, FAAN Professor and Director Academic Center for Evidence-Based Practice Improvement Science Research Network



Eileen P. Engh, MSN, RN-BC, CPN

Manager of Nursing Research and Development Programs,
Department of Nursing Research and Quality Outcomes
Children's National Medical Center in Washington D.C.
ISRN STAR-2 Network Study Site PI





How Do We Know if an Improvement Strategy Works?

What work factors prevent medication errors? Orange vests





What impact does improved team performance have on patient safety?

TeamSTEPPS training



Gaps in Improvement Science

- Capacity
- Teams
- Infrastructure
- Research Methods

IMPROVEMENT SCIENCE RESEARCH NETWORK improving patient outcomes

Improving our work... is our work.

Cathy Rick Chief Nursing Services Officer Veterans Health Administration ISRN Steering Council

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Improvement Science Research Network

Aim -

- Accelerate development and dissemination of improvement science in systems and microsystems contexts
- Provide a large-scale network as a test bed for improvement studies





Mission

ISRN mission is to

- increase the scientific foundation of healthcare quality improvement, safety, and efficiency
- through transdisciplinary research focused on
- healthcare systems, patient-centeredness, and integration of evidence into practice.



Progress of the ISRN

- Developed Stakeholder-based Research Priorities
- Established the ISRN Steering Council
 - 14 nationally acclaimed experts
 - Monthly advisory meetings since December 2009
- · Completed building our cyber-infrastructure
- Initiated vibrant communication & community engagement venues
- Engaged 200+ member affiliates- test bed
- Convened research methods conferences July 2010; June 2011 (AHRQ-R13 funded); July 2012
- · Launched three multi-site Network Studies—"the test flight"



Research Strategies

...and a star to steer her by

- MATCH
 - Research priorities
- RIGOR
 - Rigorous research studies
- RELEVANCE
 - Partners engage in improvement studies
- LANDMARK
 - Multi-site landmark studies
- VIRTUAL
 - Collaboration through a cyber infrastructure
- SYNERGY
 - Shared capacity





Project Strategies

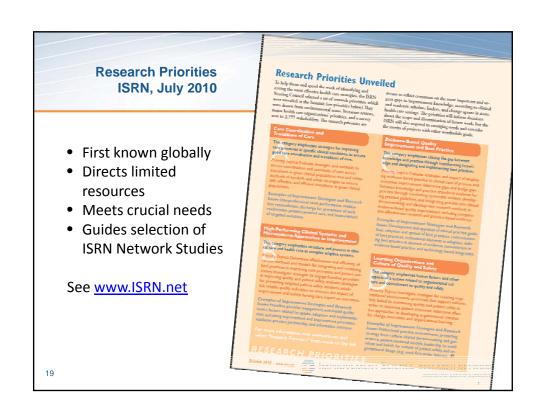
...and a star to steer her by

Research Priorities









Improvement Research Priorities

- A. Coordination and Transitions of Care
- B. High Performing Clinical Systems and Microsystems Approaches to Improvement
- C. Evidence-Based Quality Improvement and Best Practice
- D. Learning Organizations and Culture of Quality and Safety





Definition

Collaboratory

Center without walls in which scientists clinicians and academicians—can work together regardless of physical location.

Features:

- Spans distance
- Supports rich human interaction
- Oriented to a common research area
- Access to data sources and tools

Olson, Zimmerman, & Bos, 2008

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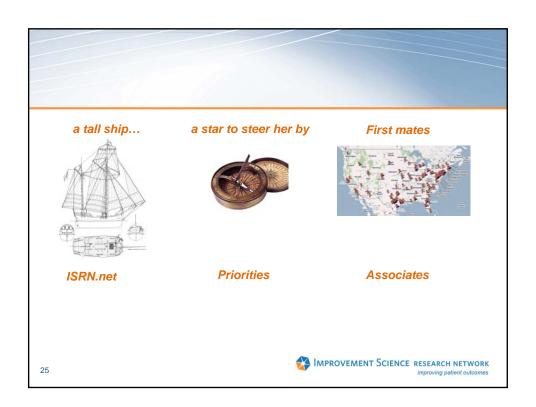


Why a Collaboratory for Improvement Science

- Complex scientific problems—beyond the realm of single discipline or single scientist
- Collaboration increases quality of research
- Information and Communication Technologies-now cost-effective and reliable







