



CREATING A CULTURE OF SAFETY

AHA Team Training Monthly Webinar

April 10, 2019

RULES OF ENGAGEMENT

- Audio for the webinar can be accessed in two ways:
 - Through the phone (*Please mute your computer speakers)
 - Through your computer
- A Q&A session will be held at the end of the presentation
- Written questions are encouraged throughout the presentation and will be answered during the Q&A session
 - To submit a question, type it into the Chat Area and send it at any time during the presentation

UPCOMING TEAM TRAINING EVENTS

Courses

Registration for 2019 TeamSTEPPS Master Training Courses are now open. View our [course schedule](#) to learn more and register. **Spring courses are filling up!**

New! TeamSTEPPS Next Steps

Become a TeamSTEPPS Influencer! Attend our exclusive 1.5-day immersive workshop to take a deeper dive into implementation planning. June 11-12 in San Antonio. [Learn more and register.](#)

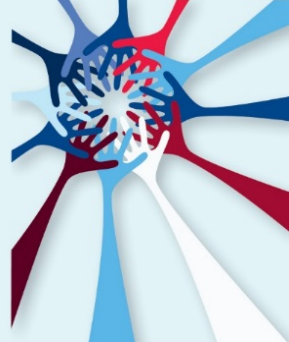
Monthly Webinars

- May 8: Building a Culture of Respect to Improve Patient Safety, Medical Team Performance and Patient and Staff Satisfaction
- [Register](#) for our free webinar



2019 AHA Team Training National Conference

June 12-14 🇺🇸 San Antonio aha.org/teamtraining



- Pre-conference workshops
 - TeamSTEPPS Next Steps June 11-12
 - Master Training Course June 11-12
 - 4-hour sessions on June 12
 - Driving Change - The Power of Activating and Engaging the Frontline Voice
 - Fostering Resilience to Cultivate Change
 - Lights - Cameras - Activities: TeamSTEPPS via Active and Immersive Learning
- [Learn more and register](#)

CONTACT INFORMATION

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Phone: 312-422-2609

TODAY'S PRESENTER



David L Feldman, MD MBA CPE FAAPL FACS
Chief Medical Officer & Senior Vice-President
Hospitals Insurance Company/FOJP

WEBINAR OBJECTIVES

- Understand the role of respectfulness in creating a safety culture
- Identify advanced techniques that can be used to improve teamwork
- Recognize how human factors engineering can be applied to reduce adverse events
- Understand how principles of Just Culture can be used to promote a culture of safety

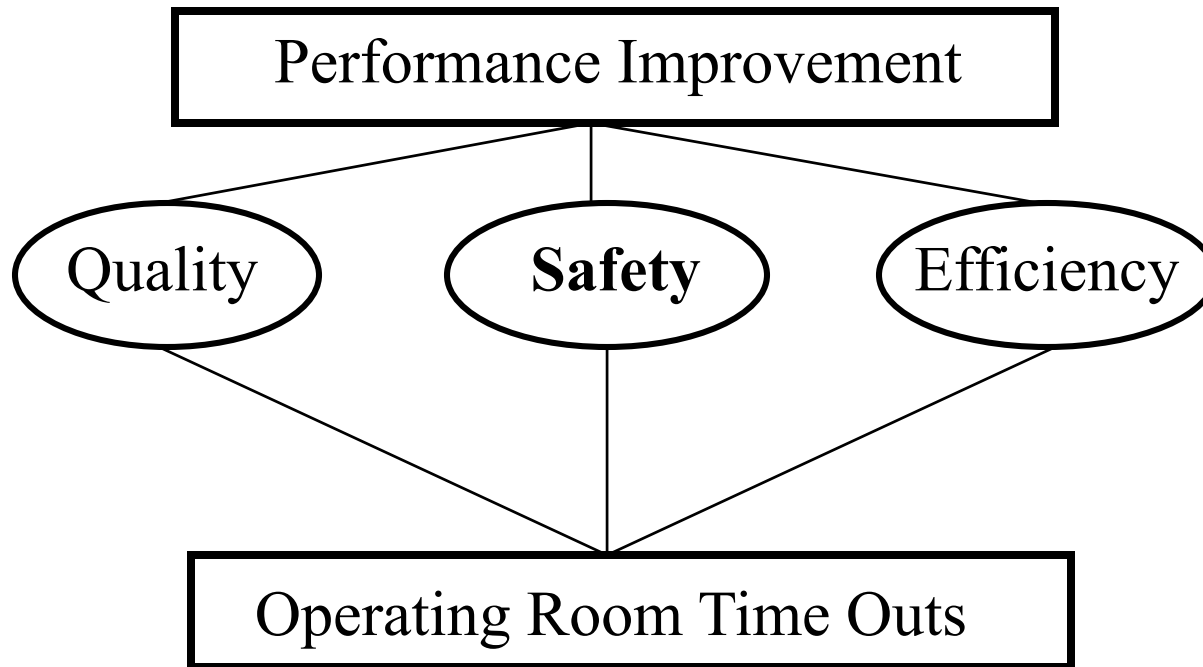
AGENDA

- Background - Respect
- Reliable teams
 - TeamSTEPPS
 - Time-outs & Checklists
 - Advanced teamwork tools
- Reliable processes
 - System Design
 - Human factors
- Just Culture
 - Reporting and accountability

MOST FREQUENTLY REVIEWED SENTINEL EVENTS BY YEAR

2011	2012	2013	2014	2015	2016	2017
Retained surgical item	Retained surgical item	Delay in treatment	Retained Surgical item	Wrong Surgery	Retained Surgical Item	Retained surgical item
Wrong Surgery	Wrong Surgery	Wrong Surgery	Fall	Retained Surgical Item	Wrong Surgery	Fall
Delay in treatment	Delay in treatment	Retained Surgical item	Suicide	Suicide	Fall	Wrong Surgery
Op/Postop complication	Suicide	Suicide	Other unanticipated event	Fall	Suicide	Suicide
Suicide	Op/Postop complication	Fall	Delay in treatment	Delay in treatment	Delay in treatment	Delay in treatment
Fall	Fall	Other unanticipated event	Wrong Surgery	Op/Postop Complication	Other unanticipated event	Other unanticipated event
Other unanticipated event	Other unanticipated event	Op/Postop Complication	Op/Postop Complication	Other unanticipated event	Op/Postop Complication	Criminal event
Criminal event	Criminal event	Criminal event	Criminal event	Criminal event	Medication Error	Medication error
Medication error	Medication error	Medication error	Perinatal death/injury	Perinatal death/injury	Criminal event	Op/Postop complication
Medical equipment related	Perinatal death/injury	Perinatal death/injury	Medication Error	Medication Error	Perinatal death/injury	Self-inflicted injury

QUALITY V. SAFETY V. EFFICIENCY



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PATIENT SAFETY & RESPECT

“...the key success factors in a safety effort are teamwork and respect, two basic ideas that are too often lacking in medicine. People have to be trained to work in teams and to respect others on the team.”

