Objective: To design an evidence-based intervention to address physician distress, based on the attitudes toward support among physicians at our hospital.

Design, Setting, and Participants: A 56-item survey was administered to a convenience sample (n = 108) of resident and attending physicians at surgery, emergency medicine, and anesthesiology departmental conferences at a large tertiary care academic hospital.

Main Outcome Measures: Likelihood of seeking support, perceived barriers, awareness of available services, sources of support, and experience with stress.

Results: Among the resident and attending physicians, 79% experienced either a serious adverse patient event and/or a traumatic personal event within the preceding year. Willingness to seek support was reported for legal situations (72%), involvement in medical errors (67%), adverse patient events (63%), substance abuse (67%), physical illness (62%), mental illness (50%), and interpersonal conflict at work (50%). Barriers included lack of time (89%), uncertainty or difficulty with access (69%), concerns about lack of confidentiality (68%), negative impact on career (68%), and stigma (62%). Physician colleagues were the most popular potential sources of support (88%), outnumbering traditional mechanisms such as the employee assistance program (29%) and mental health professionals (48%). Based on these results, a one-on-one peer physician support program was incorporated into support services at our hospital.

Conclusions: Despite the prevalence of stressful experiences and the desire for support among physicians, established services are underused. As colleagues are the most acceptable sources of support, we advocate peer support as the most effective way to address this sensitive but important issue.


PHYSICIANS ARE SUSCEPTIBLE TO the development of emotional distress as evidenced by the high prevalence of career dissatisfaction and burnout, with rates ranging from 15% to 29%1,13 and 22% to 75%,3,6-11 respectively. Mental health disorders commonly arise; 18% to 30% of physicians have screened positive for depression in national surveys.3,10,12 If unaddressed, physicians may turn to maladaptive coping mechanisms such as withdrawal,13 denial,13 substance abuse,14 or suicide.15,16

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Physician distress is devastating beyond an individual level; by impacting performance, its fallout touches patients. Distressed health care providers make more medical errors,10,12,17-20 have riskier prescribing profiles,21 and display less empathy,22,23 Their patients are less satisfied,24 less compliant,25 and more litigious.26 These physicians’ tendencies to change specialties5,7 and/or practices,5,6 decrease their work hours,5,6 and leave patient care entirely4,5,7 have significant implications for health care organizations and our health care system. The price of a single physician turnover is estimated at up to $123 000 in recruiting fees and $2 000 000 in lost revenue.27 Decreased productivity among distressed physicians may exacerbate looming health care workforce problems such as shortages or specialty imbalances.2,28 Accordingly, physician wellness has been termed the “missing quality indicator.”29
Despite repeated calls across disciplines,* efforts to address physician distress have been limited. Only a handful of interventions have been described in the literature, and still fewer demonstrate evidence of effectiveness—^not in small part due to the general lack of knowledge regarding best practices. We know little about how physicians currently cope and nothing about which support mechanisms they find acceptable. Without this crucial information, even the best-intentioned interventions risk underuse; such data are instrumental in the design of a program that will adequately service the gaps we identified within our community.

At our own institution, a program was launched in July 2006 to provide support to health care professionals following adverse medical events in the operating room. Modelled after support networks used by first responders (police, fire, and emergency services), the peer support team (PST) initially trained representatives from all disciplines (surgery, anesthesia, nursing) to participate in group debriefing sessions organized by the employee assistance program (EAP). The PST education included outreach, basic support skills (active listening, validation, acceptance), signs of need for escalation of care, and pathways by which such intensification may be accomplished (eg, professional mental health services); such "emotional first aid" is a key stage in the natural history of health care provider recovery and has historically been difficult to identify and/or access. By using clinician colleagues already integrated and respected within the system, we expected the PST to be more approachable and hence more widely used than existing services.

However, the PST discovered that physicians failed to access the support offered within these group sessions; affected physicians tended to avoid the sessions, and those who attended were reluctant to share their distress. In private discussions with such physicians and the trained peer supporters, it became clear that in public, most physicians felt the need to maintain their role as health care team leader; it was countercultural for them to admit emotional vulnerability in the presence of nonphysicians. To understand the unique challenges faced by physicians in seeking support, we turned to a survey conducted around the time of the PST’s inception. These data, which we report here, informed the program’s redesign to specifically address physician needs.

METHODS

SURVEY INSTRUMENT

No existing surveys addressed our domains of interest (willingness to seek support, perceived barriers, preferred mechanisms) at the time of this study; we developed our own items with input from survey research experts. Items were tested informally with physician colleagues and refined prior to administration.

