A Systematic Approach to Safe and Highly Reliable Care

Michael Leonard, MD July 24, 2018





WHITE PAPER



A Framework for Safe, Reliable, and Effective Care



How to Cite This Paper: Frankel A, Haraden C, Federico F, Lenoci-Edwards J. A Framework for Safe, Reliable, and Effective Care. White Paper. Cambridge, MA: Institute for Healthcare Improvement and Safe & Reliable Healthcare; 2017.

Learning Points

- Patient care is a profound social experience we know how to measure, manage and deliver the components of optimal patient care
- If we can't care for the caregivers, we will not provide the care patients need and deserve.
- Psychological safety is essential for clinical excellence
- A sociotechnical framework allows for the analysis, action and delivery of sustainable value
- People get out of bed in the morning to do the right thing
 - we need to create the conditions for success

Unmindful • Reactive • Systematic • Proactive • Generative







Cultural Maturity Model



GENERATIVE

Safety is how we do business around here Constantly Vigilant and Transparent

Value

TIPPING POINT

Ant before

PROACTIVE

Anticipating and preventing problems before they occur; Comfort speaking up

SYSTEMATIC

We have systems in place to manage all hazards

REACTIVE

Safety is important. We do a lot every time we have an accident

UNMINDFUL

Who cares as long as we're not caught Chronically Complacent





Culture reflects the behaviors and beliefs within an organization.

There are behaviors that create value; behaviors that create unacceptable risk.

Culture is the social glue

Work as Imagined v. Work as Done



What do we know about your culture?

How well do you measure culture?

What do you do with the data? How reliable is your debriefing, feedback and action loop?

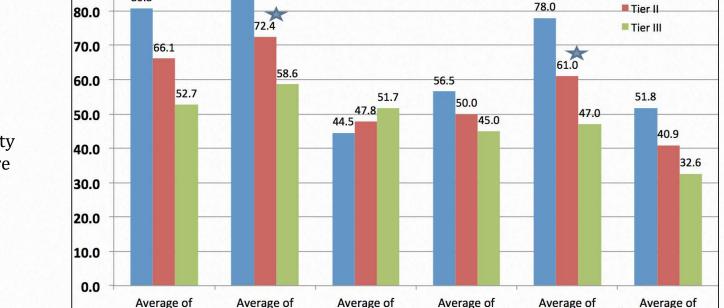
Strengths? Opportunities? How do use culture data to drive sustainable, measurable improvement?



The Value of an Integrated Survey

- The SCOR survey measures important dimensions of organizational culture. The core instrument integrates safety and teamwork culture, local leadership, learning systems, resilience/burnout and work-life balance. The full survey (SCORE) integrates employee engagement as well.
- The insights are critical for organizational improvement and the ability to drive habitual excellence.
- Specific actions can be taken to leverage organizational strengths and address areas of fundamental opportunity.
- Valuable for Magnet, Leapfrog, etc.

Safety Attitude Scores by Engagement Tier Level



ThreatAwareness WorkLifeBalance

84.7

SafetyClimate

Safety Score 90.0

80.8

TeamworkClimate

Courtesy Dr. Bryan Sexton, Duke University

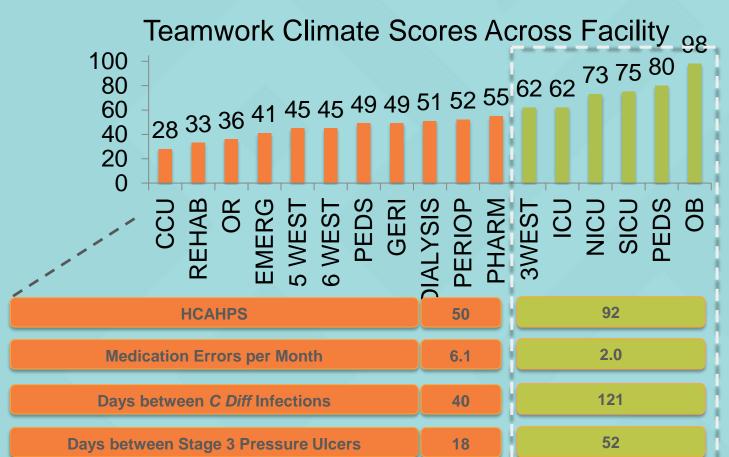
JustClimate

ResilienceClimate

■ Tier I

CULTURE IS RELATED TO...

