H AHA Team Training

Advancing Care Conference Sneak Peek:

The Hidden Truth About Emotional Exhaustion and COVID from 250K Healthcare Voices

September 8, 2021





AHA CENTER FOR HEALTH INNOVATION

Upcoming Team Training Events

Webinars

- September 28, 2021 | 12:00 1:00 PM CT
- Bonus webinar: "Looking Beyond Acuity: How Intelligent Automation Can Improve Daily Staffing Practices " Register here!
- October 13, 2021 | 12:00 1:00 PM CT "Mindfully Addressing High Reliability's "Robust PI" for Multi-Level, Multi-Organizational, Enterprise-Wide Improvement" <u>Register here!</u>
- October 20, 2021 | 12:00 1:00 PM CT Bonus webinar: "Reimagine Patient and Family Communication with Mobile Technology" <u>Register here!</u>

Courses

TeamSTEPPS for Change Leaders and Champions – Virtual - Register here!

Online Community Platform

Join Mighty Network to access exclusive content and connect with your peers to share stories, tools, and content.

Update: Advancing Care Conference Postponement

Given the ongoing impact of COVID-19 and as part of the AHA's continuing efforts to support frontline health care professionals, educators, and leaders, we are postponing the inaugural Advancing Care Conference, originally scheduled for October 4-6 in Chicago, to 2022.



Today's Presenters





Dr. Bryan Sexton, PhD Director of the Duke Center for Healthcare Safety and Quality, and Associate Professor Duke University Health System, Duke University; Department of Psychiatry

Joshua Proulx, BSEE Chief Data Science Officer Safe & Reliable Healthcare



Allan Frankel, MD Chief Executive Officer Safe & Reliable Healthcare



The Hidden Truth About Emotional Exhaustion and COVID from 250K Healthcare Voices

Bryan Sexton, Joshua Proulx, Allan Frankel

Sep 8, 2021

Safe & Reliable Healthcare | Boston | Denver | Salt Lake | Washington DC © 2021 For Limited Internal Use Only – Confidential & Proprietary

Agenda



- Burnout during Covid-19
- Evidence-based strategies to reduce burnout



- How we measure burnout
- SCORE survey
- Additional insights on COVID's effect on burnout



- The underlying framework for highly reliable organizations
- Reflections on leadership and burnout

The Hidden Truth About Emotional Exhaustion and COVID from 250K Healthcare Voices

J. Bryan Sexton, PhD Director, Duke Center for Healthcare Safety and Quality Duke University Health System

twitter.com/dukehsq | www.hsq.dukehealth.org



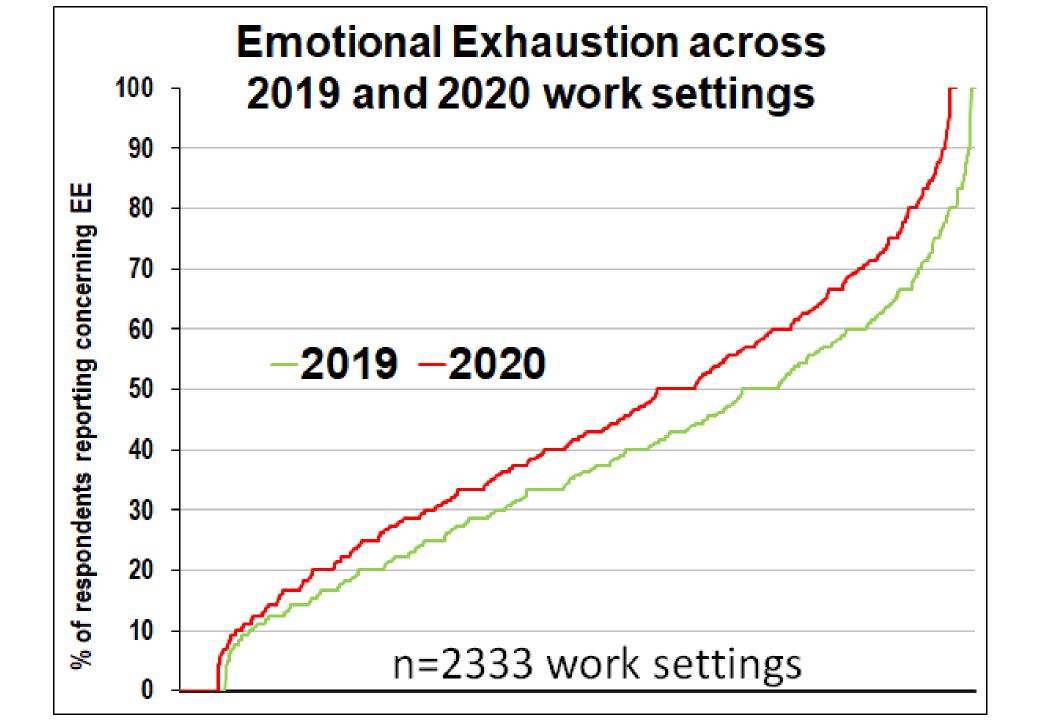


Let's get the elephants in the room out of the way... Impact of Covid-19, and Evidence that we can fix it...

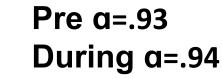


We have data from 50,000 healthcare workers in Sept 2019 and Sept 2020

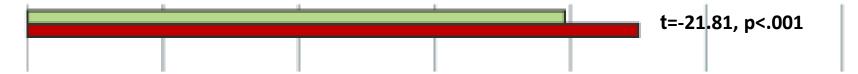




% Emotionally Exhausted Before and During Covid-19 Overall & by Role ^{•During •Pre}

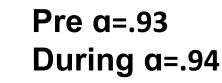


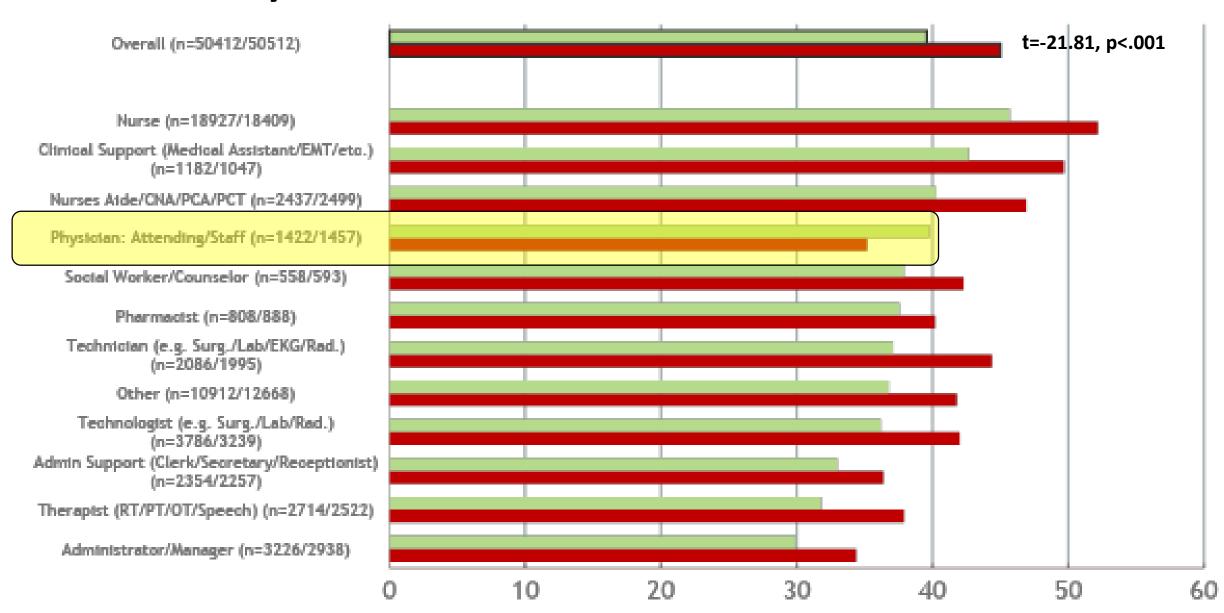






% Emotionally Exhausted Before and During Covid-19 Overall & by Role ^{•During •Pre}





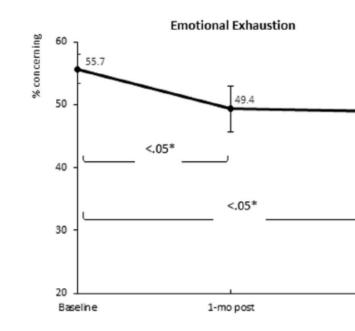
COVID-19 impact is equivalent of 2.5 EMRs in 1 year



Burnout is intense, can we cause it to go down?



ARTICLE



Work-Life Integration

Fig. 2 Effect of WISER on the percent concerning scale month post provided in brackets.

Randomized controlled trial of the "WISER" intervention to reduce healthcare worker burnout

Jochen Profit 1,2 · Kathryn C. Adair^{3,4} · Xin Cui 1,2 · Briana Mitchell¹ · Debra Brandon^{5,6} · Daniel S. Tawfik⁷ · Joseph Rigdon 8 · Jeffrey B. Gould 1,2 · Henry C. Lee 1,2 · Wendy L. Timpson⁹ · Martin J. McCaffrey¹⁰ · Alexis S. Davis¹ · Mohan Pammi¹¹ · Melissa Matthews¹² · Ann R. Stark 13 · Lu-Ann Papile¹⁴ · Eric Thomas¹⁵ · Michael Cotten¹⁶ · Amir Khan¹⁴ · J. Bryan Sexton^{3,4}

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Abstract

Objective Test web-based implementation for the science of enhancing resilience (WISER) intervention efficacy in reducing healthcare worker (HCW) burnout.

