

Mental Health, Healthy Lifestyle Behaviors and Organizational Wellness Support During the COVID-19 pandemic in Infection Professionals: Implications for Action

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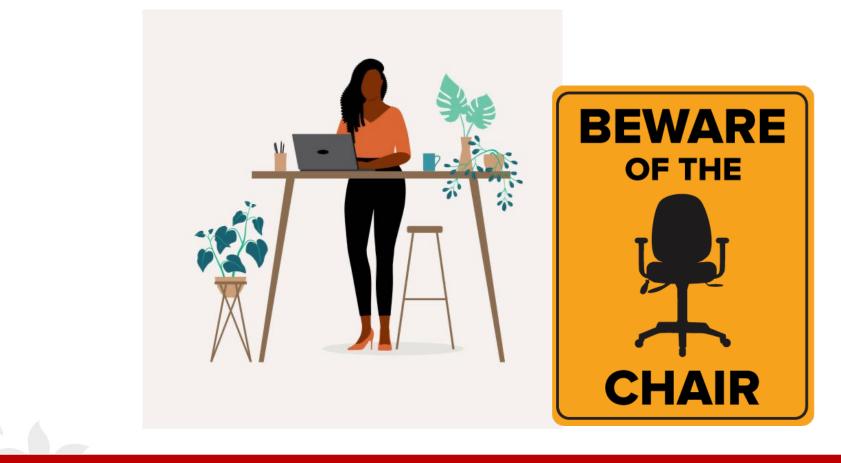
September 28, 2023

A Big Dose of Vitamin G to Our Terrific Research Team and To All of You!

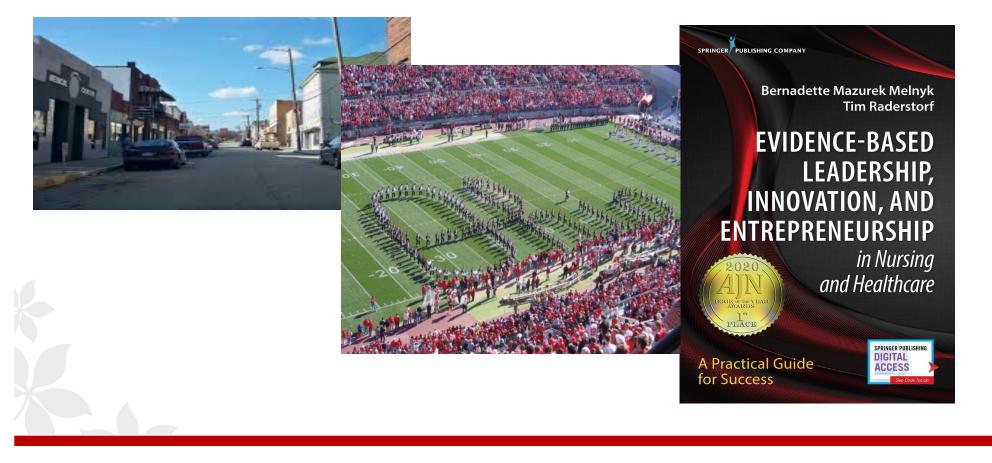
- Andreanna Pavan Hsieh
- Kate Gawlik
- Jacqueline Hoying
- Alai Tan
- Jinjian Mu
- Ann Marie Pettis
- Devin Jopp



To stay alert, have more energy and decrease our cardiac risk, stand more, move more and sit less!



From a Small Coal Mining Town Chapter 2: My Story



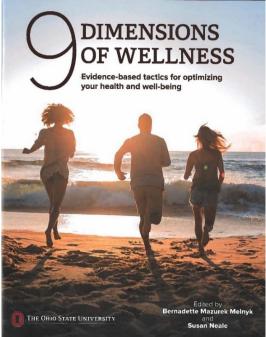
EBP + Clinician Well-being + SDH = The Quintuple Aim in Healthcare

- Enhance the patient experience (includes quality)
- Improve population health
- Decrease costs
- Improve the work life and well-being of healthcare providers
- Advance health equity



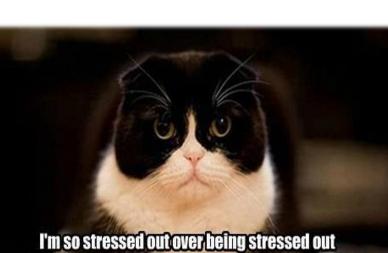
Wellness

- The optimal state of living well, regardless of an individual's spectrum of health
- Building strong wellness cultures, fixing system issues that cause burnout, and providing evidence-based wellness programming is not a nicety, *it is a necessity* because of the current state of mental health problems and chronic disease across the nation

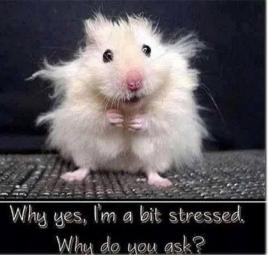


Burnout, Stress and Depression Were Public Health Epidemics in the U.S. Before The COVID-19 Pandemic



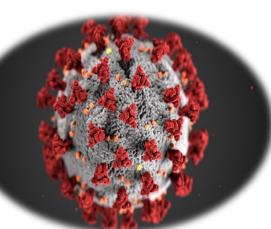


I'm so stressed out over being stressed out that I can't even remember why I'm stressed out.... and it's stressing me out!