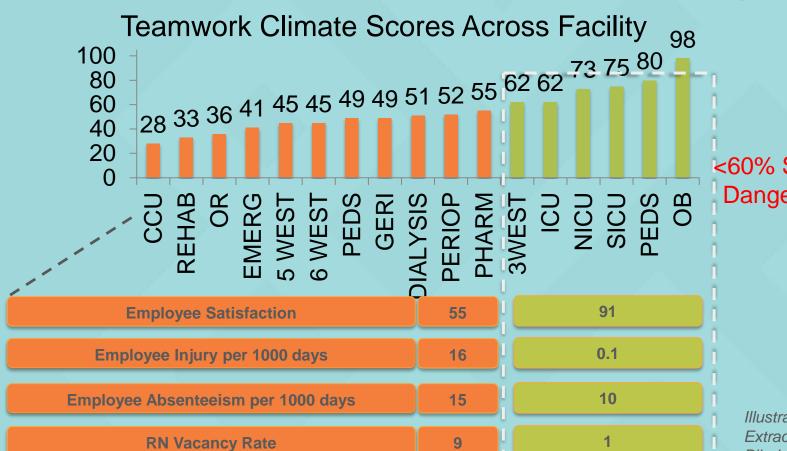




Illustrative Data: Extracted from Blinded Client Data

AND EMPLOYEE OUTCOMES





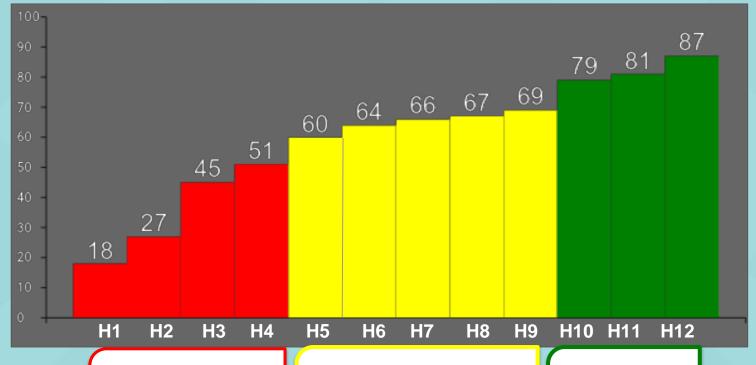
<60% Score = Danger Zone

Illustrative Data: Extracted from Blinded Client Data

Where Would You Rather Have An Operation?



Local Leadership and Psychological Safety % Positive Response



Months between Wrong Sites Surgeries or Retained Foreign Bodies

6

12

40

Senior Leadership



GENERATIVE

Organization wired for safety and improvement

PROACTIVE

Playing offense - thinking ahead, anticipating, solving problems

SYSTEMATIC

Systems in place to manage hazards

REACTIVE

Playing defense – reacting to events

UNMINDFUL

No awareness of safety culture

Cyclic flow of information with feedback and organizational learning

Systematic engagement with dialogue, support and learning

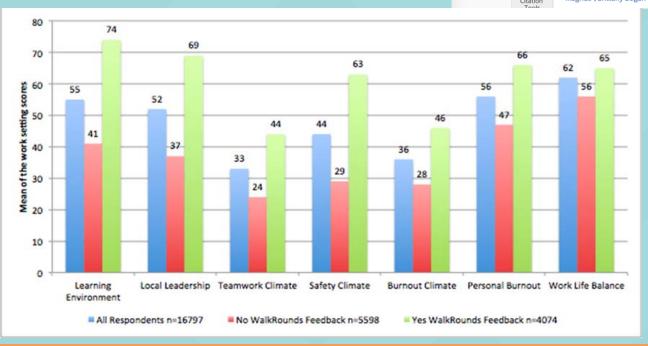
Process for interaction between senior leaders and front line staff

They're here – something bad must have happened

We don't know or see them

Michigan: Leadership and Culture





Michigan SCORE Data with and without Closing the Loop

Local Leadership

GENERATIVE

Organization wired for safety and improvement

PROACTIVE

Playing offense - thinking ahead, anticipating, solving problems

SYSTEMATIC

Systems in place to manage hazards

REACTIVE

Playing defense – reacting to events

UNMINDFUL

No awareness of safety culture



Leaders create high degrees of psych safety and accountability.

