The Pursuit of Zero Harm – Introducing High Reliability Concepts to Community Health Centers

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David Grazman, PhD

Center Business Development Director



Speaker Information



- Dr. David Grazman joined the Center for Transforming Healthcare leadership team in 2016 to oversee broad adoption of the Center's High Reliability offerings including the Oro[™] 2.0 assessment, as well as Robust Process Improvement[®] (RPI [®]) program building and training.
- 20+ years focused on healthcare systems strategy, provider management and clinical operations across a variety of care settings (hospitals, behavioral health, home care, FQHCs) as an administrator, a consultant, and an academic researcher.

Today's Objectives

- Introduce you to Joint Commission Center for Transforming Healthcare and how it can inspire FQHCs to think about and prepare for Zero Harm for their patients and clients.
- Explain the basic concepts of high reliability and high reliability healthcare – leadership commitment, safety culture and robust process improvement (RPI[®]).
- Explore the components of RPI and how they start to drive an improvement culture within an organization
- 4. An Introduction to the Center's free "Targeted Solutions Tools"-- and how they can help you get to Zero Harm.



One Shared Vision









All people always experience the safest, highest quality, best-value health care across all settings

Leading the Way to Zero™



Disclaimers





What does it look like?



LEADING the way to **ZERO**™

- Zero patient falls
- Zero complications of care
- Zero hospitalassociated infections
- Zero patient safety events of any kind
- Zero harm to employees and visitors
- Zero lost opportunities to provide exemplary care

Improving Patient Care



Zero Harm: An Achievable Goal

The essential role of high reliability is solving quality and safety problems.

Imagine a day of zero harm. What would that look and feel like at your healthcare organization? Zero patient falls, zero complications of care, zero healthcare-associated infections and zero patient safety events of any kind. Zero harm also means zero harm to employees and visitors, and zero lost opportunities to provide exemplary care.

It's clear that if we want substantially better results in healthcare, we need a different approach to improvement. High reliability is that different approach.

I often hear from leadership and staff

dramatic, as the average compliance across all of MHHS' hospitals improved from 58 to 96 percent. In addition, one hospital received the system's Certified Zero Award for having no central line-associated blood stream infections for 12 months. And, five hospitals had no cases of ventilator-associated pneumonia during that same year.

Cincinnati Children's Hospital Medical Center also has made significant improvements. The hospital reduced serious patient safety events by 80 percent and lost time days by 83 percent. And, it continues to drive down injury and illness rates among employees. These results were achieved by a high degree of board engagement and a number of organizationwide safety initiatives, including the incorporation of safety

continue to harm patients despite our best efforts to stop them.

It's clear that if we want substantially better results in healthcare, we need a different approach to improvement. High reliability is that different approach. It is not a one-time project. It is not a buzzword. It is about transforming organizations so that zero harm is the natural byproduct of the way we care for patients every day.

High reliability describes organizations and industries that maintain extraordinarily high levels of quality and safety over long periods of time with no or extremely few adverse or harmful events, despite operating in very hazardous conditions. In healthcare, high reliability means that care is consistently excellent and safe across all services and settings.

What does it look like at an FQHC?



- Zero ii
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- Zero ii hando
- Zero s
- Zero h
- Zero n

Harm at an FQHC is really not all that different from harm to patients in any other type of care setting.

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LEADING the way to **ZERO**™



Typical Healthcare Improvement

- Usual approach: best practices, toolkits, protocols, checklists, "bundles"
 - Typical best practice is "one-size-fits-all"
 - Can produce modest improvement
 - Difficult to sustain, harder to spread
- The "one-size-fits-all" approach works well only for simple problems that do not vary
- Toughest problems are not simple



Current State of Improvement

- We have made some progress
 - Project by project: leads to "project fatigue"
 - Satisfied with modest improvement
- Current approach is not good enough
 - Gains hard to achieve, difficult to sustain
 - They are even harder to duplicate (spread)
- High reliability offers a different approach
 - The goal is much more ambitious
 - High reliability is not a project

for Transforming Healthcare

Why embark on a high reliability journey?