AUDIENCE POLLING QUESTION

Question:

I have been treated disrespectfully at work in the last week

Answer choices:

Yes

No

AUDIENCE POLLING QUESTION

Question:

I have seen others being treated disrespectfully at work in the last week

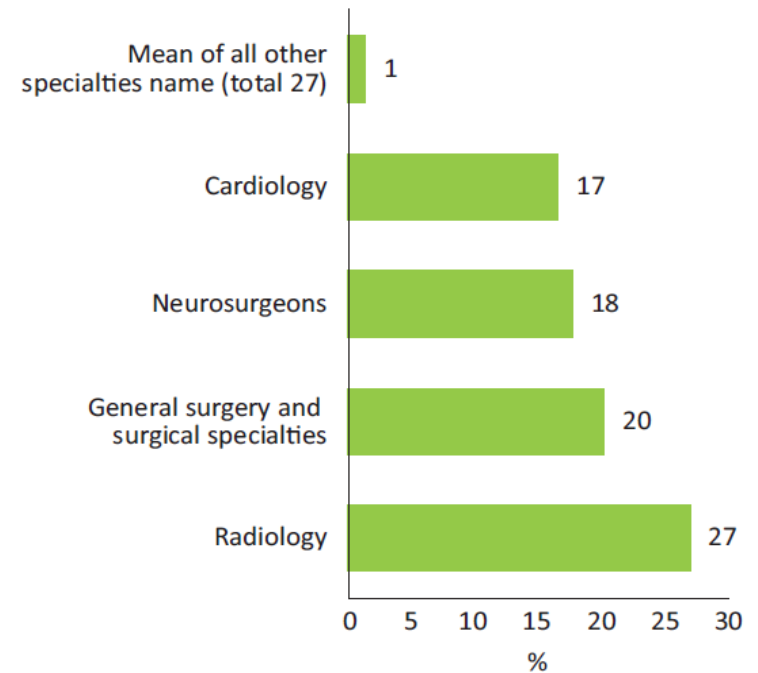
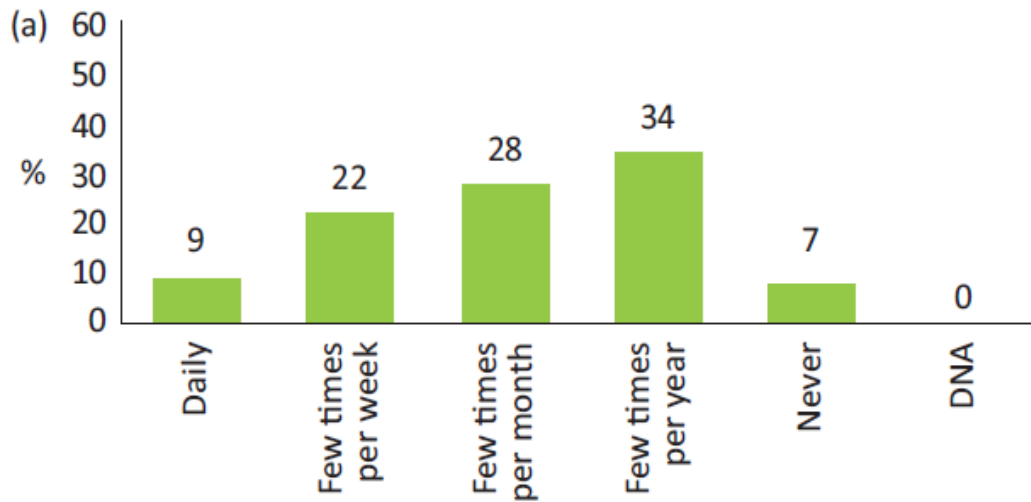
Answer choices:

Yes

No

NHS STUDY OF RDA – 2013-2015

N=606



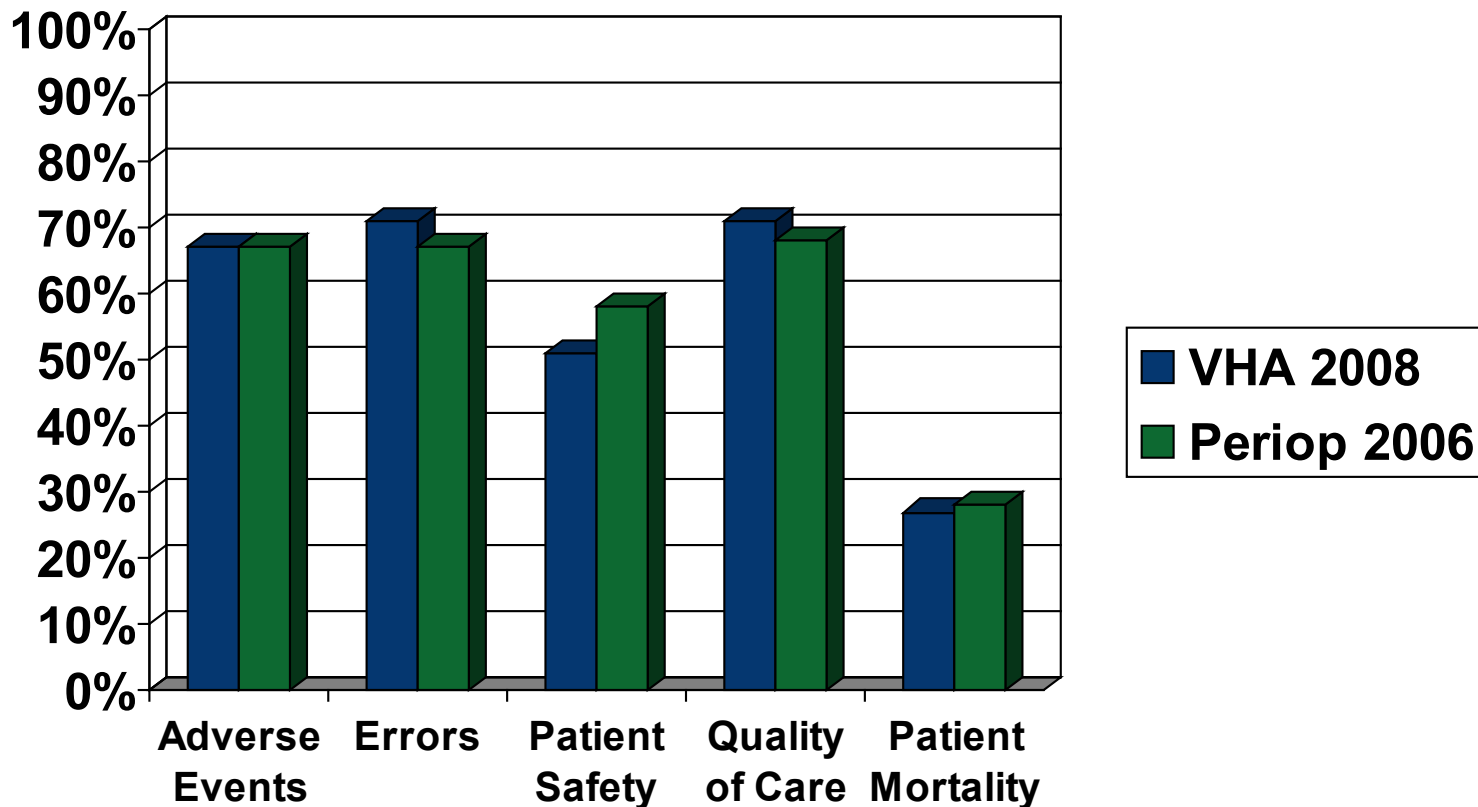
“One of my registrars rang...to get a [specialty] opinion at 4 o'clock in the morning and spent 10 minutes listening to the [specialty] registrar telling her that she was, um, sorry excuse my language: 'f***ing useless, and was a f***ing waste of space. What are you doing ringing me at this f***ing time in the morning?'”