COVID-19 Further Triggered Mental Health Problems and Unhealthy Lifestyle Behaviors

- Feelings of despair
- Languishing
- Fear for loved ones
- Decreases in job security
- Increases in **Ioneliness**
- Mindset switch from
 "thriving" to "survival"
- Zoom fatigue, burnout and languishing
- Increases in alcohol use
- Unhealthy eating patterns



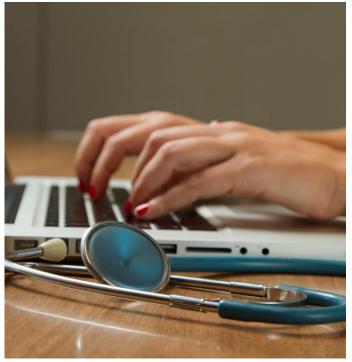
- Feelings of hopelessness
- Increases in anxiety
- Decreases in financial security
- Social withdrawal
- Sleep disturbances
- Declines in Physical Activity

What is Known From Recent National Studies

- Burnout in the workforce is currently as high as 50 to 70% in many organizations
- Healthcare claims for depression and anxiety skyrocketed during the pandemic- 3x higher
- Nearly half of employees feel their job has made their mental health worse since the onset of the pandemic
- 40% of employees feel their employer has not supported their mental health during the pandemic, with the lack of support felt most among mothers
- 66% don't feel comfortable talking about their mental health with their manager
- Lack of recognition and belonging is a major source of stress and depression
- 97% of respondents on a recent Calm business survey said that employers should be working to improve the mental health of their employees
- Burnout is strongly associated with depression and clinical anxiety
- Mattering to an organization matters and is associated with less burnout, depression and anxiety
- Culture matters: If people perceive their workplace culture as supportive of their well-being, they have better outcomes and were less impacted by the COVID-19 pandemic



The Terrible Toos (Adapted from Allo, 2009)



Too much stress, Too much work, Too many tasks, Too little time for self-care

Causes of Burnout and Distress in Healthcare Professionals

- Increased clinical demands
- Decreased control
- Poorly functioning teams
- Role ambiguity
- Moral distress
- Reimbursement issues
- Decreased time with patients
- Difficulty balancing personal & professional lives
- Inefficiency of the Electronic Medical Record
- Isolation



Consequences of Burnout

There are many consequences of burnout:

CLINICIANS AND LEARNERS	HEALTH CARE ORGANIZATIONS	 Resulting staffing challenges decrease patients' access to care.
 Occupational injury Problematic alcohol use Risk of depression and suicide Career regret Suboptimal professional development 	 Fewer available staff (absenteeism and turnover) Lower morale and productivity Presenteeism (working while sick) Threat to organizational reputation 	 High workloads, administrative burdens, and poorly designed technologies divert clinicians' time away from patient care. Workplace ethical dilemmas can erode clinician professionalism. Barriers to patient-clinician communication adversely affect patient satisfaction and health outcomes.

Safety incidents, medical errors, and malpractice claims are more likely.

BURNOUT LOWERS PATIENT CARE QUALITY:

\$4.6 BILLION

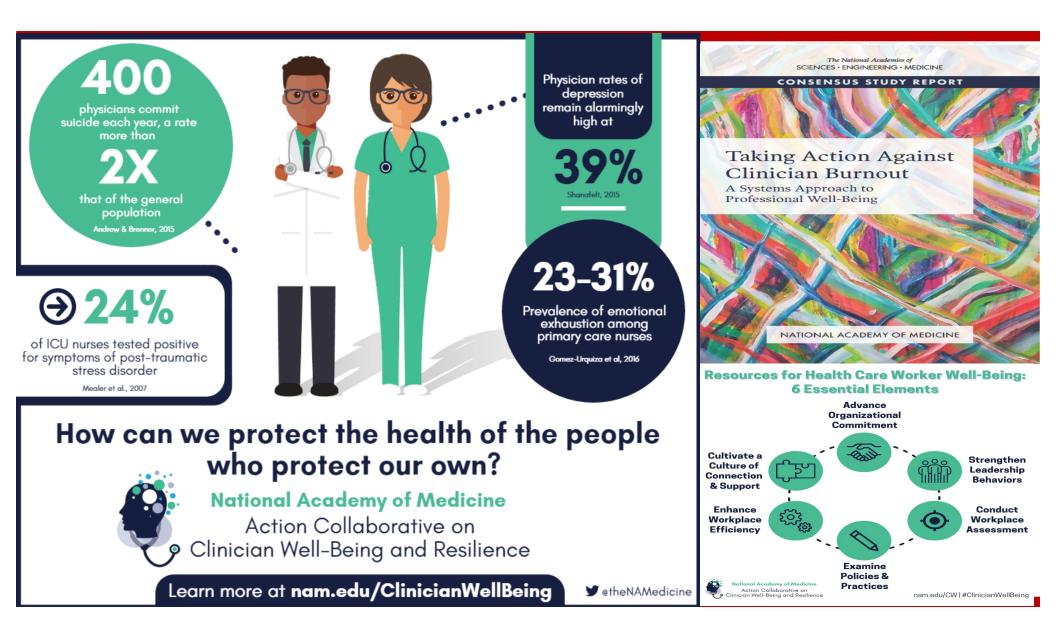
Estimated societal costs attributable to burnout in the United States each year.