What is High Reliability? How does this impact FQHCs?

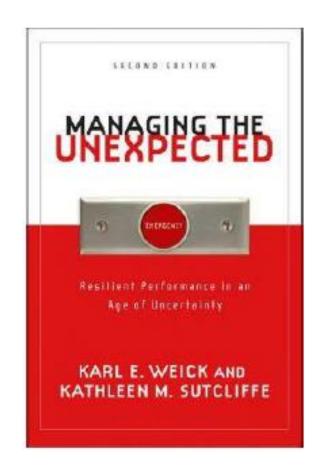
5 Principles of High Reliability Organizations

Anticipation – "Stay Out of Trouble"

- 1. Preoccupation with failure
- 2. Reluctance to simplify
- 3. Sensitivity to operations

Containment – "Get Out of Trouble"

- 4. Commitment to resilience
- 5. Deference to expertise





High Reliability Industries









Transform health care into a high-reliability industry



How Have Others Done It?

- "High reliability organizations" manage very serious hazards extremely well
 - Excellent at process improvement
 - Have created and maintained fully functional, selfregulating safety cultures
 - Discover and fix unsafe conditions early
- In health care, we most commonly react after patients are harmed. We find it hard to commit to a process improvement methodology that isn't quick and easy. We still feel that making a mistake warrants discipline.



Translating High Reliability Into a Health Care Setting



High-Reliability Health Care: Getting There from Here

MARK R. CHASSIN and JEROD M. LOEB

The Joint Commission

Context: Despite serious and widespread efforts to improve the quality of health care, many patients still suffer preventable harm every day. Hospitals find improvement difficult to sustain, and they suffer "project fatigue" because so many problems need attention. No hospitals or health systems have achieved consistent excellence throughout their institutions. High-reliability science is

Milbank Q 2013;91(3):459-90

Key Points:

- Despite efforts to improve the quality of care, patients still are suffering harm.
- Improvement is hard to sustain or spread, and "project fatigue" is rampant.
- Consistent excellence is still evasive.
- High-reliability science offers insights from other industries.
- Those insights can be adapted and applied to health care to enable hospitals to reach comparable levels of safety and quality.



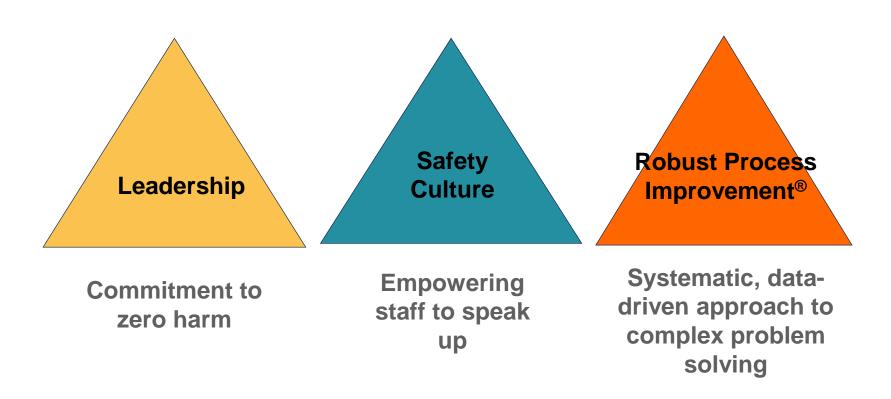
LEADING the way to **ZERO**™

High reliability in healthcare is "maintaining consistently high levels of safety and quality over time and across all health care services and settings"

Chassin & Loeb (2013)