Leaders model the desired behaviors to drive culture of safety

Training and support exists for building clinical leadership

Episodic, completely dependent on the individual clinician

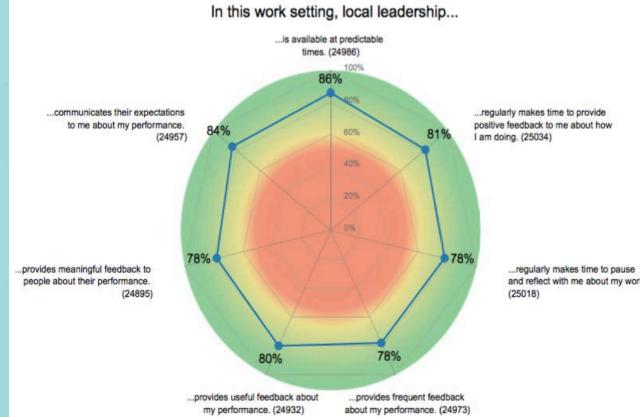
Absent for the most part

Local Leadership

- Availability
- Feedback

- Trust

- Relationship



Percentage of positive responses.

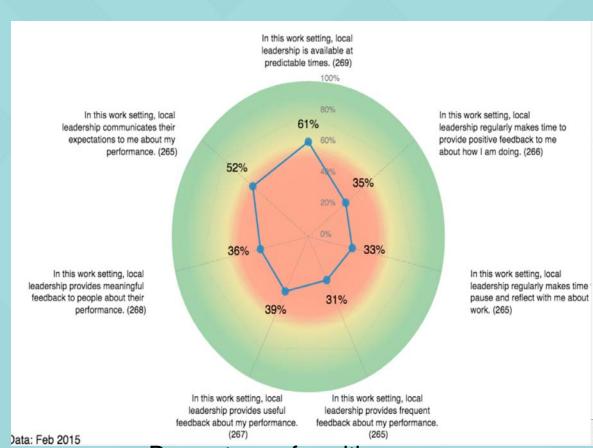
Local Leadership

- Lack of voice

- No feedback

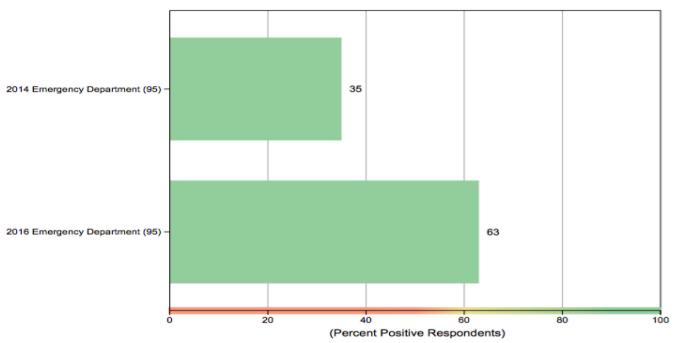
- Little trust

- Nothing gets fixed, don't have the tools



Percentage of positive responses.

In this work setting, local leadership provides meaningful feedback to people about their performance.

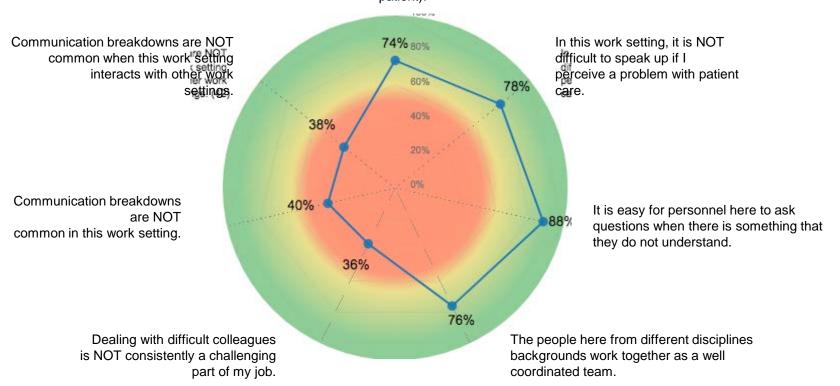


Source Data: June 2016

Teamwork Domain - All Items



Disagreements in this work setting are appropriately resolved (i.e., not who is right but what is best for the patient).





SAFE & RELIABLE
Healthcare

WHAT TEAMS DO:

Plan Forward

Reflect Back

Communicate Clearly

Manage Conflict

The associated behaviors:

Brief (huddle, pause, timeout, check-in)

Debrief

Structured Communication SBAR and Repeat-Back

Critical Language

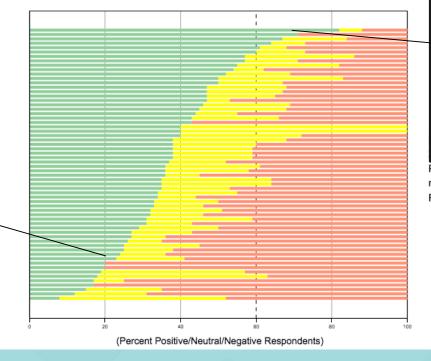
Teamwork Item



Dealing with difficult colleagues is not consistently a challenging part of my

job.

