

The emergence of a texas collaboration to improve well-being in learning health systems

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ABSTRACT

Prior models of well-being have focused on resolving issues at different levels within a single institution. Changes over time in medicine have resulted in massive turnover and reduced clinical hours that portray a deficit-oriented system. As developments to improve purpose and professional satisfaction emerge, the Texas Medical Association Committee on Physician Health and Wellness (PHW) is committed to providing the vehicle for a statewide collaboration and illuminating the path forward.

To describe the existing health and wellness resources in Texas academic medical centers and understand the gaps in resources and strategies for addressing the health and wellness needs in the medical workforce, and in student and trainee populations.

Various methods were utilized to gather information regarding health and wellness resources at Texas academic medical centers. A survey was administered to guide a Think Tank discussion during a PHW Exchange, and to assess resources at Texas academic medical centers. Institutional representatives from all Texas learning health systems were eligible to participate in a poster session to share promising practices regarding health and wellness resources, tools, and strategies.

Survey responses indicated a need for enhancing wellness program components such as scheduled activities promoting health and wellness, peer support networks, and health and wellness facilities in academic medical centers. Answers collected during the Think Tank discussion identified steps needed to cultivate a culture of wellness and strategies to improve and encourage wellness.

The Texas Medical Association Committee on Physician Health and Wellness and PHW Exchange provided a forum to share best practices and identify gaps therein, and has served as a nidus for the formation of a statewide collaboration for which institutional leaders of academic medical centers have affirmed the need to achieve the best result.

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Texas; emergence; collaboration; improve; learning health systems; academic; health center; medical center; wellness; well-being; resilience; health; physicians; students; trainees; residents; work; system; factors; professional; workload; culture; relationships; support; worklife: demands: medicine: medical; coalition; multidimensional; domains; social; physical; intellectual; spiritual; emotional; mental; financial: environmental: occupational; share; bestpractices; leaders; providers; time; management; funding; participate; workforce; reward: flexibility: autonomy; organizational; institutional

Introduction

'I will ATTEND to my own health, well-being, and abilities in order to provide care of the highest standard.' - World Medical Association Declaration of Geneva

For centuries, the medical profession has been deemed a special calling anchored by an ethical foundation - one that upholds and practices altruism, compassion, love for humanity, intellectual challenge, and dedication. A set of ethical principles has guided the profession. Generations of healers and physicians have passed down the science and art of medicine, each subsequent generation mirroring the values and practices of its elders. In 2017, the World Medical Association (WMA) adopted a modified version of the Physician's Pledge, expanding the scope of the oath that outlines the professional duties and ethical principles of the medical profession [1]. The revised Geneva Declaration addresses ethical issues that include respect for teachers and colleagues, medical confidentiality, the patient-physician relationship, and an assessment of the impact of professional obligations [1]. Preceding this modification was WMA's Statement

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on Physician Well-Being [2], which outlined increased occupational stress and workload with their potential negative impacts on physician health and capacity to 'provide care at the highest standard.'

In 2019, the National Academy of Medicine (NAM) released a consensus study report that revealed staggering statistics: 'substantial symptoms of burnout' in 35-54% of U.S. physicians and nurses and in 45-60% of residents and medical students. The authors of the 312-page report surmised the high rates of burnout 'are a strong indication that the nation's health care system is failing to achieve the aims for system-wide improvement.' This study identified 'numerous work system factors (i.e., job demands and job resources) that either contribute to the risk of burnout or have a positive effect on professional well-being,' as follows [3]:

Job demands:

- Excessive workload, unmanageable work schedules, and inadequate staffing;
- Administrative burden;
- Workflow, interruptions, and distractions;
- Inadequate technology usability;
- Time pressure and encroachment on personal
- Moral distress; and
- · Patient factors.

Job resources:

- Meaning and purpose in work;
- Organizational culture;
- Alignment of values and expectations;
- Job control, flexibility, and autonomy;
- Professional relationships and social support; and
- Work-life integration.

Due to international and national concerns supported by a body of literature, the authors have summarized in this manuscript a strategy to improve the wellbeing of learners and employees within Texas biomedical institutions [3-6]. The authors' regional strategy included the establishment of an inter-institutional endeavor facilitated by the Texas Association (TMA) Committee on Physician Health and Wellness (PHW) to improve the health and wellbeing of those who are employed and who train within Texas' learning health care Endeavors would be inclusive of everyone in the learning and work environment; the committee recognizes that physicians, students, and trainees (e.g., residents and fellows) work and train alongside biomedical and health professions colleagues within learning health care systems.