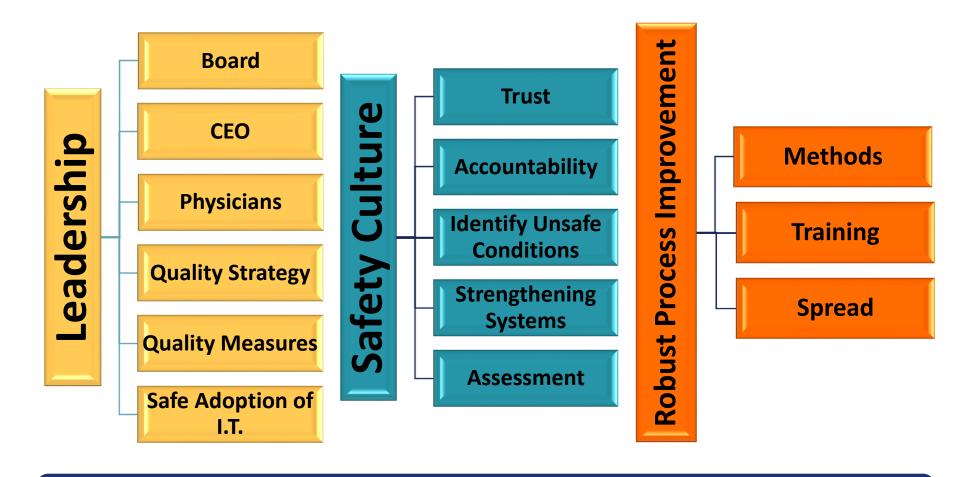
High Reliability Health Care Model



Chassin MR, Loeb JM. High-Reliability Health Care: Getting There from Here. *Milb* Q 2013;91(3):459-90



Areas of Performance



Stages of Maturity: Beginning → Developing → Advancing → Approaching



Characteristics of "Leadership"

Leadership

- Board commitment to goal of high reliability for all clinical services, with management aligned
- Management aims for zero patient harm for all clinical processes over long periods of time
- Quality (and therefore safety) is the highest priority strategic goal in the organization
- Clinicians routinely lead process improvement activities in and participate in incident reporting
- Key quality indicators understood widely and shared internally and displayed publicly



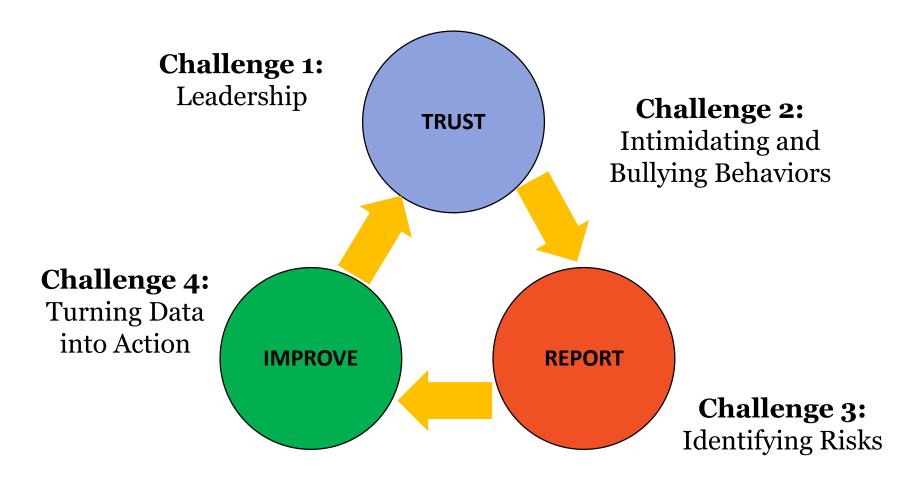
Characteristics of "Safety Culture"

Safety Culture

- High levels of (measured) trust exist in all clinical areas and self-policing of codes of behavior are in place
- All staff recognize and act on their personal accountability for maintaining a culture of safety.
- Full adoption of equitable and transparent disciplinary procedures – "just culture"
- Close calls and unsafe conditions are routinely reported, leading to early problem resolutions
- System defenses are proactively assessed and weaknesses are proactively repaired



Exploring Safety Culture



Adapted from: Reason J and Hobbs A. Managing Maintenance

Error: A Practical Guide. Ashgate. 2003.