RANGE OF DISRESPECTFUL BEHAVIOR

- Disruptive behavior
- Humiliating, demeaning treatment of nurses, residents, and students
- Passive-aggressive behavior
- Passive disrespect
- Dismissive treatment of patients
- Systemic disrespect

DISRUPTIVE BEHAVIOR & ADVERSE EVENTS

How often do you think there is a link between disruptive behavior and the following clinical outcomes at your hospital?



CHARACTERISTICS OF EFFECTIVE DISRESPECTFUL BEHAVIOR POLICIES

- Fairness
- Consistency
- Graded response
- Restorative process
- Surveillance mechanisms

VANDERBILT UNIVERSITY MEDICAL CENTER

CENTER FOR PATIENT AND PROFESSIONAL ADVOCACY

- Professional Conduct Policy
- Training for faculty in
 - Commitment to *Credo behaviors*
 - Feedback to students & residents
 - Behavior policy
- Patient Advocacy Reporting System (PARSSM)
 - Patient Complaint Monitoring Committee

VANDERBILT UNIVERSITY MEDICAL CENTER

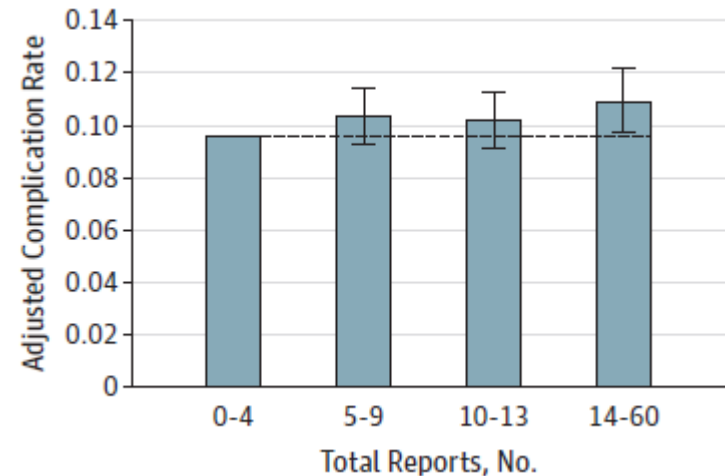
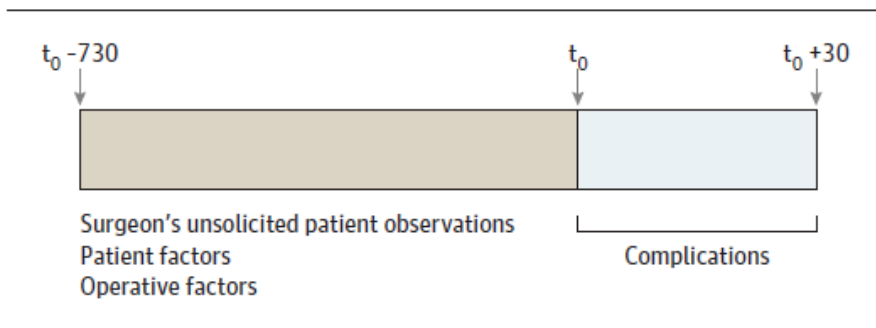
Four graduated interventions

- Informal conversations for single incidents
- Nonpunitive “awareness” interventions when data reveal patterns
- Leader-developed action plans if patterns persist
- Imposition of disciplinary processes if the plans fail

PATIENT COMPLAINTS & OUTCOMES

PARS & NSQIP data from Emory, Stanford, UCLA, UNC, UPenn, Wake, Vanderbilt

“I asked Dr. Y how long he thought the operation would take. He said, ‘Look, your wife will die without this procedure. If you want to ask questions instead of allowing me to do my job, I can just go home and not do it.’”



Patients whose surgeons have large numbers of unsolicited patient observations in the 24 months prior to the patient's operation are at increased risk of surgical and medical complications.