Design RCT using two cohorts of HCWs of four NICUs each, to improve HCW well-being (primary outcome: burnout). Cohort 1 received WISER while Cohort 2 acted as a waitlist control.

Results Cohorts were similar, mostly female (83%) and nurses (62%). In Cohorts 1 and 2 respectively, 182 and 299 initiated WISER, 100 and 176 completed 1-month follow-up, and 78 and 146 completed 6-month follow-up. Relative to control, WISER decreased burnout (-5.27 (95% CI: -10.44, -0.10), p = 0.046). Combined adjusted cohort results at 1-month showed that the percentage of HCWs reporting concerning outcomes was significantly decreased for burnout (-6.3% (95% CI: -11.6%, -1.0%); p = 0.008), and secondary outcomes depression (-5.2% (95% CI: -10.8, -0.4); p = 0.022) and work-life integration (-11.8% (95% CI: -17.9, -6.1); p < 0.001). Improvements endured at 6 months. Conclusion WISER appears to durably improve HCW well-being.

Clinical Trials Number NCT02603133; https://clinicaltrials.gov/ct2/show/NCT02603133

JAMA Network Open...

Original Investigation | Health Informatics

of Electronic Health Records

6

Clinician Burnout Associated With Sex, Clinician Type, Work Culture, and Use of Electronic Health Records

Discussion

The etiologies of clinician burnout are multifactorial and likely representative of a combination of the individual, local environment, regulatory requirements, and EHR technology.²² Our study describes

ve across sex for attending

Eugenia McPeek-Hinz, MD, MS; Mina Boazak, MD; J. Bryan Sexton, Robert S. Alphin, MD; Sherif Idris, MD; W. Ed Hammond, PhD; Shell

Abstract

IMPORTANCE Electronic health records (EHRs) are considered to clinician burnout.

OBJECTIVE To describe the association of EHR usage, sex, of clinicians at an academic medical institution.

DESIGN, SETTING, AND PARTICIPANTS This cross-sectional study of 1310 clinicians at a large tertiary care academic medical center analyzed EHR usage metrics for the month of April 2019 results from a well-being survey from May 2019. Participants included attending physicians advanced practice providers (APPs), and house staff from various specialties. Data were a between March 2020 and February 2021.

Clinician Burnout Associated With Sex, Clinician Type, Work Culture, and Use

EXPOSURES Clinician demographic characteristics, EHR metadata, and an instit

MAIN OUTCOMES AND MEASURES Study metrics included clinician der score, well-being measures, and EHR usage metadata.

RESULTS Of the 1310 clinicians analyzed, 542 (41.4%) were men 448 [82.7%] White clinicians, 52 [9.6%] Asian clinicians, and (58.6%) were women (mean [SD] age, 42.6 [10.3] years; 57 Asian clinicians, and 50 [6.5%] Black clinicians). Women, survey score ≥ 50 women, 423 [52.0%] vs men, 258 [47.6%]; P = .008) differences in EHR usage were found by sex for multiple metrics of time in the olume of clinical encounters, or differences in products of clinical care. Multiv burnout revealed that work culture domains were significantly associated with s esults for commitment (odds ratio [OR]. 0.542; 95% CI, 0.427-0.688; P < .001) an balance (OR, 0.643; 95% CI, 0.559-0.739; P < .001). Clinician sex significantly con to burnout, with women having a greater likelihood of burnout compared with men (OR 95% CI, 1.01-1.75; P = .04). An increased number of days ociated with less likelihood of burnout (OR, 0.966; 95% CI, spent using the EHR system was 0.937-0.996; P = .03). Overall, EHR metrics accounted for 1.3% of model variance (P = .001) compared with work culture accounting for 17.6% of variance (P < .001)

CONCLUSIONS AND RELEVANCE In this cross-sectional study, sex-based differences in EHR usage and burnout were found in clinicians. These results also suggest that local work culture factors may contribute more to burnout than metrics of EHR usage.

JAMA Network Open. 2021;4(4):e215686. doi:10.1001/jamanetworkopen.2021.5686

Open Access. This is an open access article distributed under the terms of the CC-BY License JAMA Network Open. 2021;4(4):e215686. doi:10.1001/jamanetworkopen.2021.5686

April 20, 2021 1/13

OUTPUT: Mar 25 9:50 2021

Compared for EHR metrics. endently contributed endently contributed endently contributed endently interacted with work culture domains of commitment and work life balance.

Meaning These findings suggest that clinician sex and local work culture may contribute more to burnout than the EHR.

+ Supplemental content

Author affiliations and article information are listed at the end of this article.

• Overall, EHR metrics accounted for 1.3% of model variance (*P* = .001) compared with work culture accounting for 17.6% of variance (*P* < .001).

Iture. Our multivariate k, EHR metrics, and R metrics for average it wellness domains have is test of *R*² difference

ntly to burnout was ere associated with a efficiency of usage of the

EHR by clinicians for higher volume EHR users. Other EHR metrics derived as products of clinical care, such as length of notes or percentage of appointments closed the same day, did not differ significantly by sex.

Female clinicians reported more burnout than their male colleagues did across all 3 clinician types. These results support previous findings related to sex differences in burnout and EHR use metrics.^{20,26} While female clinicians spent more total time in the EHR and had more days with appointments, these measures did not lead to more clinician encounters or more total in-basket

Table 3. Multivariate Logistic Regression Models of Clinician Demographics, EHR Metrics, and Well-being Survey Domains to Burnout

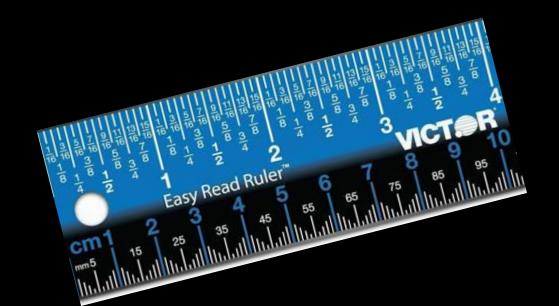
Characteristics	Model 1 (clinician demographics), OR (95% CI)	P value	Model 2 (model 1 + EHR metrics), OR (95% CI)	P value	Model 3 (model 2 + well-being metrics), adjusted OR (95% CI)	P value
Clinician sex	1.404 (1.112-1.762)	.003	1.424 (1.132-1.792)	.003	1.331 (1.010-1.754)	.04
Clinician age	1.005 (0.995-1.016)	.29	1.005 (0.995-1.016)	.31	1.008 (0.996-1.020)	.20
Average patient age	0.992 (0.986-0.998)	.01	0.989 (0.983-0.995)	<.001	0.993 (0.985-1.001)	.07
Specialty	1.056 (0.987-1.131)	.11	1.046 (0.972-1.124)	.23	1.054 (0.964-1.151)	.25
Days in EHR for month	NA	NA	0.979 (0.955-1.003)	.09	0.966 (0.937-0.996)	.03
Total time in system	NA	NA	1.000 (1.000-1.003)	.002	1.000 (1.000-1.000)	.07
Days with appointment	NA	NA	0.987 (0.955-1.019)	.43	1.003 (0.963-1.046)	.88
Total encounters	NA	NA	0.998 (0.996-1.000)	.11	1.000 (0.998-1.003)	.76
Total in-basket messages	NA	NA	1.001 (1.000-1.001)	.02	1.000 (1.000-1.000)	.19
Commitment	NA	NA	NA	NA	0.542 (0.427-0.688)	<.001
Work life	NA	NA	NA	NA	0.643 (0.559-0.739)	<.001
Belonging	NA	NA	NA	NA	0.822 (0.665-1.017)	.07
Teamwork	NA	NA	NA	NA	0.525 (0.409-0.672)	<.001
Empower	NA	NA	NA	NA	0.929 (0.729-1.184)	.55
Management	NA	NA	NA	NA	1.008 (0.811-1.251)	.95
Career development	NA	NA	NA	NA	1.017 (0.827-1.250)	.87
Safety	NA	NA	NA	NA	1.129 (0.853-1.494)	.40
Diversity	NA	NA	NA	NA	0.837 (0.710-0.985)	.03
Well-being	NA	NA	NA	NA	0.883 (0.740-1.053)	.17
Violence	NA	NA	NA	NA	1.192 (0.985-1.441)	.07
No.	1310	NA	1310	NA	1167	NA
X ²	$\chi^2_4 = 18.33$.001	$\chi^2_{9} = 41.02$	<.001	$\chi^2_{20} = 319.82$	<.001
McFadden R ²	.010	NA	.023	NA	.198	NA
AIC	1.38	NA	1.37	NA	1.147	NA
Δ Variance M1 to M2	1.3%	NA	NA	.001	NA	NA
Δ Variance M2 to M3	NA	NA	17.6%	NA	NA	<.001

Abbreviations: AIC, Akaike information criteria; EHR, electronic health record; NA, not applicable; OR, odds ratio.