Joint Commission Center for Transforming Healthcare



Robust Process Improvement® or RPI® Growing Your Capacity for Improvement

Why RPI®?

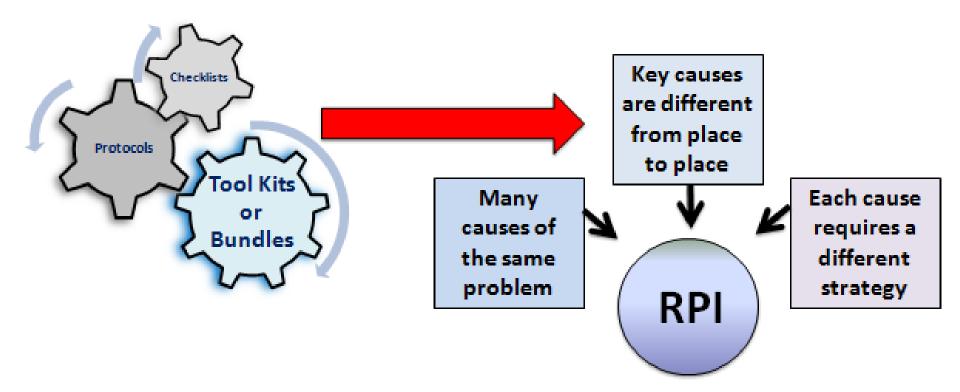
Usual Approaches

One-size-fits-all works well only in limited circumstances

- Process varies little from place to place
- Causes of failure are few and common

New Generation of Best Practices

Complex processes require RPI to produce solutions that are customized to an organization's most important causes.



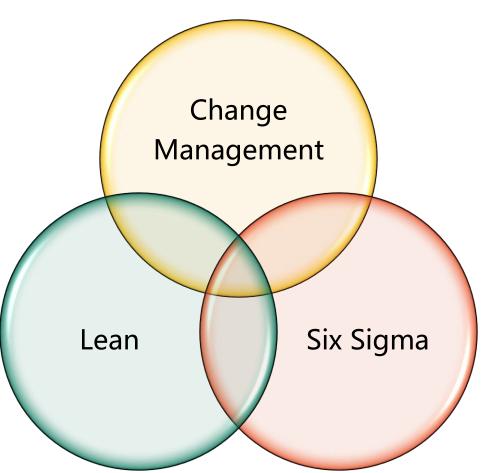


Causes Differ by Site

Main Causes of Failure to Clean Hands (across all participating hospitals)	A	В	С	D	E	F	G	н
Ineffective placement of dispensers or sinks		x		x	x		ж	x
Hand hygiene compliance data are not collected or reported accurately or frequently	ж	x		x	x			ж
Lack of accountability and just-in-time coaching	C	x	x	×	x		x	х
Safety culture does not stress hand hygiene at all levels	C		×	×	x	×		х
Ineffective or insufficient education		x	x	x	ж		x	
Hands full	х	x	x	x	x		x	
Wearing gloves interferes with process	х	x	х	x			х	
Perception that hand hygiene is not needed if wearing gloves	x		x	x	x		x	x
Health care workers forget	x	×		x			х	
Distractions	х	x				ж	х	

Note that not all of the main causes of failure appear in every hospital. The chart above represents the validation of the root causes across hospitals. This underscores the importance of understanding hospital-specific root causes so that appropriate solutions can be targeted.

What is Robust Process Improvement®?





RPI® is a **blended** set of strategies, tools, methods, and training programs—including **Lean, Six Sigma, and Change Management**—that is used to improve business processes and clinical outcomes.