Reference: <u>www.nam.edu/initiatives/clinician-resilience-and-well-being/</u> SPRINGERPUB.COM

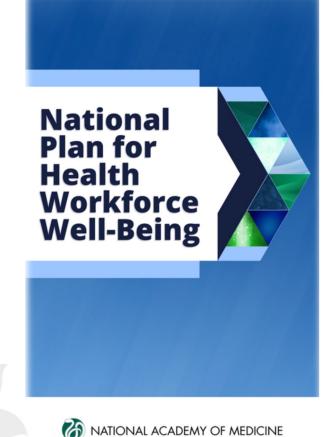
The Business Case for Why Organizations are Investing in Wellness?

 For every dollar invested in wellness, there is typically a return of \$2.00 to \$4.00 in reduced healthcare costs, higher engagement, improved productivity and lower absenteeism/presenteeism





National Academy of Medicine The National Plan Priority Areas



- Create & sustain **positive work** and **learning** environments and culture.
- Invest in measurement & assessment strategies and research.
- Support mental health & ↓ stigma.
- Address compliance, regulatory, & policy barriers for daily work.
- Engage effective technology tools.
- Institutionalize well-being as a long-term value.
- Recruit and retain a diverse & inclusive workforce.

See https://nam.edu/initiatives/clinician-resilience-and-well-being/national-plan-for-health-workforce-well-being/

The National Study Methods



Melnyk et al., 2023, American Journal of Infection Control

A one-time survey administered to members of The Association for Professionals in Infection Control and Epidemiology

Survey questions asked demographics and assessed mental health, well-being and perceptions of workplace wellness support

6,000 members were selected to participate via random sampling, the **response rate was 15.5%** (n = 926)

Data were collected between May 2021 – July 2021

Sample Characteristics

Female (93.5%)

Non-Hispanic white (86.8%)

Married/in a relationship (82.5%)

Had a bachelor's (41.2%) or Masters (42.3%)

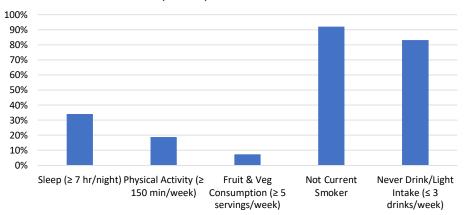
Between the ages of 35 and 64 (77.1%)

Worked 9-10 hours/day (58.2%)

Worked in an acute care setting (68.1%)

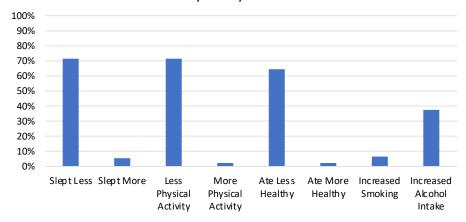


Healthy Lifestyle Behaviors and Related Changes during the COVID-19 Pandemic



Proportion of Professionals Meeting the CDC Recommended Healthy Lifestyle Behavior Guidelines

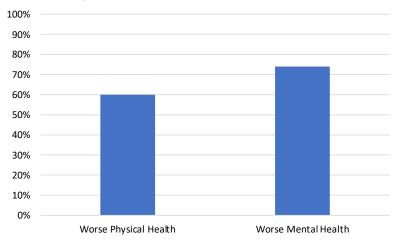
- Only a small proportion of professionals met the guidelines
- **34%** slept ≥ 7hrs/night
- **18.8%** participated in ≥ 150+ min of physical activity/week
- 7.3% consumed ≥ 5 servings of fruit + veg/day



Proportion of Professionals Reporting a COVID-19 Impact on Healthy Lifestyle Behaviors