"A fair amount of the doctors are bullys. There are no sort of reprimands for them if they demean or act cruelly to the staff. In my 60 day orientation I watched a video about work place bullying that describes their actions perfectly."



We work very hard on working with each other and being a family. We pride ourselves every time someone comes in and says "wow everyone is so happy here".

Percent Positive Percentiles n = 161027 responses From 2895 units/departments

Psychological Safety

GENERATIVE

HRO - wired for safety and

PROACTIVE

Playing offense - anticipating,

SYSTEMATIC

Systems in place to manage hazards

REACTIVE

Playing defense – reacting to events

UNMINDFUL

No awareness of safety culture



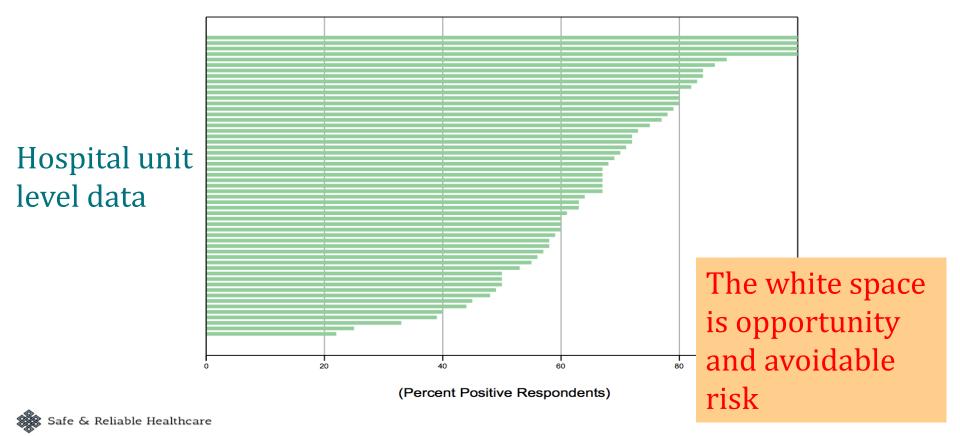
Primary responsibility of leaders, continuously modeled everywhere.

Leaders model and expect the behaviors that promote psychological safety

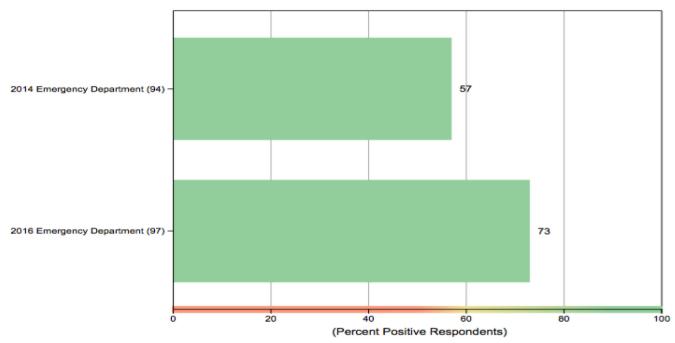
In some units it feels safe to speak up and voice a concern

Personality dependent – it depends who I'm working with

Fear based – keep your head down and stay out of trouble



In this work setting, it is not difficult to speak up if I perceive a problem with patient care.



Source Data: June 2016



Psychological Safety

What are the things that make it hard to speak up here?

What are the 1-2 things we can do to make it better? Describe them in a way that they are actionable, visible and measureable.