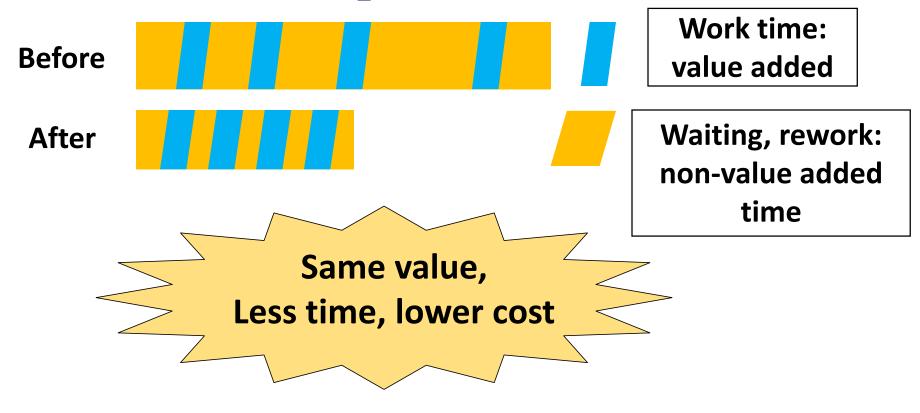


What is Lean?

- <u>Philosophy</u>: continuous improvement of processes through employee empowerment
- Teaches us to view our processes from the customer's perspective—in value streams
- <u>Tools</u>: to increase value and improve flow by eliminating steps in processes that represent pure waste
- Waste increases cost, produces no value
- All unexamined processes have waste; often as much as 50% of time and effort is waste



Lean Process Improvement



Business Improvement Eliminate Waste + Improve Outcomes





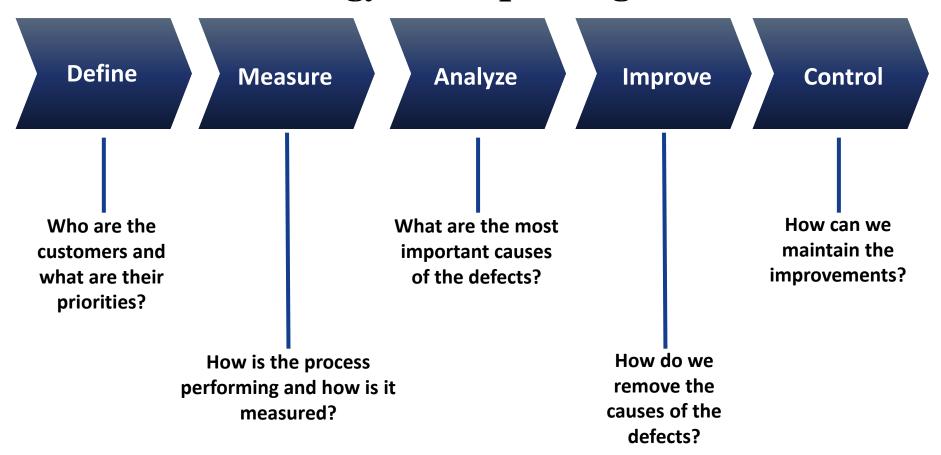
What is Six Sigma?

- Philosophy underlying six sigma helps us to think about quality differently
- Six sigma = accuracy and variation
- Six sigma measures bad outcomes as "defects per million opportunities"
- 1% rate of bad outcomes = 10,000 defects per million
- It gives us tools and a way to think about getting to <u>zero</u> <u>harm</u>: the high reliability goal



Six Sigma

A Methodology for Improving Processes





Lean and Six Sigma

- Lean empowers employees to identify and act on opportunities to improve processes
- Lean tools increase value by eliminating steps in processes that represent pure waste
- Six sigma improves outcomes of processes by identifying and targeting causes of failure
- Together they are a systematic, highly effective toolkit for process improvement



Lean and six sigma routinely produce 50%+ improvement

But, then, why do improvement efforts fail so often?