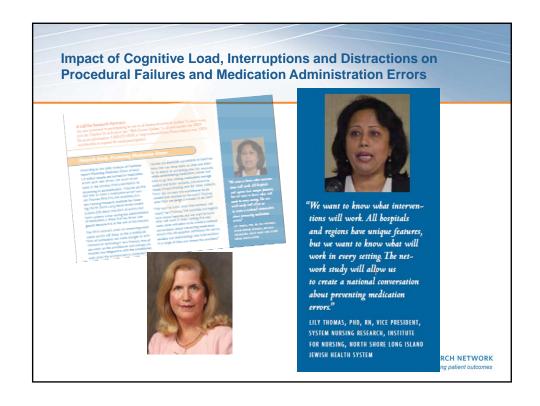


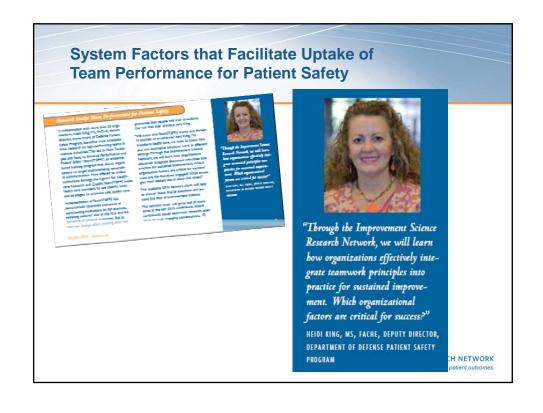




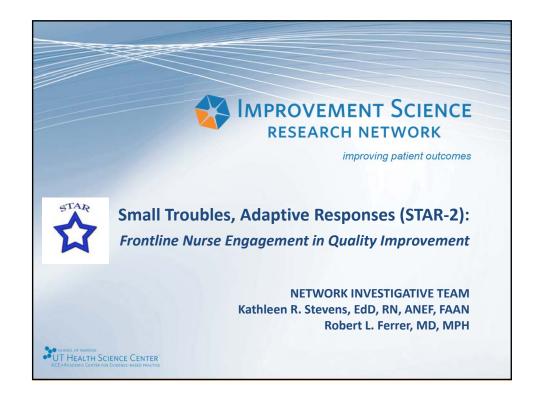
NETWORK STUDIES *Addressing the ISRN Priorities*













Research Problem

In frontline nursing, workarounds are a response to first order operational failures exposing patients to errors and creating inefficiencies in care.



Example: Missed Learning Opportunities

"We never told the pharmacy when we got a dose of medicine that was more than we requested. We just squirted out the extra because we figured they were busy, they had not intended to make the mistake, and they wouldn't do anything about it anyway."-Nurse Hosp #8

Tucker, 2008

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Example: Missed Learning Opportunities

- "...It was sad really because we weren't letting them have the information so they could fix their own problems."
 - Nurse Hosp #8