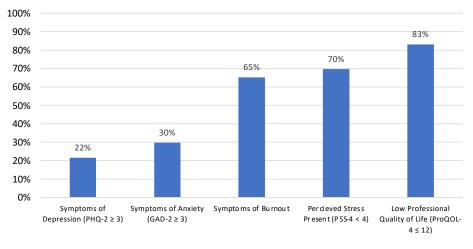
- COVID-19 resulted in most professionals engaging in less sleep (71.5%), less physical activity (64.5%), and less healthy eating (61%)
- More than a third increased alcohol intake (37.4%)

Mental/Physical Health and the Related Changes during the COVID-19 Pandemic



Proportion of Professionals Reporting Worse Physical and Mental Health due to COVID-19

- 60.0% reported worsening physical health
- 74% reported worsening mental health

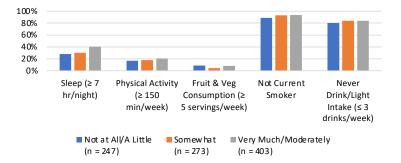


Proportion of Professionals with Depression, Anxiety, Burnout, Stress, and Low Professional Quality of Life

Rates of burnout (65%), stress (70%), low ProQOL (83%), depression (22%) and anxiety (30%) were high

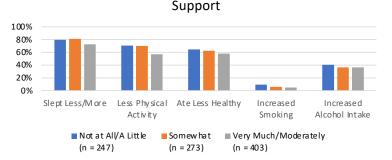
Associations of Workplace Wellness Support with Healthy Lifestyle Behaviors and the Related Changes during COVID-19 Pandemic

Proportion of Professionals Meeting the CDC Recommended Healthy Lifestlye Behavior Guidelines by Perceived Amount of Workplace Wellness Support



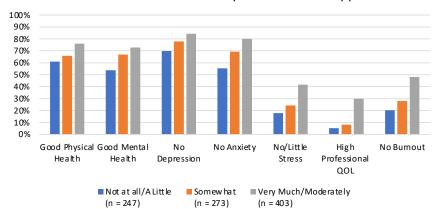
- The proportion of professionals who had ≥ 7 hrs of sleep,
 ≥ 150 min exercise, and no smoking increased with higher perceived workplace wellness support.
- Compared to those whose workplaces provided a little/ no support, professionals whose workplaces supported wellness very much/moderately had a 67% higher odds of obtaining ≥ 7 hours of sleep/night.

Proportion of Professionals Reporting a COVID-19 Impact on Healthy Lifestlye Behaviors by Perceived Amount of Workplace Wellness



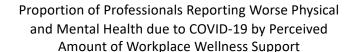
- Professionals with very much/moderate support were less likely to report a negative impact of COVID-19 pandemic on their healthy lifestyle behaviors compared to those with a little or no support.
- Those with very much or moderate support had a 35% lower odds to be impacted in sleep and 43% lower odds to be impacted in physical activities compared to those with no or a little support.

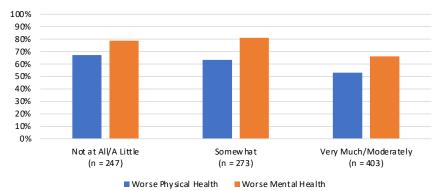
Associations of Workplace Wellness Support with Health and the Related Changes during COVID-19

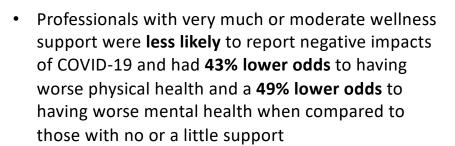


Propotion of Professionals with Good Health By Perceived Amount of Workplace Wellness Support

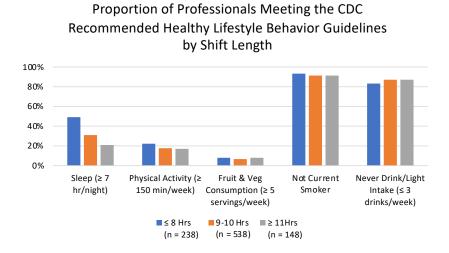
- Professionals whose workplaces provided support "somewhat" were more likely to have good mental health, no depression, no anxiety, and no burnout compared to those with no or a little support.
- Professionals whose workplaces supported wellness very much or moderately had significantly higher odds in all health indicators compared to those with no or a little support





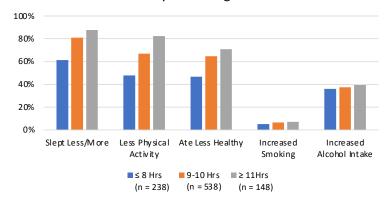


Associations of Shift Length with Healthy Lifestyle Behaviors and the Related Changes during COVID-19