Failures occur when people don't easily accept, or even resist, good solutions regardless of their intentions.





Technical Solution is Not Enough

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Change management is the rocket science of improvement

 Change management = a systematic way to implement and sustain good solutions



Changing Behavior is *Hard*

"Process improvement in healthcare isn't rocket science. It's actually much more difficult than that because rocket science involves getting <u>machines</u> to behave as you want them to. With process improvement, you have to change the behavior of people."



Dr. Chassin
President, The Joint Commission



Change Management: Facilitating ChangeTM





RPI® in Health Care Today

- An increasing number of health care organizations and systems use one or more of the RPI toolsets
- RPI is used differently by different organizations:
 - Most use only some of the parts; change management is most often left out
 - Most limit training to small group
 - Most do not use it to transform
- Compelling business case for RPI (though it's often missed)



Best Practice: Building an RPI® Program

- Commitment to widespread use of the full Robust Process Improvement methodology and tools – common language and methods for improvement
- Training a significant proportion (if not all) of employees
- Experts "seeded" throughout the organization
- Leadership fully engaged
- Building Improvement Capacity/Culture





Guided Robust Process Improvement Accessing the Targeted Solutions Tools

Targeted Solutions Tools (TST)

- Web-based tools: secure extranet channel
 - Available to all accredited customers now
 - No added cost, voluntary, confidential
 - Available to non-accredited organizations for fee
- Accessible through JC Connect or the Center's Website
- Educational, no jargon, no special training
- Coaches available to guide users to solutions
- Targeting only <u>your</u> causes means you don't use resources where they aren't needed