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CENTER FOR PATIENT AND PROFESSIONAL ADVOCACY

Domain Codes	Domain Subcategories	Prevalence
Competent Medical Care		
	Poor or unsafe care	26
	Scope of Practice	1
	Impairment	1
Clear & Respectful Communication		
	Disrespectful/offensive	60
	Poor	15
	Aggressive/physically intimidating	3

VANDERBILT UNIVERSITY MEDICAL CENTER

CENTER FOR PATIENT AND PROFESSIONAL ADVOCACY

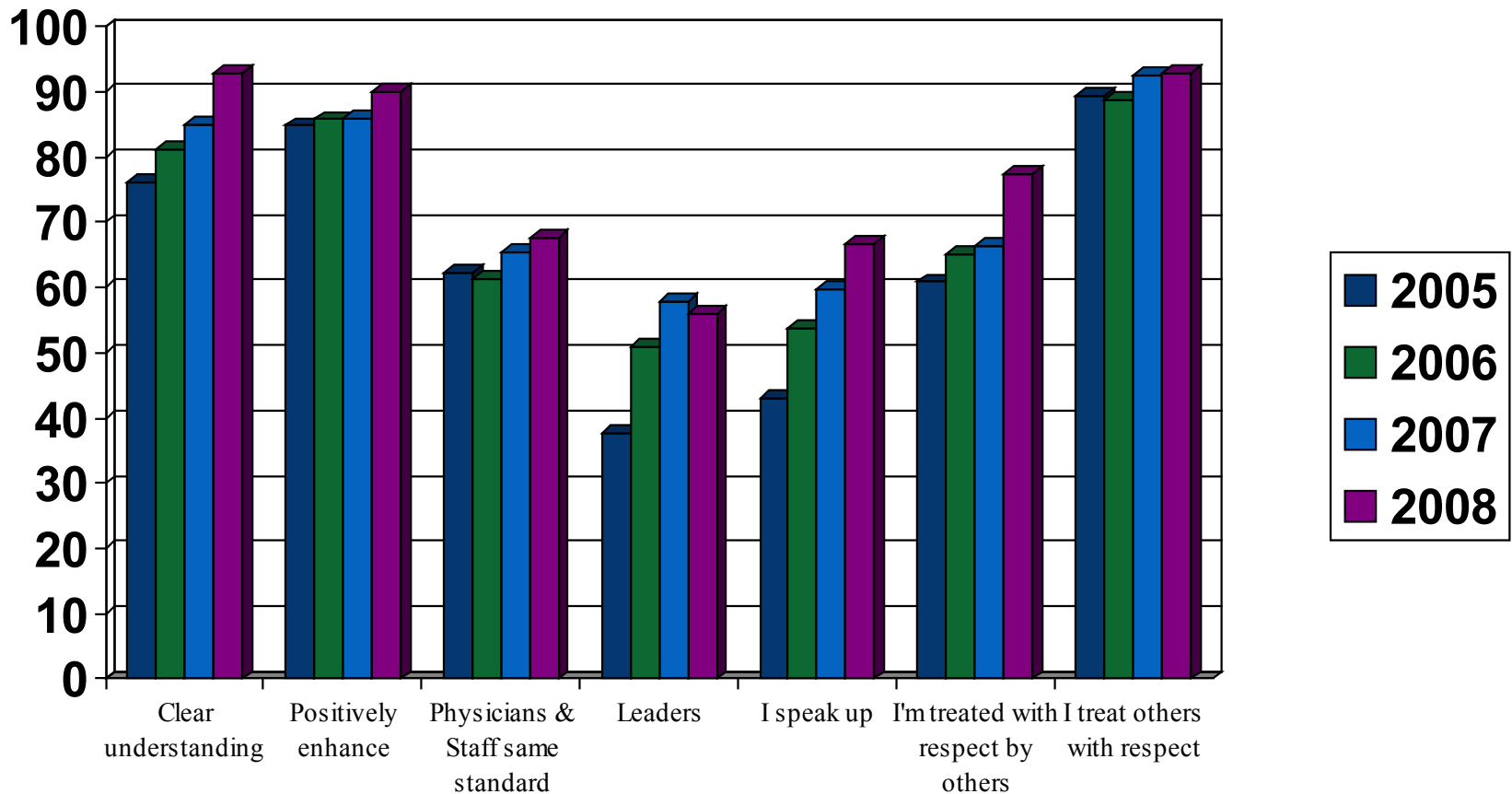
Domain Codes	Domain Subcategories	Prevalence
Responsibility		
	Access/availability	20
	Failure/reluctance/refusal to complete role-related tasks	15
	Failure to accept feedback	3
Integrity		
	Violation of stated organizational values	12
	Breach of patient/family confidentiality	4
	Conflict of interests	1
	False documentation	1

MAIMONIDES MEDICAL CENTER

- Code of Mutual Respect (<https://www.maimonidesmed.org/about-us/core-principles/code-of-mutual-respect>)
 - Clear expectations of respectful behavior that applies equally to everyone
 - Recognition of and mechanisms to address systems issues that cause frustrations
 - Investigations conducted by unbiased peers from other departments
 - Progressive discipline that is similar in concept for physicians and other employees
- Skills training program
- Mediated conversations
- Respect survey

MAIMONIDES MEDICAL CENTER

RESPECT SURVEY RESULTS – PERIOPERATIVE SVC



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AUDIENCE POLLING QUESTION

Question:

An effective team should have:

Answer choices:

The same people working together for each task

Team members with similar backgrounds and training

A chance to practice before the “real thing”

Members that hold a shared mental model

WHAT IS A TEAM?

- Two or more people who achieve a mutual goal through *interdependent* and *adaptive* actions
- Not a “group” which achieves its goal through *independent, individual* contributions

Going from a team of experts to.....

An expert team!



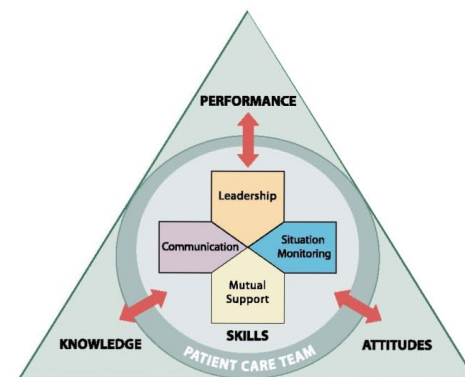
TEAMSTEPPS



Team

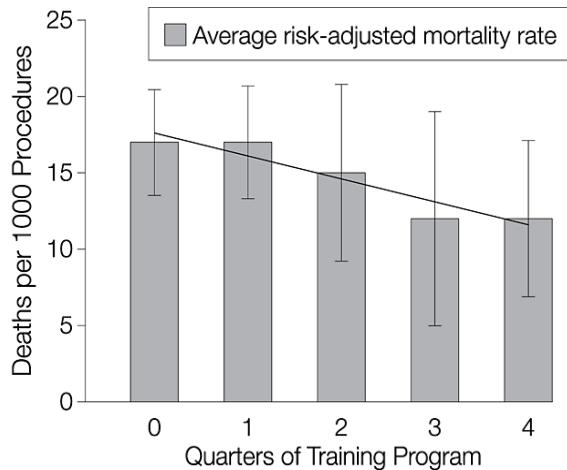
Strategies & Tools to Enhance Performance & Patient Safety