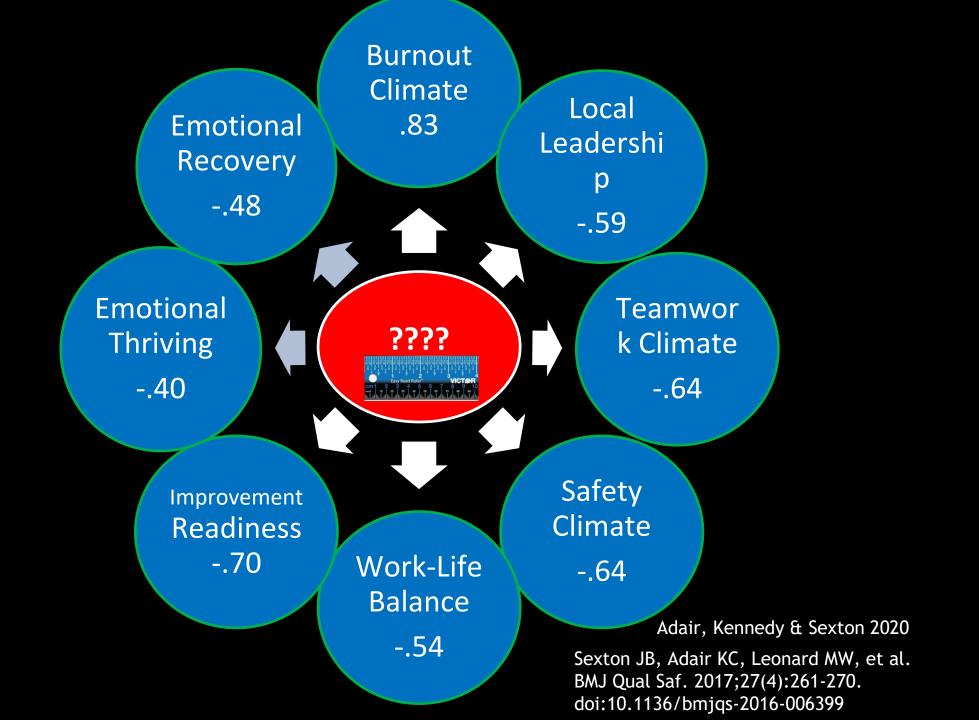
JAMA Network Open. 2021;4(4):e215686. doi:10.1001/jamanetworkopen.2021.5686

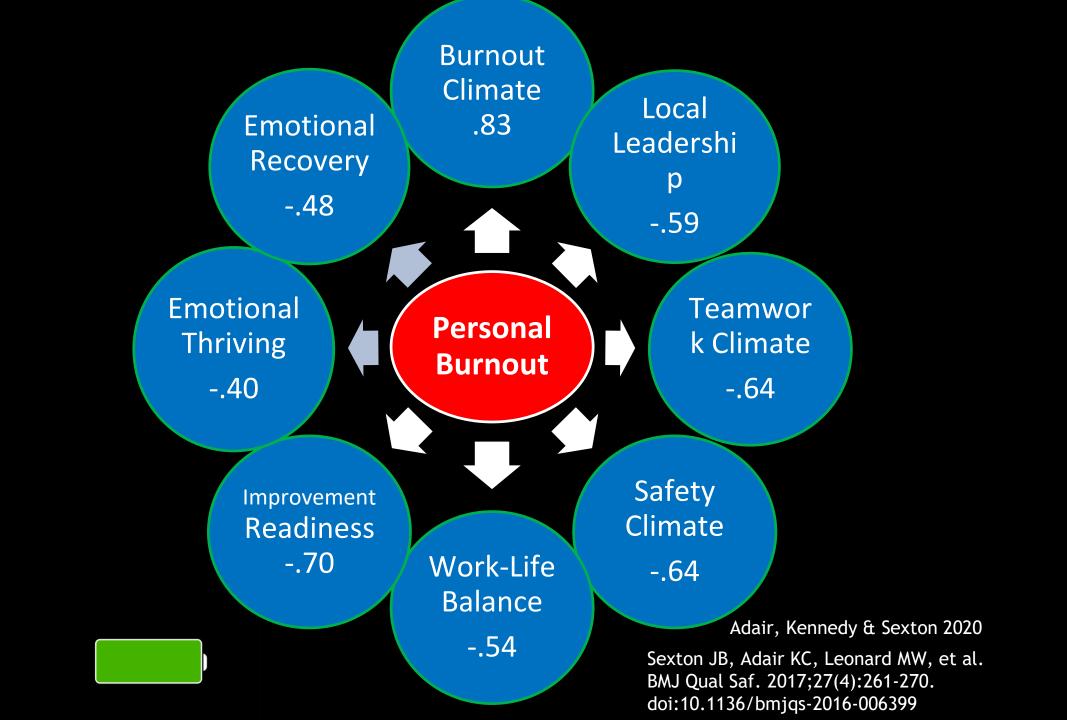


What if there were a metric so potent that it predicted clinical outcomes, operational outcomes, safety culture, and well-being?

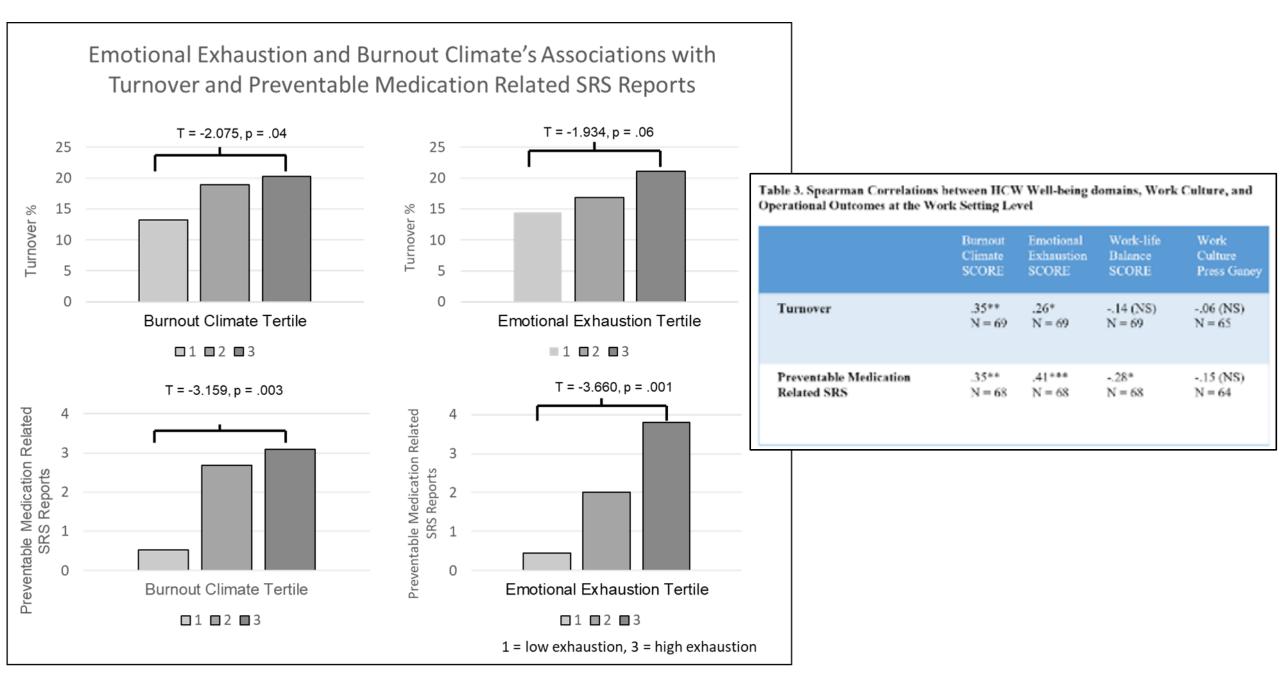








Adair, Rehder & Sexton 2021



BMJ Quality & Safety Online First, published on 9 October 2017 as 10.1136/bmjcs-2016-006399 ORIGINAL RESEARCH

Ducuiding foodbook following

The Leadership scale begins with the prompt "In this work setting, local leadership...". Then individual items ask:

Is available at predictable times.

Regularly makes time to provide positive feedback to me about how I am doing. Provides frequent feedback about my performance. Provides useful feedback about my performance. Communicates their expectations to me about my performance.

> J Bryan Sexton,^{1,2} Kathryn C Adair,³ Michael W Leonard,^{4,5} Terri Christensen Frankel,⁴ Joshua Proulx,⁴ Sam R Watson,⁶ Brooke Magnus,⁷ Brittany Bogan,⁸ Maleek Jamal,⁹

Each 10-point increase in Leadership was associated with a 28% reduction in the odds of burnout for the respondent

end of article.

Correspondence to

associations between receiving feedback about actions taken as a result of WR and healthcare worker assessments of patient safety culture, employee able leadership engagement with quality that can be an empowering resource for HCW^2 at a time when resources are

BAJ QUALITY & SAFETY April 2018 Volume 27 Issue 4

Ethnography to study healthcare improvements

Learning from voided computer medication orders

Providing Feedback: the secret sauce in Safety WalkRounds? qualitysafety.bmj.com



Positive Rounding Frame:

"What are three things that are going well around here, and one thing that could be better?"



The Joint Commission Journal on Quality and

Patient Safety Available online 22 April 2021 In Press, Journal Pre-proof (?)



Safety Culture and Workforce Well-Being Associations with Positive Leadership WalkRounds

| Bryan Sexton PhD^{a, b} 🕾 🖾, Kathryn C. Adair PhD^b, Jochen Profit MD^c, Jonathan Bae MD^{b, d, e}, Kyle Rehder MD^{b,} ^{e, f}, Tracy Gosselin PhD, RN ^{e, g}, Judy Milne RN ^{e, g}, Michael Leonard MD ^h, Allan Frankel MD ^h

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https://doi.org/10.1016/j.jcjq.2021.04.001

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Background

Interventions to decrease burnout and increase well-being in health care workers (HCW) and improve organizational safety culture are urgently needed. This study was conducted to determine the association between Positive Leadership WalkRounds (PosWR), an organizational practice in which leaders conduct rounds and ask staff about what is going well, and HCW well-being and organizational safety culture.