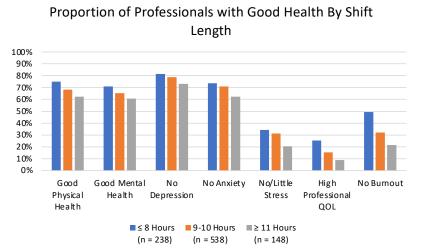
- The proportion of professionals meeting the healthy behaviors of sleep, physical activity, and not smoking decreased with longer work shifts.
- Compared to professionals with workday/shift of ≤8 hours per day, those who worked 9-10 hours or 11+hours per day were less likely to sleep ≥ 7 hours per night

Proportion of Professionals Reporting a Negative COVID-19 Impact on Healthy Lifestyle Behaviors by Shift Length



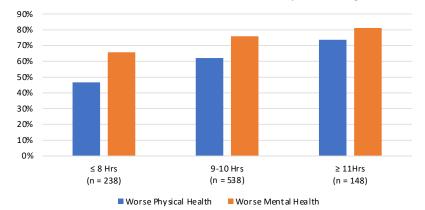
- The proportion of professionals whose healthy behaviors were negatively impacted by COVID-19 increased with longer work shifts.
- There was a significant relationship between longer shift length and higher likelihood of negative impact of COVID-19 on sleep, physical activity, and less healthy eating.

Associations of Shift Length with Health and the Related Changes during COVID-19



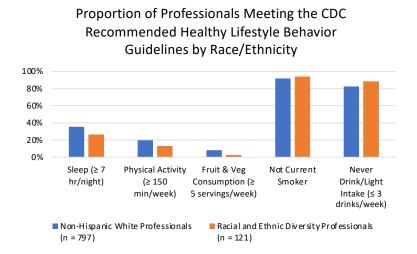
- The proportion of professionals with good health regarding all health indicators **decreased** with longer shift.
- Compared to professionals who worked ≤8 hrs/day, those who worked 9-10 hrs/day were less likely to have good physical health and no burnout
- Those who worked 11+hrs/day were **less likely** to have good physical health, good mental health, no anxiety, no/little stress, higher ProQOL, and no burnout

Proportion of Professionals Reporting Worse Physical and Mental Health due to COVID-19 by Shift Length



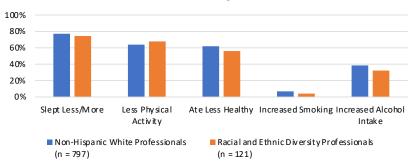
Professionals who worked 9-10 hours or 11+ hours per day were **more likely** to report worsening physical health and worsening mental health due to the pandemic

Associations of Race/Ethnicity with Healthy Lifestyle Behaviors and the Related Changes during COVID-19



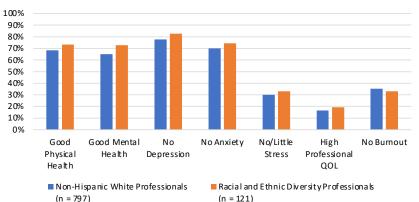
- Proportionally, non-Hispanic White professionals slept ≥ 7 hrs, exercised ≥ 150 min, and consumed ≥ 5 fruit & vegs more frequently than Racial and Ethnic Diversity professionals
- Racial and Ethnic Diversity professionals had an 85%
 higher odds in no/light alcohol use compared to non-Hispanic White professionals

Proportion of Professionals Reporting a Negative COVID-19 Impact on Healthy Lifestyle Behaviors by Shift Length



 There were no significant differences in the odds of negative impact of COVID-19 on healthy lifestyle behaviors between non-Hispanic White professionals and Racial and Ethnic Diversity professionals

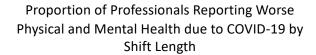
Associations of Race/Ethnicity with Health and the Related Changes during COVID-19

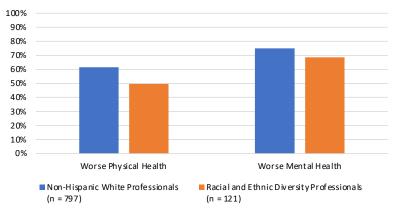


Proportion of Professionals with Good Health by

Race/Ethnicity

(n = 797) (n = 121)
 Racial and Ethnic Diversity professionals had larger proportions reporting good physical health, good mental health, no depression, no anxiety, no/little stress, and high professional QOL than Non-Hispanic White professionals.





 Racial and Ethnic Diversity Professionals were more likely to have good mental health and less likely to be impacted by COVID-19 on physical health than Non-Hispanic White professionals.