“Initiative based on evidence derived from team performance...leveraging more than 25 years of research in military, aviation, nuclear power, business and industry...to acquire team competencies”



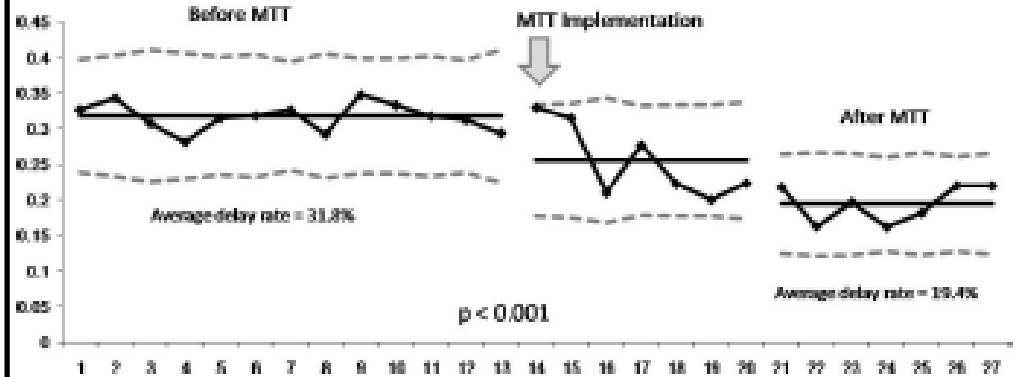
TEAMSTEPPS BENEFITS

Surgical Morbidity & Mortality



Neily, J. et al. *JAMA* 2017

Monthly OR Delay Rates



Wolf, FA et al. *Annals of Surg*, 2010

Improvement in OB Outcomes

	Pre	Post	% change
Deliveries	14,271	19,380	
Adverse Outcome Index	5.9%	4.6%	-23%
Weighted Adverse Outcome Score	1.15	.782	-33.2%
Severity Index	19.59	17	-13.2%

Pratt, S. et al. *Jt Comm Jnl Saf & Qual* 2007



TEAMWORK – STILL A PROBLEM

The NEW ENGLAND JOURNAL of MEDICINE

MEDICINE AND SOCIETY

TEAMWORK — PART 1

Debra Malina, Ph.D., *Editor*

Divided We Fall

The NEW ENGLAND JOURNAL of MEDICINE

MEDICINE AND SOCIETY

TEAMWORK — PART 2

Debra Malina, Ph.D., *Editor*

Cursed by Knowledge — Building a Culture of Psychological Safety

The NEW ENGLAND JOURNAL of MEDICINE

MEDICINE AND SOCIETY

TEAMWORK — PART 3

Debra Malina, Ph.D., *Editor*

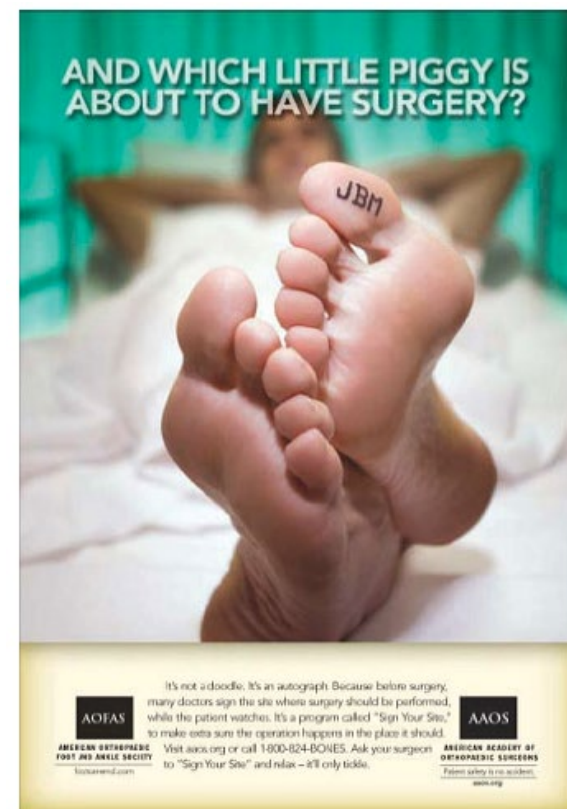
The Not-My-Problem Problem

Lisa Rosenbaum, M.D.