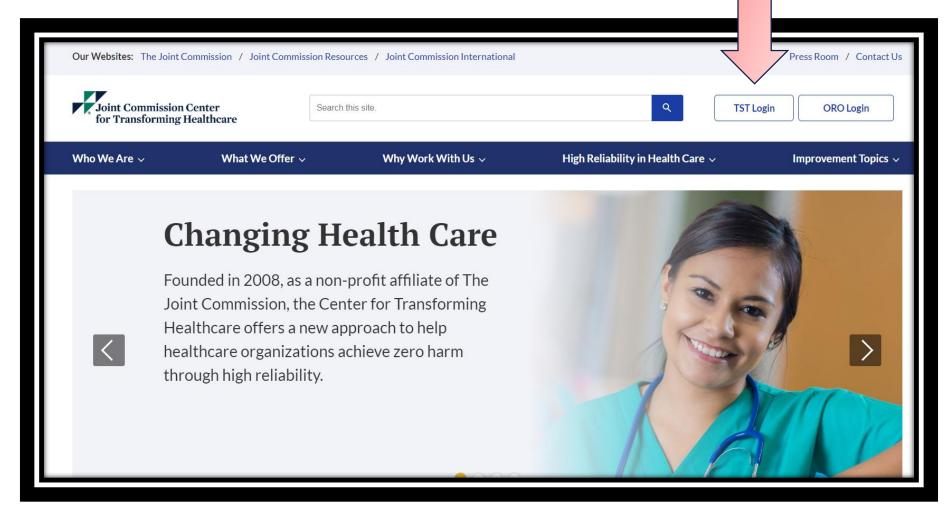


In Development



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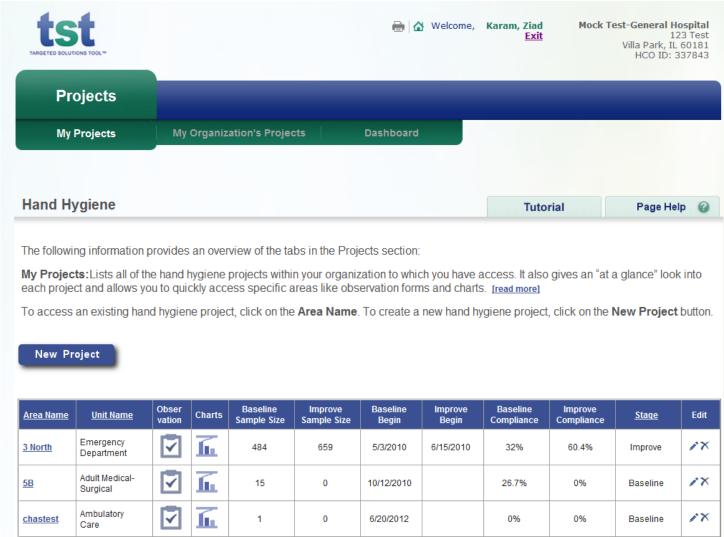
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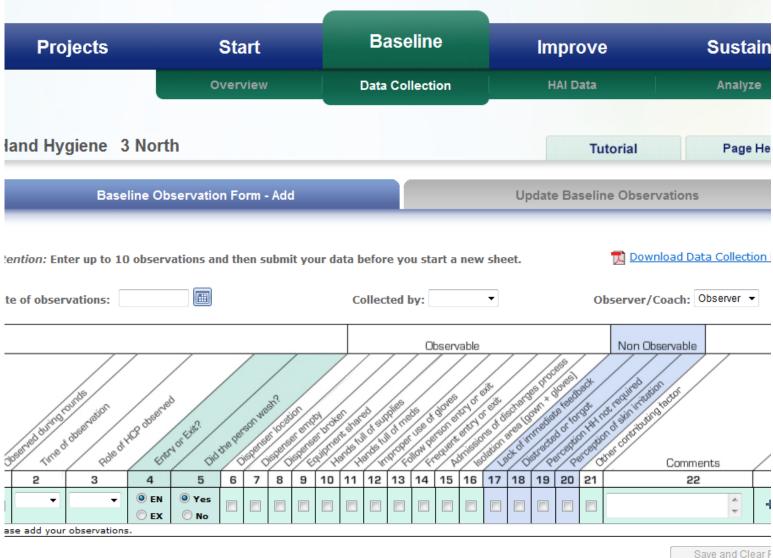


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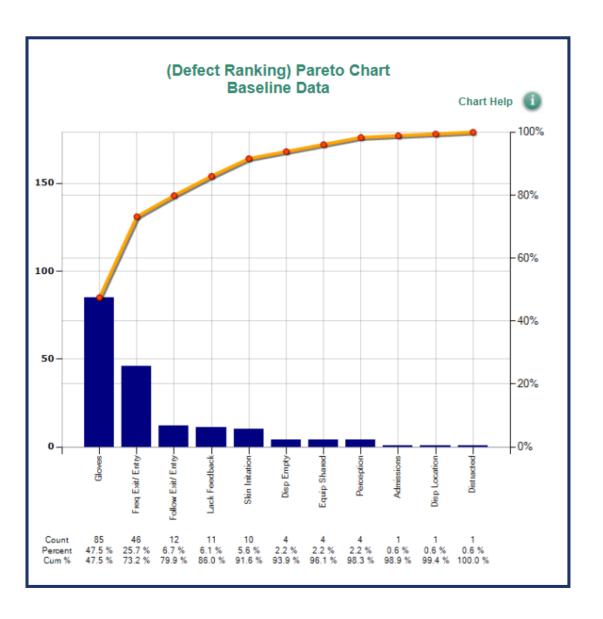
Setting Up a TST® Project