Just Culture



GENERATIVE

Organization wired for safety and improvement

PROACTIVE

Playing offense - thinking ahead, anticipating, solving problems

SYSTEMATIC

Systems in place to manage hazards

REACTIVE

Playing defense – reacting to events

UNMINDFUL

No awareness of safety culture

Real events are shared by leaders, true culture of accountability and learning

Clear ways to differentiate individual v. system error, safe to discuss mistakes

Well understood algorithm, learning is the priority

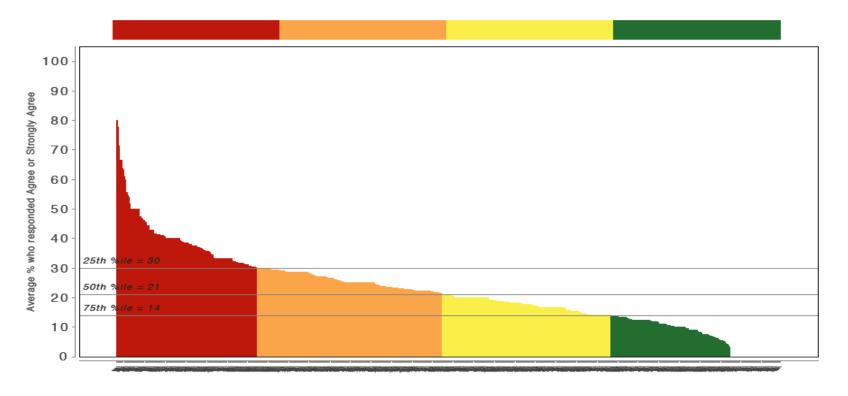
Depends who the boss is, blame and punishment are common

Nothing good will come from talking about mistakes

What Happens If You Make An Error?

In this work setting, it is difficult to discuss errors.

Note: Use the multicolored bars to see how you fit with the benchmark archive. If you have less red and more green than the benchmark, you are more positive than the benchmark. If the colors all match up, you are about the same as the benchmark.





Just Culture

Malicious

Impaired

Unintentional – Risky – Reckless

Substitution Test

History of Unsafe Acts

Just Culture Model

Organizational Fairness and Professionalism Worksheet

Reliably excellent patient centered care is dependent on healthcare departments that are effective learning systems; they routinely identify their defects and then eliminate or ameliorate them. Individuals bring to light defects only when they trust others and feel safe about voicing their insights and concerns. Professionalism and Just Culture create trust and psychological safety and are the essential foundation for all learning systems. The job of the Just Culture & Professionalism Committee is to safeguard Professionalism and Just Culture in order to protect and promote robust learning systems.

Event or Near Event

Step 1: Identify participants, and exclude those with impaired judgment or whose actions might be malicious. If impaired judgment refer to senior leaders and HR department. If malicious, refer to Risk and HR departments. If unprofessional behavior is a component in any way, perform Professional Behavior Evaluation.

Step 2: Assign initial level of intent:

Use best judgment to categorize each action as either Reckless, Risky or Unintentional. The categorization determines the general level of culpability and possible disciplinary actions, however these general categories must be modified using Steps 3 and 4 below.

RECKLESS ACTION

The careaiver knowingly violated a rule and/or made a dangerous or unsafe choice. The decision appears to be self serving and to have been made with little or no concern about risk.

RISKY ACTION

The careaiver made a potentially unsafe choice. participated in an error Their evaluation of relative risk appears to be appropriately and in the erroneous.

UNINTENTIONAL

The careaiver made or while working patients' best interest.

Step 3: Evaluate systems influences to modify level of intent by performing a Substitution Test: Ask 3 others with similar skills if they, in a similar situation, would behave or act similarly. If the answer is "No" the test is negative and the individual is likely accountable. If the answer is "Yes" the test is positive and system influence is likely substantial. Evaluators may ask about system factors such as schedules leading inevitably to fatigue, unrealistic expectations regarding memory, inability to effectively follow policies or procedures, an unsafe learning environment, or distractions or interruptions. If answers are divided, evaluators should assign accountability with a goal to ensure perceptions of fairness by others.

Step 4: Evaluate the individual for a history of unsafe acts: Evaluate whether the individual has a history of unsafe or problematic acts. If they do, this may influence decisions about the appropriate responsibilities for the individual i.e. they may be in the wrong job. Organizations should have a reasonable and agreed upon statute of limitations for taking these actions into account. Step 5: Final evaluation:

RECKLESS: If the Substitution Test is positive, the system supports reckless behavior and system leaders are accountable. The caregiver's behavior is unsafe: they are accountable warranting discipline. A history of unsafe behavior may suggest the individual is in the wrong job.

RISKY: If the Substitution | If UNINTENTIONAL: Test is positive, the system supports risky behavior and system leaders are accountable. The caregiver's behavior is unsafe; they are accountable and should receive coaching. A history of unsafe behavior may suggest the the wrong job. individual is in the wrong job.

Focus should be on correcting system issues and coaching on human factors. System leaders are accountable. A negative Substitution Test and a history of unsafe behavior suggests the individual may be in

Step 6: Promote learning and improvement

The caregiver should participate in teaching the lessons learned to others.

The caregiver should participate in teaching the lessons learned to others.

The caregiver should participate in investigating why the error occurred and teach others about the results of the investigation.