The Physician Support Survey includes 56 items divided into 6 sections. The first 15 items query the likelihood that respondents would seek support for various theoretical situations (e.g., personal life struggles, medical error, legal situation), using a 4-point Likert scale (definitely would not, probably would not, probably would, definitely would). The next 13 items ask respondents to rate their level of agreement that certain factors (eg, lack of time, stigma, cost) would present a barrier to seeking support on a 4-point Likert scale (strongly disagree, somewhat disagree, somewhat agree, strongly agree). Four items address respondents’ level of awareness of existing services (eg, EAP, physician health services), as characterized by 1 of 4 responses (never heard of, aware of but do not know how to contact, aware of and know how to contact, and aware and have used). The next 13 items assess the likelihood that respondents would use particular services (eg, psychiatrist, faculty, resident, clergy), using a 4-point Likert scale (would not seek support, not very likely to seek support, somewhat likely to seek support, very likely to seek support). Eight items query respondents (yes or no) about their experience with stressful situations (eg, adverse event, personal physical illness, illness among family) during the past year. The last 3 items represent demographic questions: training level (resident, fellow, attending, other), department (surgery, anesthesia, emergency medicine [EM]), and postgraduate year (PGY) level (PGY-1, PGY-2, PGY-3, PGY-4, PGY-5).

SURVEY ADMINISTRATION

One of us (J.S.) introduced the study and distributed the surveys at the end of a departmental conference for each of the 3 departments: surgery, anesthesia, and EM. Audience members were invited to participate anonymously. Surveys were collected by an administrative assistant at the end of each meeting.

STATISTICAL ANALYSIS

For ease of interpretation and to increase power, all Likert scales were dichotomized into yes and no at the halfway point (eg, definitely would not and probably would not became no; probably would and definitely would became yes). Training level was dichotomized into trainees (residents and fellows) and attendings. Other respondents (n=15) were excluded from analysis. All stressful situations experienced during the past year were condensed into a single binary variable such that an affirmative response to any one of the 8 items constituted a positive stressor or indicator of distress. Descriptive statistics were obtained for the entire sample. We performed χ² tests to assess differences in responses between training levels, departments, and those who had experienced a stressor or indicator of distress. A subgroup analysis was performed to compare those who had experienced a specifically personal stressor or indicator of distress (ie, serious personal physical illness, personal mental illness, feelings of wanting to harm one’s self, serious illness among family, death in the family, other personal crisis, other) with those who either had not or had experienced a patient-related event. All calculations were performed with SAS version 9.1 statistical software (SAS Institute, Inc), with statistical significance set at P < .05.

RESULTS

We collected 108 surveys. The Table contains descriptive statistics for the entire sample.

PRIOR EXPERIENCES

More than half of the respondents had been involved in a serious adverse patient event (53%) or had experienced a personal stressor or indicator of distress (57%) in the past year; three-quarters (79%) had experienced

*References 3, 7, 9, 10, 12, 15, 18-20, 22, 29-37.
at least 1 of these 2. Among personal stressors or indicators of distress, serious illness among family members had affected more than a third (36%), while death in the family (13%), serious personal physical illness (11%), and other personal crises (12%) were somewhat less common but not rare. These results are displayed in Figure 1.

WILLINGNESS TO SEEK SUPPORT

The vast majority of responders (94%) indicated that they would anticipate wanting support for 1 or more of the listed stressful situations. Legal situations were the most commonly cited reason for which support would be desired (72%). Involvement in medical errors (67%) and adverse patient events (63%), substance abuse (67%), physical illness (62%), interpersonal conflict at work (50%), and mental illness (50%) would also motivate a majority of people. Less common reasons for seeking support are described in Figure 2.

BARRIERS TO SEEKING SUPPORT

Nearly all respondents (89%) perceived that lack of time would present a barrier to seeking support. A majority also indicated that concerns about lack of confidentiality (68%), negative impact on career (68%), documentation on their records (63%), the stigma of mental health care (62%), uncertainty about whom to see (61%), difficulty accessing services (52%), and unwanted interventions (50%) would prevent them from seeking care. Figure 3 contains an exhaustive list of barriers.

SOURCES OF SUPPORT

Figure 4 contains the results for the questions regarding the likelihood of seeking support from various people and/or services. Physician colleagues—faculty (70%), resi-
Trainees were significantly more likely than attendings to report that they would seek support for legal situations (82% vs 50%, respectively; \( P = .001 \)). The majority of both trainees and attendings cited lack of time as a barrier, although the trainees cited this more frequently (93% vs 79%, respectively; \( P = .05 \)). Three times as many trainees as attendings would be hindered by cost (38% vs 13%, respectively; \( P = .01 \)).