The state of well-being within the medical profession

The World Health Organization's constitution in 1948 said, 'Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.' Following that, Halbert L. Dunn, chief of the National Office of Vital Statistics, authored a series of manuscripts and lectured in the late 1950s on his concept of 'high-level wellness,' defining it as 'an integrated method of functioning, which is oriented toward maximizing the potential of which the individual is capable.' The term 'wellness' gained more attention in 1979 when Dan Rather remarked in an episode of 60 Minutes, 'There's a word you don't hear every day.'

In contrast, the term 'burnout' has much more recent origins. It is thought to have been coined in the early 1970s by American psychologist Herbert Freudenberger, who himself suffered from its symptoms. Subsequently, Maslach and colleagues created the Maslach Burnout Inventory as a burnout assessment tool [7], which has since been widely used and is considered the standard research tool in this field [8]. Burnout is defined as 'a psychological syndrome of emotional exhaustion, depersonalization, and reduced personal accomplishment that can occur among individuals who work with other people in some capacity' [7].

National and international health care-related entities have given physician burnout increasing attention over the past few decades. The decline in physicians' well-being has been attributed to a host of intrinsic and extrinsic factors. Schrijver summarized the following occupational etiologies contributing to the decline of health care workers' health: alignment of goals and values, physician factors, new technologies, inefficiencies, loss of autonomy, perceived threats, balancing needs, chronic fatigue, and chronic stress [9]. Others have highlighted potential etiologies that include a growing and aging patient population combined with a reduction in workforce due to limited expansion of graduate medical education programs and funding [10,11]. Moreover, physicians, students, and trainees from underrepresented and marginalized groups may have encountered discrimination and harassment, as well as micro and macro aggressions, within their work and learning environments [12-15]. As a result, reports of depression, anxiety, and lower engagement levels in these groups have increased [16].

The past decade, in particular, has seen the health and well-being of health care workers become a priority. International, national, regional, and local entities have issued calls to action, adopted position

Table 1. Organizations and their response to burnout.

Organization*	Project/Response	Year Established		
Addressing quality of care, well-being, and	burnout			
EAPH	PH Annual Conference and Workshop			
WMA	Caring Physicians of the World Initiative	2003		
WHPA	Strategic Priority: Positive Practice Environments	2019		
GHWN	Global Strategy on Human Resources for Health: Workforce 2030	2016		
ACGME	CLER	2012		
ACGME	Back to Bedside	2017		
ACGME, AAMC, NAM	Action Collaborative on Clinician Well-Being and Resilience	2017		
AAMC	Matriculating Student Questionnaire (MSQ)	1995 (MSQ)		
AAMC FA Engagement	Graduation Questionnaire (GQ)	1978 (GQ)		
AAMC Student	StandPoint™ Surveys (SPS/Faculty)	2009 (SPS)		
AAMC Group on Student Affairs (GSA)	Year Two Questionnaire (YTQ)	2014 (YTQ)		
·	GSA Professional Development Initiative (PDI)	2015 (PDI)		

^{*}Definitions: ACGME, Accreditation Council for Graduate Medical Education; AAMC, American College of Medical Colleges; CLER, Clinical Learning Environment Review; EAPH, European Association for Physician Health; GHWA, Global Health Workforce Network (Alliance); NAM, National Academy of Medicine; WHPA, World Health Professions Alliance; WMA, World Medical Association.

statements, and revised accreditation guidelines in an attempt to improve the health and well-being of health care workers and trainees (see Table 1. Organizations and Their Response to Burnout). More recent efforts also have focused on the culture and climate of institutions [17-24].