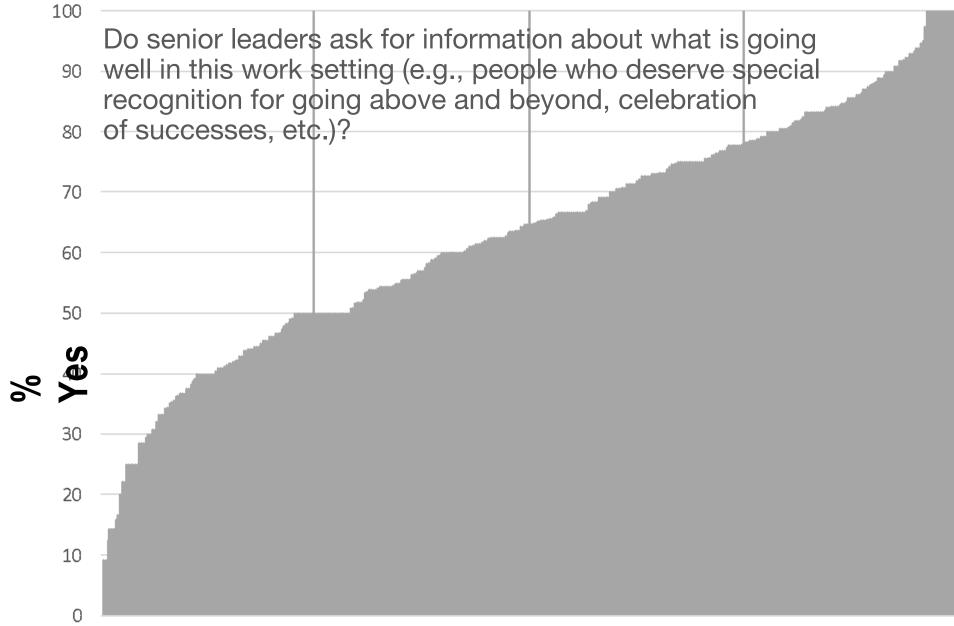
The Joint Commission **Joint Commission** Resources **NEWS RELEASE** FOR IMMEDIATE RELEASE Media Contact: Katie Bronk **Corporate Communications** (630) 792-5175 kbronk@jointcommission.org View the multimedia news release Positive Leadership WalkRounds improve health care worker well-being and safety culture

Study in July 2021 issue of The Joint Commission Journal on Quality and Patient Safety

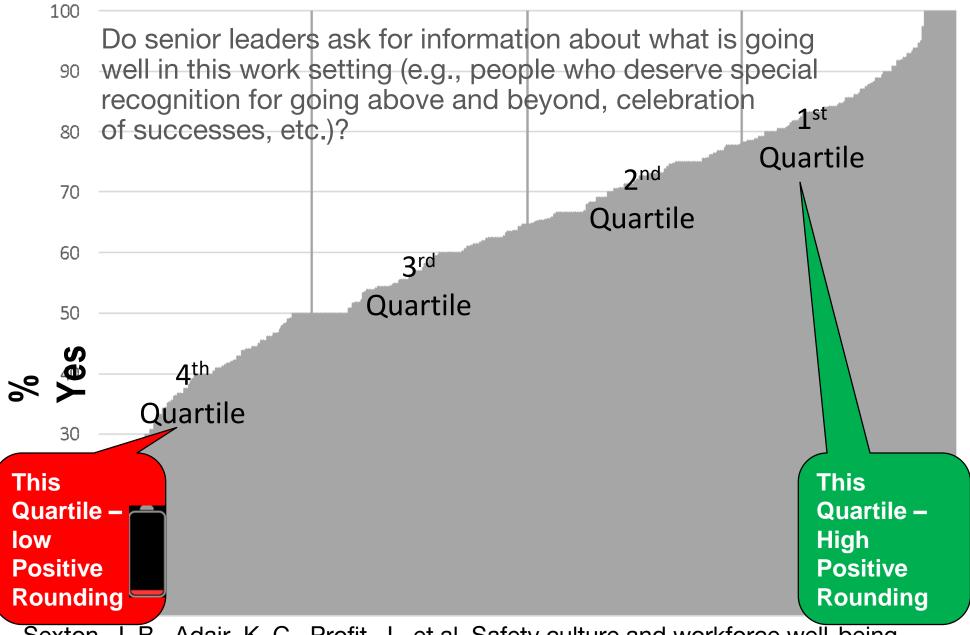
(OAKBROOK TERRACE, Illinois, June 22, 2021) - Interventions to decrease burnout in health care are urgently needed. A new study in the July 2021 issue of The Joint Commission Journal on Quality and Patient Safety (JQPS) evaluates the association between Positive Leadership WalkRounds (PosWR), and health care worker (HCW) well-being and organizational safety culture.

The study, "Safety Culture and Workforce Well-Being Associations with Positive Leadership WalkRounds," was completed at Duke University Health System, Durham, North Carolina, and involved senior leaders who were encouraged to conduct PosWR, an organizational practice in which leaders conduct rounds and ask staff about what is going well.

Methods

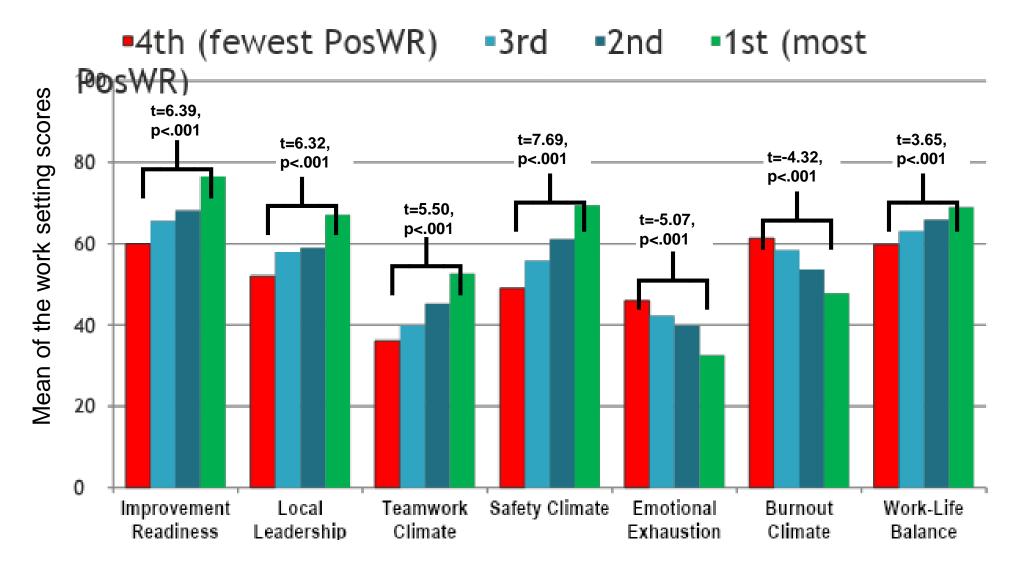


Sexton, J. B., Adair, K. C., Profit, J., et al. Safety culture and workforce well-being associations with Positive WalkRounds. Jt Comm J Patient Saf Qual. In press, 2021.



Sexton, J. B., Adair, K. C., Profit, J., et al. Safety culture and workforce well-being associations with Positive WalkRounds. Jt Comm J Patient Saf Qual. In press, 2021.

Safety Culture & Well-Being by Positive Rounding Quartiles



Sexton, J. B., Adair, K. C., Profit, J., et al. Safety culture and workforce well-being associations with Positive WalkRounds. Jt Comm J Patient Saf Qual. In press, 2021.



The Joint Commission Journal on Quality and Patient Safety Volume 47, Issue 5, May 2021, Pages 306-312



Perceptions of Institutional Support for "Second Victims" Are Associated with Safety Culture and Workforce Well-Being

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The Joint Commission Journal on Quality and Patient Safety 2021; 000:1-7

J. Bryan Sexton, PhD, et al.

Perceptions of Institutional Support for "Second Victims"

Perceptions of Institutional Support for Are Associated with Safety Culture and Well-Being

J. Bryan Sector, PhD"; Kathryn C. Adair, PhD; Jachen Profil, MD; Judy Milne, 1 Sue Scott, PhD, NN: Allan Frankel, MD

Objective: This study was performed to determine whether health care worker [14]. support for second victims were associated with institutional safety culture and workfi

Methods: HCWs' owneress of work colleagues emotionally mamatized by an an tima), their proceptions of level of institutional support for such colleagues, safety or assessed using a cross-sectional survey (SOORE [Safety, Communication, Operational Safery culture scores and workforce well-being scores were compared across work set: (bottom quartile) perceptions of second victim support.

Results: Of the 10,627 respondents (81.5% response rate), 36.3% knew at least one tized by an unanticipated clinical event. Across 376 work settings, the percentage of resp that second victims receive appropriate support ranged from 0% to 100%. Across a herween perceived support for second victims and all SCORE domains (Improvement work Climate, Safety Climate, Entotional Exhaustion, Burnout Climate, and Work-I of respondents who knew an actual second victim and reported inadequate instituti negative in their assessments of safety culture and well-being than the 42.2% who rep

Conclusion: Perceived institutional support for second victions was associated with tional exhaustion. Investment in programs to support second victims may improve. being.

clivering health care can be rich with purpose and ceived support) provimeaning in one moment and potentially fraught with tragedy and despair in the next. A specific vulnerability of health care workers (HCWs) is that unintendional mistakes that lead to tragedy for patentially could have) can generate extreme feelings of guilt; have severe legal, financial, and professional repercussions; and culminate in profound paychological insecurity.^{1,1} HCWs may suffer significant errortional harm and humout' regardless of their actual contrihotion to the error or whether the event was preventable. Patients and their loved ones are the first victims of this harm, but HCWs exposed directly and indirectly to this suffering are often called the second victims." Nationally representative data are still lacking, but preliminary prevalence This is a cross-section of second victims estimates are 14% to 30% in the past year. 2016 from 13,040 H and 50% to 60% in previous years.^{3,6} The extent to which an HCW feels supported in the aftermath of one of these tragedies may play a pivotal role in their ability to recover. Social science has firmly established that one's perception of

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having supportive others to turn to in times of stress (per-

of stress."" The pres perceived institutions ciated with better sal (full sample), and (2) victim in their work s tional support are sig sessments of safety ca report adequate supp second victim).

