Rates of physician burnout have led to efforts to decrease stress in clinical environments. Although mild to moderate stress can improve productivity, prolonged or sustained stress becomes “distress,” as revealed by national statistics on physician burnout. Burnout can affect personal relationships and disrupt family life. Professionally, burnout can harm patient care, relationships with patients and colleagues, a person’s integrity, and, eventually, the viability of our health care system, as providers exit prematurely and patients lose confidence in their care.

“Work-life balance” is a suggested remedy for physician burnout. This term implies that it is up to physicians to maintain a healthy personal—professional equilibrium among their multiple roles over time; imbalance, in turn, can increase stress. The demands clinicians have at home and work are additive: rearing children, maintaining important relationships, caring for patients, and meeting productivity targets. In a job-stress model validated in physicians, countering these demands are the control physicians have over working conditions such as schedules, and the support they receive at work. Similarly, practices at home can help equalize physicians’ multiple demands, such as arranging personal time and family schedules, and nurturing relationships with family and friends. Others have suggested that resilience—the ability of individuals and medical teams to manage change in healthy ways—can counteract the burden of too many demands.

Many physicians find that work-life balance and their own well being are elusive because of working conditions. Productivity expectations may be unrealistic in the face of insufficient time, staff, and resources. Workplace cultures may promote competition, backbiting, and fear of retribution. The need to complete electronic medical record documentation after hours can impinge upon personal time, creating a “work-anywhere” environment. However, the medical workplace can either mitigate or contribute to physicians’ ability to reduce stress.

Organizational leaders can begin to help by modeling respectful and supportive behaviors that set expectations for a healthy work culture and by promoting realistic work expectations, well-functioning teams, and mindful practices for all employees.

In this article, we describe an updated conceptual model of physician stress useful for organizational leaders and physicians to analyze causes of stress. Building upon the “demand-control” model of job stress, this updated model includes both work and home perspectives and adds resilience and well being into the structure of the model. The model can guide both individual and workplace strategies to decrease physician stress and improve work-family balance. We believe that use of this model will lead to better care and a more sustainable, effective health care system for providers and patients.

CURRENT CONCEPTUAL MODEL

The current model of job stress underscores the importance of labor demands and workers’ ability to exert personal control. This “demand-control” model conceptualizes a “seesaw” in which stress fluctuates as work demands on one side are kept in check by control over conditions on the other side. A lack of control without a decrease in work demands can lead to the seesaw tipping up and stress rising. This
The model has been well known and validated for close to 40 years. In large studies of Swedish workers, Karasek showed that workers balance their work demands with control of the work environment. Without that control, workers are at risk for stress and ultimately cardiovascular events. Johnson and Hall updated the study in 1988 by demonstrating that social support is also able to balance work demands, creating the "demand-control-support" model of job stress (Figure 1). In this expanded model, improving either control or support can rebalance the system and the individual worker. This model was validated in physicians in 2002.

**UPDATED MODEL**

We propose to further expand the model of physician stress in 2 ways: by anchoring the stress scale with physician well being as the ultimate aim and by adding resilience as a third stabilizing force to the right of the seesaw (Figure 2). With well being opposing stress on our scale, we clarify that balance is more than stress reduction; it is optimal health and development.

We also suggest a practical way to integrate both personal and professional aspects of physicians’ lives into the demand-control-support-resilience model. We have summarized the moderators of physician stress (Table). Although some of them are intuitive, many have supporting evidence. For demands, the typical set of roles that physicians play are listed, although these will vary for each person. Having control over one’s home and work schedule, and the availability of resources allows for better organization and delegation of duties. Support at home and work comes in the form of positive relationships and shared values with family, friends, colleagues, and leaders. Personal resilience is “the capacity to respond to stress in a healthy way so that goals are achieved at minimal psychological cost.” Workplace resilience can be described as “adaptive reserve” or a work team’s ability to adjust mindset and actions as they coordinate care, address quality improvement, and streamline workflows.

Resilience of both individuals and workplace teams can be influenced by relationship-centered communication and other practices that enhance insight and mindfulness.

This framework can guide physicians and their organizational leaders to specific remediable factors to reduce stress and burnout. It is important to highlight workplace-based approaches to reduce stress through this model. Many physician burnout initiatives employ wellness interventions intended for personal use such as mindfulness, nutrition, and exercise. Although it is important that physicians be empowered to influence their own well being, it is disingenuous to ask physicians to respond to mounting organizational pressures on their own.

**CONCLUSION**

There have been several recent calls to address physician burnout. This new model of physician stress is a framework to guide personal and institutional change. Both administrators and clinicians can identify...
contributing factors to physician stress in the context of work and home environments. This model can help guide adjustments in workplace conditions as well as balance promoting practices to help physicians achieve resilience and adjust to change. Changes on personal and organizational levels are important to attain balance and should not be viewed as mutually exclusive or dichotomous but as part of a holistic approach to a healthy workplace.

Those concerned with sustainable medical careers must cultivate resilience to be able to adapt to necessary changes and reject those that are existential threats to the profession. To relieve the distress physicians are experiencing, leaders of medical practices and front-line physicians must have collaborative conversations about healthy work environments and individual well being. With respect, trust, concern, and active listening, support will be manifest and change more likely to occur. Only then will we be on our way to addressing the epidemic of physician burnout.

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TABLE. Personal and Workplace Moderators of Physician Stress

| Demands | Control | Support | Resilience |
|---------|---------|---------|------------|
| Personal Factors | | | |
| Caretaker role | | | |
| Income needs | | | |
| Partner’s work | | | |
| Dependents’ schedules | | | |
| Commute time | | | |
| Home help | | | |
| Relationships | | | |
| Partner support | | | |
| Family support | | | |
| Community support | | | |
| Mindfulness | | | |
| Self-care | | | |
| (healthy diet, sleep, exercise) | | | |
| Gratitude | | | |
| Compassion for self and others | | | |
| Workplace Factors | | | |
| Work role | | | |
| Work hours | | | |
| Panel size | | | |
| Time pressure | | | |
| Case mix | | | |
| Team staffing | | | |
| Work schedule | | | |
| Work responsibility | | | |
| Productivity | | | |
| Team members’ responsibilities | | | |
| Work resources | | | |
| Leadership style | | | |
| Work culture | | | |
| Values alignment | | | |
| Supportive colleagues | | | |
| Team function | | | |
| Supportive relationships | | | |
| Team relationships | | | |
| Communication | | | |
| Managing conflict | | | |
| Feedback | | | |
| Psychological safety | | | |
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