The Current Research to Practice Time Gap

- Now reduced to 15 years from 2000 when it was 17 years!
- The average time from publication to implementation of five cancer control EBPs (e.g., mammography, colorectal cancer screening)

-Kahn, Chambers & Neta, 2021

- It will only take a 150 more years to close the gap!
- The gap between what we know and what we do is lethal!
- We also need to de-implement what isn't working or based on best evidence



Interventions to Improve Mental Health, Well-being, Physical Health and Lifestyle Behaviors in Physicians and Nurses: A Systematic Review

29 studies (2,708 participants)

Melnyk, Kelly, Stephens, Dhakal, McGovern, Tucker, Hoying et al. al., 2020, American Journal of Health Promotion



The Importance of Culture, System-Focused and Individual-Focused Intervention Strategies to Improve Population Health

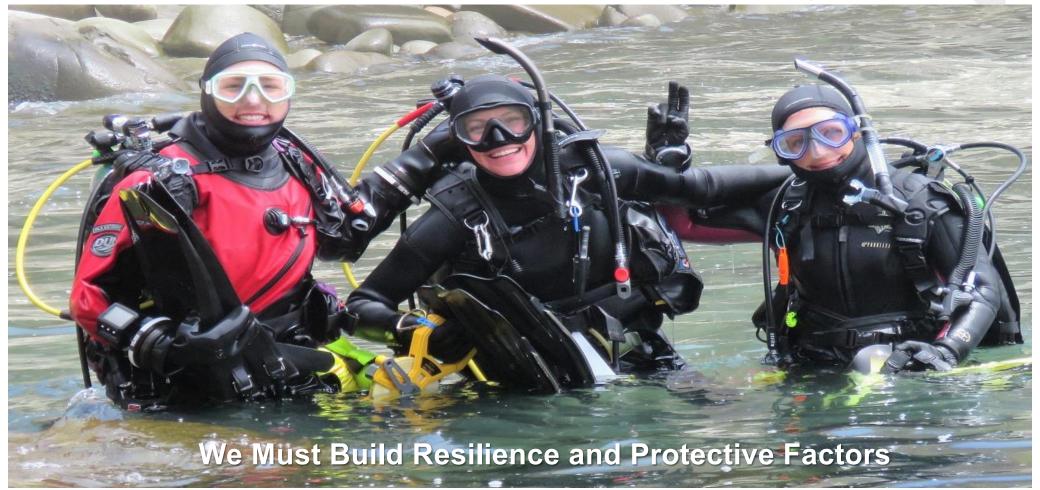


- Effectiveness ↑ when individual, organizational and culture-focused interventions are combined.
- Organizational interventions manifest as work process of practice model changes
- Requires large-scale organizational changes and a commitment to resource reallocation

A Paradigm Shift is Needed from Crisis/Sick Care to Prevention and Early Evidence-based Intervention



"An Ounce of Prevention is Worth a Pound of Cure." -Benjamin Franklin



Don't Forget About Prioritizing YOU!

Good Self-Care is a Necessity, Not a Nicety



you can't pour from an empty cup

TAKE CARE OF YOURSELF FIRST

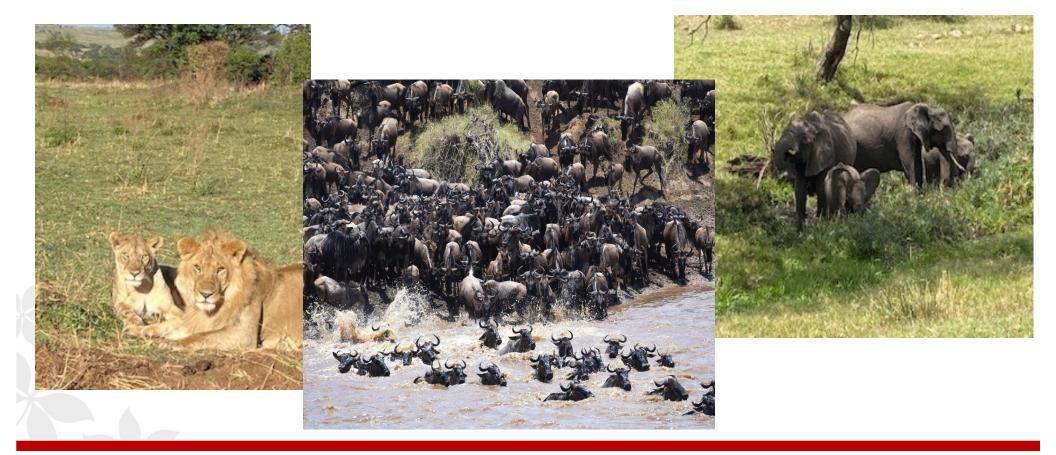


Be Aware of Your Own Level of Burnout

Based on your definition of burnout, how would you rate your level of burnout?"

- 1 = "I enjoy my work. I have no symptoms of burnout;"
- 2 = "Occasionally I am under stress, and I don't always have as much energy as I once did, but I don't feel burned out;"
- 3 = "I am definitely burning out and have one or more symptoms of burnout, such as physical and emotional exhaustion;"
- 4 = "The symptoms of burnout that I'm experiencing won't go away. I think about frustration at work a lot;"
- 5 = "I feel completely burned out and often wonder if I can go on.
 I am at the point where I may need some changes or may need to seek some sort of help."