METHODS

one academic health e cation. Operational R torvey. D-17 All slight time equivalent comr at least four consecuti SCORE's safety or Readiness, Lucal Lead

Climate, SCORE's v Climate, Emotional



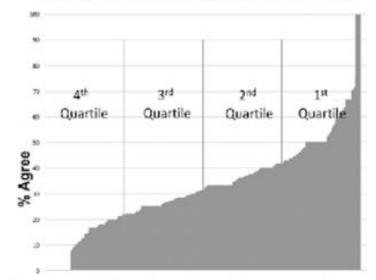


Figure 1: The graph shows quartile distribution of support for second victims, as measured by agreement with the statement "Individua's emotionally traumatized by an unanticipated clinical event within my work setting raceive appropriate support from this health system." All respondents are included (that is, this was not limited to those who reported awareness of a second victimit

SCORE Domains by Quartile

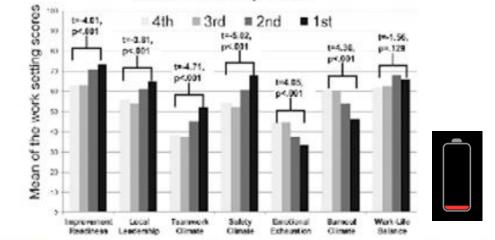


Figure 2: Shown here are SCORE domains by quartile of % agreement that second victims receive appropriate support from the health system. All respondents are included in the above figures and analyses (that is, the was not limited to these (reitive boosts of a second victor).

SCORE Safety Culture and Well-being Survey

- Psychometrically superior to any other published instrument
- Incorporates workforce well-being into assessments of norms
- Predicts clinical and operational outcomes
- Published Links to:
 - Leader Walkrounds
 - Positive Walkrounds
 - Second Victim Support
 - Preventable Harm
 - Turnover
 - Disruptive Behaviors

Sexton JB, Adair KC, Leonard MW, et al. BMJ Qual Saf. 2017;27(4):261-270. doi:10.1136/bmjqs-2016-006399





JAMA Network Open.

Original Investigation | Health Policy Personal and Professional Factors Associated With Work-Life Integration Among US Physicians

Daniel S. Tawfik, MD, MS; Tait D. Shanafelt, MD; Liselotte N. Dyrbye, MD, MHPE; Christine A. Sinsky, MD; Colin P. West, MD, PhD; Alexis S. Davis, MD, MS; Felice Su, MD; Kathryn C. Adair, PhD; Mickey T. Trockel, MD, PhD; Jochen Profit, MD, MPH; J. Bryan Sexton, PhD

Abstract

IMPORTANCE Poor work-life integration (WLI) occurs when career and personal responsibilities come in conflict and may contribute to the ongoing high rates of physician burnout. The characteristics associated with WLI are poorly understood.

OBJECTIVE To identify personal and professional factors associated with WLI in physicians and identify factors that modify the association between gender and WLI.

DESIGN, SETTING, AND PARTICIPANTS This cross-sectional study was based on electronic and paper surveys administered October 2017 to March 2018 at private, academic, military, and veteran's practices across the US. It used a population-based sample of US physicians across all medical specialties. Data analysis was performed from November 2019 to July 2020.

MAIN OUTCOMES AND MEASURES WLI was assessed using an 8-item scale (0-100 point scale, with higher scores indicating favorable WLI), alongside personal and professional factors. Multivariable linear regressions evaluated independent associations with WLI as well as factors that modify the association between gender and WLI.

RESULTS Of 5197 physicians completing surveys, 4370 provided complete responses. Of the physicians who provided complete responses, 2719 were men, 3491 were White/Caucasian (80.8%), 3560 were married (82.4%), and the mean (SD) age was 52.3 (12.0) years. The mean (SD) WLI score was 55 (23). Women reported lower (worse) mean (SD) WLI scores than men overall (52 [22] vs 57 [23]; mean difference, -5 [-0.2 SDs]; P < .001). In multivariable regression, lower WLI was independently associated with being a woman (linear regression coefficient, -6; SE, 0.7; P < .001) as well as being aged 35 years or older (eg, aged 35 to 44 years: linear regression coefficient, -7; SE, 1.4; P < .001), single (linear regression coefficient, -3 vs married; SE, 1.1; P = .003), working more hours (eg, 50 to 59 hours per week vs less than 40 hours per week: linear regression coefficient, -9; SE, 1.0; P < .001) and call nights (linear regression coefficient, -1 for each call night per week; SE, 0.2; P < .001), and being in emergency medicine (linear regression coefficient, -18; SE, 1.6, P < .001), urology (linear regression coefficient, -11; SE, 4.0; P = .009), general surgery (linear regression coefficient, -4; SE, 2.0; P = .04), anesthesiology (linear regression coefficient, -4; SE, 1.7; P = .03), or family medicine (linear regression coefficient, -3; SE, 1.4; P = .04) (reference category, internal medicine subspecialties). In interaction modeling, physician age, youngest child's age, and hours worked per week modified the associations between gender and WLI, such that the largest gender disparities were observed in physicians who were aged 45 to 54 years (estimated WLI score for women, 49; 95% CI, 47-51; estimated WLI score for men, 57, 95% CI, 55-59; P < .001), had youngest child aged 23 years or older (estimated WLI score for women, 51; 95% CI, 48-54; estimated WLI score for men, 60; 95% CI, 58-62; P < .001), and were working less than 40 hours per week (estimated WLI score for women, 61; 95% CI, 59-63; estimated WLI score for men; 70; 95% CI, 68-72; P < .001)

(continued)

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Key Points

Question Which personal and professional factors are independently associated with work-life integration in physicians, and which factors modify the association between gender and worklife integration?

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Findings In this cross-sectional study based on survey data of 4370 US physicians, women physicians consistently reported significantly worse work-life integration scores independent of other personal and professional factors, with a gender disparity most pronounced for midcareer physicians, those with adult children, and those working fewer hours per week.

Meaning These findings suggest that systemic change is needed to help physicians achieve appropriate integration of work life and home responsibilities.

+ Supplemental content

Author affiliations and article information are listed at the end of this article.







n = 4370 US physicians



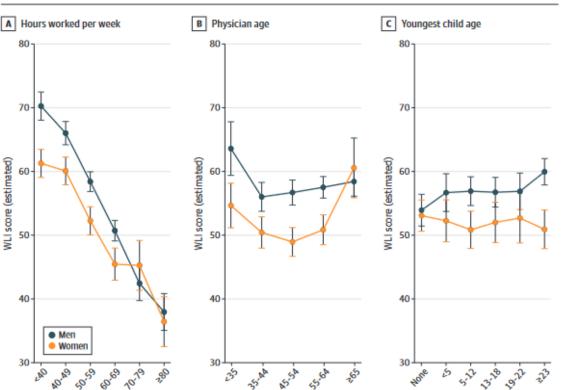
JAMA Network Open | Health Policy



Table 2. Multivariable Linear Regression Showing Personal and Professional Factors as Independent Variables Associated With Work-Life Integration^a (continued)

Variable	Coefficient (SE)	P value	Overall P value ^b	
Hours worked per week (vs <40 h)	0	NA		
40-49	-2 (1.0)	.09		
50-59	-9 (1.0)	<.001	<.001	
60-69	-16 (1.1)	<.001		
70-79	-22 (1.4)	<.001		
≥80	-27 (1.5)	<.001		
Call nights per week (per night)	-1 (0.2)	<.001		

Figure 2. Multivariable Interaction Models Estimating Work-Life Integration (WLI) Scores



Abbreviation: NA, not applicable.

- ^a N = 4370 respondents. Dependent variable is worklife integration score (0-100 point scale). Estimates via multivariable linear regression with all covariates shown.
- ^b Overall P-values for categorical variables via Wald test.

Estimated WLI scores showing the interactions between gender and (A) mean hours worked per week, (B) physician age in years, and (C) age of youngest child in years. Models also adjusted for relationship status and specialty. Error bars denote

specialty Internal Medicine Subspecialty	
General Internal Medicine	
Psychiatry	
Family Medicine	
General Surgery Subspecialty	
Emergency Medicine	
Orthopedic Surgery	
General Pediatrics	
Anesthesiology	
Pediatric Subspecialty	
Radiology	
Neurology	
Obstetrics and Gynecology	
General Surgery	
Ophthalmology	
Pathology	
Dermatology	
Physical Medicine and Rehabilitation	
Neurosurgery	
Radiation Oncology	
Otolaryngology	
Urology	
Preventive Medicine / Occupational Medicine	
Other	
Missing	

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SCORE Integrated Survey

Integrated Survey with Latest Science

Engagement, Burnout/Wellness, Resilience, Improvement Readiness, Psychological Safety

Add Your Questions Maps to AHRQ SOPS + SAQ Able to add custom questions and compare YoY data

Diagnostics that Support Action

Data visualizations + automated reports; themes and trends across organization Automated survey debriefing and action planning to develop and track improvement plans

Enhanced Benchmarking

Includes >700 organizations; largest burnout benchmark S Safety

- **C** Communication
- **O** Operational Risk
- **R** Resilience/Burnout
- E Engagement

Three Tiers of Real-time Analytics on SCORE Platform Insights Tailored for Managers to Take Action, Customizable

Notable Insights by Percentile and Key SCORE Items 371 respondents in 20 work settings at Demo Hospital

%ile

%ile

work I do

salaries.

benefits package

Engagement Strengths

Engagement Opportunities

87th With respect to the participation in decision making that I experience here, it is

77th With respect to the participation in decision making that I experience here, the

76th With respect to the participation in decision making that I experience here, I

22nd With respect to advancement in this organization, I am paid enough for the

22nd With respect to advancement in this organization, this organization pays good

28th With respect to advancement in this organization. I am satisfied with my total

clear to whom I should address specific problems.

can participate in decisions about the nature of my work.

decision making process is clear to me.