A Resident Wellness Consensus Summit was held in 2017, where a workgroup of 27 residents and three attending physicians developed a wellness curriculum, scientifically derived with input from this event [25]. This was brought about due to the rising concern and high risk of physician suicide, specifically in emergency medicine. Development participants included physicians from the following emergency medicine departments: Carl R. Darnall Army Medical Center, Fort Hood, Texas; Loma Linda University Medical Center, California; Sinai Grace Hospital, Detroit, Michigan; University of Missouri Hospital, Columbia; and the University of Alberta, Edmonton, Alberta, Canada. Another conference, held in 2018 by the radiology Intersociety Committee in which themes and strategies to foster wellness were identified to implement at the individual, work unit, and organizational level [22]. These efforts were identified by staff and faculty from the Israel Deaconess Medical Massachusetts, Stanford; University's Department of Medicine, Virginia Mason Medical Center, Seattle; Emory University School of Medicine, Atlanta; University of Alabama School of Medicine; and the Mayo Clinic's Department of Radiology in Rochester, Minnesota. A cross-sectional national survey study concluded 'burnout rates are substantial even among the most resilient physicians.' [6]

As a profession, we face a moral and ethical obligation to address burnout in physicians at all levels (medical students, trainees, and independent physicians), as well as in other healthcare professionals including nurse practitioners, physician assistants,

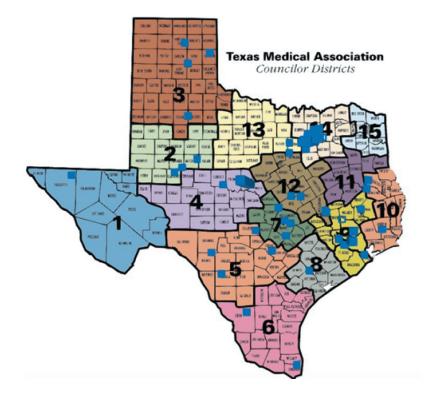
and nurses, and in basic scientists who work within our learning health systems [26-31].

State of well-being in texas

In 1976, the Texas Medical Association's (TMA) House of Delegates established the Impaired Physicians Committee and charged it with studying the impairment problem in Texas. The committee's duties since have expanded to include education and prevention of illness. The name of the committee has changed over time to reflect the current emphasis and priorities of the TMA. As a result of advanced understanding of physician health and wellness, the committee's name was changed in 2013 to the Committee on Physician Health and Wellness (TMA Bylaws 10.621 Committee on Physician Health and Wellness).

TMA is affiliated with 110 county medical societies. PHW educational activities are available to all county medical societies, medical schools, academic medical centers, hospitals, private practices, specialty medical associations, and similar organizations. Education team members have reached 41 counties (see TMA Councilor Districts map) since 2016. Since its inception, the PHW Committee has developed some 50 health and wellness continuing medical education (CME) courses. PHW Committee education team members presented more than 360 live CME sessions in 2014-18. A summary of all PHW course evaluations from the past five years shows 92% of physicians, residents, medical students, and nonphysicians strongly agree or agree that PHW course content and format met their expectations.

In addition to the 14 established medical schools in Texas, two having opened recently during the COVID-19 pandemic. According to the 32, AAMC Matriculating Student Questionnaire, the majority of medical students reported they would work in Texas after completing their medical training. The same



report indicated that medical students ranked worklife balance as their highest priority and as 'essential' when considering their career path after medical school. Texas physicians are pushing state lawmakers to ensure Texas has enough residency positions to train doctors who study in Texas [33]. With two new medical schools and potentially more residency programs, it is essential to establish a robust and evidence-based wellness program in every Texas academic medical center that also meets accreditation mandates [10,34].

Organizational well-being initiatives and opportunities

To better understand the availability of resources and programming designed to improve well-being in academic medical centers, the PHW Committee engaged Texas academic medical centers between September 2018 and May 2019. The committee collected data by telephone, through online surveys, and in person at the PHW Exchange: From Super Being to Human Being in March 2019. 13 Texas medical schools provided data:

- (1) Baylor College of Medicine,
- (2) TCU and UNTHSC School of Medicine,
- (3) Texas A&M University College of Medicine,
- (4) Texas Tech University Health Sciences Center School of Medicine,

- (5) Texas Tech University Health Sciences Center Paul L. Foster School of Medicine,
- (6) University of the Incarnate Word School of Osteopathic Medicine (UIWSOM),
- (7) The University of Texas at Austin Dell Medical School,
- (8) The University of Texas Health Science Center at Houston McGovern Medical School,
- (9) The University of Texas Health Science Center at San Antonio Long School of Medicine,
- (10) The University of Texas Rio Grande Valley School of Medicine,
- (11) The University of Texas Medical Branch School of Medicine (UTMB),
- (12) The University of Texas Southwestern Medical School, and
- (13) University of North Texas Health Science Center College of Osteopathic Medicine.