Professional Behavior Evaluation and Intervention

Receive Report of Concerning Behavior. Step 1: Conduct confidential conversation with reporter regarding Focus Person (FP) behaviors. Categorize types of behaviors as well as frequency and severity. Conduct confidential interviews with others.

Behavior categories include: Demeaning/angry, hypercritical, uncollegial, shirking responsibilities, misconduct, sexual harassment, patient communication concerns, boundary issues, substance abuse, blaming, and otherwise acting in a manner that undermines trust and learning.

Step 2: Feedback Conversation Coaching: If the concern is deemed an isolated incident, the FP has not had any other issues, and the reporter feels safe to do so, provide coaching for the reporter on how to give the FP direct feedback regarding behaviors. If the situation is more complex, proceed to Step 3. Step 3: Assessing Concerns: To validate the concerns and assess their frequency and severity, conduct multisource interviews to provide comprehensive insight into, and corroboration of, alleged behavior.

Step 4: Involve Supervisor: Share findings of assessment with FP's manager, department chair, division chief, or supervising physician. Discuss a plan for feedback intervention (Step 5) if deemed necessary.

Step 5: Feedback Intervention

Involved Supervisor and professionalism representative meet with FP to discuss/review:

- specific disruptive behaviors
- FP's perspective on factors (including systems) that may be contributing to the behavior
- resources for facilitating behavioral changes
- plans for monitoring behavior
- unacceptability of retaliation
- (if applicable) potential consequences for not adhering to behavioral expectations

A follow up email is sent to the FP summarizing the meeting. Step 6: Monitoring and Support

- Inform those reporting concerns that an intervention has
- Inquire of them and others over time regarding subsequent
- · Have FP's supervisor address any systems issues discussed in
- Keep process discrete and respectful to FP.

Step 7: Intervention to Address Subsequent Lapses

Develop a plan of action with institutional administration and legal counsel. Selected institutional administrators meet with FP to detail expected behavioral changes and consequences, including termination.

Final Step: Evaluate the individual for a history of unsafe acts: Evaluate whether the individual has a history of unsafe or problematic acts. If they do, this may influence decisions about the appropriate responsibilities for the individual i.e. they may be in the wrong job. Organizations should have a reasonable and agreed upon statute of limitations for taking these actions into account.

Jo Shapiro MD and Allan Frankel MD. @2015. Safe and Reliable Healthcare, LLC. www.safeandreliablecare.com

Drift = Risk





Attribution: Dr. Rene Amalberti



Changes in Burnout and Satisfaction With Work-Life Balance in Physicians and the General US Working Population Between 2011 and 2014

Tait D. Shanafelt, MD; Omar Hasan, MBBS, MPH; Lotte N. Dyrbye, MD, MHPE; Christine Sinsky, MD; Daniel Satele, MS; Jeff Sloan, PhD; and Colin P. West, MD, PhD

Abstract

Objective: To evaluate the prevalence of burnout and satisfaction with work-life balance in physicians and US workers in 2014 relative to 2011.

Patients and Methods: From August 28, 2014, to October 6, 2014, we surveyed both US physicians and a probability-based sample of the general US population using the methods and measures used in our 2011 study. Burnout was measured using validated metrics, and satisfaction with work-life balance was assessed using standard tools.

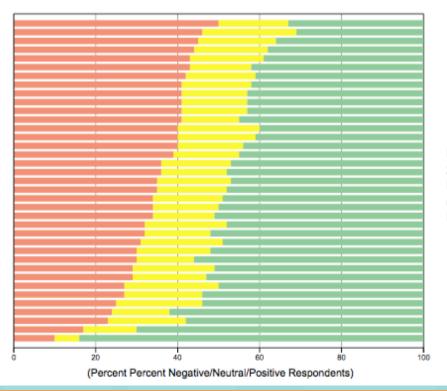
Results: Of the 35,922 physicians who received an invitation to participate, 6880 (19.2%) completed surveys. When assessed using the Maslach Burnout Inventory, 54.4% (n=3680) of the physicians reported at least 1 symptom of burnout in 2014 compared with 45.5% (n=3310) in 2011 (P<.001). Satisfaction with work-life balance also declined in physicians between 2011 and 2014 (48.5% vs 40.9%; P<.001). Substantial differences in rates of burnout and satisfaction with work-life balance were observed by specialty. In contrast to the trends in physicians, minimal changes in burnout or satisfaction with work-life balance were observed between 2011 and 2014 in probability-based samples of working US adults, resulting in an increasing disparity in burnout and satisfaction with work-life balance in physicians relative to the general US working population. After pooled multivariate analysis adjusting for age, sex, relationship status, and hours worked per week, physicians remained at an increased risk of burnout (odds ratio, 1.97; 95% CI, 1.80-2.16; P<.001) and were less likely to be satisfied with work-life balance (odds ratio, 0.68; 95% CI, 0.62-0.75; P<.001).