Cultural Strengths

96th In the past work week ate a poorly balanced meal. 95th In the past work week arrived home late from work.

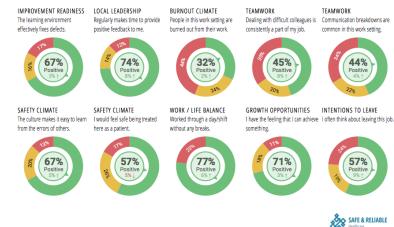
%ile

90th In the past work week skipped a meal.

%ile Cultural Opportunities

- **5th** The values of facility leadership are the same values that people in this work setting think are important.
- 8th I would feel safe being treated here as a patient. 27th Disagreements in this work setting are appropriately resolved (i.e., not who is right but what is best for the patient).

Key Drivers of Culture & Engagement (Green is good)



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All SCORE Items

371 respondents in 20 work settings at Demo Hospital

Improvement Readiness In this work setting, the learning environment...

... is protected by our local management. ... utilizes input/suggestions from the people that work here. ... integrates lessons learned from other work settings.

...allows us to gain important insights into what we do well.

...effectively fixes defects to improve the quality of what we do. ...allows us to pause and reflect on what we do well.

Local Leadership

In this work setting, local leadership...

...is available at predictable times.

- ...communicates their expectations to me about my performance.
- ...regularly makes time to provide positive feedback to me about how I am doing.

... provides useful feedback about my performance.

... provides meaningful feedback to people about their performance.

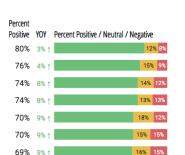
... provides frequent feedback about my performance.

...regularly makes time to pause and reflect with me about my work.

Burnout Climate

Events in this work setting affect the lives of people here in an emotionally unhealthy way. People in this work setting are working too hard on their jobs.

- People in this work setting are frustrated by their jobs.
- People in this work setting are burned out from their work
- People in this work setting are exhausted from their work.



Positive YOY Percent Positive / Neutral / Negative

29%

26%

24%

23%

Positive YOY Percent Positive / Neutral / Negative

16% 11%

14% 13%

17% 119

16% 17%

20% 15%

Percent

73% 7% ↑

73% 2%⊥

72% 1% ↑

71% 5% 1

67% 3% t

65% 3% ↑

Percent

41% 0%

32% 6%

32% 5%

32% 2%

32% 7% ↑

Scatterplots of Key SCORE Domains

× 100%

✓ 92%

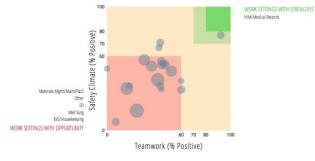
371 respondents in 20 work settings at Demo Hospital

Benchmark: 2018_q3_us_magnet 67%

PEDIATRIC - Oncology-6601

WDP Operations Center-6607

WDP Clinical TRANSPORT-6071



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Demo Hospital MAGNET

63%

100%

× 90%

✓ 92%

44%

× 88%

95%

✓ 83%

44%

×82%

×81%

√67%

2

Resources

10%

53%

× 33%

× 8%

RN-to-RN

69%

76%

90%

75%

31%

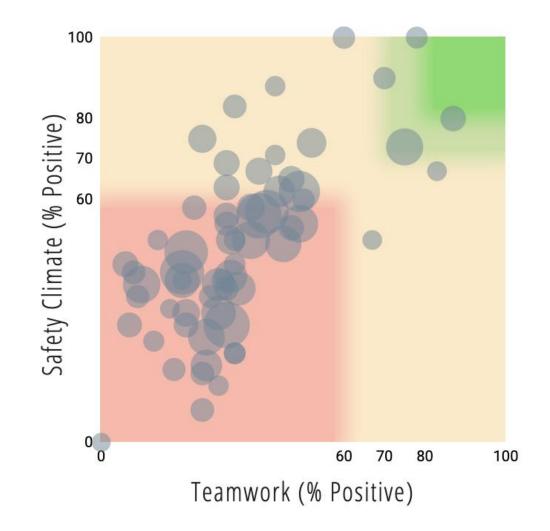
× 82%

× 76%

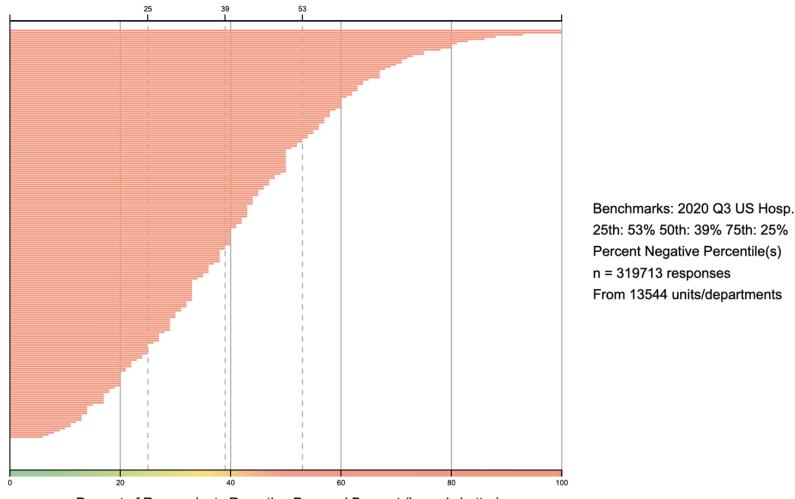
√ 82%

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Culture exists locally within each unit/department You can improve the facility culture by targeting struggling teams

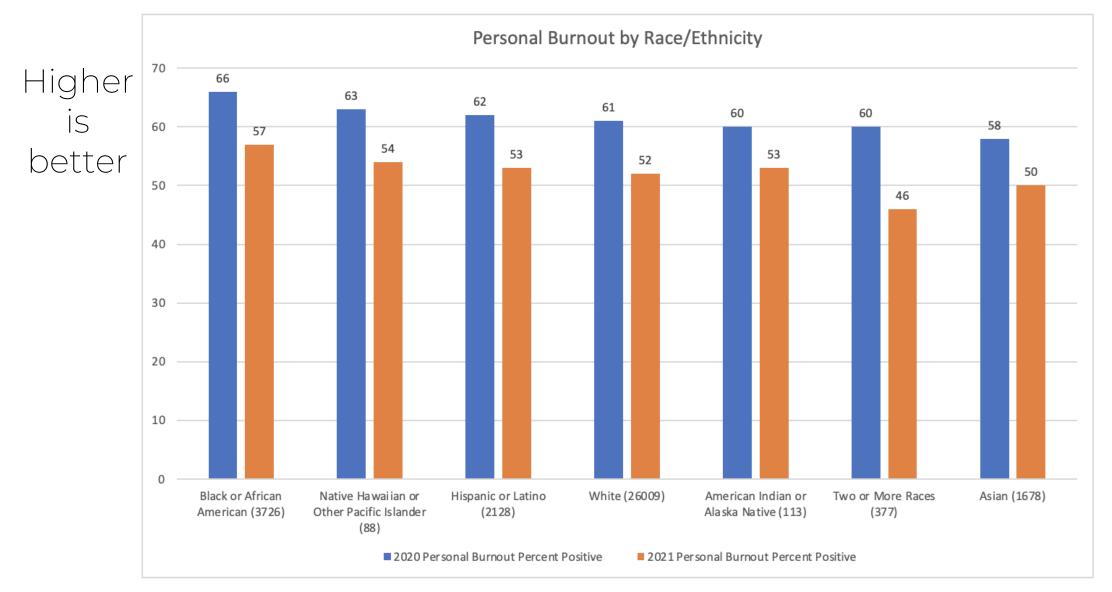


Personal Burnout by Department Variation within the Benchmark You can improve the facility culture by targeting struggling teams