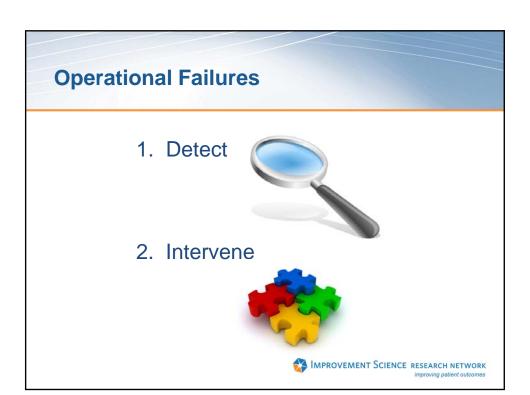
Tucker, 2008

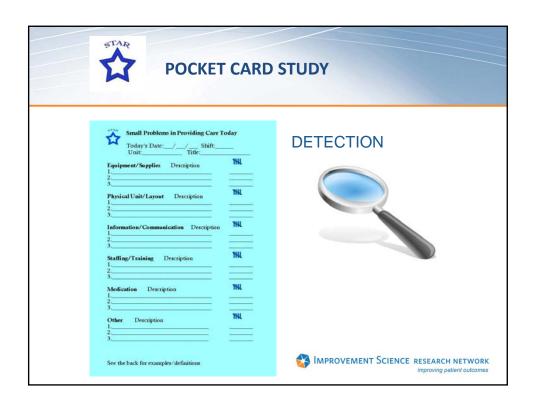


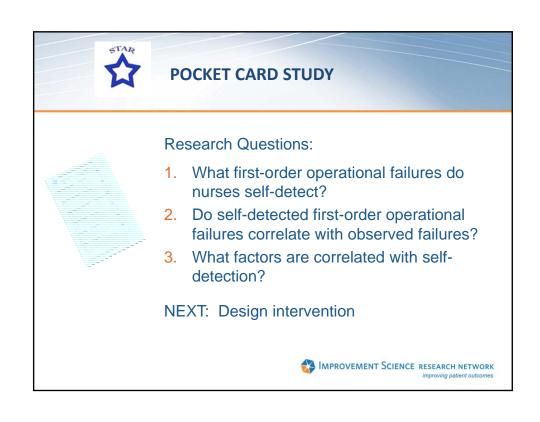
What We Know

- Failures occur about one per hour per nurse on hospital units and 95% of problems are managed through workarounds. (Observational, Tucker)
- Detection of first order operational failures provides opportunities to fix problems and contributes to organizational learning.

IMPROVEMENT SCIENCE RESEARCH NETWORK















Casting On:



- Meeting Dr. Stevens and Discovering the Improvement Science Research Network
- Becoming a Research Associate Member
- Making the Case to include Pediatrics
- Announcement of the STAR-2 Study
- Preparing a Letter of Intent







The Synergy of Collaboration:

- The Practicality of Generating New Knowledge
- How to Use New Knowledge
- The Outcomes of Using New Knowledge
- What it Takes to Conduct a Study





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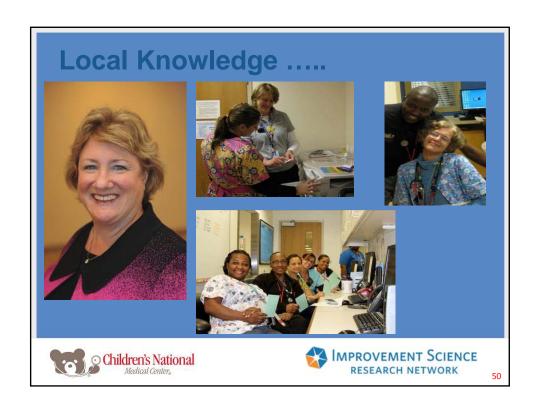
Practical Benefits

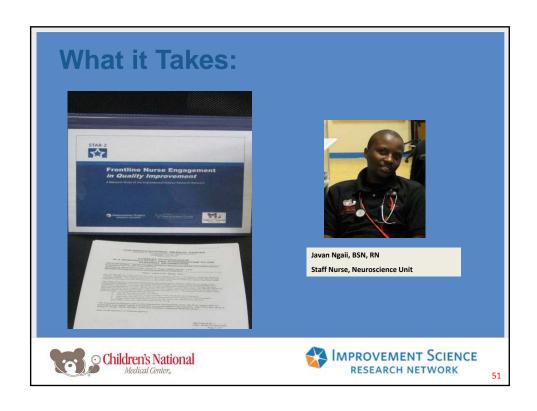
- Rigorous Research Plan
- The Protocol Implementation Tool Kit
- Webinars
- Telephone Consultation
- Expert Guidance
- Collaboratory Progress Meetings
- Technical Protocol
 Implementation Guidance













Questions and Comments



Kathleen R. Stevens, RN, EdD, ANEF, FAAN
Professor and Director
Academic Center for Evidence-Based Practice
Improvement Science Research Network



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Next ISRN Web Seminar



Transitions in Care

June 27, 2012 1:00 PM CST

Visit www.ISRN.net to register.

Mary D. Naylor, PhD, FAAN, RN

Marian S. Ware Professor in Gerontology Director of the New Courtland Center for Transitions and Health University of Pennsylvania School of Nursing



Closing Remarks

- ISRN Mission
 - To enhance the scientific foundation for quality improvement, safety, and efficiency through transdisciplinary research addressing healthcare delivery, patient-centeredness, and integration of evidence into practice.
- For information on the ISRN or to become a member please visit our website: www.lmprovementScienceResearch.net