Texas academic medical centers currently address wellbeing through wellness assessment tools, retreats, student body organizations, wellness-related projects, and educational activities (see Table 2. Texas Academic Medical Centers' Well-Being Initiatives). In addition, some state residency and fellowship programs, as well as programs on the national level, are actively establishing wellness committees and curricula [25,35].

The PHW Committee found most institutions offered several programs to address the multiple



Table 2. Texas academic medical centers' well-being initiatives.

Well-see Discoursies	No. of Wellness Programs at Texas	Dturad	0
Wellness Dimension	AMCs	Required	
Social, Emotional, and Spiritual			
Curricula (e.g., self-awareness, self-reflection, self-care, work-life balance)	2	Χ	
Student wellness clubs	6		Χ
Mindfulness apps	4		Χ
Inclusive social events (students, residents, and faculty)	1		Χ
Occupational			
Workshops – incorporated into curricula (e.g., effective study skills, interpersonal	2	Χ	Χ
communication skills)			
Online well-being resources	12		Χ
Events addressing well-being	13		Χ
Administration of stress inventory or similar assessment	4	Χ	Χ
Employee assistance program	9		Χ
Mentor and coaching program	2	Χ	
Intellectual and Physical			
Fitness apps (e.g., nutritional and exercise tracking)	2		Χ
Virtual opportunities and incentives (e.g., point-earning challenges)	8		Χ
Fitness challenge activities and/or events	3		Χ
Fitness centers (e.g., gym membership)	11		Χ
Free wellness exam	1		Χ
Environmental			
Individual counseling	12		Χ
Group counseling	1		Χ
Helpline/Hotline	11		Χ
Standard reporting services online	7	Χ	
Formation of wellness committee	7		Χ
Financial	•		
Workshops – financial advice, debt counseling	2		Χ

dimensions of wellness that include occupational, environmental, intellectual, and physical activities. The majority offered online educational resources regarding well-being. Survey responses indicated a need for enhancing the following wellness program components:

- Scheduled activities promoting health and wellness,
- Peer support networks, and
- Health and wellness facilities.

In March 2019, the PHW Committee and Baylor College of Medicine arranged a poster session as part of the PHW Exchange (see Table 3. List of Submissions). The session provided an opportunity for all Texas academic medical center faculty and staff, and medical school students, residents, and physicians to showcase and exchange their wellness innovations and strategies. Visit www.texmed.org/ PHWPosterSession to view all posters submitted.

The building of a coalition

On 2 March 2019, as part of the PHW Exchange, the TMA PHW Committee organized a Think Tank discussion to address the health and wellness needs in our learning health systems of our medical workforce, scientists, student and trainee populations, and staff. In her opening remarks, Jennifer G. Christner, MD, Dean of Baylor College of Medicine's School of Medicine, said of her institution, 'With the endorsement of executive leadership, we embarked on

a journey to incorporate wellness and resilience into our curricular pillars.' She also said role-modeling wellness, as well as teaching about it, is important to achieving work-life integration.

Sixty individuals representing the following six Texas medical schools participated in the Think Tank discussion: Baylor, McGovern Medical School, Texas A&M, UTMB, UT Southwestern, and UIWSOM. To capture best practices and challenges among the learning health systems represented, the Think Tank discussion was divided into five sections, each led by a facilitator with expertise in wellness: leaders and staff in academic medical centers; learning systems' health and wellness providers; Texas Medical Board staff members; students, residents, and fellows; and physicians and staff in private practice.

Guided by facilitators, each Think Tank group explored these questions to delineate opportunities to improve the well-being of individuals in academic medical centers, and barriers:

- What steps can students and trainees take to change a culture that encourages 'super-being' thinking?
- How can you contribute to a culture of wellness at your learning health system?
- Identify potential strategies to improve the health and wellness of those who work and learn at your learning health system.
- How can physician leaders in a variety of practice settings encourage wellness among other physicians and members of the health care team?

Table 3. List of submissions.