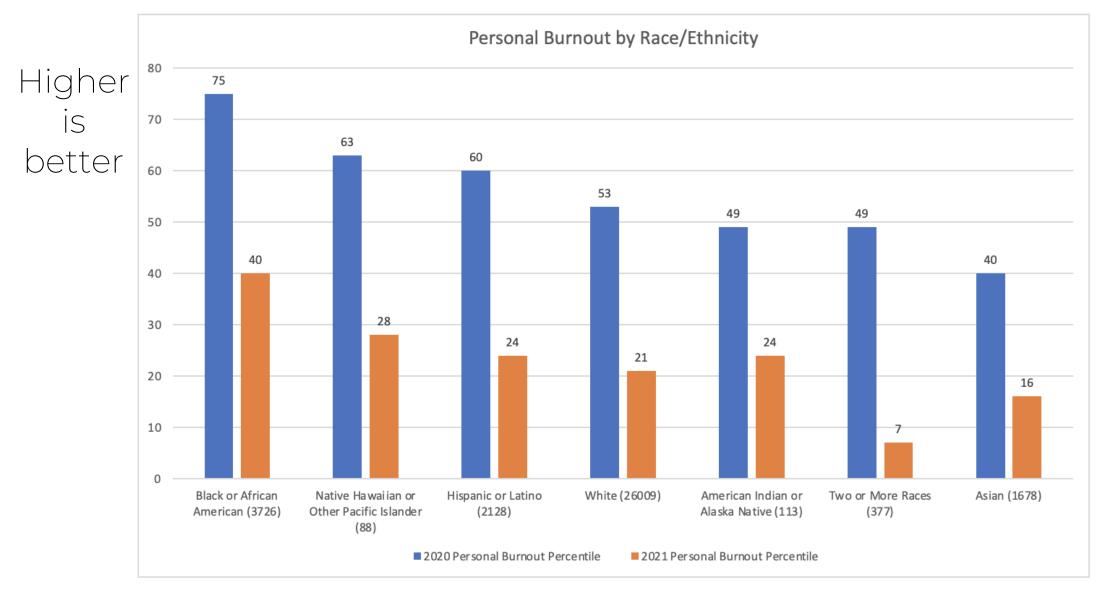
Percent of Respondents Reporting Personal Burnout (lower is better)

Personal Burnout Changes by Race/Ethnicity



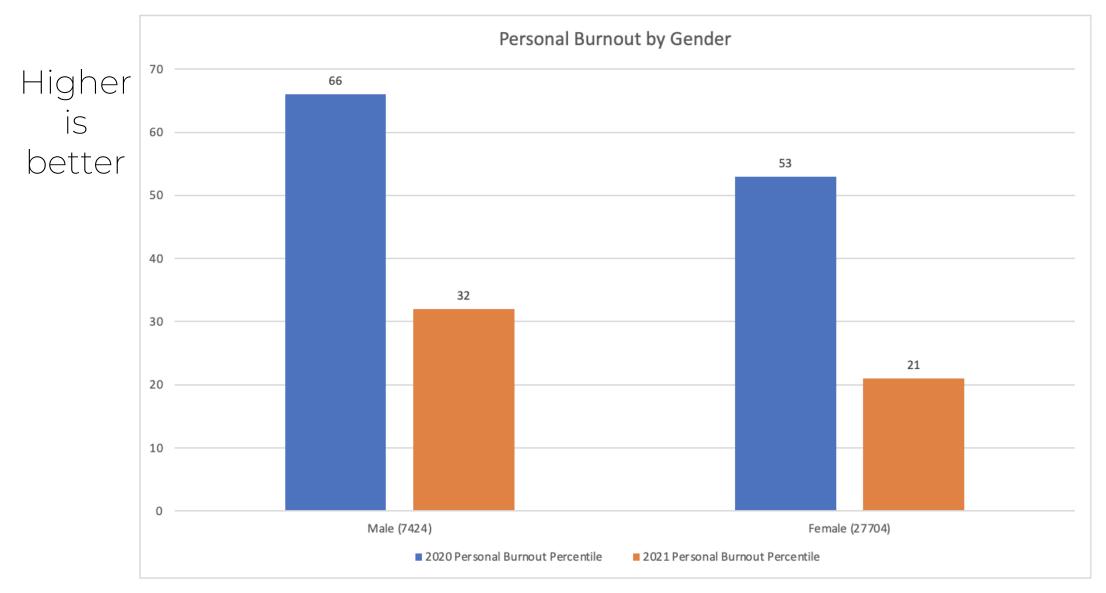
Data: Pre-Survey of 34,119 respondents in 90+ hospitals: Q1 2020 Post-Survey: Q2 2021

Personal Burnout Changes by Race/Ethnicity



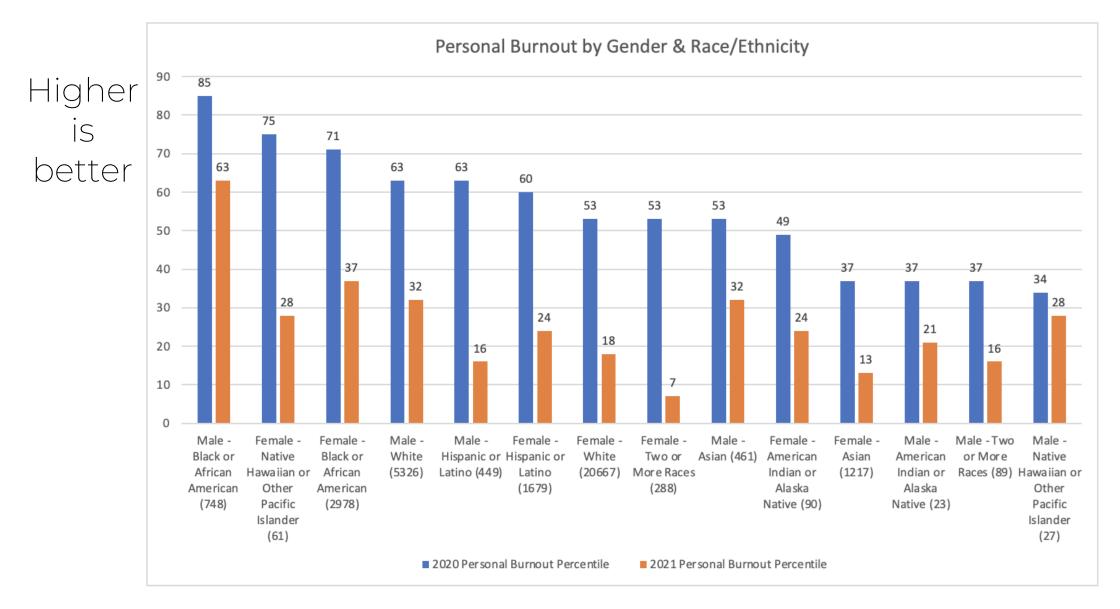
Data: Pre-Survey of 34,119 respondents in 90+ hospitals: Q1 2020 Post-Survey: Q2 2021

Personal Burnout Changes by Gender



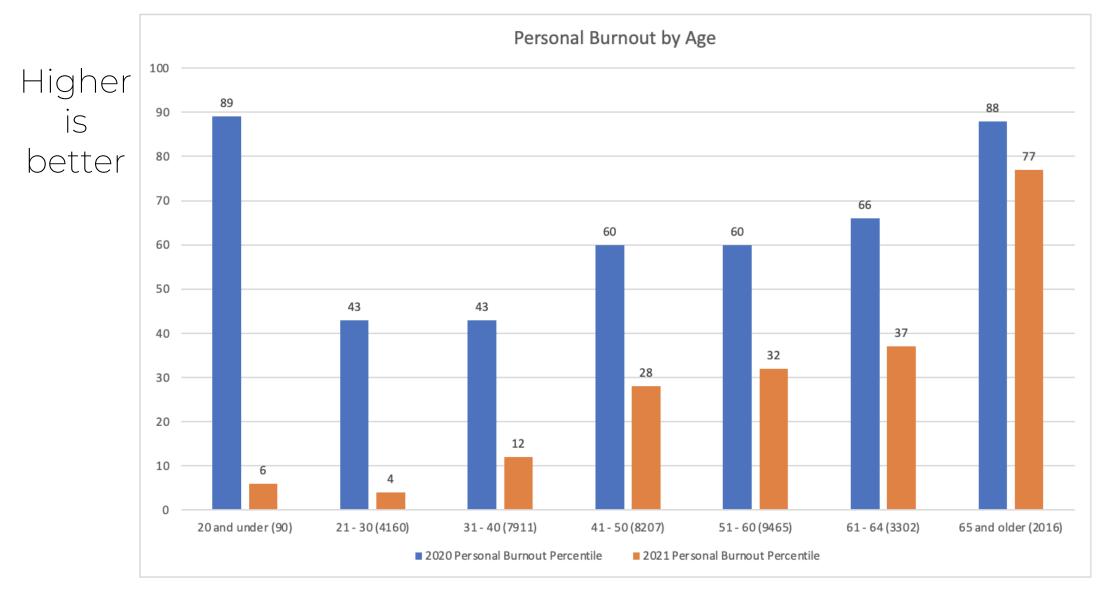
Data: Pre-Survey of 35,128 respondents in 90+ hospitals: Q1 2020 Post-Survey: Q2 2021

Personal Burnout Changes by Gender & Race/Ethnicity



Data: Pre-Survey of 34,103 respondents in 90+ hospitals: Q1 2020 Post-Survey: Q2 2021

Personal Burnout Changes by Age



Data: Pre-Survey of 35,151 respondents in 90+ hospitals: Q1 2020 Post-Survey: Q2 2021

Effect of Work from Home during COVID

CULTURE	WFH <50 hours/week Percent Positive	CULTURE	WFH 50+ hours/week Percent Positive
Improvement Readine	ess 67% 4%↓	Improvement Readiness	75% 5% ↑
Local Leadership	64% 4%↓	Local Leadership	73% 4% †
Burnout Climate [‡]	36% 10%↓	Burnout Climate [‡]	54% 1% †
Personal Burnout [‡]	52% 10%↓	Personal Burnout [‡]	67% 0%
Emotional Thriving	59% 5%↓	Emotional Thriving	62% 1% †
Emotional Recovery	67% 5%↓	Emotional Recovery	76% 0%
Teamwork	46% 1%↓	Teamwork	56% 5% †
Safety Climate	58% 3%↓	Safety Climate	68% 5% †
Work / Life Balance	62% 2%↓	Work / Life Balance	74% 0%
ENGAGEMENT		ENGAGEMENT	
Growth Opportunities	63% 2%↓	Growth Opportunities	66% 2% †
Job Certainty	70% 5%↓	Job Certainty	73% 1% ↑
Intentions to Leave	86% 3%↓	Intentions to Leave	90% 1% †
Decision Making	46% 3%↓	Decision Making	54% 5% ↑
Advancement	19% 0%	Advancement	26% 2% †
Workload Strain	65% 4%↓	Workload Strain	77% 1%↑

Data: Pre-Survey of 90+ hospitals: Q1 2020 Post-Survey: Q2 2021

Challenges & Opportunities Posed by Covid 19







Did Covid Unify or Diversify Us?