Conclusion: Burnout and satisfaction with work-life balance in US physicians worsened from 2011 to 2014. More than half of US physicians are now experiencing professional burnout.





People in this work setting are burned out from their work.



Note: Lower is better

25th: 55% 50th: 48% 75th: 40% Percent Negative Percentiles n = 162319 responses From 106 hospitals/facilities



Influencing Factors in Burnout / Resilience

- Do I feel valued by the organization?
- Do I have a voice?
- Do I feel supported in the work I do?
- Do I have the tools and resources to do my job?



Professionalism

Do you have issues of unprofessional behavior in your facility?

Is there confidence that the behavior will be addressed and resolved when reported?

Is there one standard or set of rules that applies to everyone, regardless of job title?



The Aim:

Hierarchy of Responsibility

No Hierarchy of Respect



"Behaviors that undermine a culture of safety"

Verbal or physical threats

Intimidation

Reluctance/refusal to answer questions, refusal to answer pages or calls

Impatience with questions

Condescending language or intonation

Safety Culture

Instituting a Culture of Professionalism: The Establishment of a Center for Professionalism and Peer Support

Jo Shapiro, MD, FACS; Anthony Whittemore, MD, FACS; Lawrence C. Tsen, MD

Leaders of medical institutions are responsible for creating environments in which physicians, scientists, and other health care professionals are able to sustain their deep capacity for high-quality, compassionate care. Creating such environments depends on supporting a culture of trust, which has been identified as the core of successful leadership.^{1–3}

The mission statements of both academic and community-based medical centers and hospitals characteristically reflect high aspirations for excellence in patient care. Yet, despite significant resources directed toward improving the delivery of health care, the rate of preventable and iatrogenic patient injuries has not improved significantly. Although a number of reasons have been cited for this lack of progress, there is growing recognition that an environment in which professionalism

Article-at-a-Glance

Background: There is growing recognition that an environment in which professionalism is not embraced, or where expectations of acceptable behaviors are not clear and enforced, can result in medical errors, adverse events, and unsafe work conditions.

Methods: The Center for Professionalism and Peer Support (CPPS) was created in 2008 at Brigham and Women's Hospital (BWH), Boston, to educate the hospital community regarding professionalism and manage unprofessional behavior. CPPS includes the professionalism initiative, a disclosure and apology process, peer and defendant support programs, and wellness programs. Leadership support, establishing be-



Learning Systems

Build organizational trust through identifying and resolving defects

Make learning visible – feedback is key

This requires ownership and infrastructure

Always move toward higher order problem solving

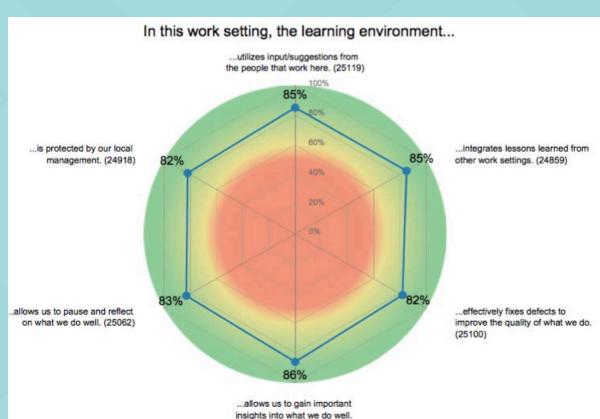
Learning Environment

v 2016

Is input well received?

Can we integrate best practices from other units?

Can we identify and fix defects?

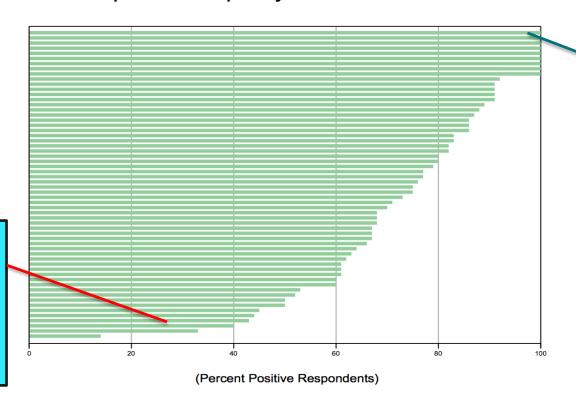


(25077)

Percentage who agree



In this work setting, the learning environment effectively fixes defects to improve the quality of what we do.