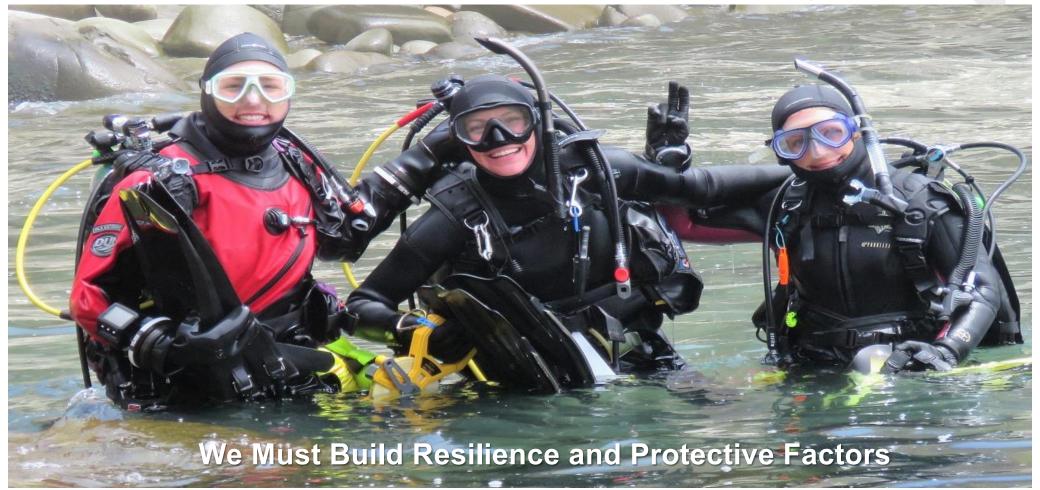
Build in Periodic Activities to Disconnect and Experience Joy to Avoid Burnout



A Paradigm Shift is Needed from Crisis/Sick Care to Prevention and Early Evidence-based Intervention



"An Ounce of Prevention is Worth a Pound of Cure." -Benjamin Franklin



Considering all Causes of Morbidity and Mortality, Behaviors are the #1 Killer



Based on Evidence, What Do We Know?

People who have the following behaviors have 66% less diabetes, 45% less heart disease; 45% less back pain, 93% less depression, and 74% less stress

- Physical activity 30 minutes 5 days per week (Reduce the time of meetings down from 60 to 50 minutes so you will have more time for short recovery breaks!)
- Healthy eating 5 fruits and vegetables per day
- No smoking
- Alcohol in moderation no more than 1 standard drink per day for women and men if you drink alcohol

Getting 7 hours of sleep and regularly engaging in stress reduction will result in even greater reductions in chronic disease.

Micro-Recovery Breaks & Brief Interventions Work

Use the 4-7-8 deep breathing technique

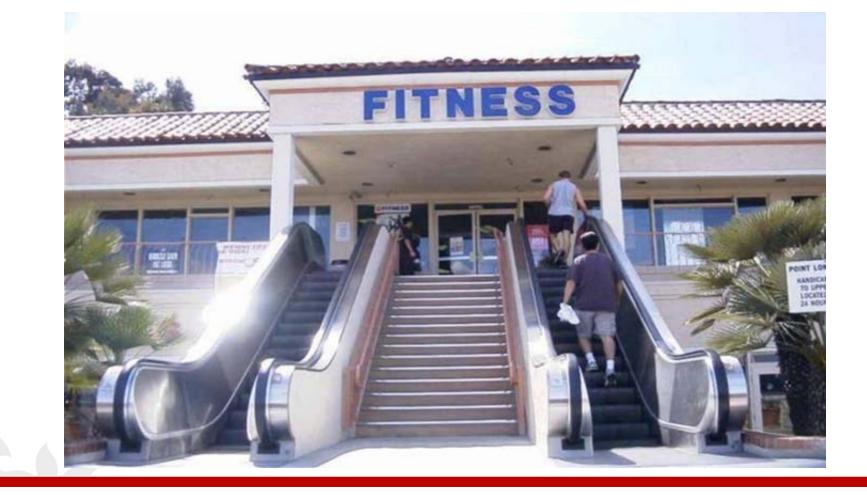


Reduce meeting times and cancel unnecessary meetings to allow micro-recovery breaks! A 40% reduction in meetings increases productivity by 70%