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Sunshine Grants: Planting Seeds of Wellness in an Academic Medical Department (Baylor College of Medicine)

Preventing Psychiatrist Burnout: Balancing Altruism and Self-Care (Baylor College of Medicine)

Establishing a Culture of Wellness in a Growing and Evolving Division (Baylor College of Medicine)

A 'Food As Medicine' Teaching Kitchen Workshop - Promoting Salutogenesis Among Providers (Baylor College of Medicine) Transitions to MD: A Wellness Program for Entering Medical Students (Baylor College of Medicine)

A Wellness Initiative for Incoming Medical Students (Baylor College of Medicine)

From Complaints to Commitments: A Grassroots Effort to Improve Faculty and Staff Well-Being Within the Baylor College of Medicine

Faculty Group Practice (FGP) (Baylor College of Medicine) Restore and Recalibrate: A Wellness Event for Pediatric Subspecialty Fellows (Baylor College of Medicine/Texas Children's Hospital) Humanism Rounds: Fighting Resident Burnout Through Strengthened Human Connection (Baylor College of Medicine)

Innovative Approaches to Battling Resident Burnout in a Urology Residency Program (Baylor College of Medicine)

Survey of Wellness and Burnout With the Department of Physical Medicine and Rehabilitation at McGovern Medical School

'UTHealthy' Physicians: Building a Culture of Resilience (The University of Texas Health Science Center at Houston)

Virtual Opportunities, Stress Inventories, Wellness Committees, and Opportunities

Physical, Emotional, and Social Impact of the Stridekick® Challenge (The University of Texas Health Science Center at Houston)

Medical Curriculum Enrichment Across the Life Course Using e-Delphi and the Community Priority Index (CPI) Ranking Algorithm (Baylor College of Medicine)

Wellness and Resilience Committee: Empowering Well-Being in Future Physicians (The University of Texas Health Science Center at Houston) Does Wellness Have a Meme Problem? Medical Student Sentiment Towards Wellness Initiatives on Social Media (Baylor College of

Starting Medical School Well: A Unique Approach to Orientation (Baylor College of Medicine)

McGovern Cares: The Value of Service in the Medical School Curriculum (The University of Texas Health Science Center at Houston) #McGovern Wellness: Promoting Medical Student Wellness Through Social Media (The University of Texas Health Science Center at Houston) BeWell: Building Resilience (The University of Texas Health Science Center at Houston)

Key Attributes of a Medical Learning Community Mentor at One Medical School (The University of Texas Southwestern Medical Center) Improving Mental Well-Being in a Health Learning System (Baylor College of Medicine)

Tracking and Addressing Resident Wellness, Depression, and Burnout in an Anesthesiology Residency (Baylor College of Medicine)

The Association of Adaptive, Accommodative, and Non-Adaptive Coping With Happiness: A Study of Premedical Students (Rice University and Baylor College of Medicine)

An overarching theme from the Think Tank discussion was a desire to create an infrastructure that can facilitate the sharing of best practices and resources for primary, secondary and tertiary prevention, as well as support and training for health and wellness providers, leaders, students, and trainees in Texas academic medical centers. Additional themes that emerged from the discussions are summarized utilizing Baylor College of Medicine's domains of wellness (see Figure 1).

Conclusion and future steps

Our nation's learning health systems are facing a crisis. The health and well-being of those who are working and learning in our academic health centers warrants attention. A recent article from chief medical residents concludes that 'fostering meaning ... to help residents find purpose and professional satisfaction in their work' would go a long way towards curbing resident burnout [36]. Based upon ideas like this and best practices described in the literature, leaders have been challenged to design, implement, and monitor institutional strategies to create environments that promote the health and well-being of their community members.

Individual strategies in isolation are insufficient. In addition to policies and programming to address burnout in medical students, trainees, and physicians, attention to external forces, as well as the entire learning system and its members are key. After an

initial needs assessment is conducted across institutions informed by thought leaders and institutions leading organizational change in learning and workplace wellness, effective leaders can form partnerships and leverage each other's skills and institutions' initiatives to improve their own insight and institution's capacity to address this important issue [11,37,38]. In many ways, our nation's unrest due to racial injustice, inequities, and COVID 19 has magnified stressors that are experienced within our workplace and institutional environments. COVID-19 has greatly influenced the workplace wellness of millions across our nation and the world. Healthcare workers have been affected directly and significantly. Those directly caring for the sickest COVID-19 patients in the intensive care units especially have faced death in unprecedented numbers, and they have also faced many anxieties and frustrations, elegantly enumerated by Shanafelt and colleagues [39,40]. Strategies for coping with how the COVID-19 pandemic has and likely will continue to affect healthcare providers will also be discussed at the upcoming PHW Exchange.