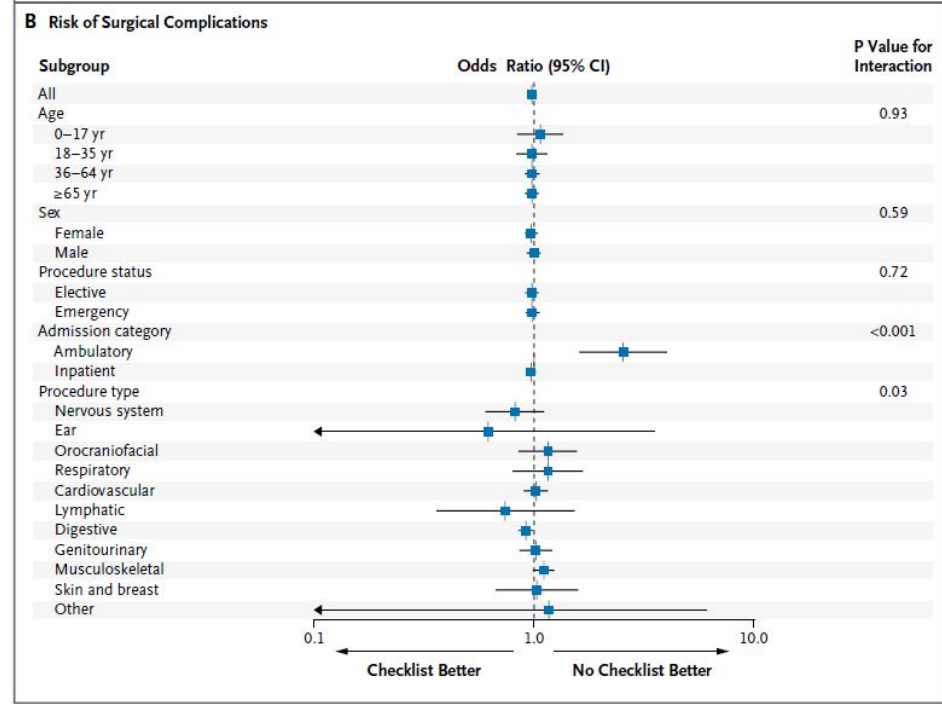
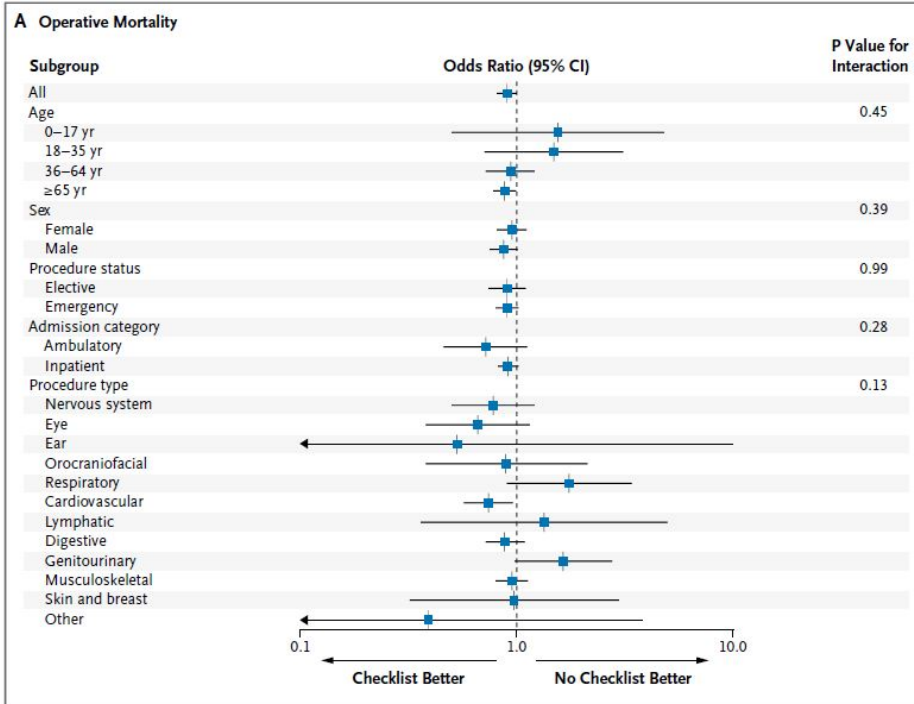


THE JOINT COMMISSION UNIVERSAL PROTOCOL BEST PRACTICES

- Pre-procedure verification process
 - A conversation between Attending Anesthesiologist and Attending Surgeon
- Site Marking
 - Surgeon marking site, must be present for time-out and perform procedure
- Time-Out
 - Immediately prior to incision
 - Best practice requires:
 - Attending Surgeon
 - Attending Anesthesiologist
 - Circulating RN



CHECKLISTS IN A VACUUM



Urbach, NEJM 2014, 1029-1038.

“Ninety-two of the 101 study hospitals provided copies of their checklist; of these, 90% used an unmodified World Health Organization (WHO) or Canadian Patient Safety Institute checklist. Educational materials were made available to hospitals, but no team training or other support was provided.”

Leape, NEJM 2014, 1063-1064.

TELLING IS NOT TRAINING

Training requires four steps:

- Provide information
- Demonstrate how to apply the information
- Provide the learner an opportunity to practice
- Provide feedback relative to a standard