- Highly individualized experiences
- High Reliability: Reluctance to simplify interpretations
- Leaders need a **sophisticated lens** moving forward



Burnout is the Buzzword, But...

- * We must be 'reluctant to simplify interpretations'
- We must not assume we understand cause, symptom or solution

Personal Accountability

Some people are less burned out
Some people are more burned out
Burnout shows up in different ways
Burnout occurs at different times



Understanding Burnout

Symptoms of Burnout

- Frustration
- Emotional exhaustion
- Cynicism
- Inefficacy

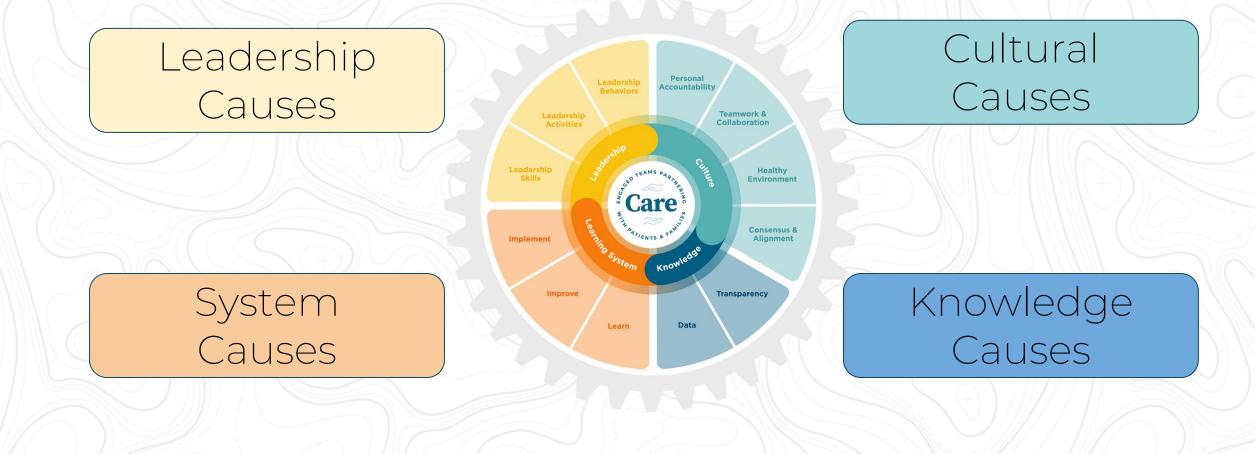


The 'what' but not the 'why'



Christina Maslach, PhD Professor Emeritus, Berkeley

Categorizing the Causes of Frustration, Emotional Exhaustion, Cynicism, Inefficacy, & Depersonalization



LEADERSHIP

Non-Negotiable Respect Guardians of Learning Exemplars of Culture Visible Action

Self-Reflecting Improvement-Capable Sustainable **LEARNING**



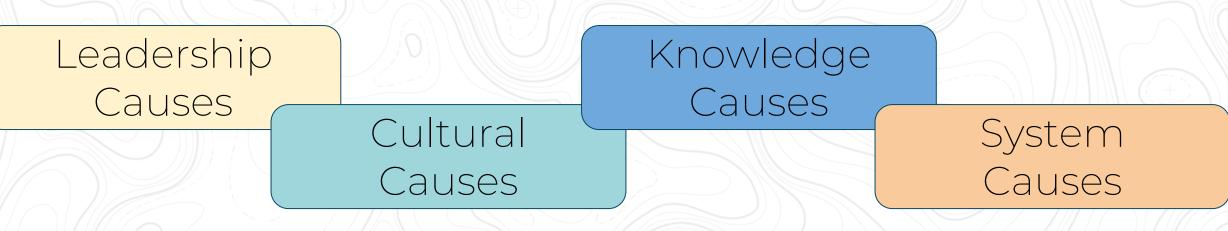
CULTURE

Courage Agency Community Collaboration

Clinical Operational and Cultural Measurement Up-to-Date and Visible **KNOWLEDGE**

Thinking of a time when you have personally experienced burnout in the last twelve months...

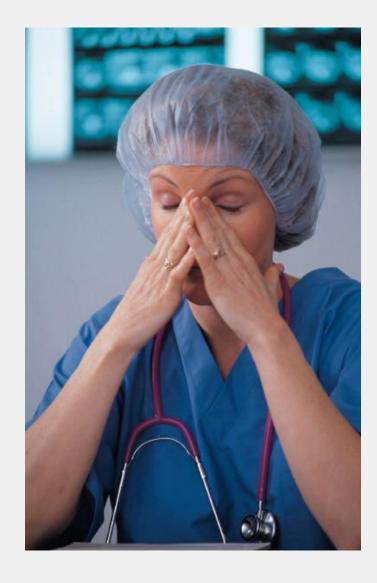
- Which of these symptoms resonate the most with your experience?
 - Frustration, Emotional Exhaustion, Cynicism, Inefficacy, Depersonalization
- Can you identify the causes?



Factors Influencing Burnout and 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?

> *Personal Accountability* How effectively do I provide these things to others?



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Transformational Leaders

- Create meaningful relationships of trust, psychological safety and community
- Set a positive tone and proactive stance
- Ask questions (Appreciative Inquiry) and listen
- **'Think out loud':** establish shared mental models *"Here's what I'm thinking, what are you thinking?"*
- Encourage and welcome diverse opinions, ideas & solutions
- Feel safe to "improvise" and learn



How do I 'show up'? When do I 'show up'?



6. Ask for their Thoughts and Ideas



4. Be Curious and Appreciative

1. Be Visible; 'Go to the Gemba'



2. Listen... Listen... Listen



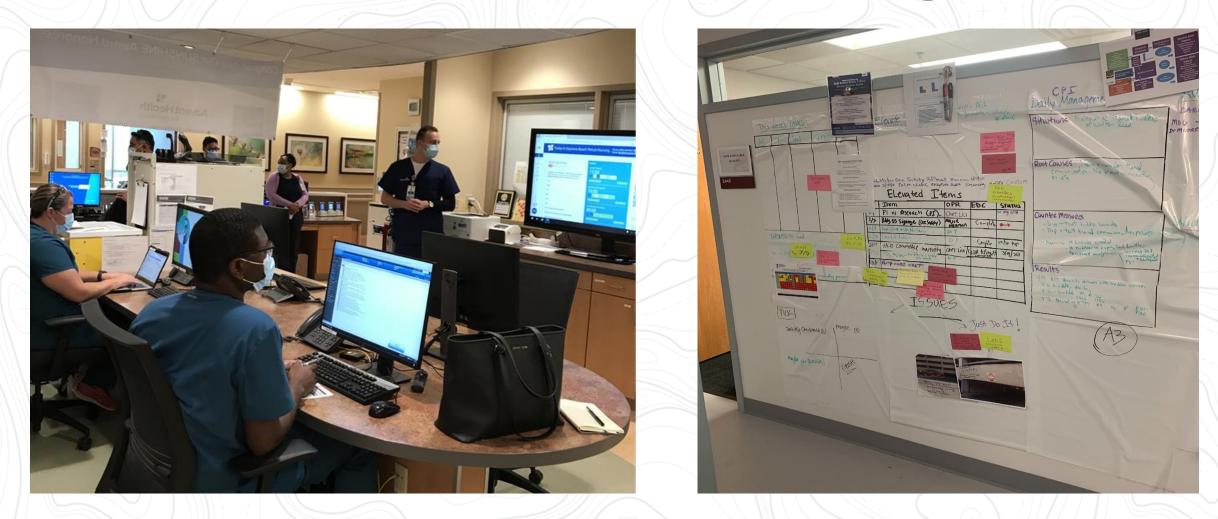








Resilience Intervention: Visual Management



Effective visual management systems drive cultural change, learning, staff engagement in "voice" and problem solving and allows the real-time sharing of data, stories and progress. Safe & Reliable Healthcare | Boston | Washington, DC | Denver | Salt Lake © 2021 Proprietary and Confidential

Visual management is not a panacea...

More than just another 'tick-box initiative'



 Visual Management Systems are a high-reliability intervention that diminishes leadership, cultural, knowledge and system causes of burnout, and builds team resilience.

Stories & Exemplars 'from the field'



Burnout Reflections

Some leadership pitfalls in an environment of burnout:

- Heroism
- The pizza party
 - The right actions but the wrong communication

Some leadership successes in an environment of burnout:

- Visual management is daily work
- Measuring culture

SCORE

- Showing up, no matter what
- Effective bidirectional communication ensuring value alignment



Smoothing the Path Ahead

Leaders need:

- 1. To know what burnout is (symptoms)
- 2. To understand where burnout exists (data)
- 3. To explore the causes of burnout (causal analytics)
- 4. To co-create wellness with the frontline (solutions)

Questions?

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