To move forward and maintain the 2019 PHW Exchange's momentum, the monitoring of individual and organizational well-being is critical to assess the participant responses. We are proceeding with the original goal of enhancing our institutions' existing wellness program components across multiple domains and various levels: individual, interpersonal, organizational and environmental. [Centers for Disease Control and Prevention, 2015) The 2021

· Create a sense of community for all members of the · Provide opportunities to engage in fitness activities while institution in order to foster well-being at school or work · Utilize huddles to get to know each other as Provide access to healthy meal options individuals and for team-building · Allow and encourage breaks throughout the day · Be open and communicate expectations, as well as needs and concerns · Establish and maintain a core foundation of peers, family, and friends **PHYSICAL** SOCIAL Create a community of life-long learners and access to academic support Foster a culture **DOMAINS OF** and professional of psychological development safety to promote a positive and Provide education and supportive increase awareness learning and work WELLNESS of the importance of environment maintaining personal Promote an health and wellness environment where Establish opportunities members can thrive holistically for mentorship that while achieving encourages reflection educational and The third dimension is defined as a dimension and strategies for occupational managing unrealistic that adds the effect of solidity to a twoexpectations success dimensional system. Medical professionals are Encourage well aware health care is not a two-dimensional institutional leaders system; neither is individual well-being. How do to be models of Provide space(s) you solidify the dimensions of wellness and a well-being and for community multifaceted health care system? wellness members' on-site meditation and/or prayer **FINANCIAL** EMOTIONAL/MENTA Allow personal time to access on-site meditation and/or prayer Identify and address individual · Establish benchmarks and outcomes for spaces and systemic barriers to receiving institutions' investment in employee, student mental health treatment (e.g. stigma, Provide access and trainee wellness to education and personal time to pursue, licensure · Share best-practices and resources for training that can be concerns, access) offering personal financial literacy training, used to improve

Figure 1. Domains of wellness.

counseling and coaching

PHW Exchange will be held in the fall as a statewide hybrid event and will include a follow up survey to the first Think Tank discussion with questions to identify institutional strategies, as well as gaps during the pandemic such as:

- (1) How did your institution/organization address the health and wellness needs of diverse learners and employees?
- (2) What kind of job and/or learning demands did you experience?
- (3) Were you given more job flexibility?
- (4) What kind of informational technology changes were made to support the wellbeing of learners and employees?

The Think Tank/Exchange provided a forum to share best practices and identify gaps, and has served as a nidus for the formation of a statewide collaboration.

Proposed actionable steps for institutions were as follows and align with the most recent report from the 3, which called for institutions to:

work and learning

practices

- (1) Create positive work environments,
- (2) Create positive learning environments,
- (3) Reduce administrative burdens,
- (4) Enable technology solutions,
- (5) Provide support to clinicians and learners, and
- (6) Invest in research.

· Demonstrate empathy and

members

compassion for all community

Administrators and wellness providers in learning health systems face unique challenges while addressing these issues that include variances in institutional capacity and demands. The benefits of establishing a Texas Medical Association statewide coalition include the opportunity to:

• Share best practices (education, training],

- - Provide support for leaders and health and wellness providers and practitioners,
 - Create a statewide community that fosters wellbeing across institutions, and
 - Establish a forum for collaborations and partnerships to advance scholarly work.

Limitations to participating in the coalition include:

- Time,
- Funding (to travel and participate; membership in TMA), and
- Institutional planning and priorities that might not be aligned.

In conclusion, institutional leaders of academic medical centers across the state affirmed the need to form a coalition to address the well-being needs of our biomedical workforce that include individual, interpersonal, organizational and environmental factors. (Centers for Disease Control and Prevention, 2015). Since the launch of the PHW Exchange, our nation and the world have encountered increasing stressors related to COVID-19 and racism pandemics. To meet these increasing needs, TMA's leadership has prioritized wellness and is moving forward with the development of the 2021 Wellness a comprehensive approach to identify and support physicians and trainees struggling with the stress of the pandemic by providing advocacy to address workplace wellness factors, access to counseling, peer to peer support programs, family counseling, wellness education, yoga and mindfulness programming. This systemic approach will advance this statewide initiative by broadening the scope and support.

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Disclosure statement

No potential conflict of interest was reported by the author(s).

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