TST®: Measurement

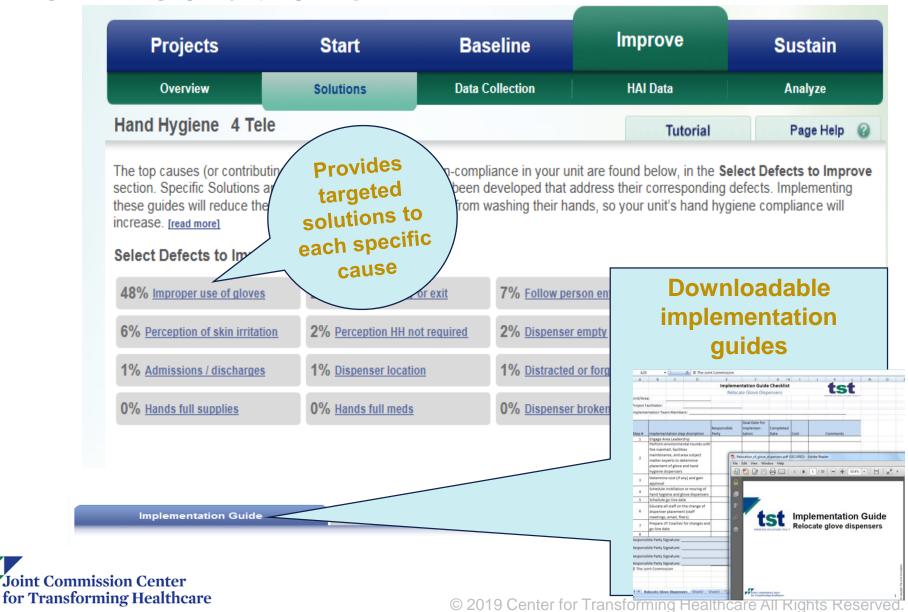


TST® Analysis





TST® Solutions





TST Results

Publication: January 2015





"If other quality and safety problems exhibit the same characteristics as hand hygiene noncompliance, attempting to address them

Sustaining and Spreading Improvement in Hand Hygiene Compliance

Feature

Infection Prevention and Control

- Editorial: Toward More Reliable Processes in Health Care
- Improving Hand Hygiene at Eight Hospitals in the United States by Targeting Specific Causes of Noncompliance
- Beyond the Collaborative: Spreading Effective Improvement in Hand Hygiene Compliance

Infection Prevention and Control

Beyond the Collaborative: Spreading Effective Improvement in Hand Hygiene Compliance

Mark R. Chassin, MD, FACP, MPP, MPH; Klaus Nether, MT (ASCP) SV, MMI; Carrie Mayer, MBA; Melody F. Dickerson, RN, MSN, MBB, CPHQ

Teams from different health care organizations have engaged with each other in structured efforts to improve quality of care under various auspices for nearly two decades. Data assessing the effectiveness of quality improvement (QI) collaboratives are mixed, but participants uniformly praise the benefits their individual organizations received. 1-9 Much less is known about whether organizations that did not participate in the collaborative are able to effectively employ interventions developed and/or implemented by those organizations that did participate.

The Joint Commission Center for Transforming Healthcare (the Center) was created in 2008 to engage hospitals in collaborative QI using the tools and methods of Lean, Six Sigma, and change management. Collectively, we refer to these three

Article-at-a-Glance

Background: Data assessing the effectiveness of quality improvement (QI) collaboratives are mixed; spreading improvement beyond the original collaborative group has proved difficult. Little is known about whether organizations that did not participate in the collaborative are able to effectively employ interventions developed or implemented by those organizations that did participate.

Methods: The Joint Commission Center for Transforming Healthcare conducted a collaborative QI project with eight hospitals, using Lean, Six Sigma, and change management methods to improve hand hygiene compliance. Participating hospitals achieved a 70.5% relative improvement (47.5% to

Jt Comm Journal on Qual Pat Safety 2015;41(1):13-25

- Of the 769 projects at 174 organizations
- Average compliance improved from 57.9% to 83.5%
- Including ambulatory, long term care, inpatient pediatrics, critical care, and adult medical/surgical units



Questions?



For Information on the Center and its High Reliability Tools & Services:

David Grazman, PhD, MPP
Center Business Development Director
dgrazman@jointcommission.org
(630) 792-5471

www.centerfortransforminghealthcare.org