From: *"Telling is not training"*
Capt. Stephen W. Harden

TIME OUT/SIGN OUT OBSERVATION

Customized observation tool

Developed by 25-30 surgeons, anesthesiologists and nurses

Time Out & Sign Out as proxies for teamwork events

Database collection of observations - Checkbox

Training of observers/ Install video cameras

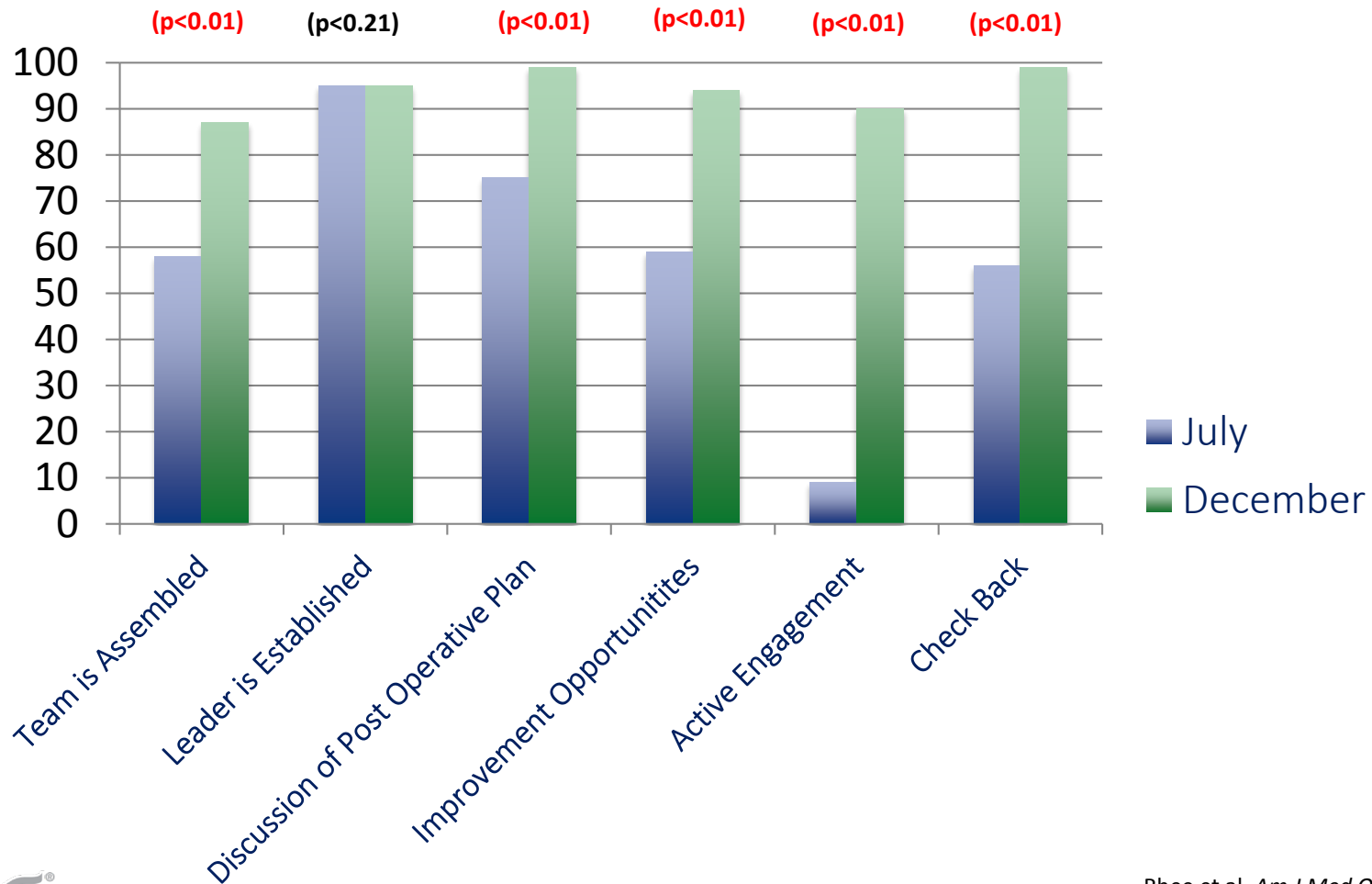
Feedback to surgical teams

Video vs. live observation

	Total #	Live	Video	P value
Time Out	1410	325	1085	
Compliance		30.5%	15.3%	<.001
Sign Out	1398	166	1232	
Compliance		28.3%	21.8%	.075



TIME OUT AUDIT PERFORMANCE



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INTERFACES AFFECT WORKFLOW EFFICIENCY

Worse

Improved



LABELS - FONTS, COLORS, CONTRAST

Worse



Improved

EPInephrine kit
Prefilled EPInephrine 1 mg/10 mL syringes
currently UNAVAILABLE

Directions:

- 1. Draw up 1mg/1mL EPInephrine from ampule with filter needle.**
- 2. FLUSH with 10mL normal saline after administration.**

VISUAL CONTROLS - CLOSE TO HOME



Stove A

Which dial turns on the burner?