"In my 22 years

think they have ever acted on an

brought forth"

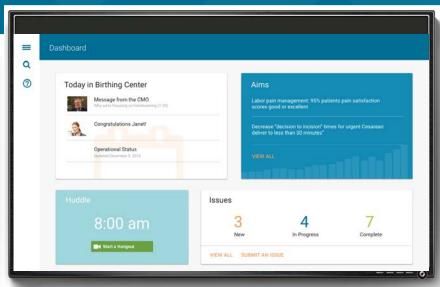
here, I don't

issue we

"When we surface a problem, it is addressed and resolved. We're able to fix lots of things"

Learning boards capture ideas and issues from everyone





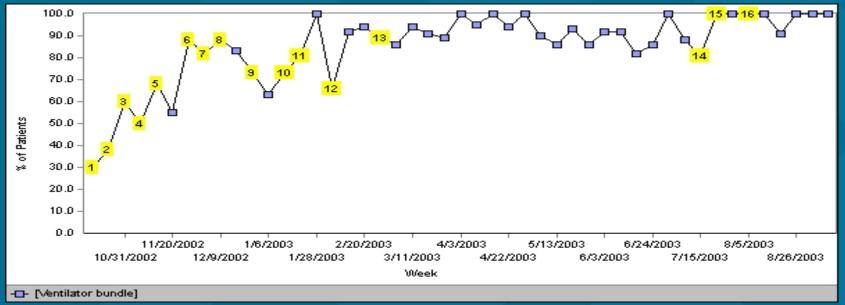
SAFE & RELIABLE

ANALOG: proven results

DIGITAL: available everywhere on any device.

ICU Percent of Patients Receiving all Four Aspects Of Ventilator Bundle





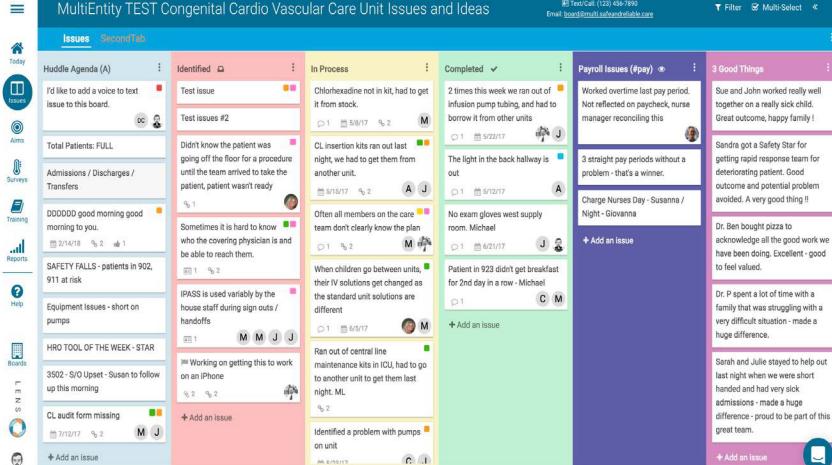
1: Marked beds at 30 degree angle

- 2: Fact Sheet for staff education
- 3: Poster with weekly data feedback
- 4: Vent bundle posted in all vent patient rooms
- 5: Began initial trials of Daily goal sheet and pre extubation sheet
- 6: Initiated Powerpoint education for RT/RN
- 7: Initiated Clinical Pharm rounds
- 8: 1st test of multidisciplinary rounds
- 9: Expanded use of Pre extubation sheet

- 10: Staff education on Goal sheet: mini inservices on unit on SBT and Pre extubation sheet
- 11: Incorporated Goal Sheet into Multidisciplinary Rounds
- 12: Impact Extravaganza (staff/MD education)
- 13: Expanded multidisciplinary rounds to include additional disciplines
- 14: Check compliance on night shift past 2 weeks
- 15: New sign at HOB.
- 16: One on one follow up by Nursing & RT managers on collaboration in weaning process









Connecting on key topics, during and between huddles







Putting it all together

- Effective Leadership present, learning, providing feedback, building trust
- Culture clearly defined behaviors that support teamwork, collaboration and patient centered care
- Learning systems units that plan forward/ reflect back, capture issues and defects for resolutions, and have clear aims to improve - cultural, operational, clinical



Thank You

michael@safeandreliablecare.com