Evidence Plus Emotion = Behavior Change



We Make Behavioral Choices Every Day



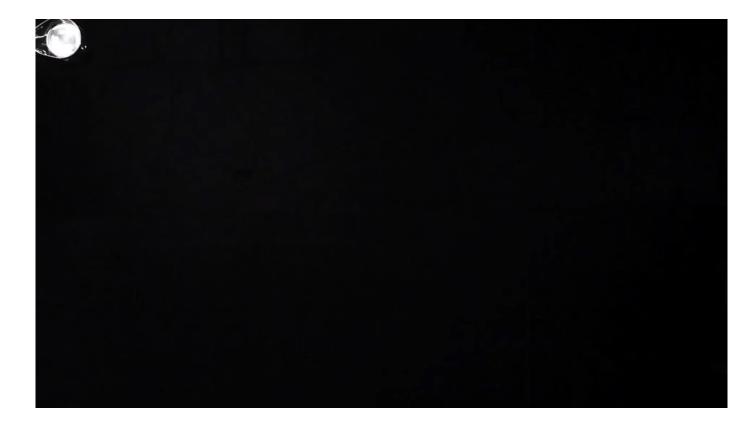
New Year's Resolutions for 2009 2011 1. Lose weight again 2015 2. Get fit next year 3. Give up alcoho 4. Stand up to boss 5. Be nicer to my wife 6. Sort out junk in shed

The Next 30 to 66 days

• Which healthy lifestyle behavior will you commit to improving in the next 30 to 60 days?

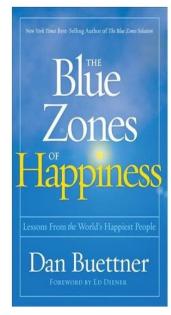


Time: A Big Excuse for Falling Off the Wagon with New Year's Resolutions



Three Keys for Happiness Dreams/Purpose, Passion and Pride

- To enhance pleasure, look for ways to add fun and joy to your daily routines (e.g., socialize often)
- To enhance purpose, increase opportunities to use your strengths to achieve meaningful goals
 - Knowing your sense of purpose is worth up to 7 years of extra life expectancy!
- To enhance pride, look for ways to align your job with your passions; reflect upon your accomplishments (none are too small!)



The Next 2-5 Years

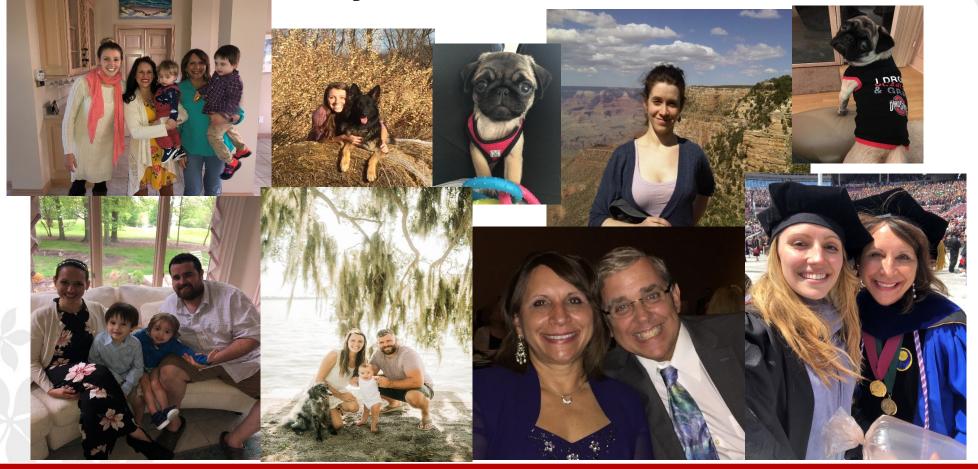
What will you do in the next 2 to 5 years if you know that you cannot fail?

Shoot for the moon, even if you miss, you will land amongst the stars

-Les Brown

There Is A Magic In Thinking Big!

My Main Reasons for Engaging in Healthy Lifestyle Behaviors: Who are Yours?



Now More than Ever, We Need to Keep Dreaming, Discovering, Delivering Wellness Cultures and Taking Good Self-Care Just "Do It!"





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October 12, 2023	MANAGEMENT PRACTICES TO SUPPORT INFECTION PREVENTION Speaker: Ann Scheck McAlearney, Ohio State University College of Medicine
October 19, 2023	<u>(FREE Teleclass)</u> CBIC UPDATE 2023 Speaker: Prof. Elaine Larson, CBIC President, 2023
October 20, 2023	(FREE Teleclass) SPECIAL LECTURE FOR CLEAN HOSPITALS DAY Speaker: Prof. Didier Pittet, University of Geneva, Faculty of Medicine
October 26, 2023	PULLING THE PLUG ON THE SINK DRAIN Speaker: Prof. Jean-Yves Maillard, Cardiff University
November 7, 2023	(<u>European Teleclass</u>) AUDIT TOOLS FOR INFECTION PREVENTION AND CONTROL TEAMS Speaker: Dr. Eva Elisa Alvarez, Canary Health Service, Goverment of the Autonomous Community of the Canary Islands
	(South Pacific Teleclass)

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