Stove B



VISUAL CONTROLS IN THE OR

June 28, 2004

Visual Control for Safety

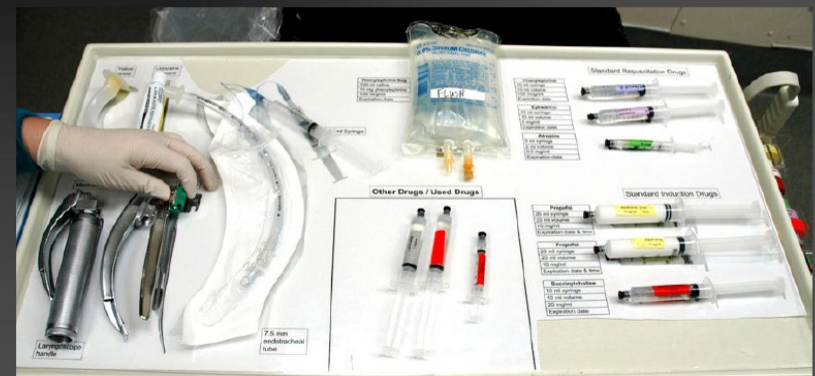
TEAM VIRGINIA MEDICINE



5S Anesthesia "Shadow Board" - Before

Visual Control for Safety

TEAM VIRGINIA MEDICINE



5S Anesthesia Shadow Board - After



AHA Education

AHA Team Training

HUMAN FACTORS ENGINEERING



Radiofrequency



Bar
Coding

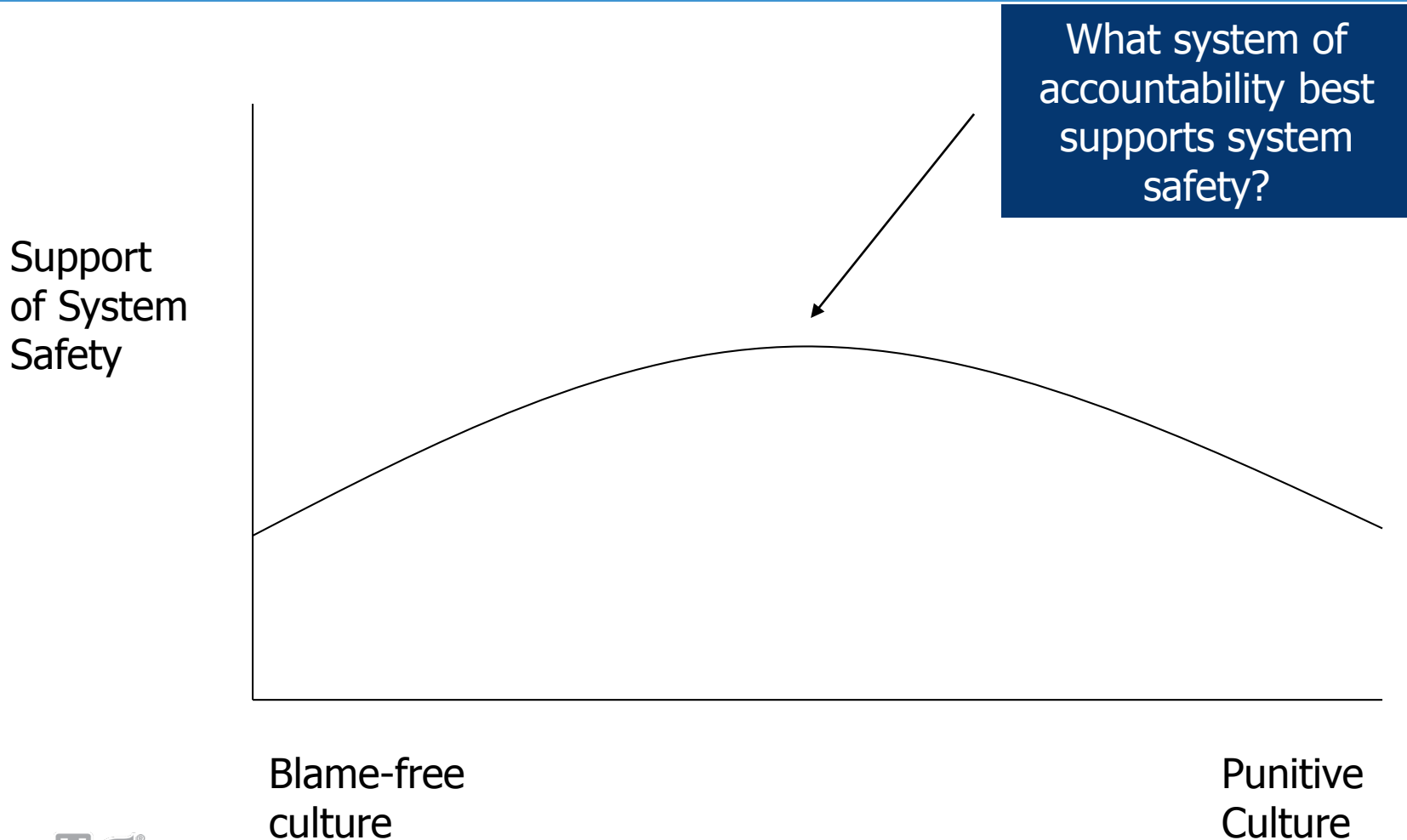


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WHAT IS A JUST CULTURE?



ACCOUNTABILITY FOR OUR BEHAVIORS

Human Error

Manage through changes in:

- ★ Processes
- ★ Procedures
- ★ Training
- ★ Design
- ★ Environment

At-Risk Behavior

Manage through:

- ★ Removing incentives
- ★ Creating incentive for healthy behavior
- ★ Increasing situational awareness

Reckless Behavior

Manage through:

- ★ Remedial action
- ★ Disciplinary action

Console

Coach

Punish



SCENARIO

A surgery resident accidentally contaminates an instrument in the OR. No one notices. The instrument is critical to the procedure and the resident knows if the instrument has to be re-sterilized it will delay the procedure by at least 20 minutes to either re-sterilize, or call for a replacement. Knowing the attending surgeon has a history of being abusive to residents, the resident says nothing.

AUDIENCE POLLING QUESTION

Question:

Do you think this was:

Answer choices:

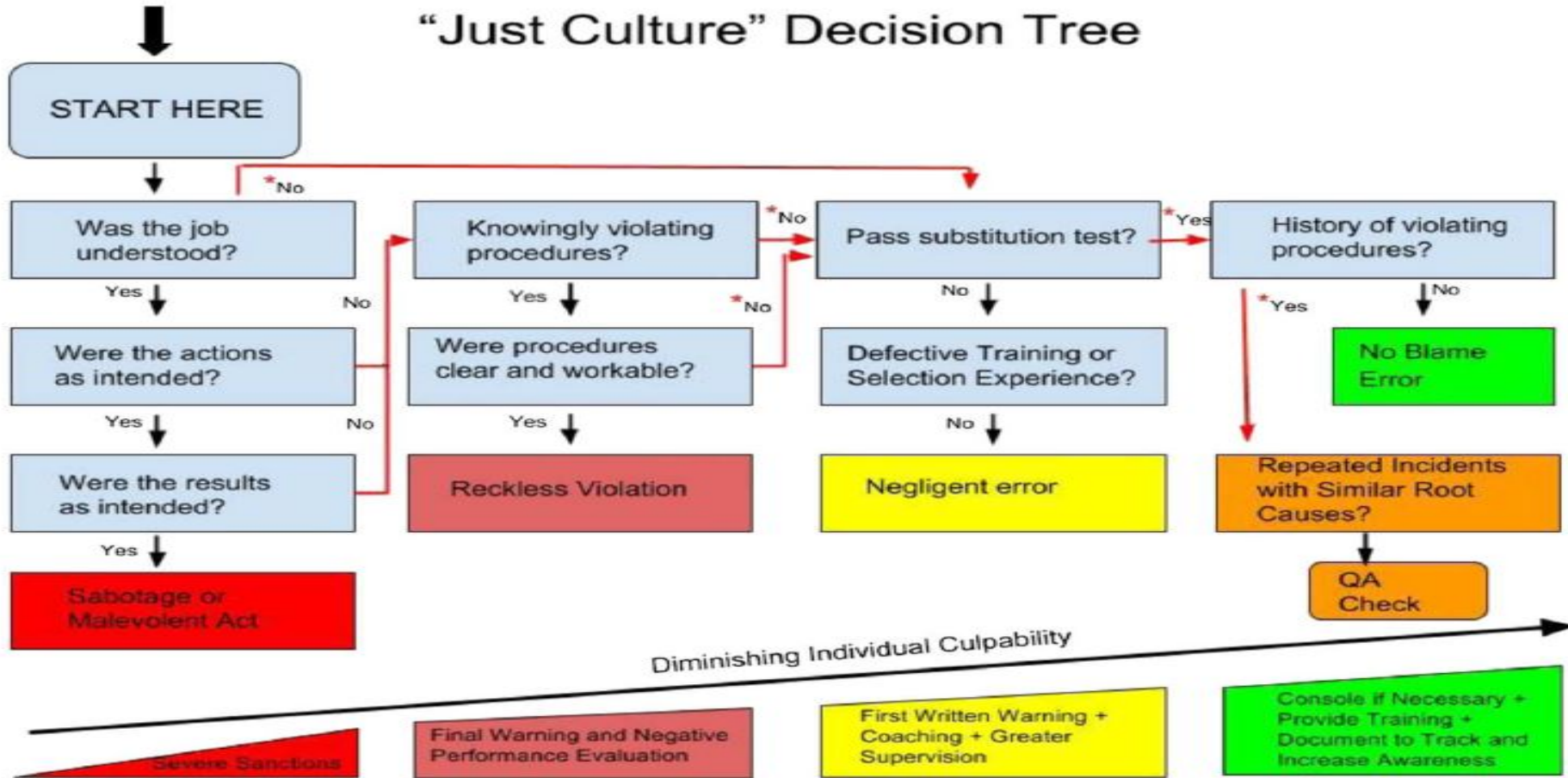
Human Error - Console

At-Risk Behavior - Coach

Reckless Behavior - Punish

JUST CULTURE

“Just Culture” Decision Tree



* Indicates a Systems Error: Corrective and Preventive Action is Required

Adapted from The Just Culture Community (2016)

JUST CULTURE

“Tragedy followed by injustice, once again.”



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QUESTIONS?

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