Predictably, residents were significantly more likely than attendings to seek support from other residents (53%-82% vs 10%-13%, respectively; \( P < .001 \)); however, there were no significant differences in the use of faculty, including chairpersons and/or program directors, between trainees and attendings. Perhaps due to their increased willingness to pay, attendings were significantly more likely than trainees to seek support from mental health professionals (64% vs 41%, respectively; \( P = .04 \)). There were no significant differences between trainees and attendings in their experience with stress during the past year.

INTERDISCIPLINARY DIFFERENCES

The EM physicians were significantly less likely to seek support for involvement in a medical error (EM, 48%; surgery, 62%; anesthesia, 77%; \( P = .02 \)). Anesthesiologists were significantly more likely to seek support for involvement in adverse events (anesthesia, 78%; surgery, 51%; EM, 52%; \( P = .02 \)). Surgeons were less likely to seek support for an interpersonal conflict in the workplace (surgery, 28%; anesthesia, 62%; EM, 61%; \( P = .004 \)).

There were higher levels of concern regarding a lack of confidentiality in seeking support among surgeons and anesthesiologists (surgery, 70%; anesthesiaology, 77%; EM, 48%; \( P = .046 \)). Similarly, anesthesiologists had more prevalent fears of legal consequences (surgery, 35%; anesthesia, 60%; EM, 26%; \( P = .01 \)).

DIFFERENCES BASED ON PRIOR EXPERIENCES

Those who had reported any type of stressor in the past year were more likely to seek support from colleagues than those who did not (faculty, 75% vs 48%, respectively; \( P = .02 \); chief residents, 57% vs 30%, respectively; \( P = .03 \)), perhaps because they already had. Similarly, experience may have informed responses for those who reported a specifically personal stressor or indicator of distress during the past 12 months. These respondents were less likely than those who did not report a personal stressor or indicator of distress during the past year to fear legal consequences (33% vs 58%, respectively; \( P = .02 \)).

Physicians in this study indicate a desire to seek support for a number of fairly common issues. Two-thirds expressed an interest in support for involvement in a medical error and/or an adverse patient event, an experience that more than half reported having in the preceding year. While these events are, to some degree, an inescapable part of the medical profession, conventional training does not address their potentially devastating emotional impact on health care providers. Thus, physicians have been called the “second victims” of medical mistakes. Support of the medical team during the aftermath of an adverse event is a well-described, yet largely unmet part of the medical profession, conventional training does not address their potentially devastating emotional impact on health care providers. Thus, physicians have been called the “second victims” of medical mistakes. Support of the medical team during the aftermath of an adverse event is a well-described, yet largely unmet

**Figure 4.** Affirmative responses (somewhat or very likely) to the statement, “Please state the likelihood that you would or would not seek support from each of the following when faced with stressful situations.” EAP indicates employee assistance program; GME, graduate medical education; and PHS, physician health services.

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the stigma of mental health care have been cited by physicians as impediments to seeking care in previous studies.\textsuperscript{49,50} Furthermore, physicians are notoriously poor at self-care, failing to follow basic health care recommendations such as routine preventive screening.\textsuperscript{31} A socially stigmatized condition like psychiatric disease is even more likely to be neglected.

A substantial proportion of physicians were unaware of the existence of traditionally available support mechanisms such as the EAP. Nationally, multicomponent models centered around EAP-provided services have been developed to support health care providers following adverse events.\textsuperscript{32} However, given the nature of barriers cited by respondents, increased knowledge is unlikely to result in increased use. Nearly 20% of our sample spontaneously wrote in a family member, friend, or spouse as a source of support. While friends and family are easily accessible, approachable, and undoubtedly a large component of physicians’ support systems, their ability to provide appropriate support is perhaps limited by an incomplete understanding of medicine and hospital culture. Nevertheless, the importance of this resource to physicians is worth noting.

**LIMITATIONS**

This survey used a convenience sampling method; as the survey was entirely anonymous and responses depended on attendance at departmental conferences, which we are unable to ascertain, a nonresponse analysis is infeasible. These results may reflect a nonresponse bias, with more of those who had experienced a previous event or an interest in support electing to respond. However, given the number of people who responded at the lowest Likert point on every question, we suspect that we did capture a full range of responses. Additionally, using the average recorded attendance at these conferences, we estimate our n=108 to represent a response rate in the range of 88%—respectable for a physician survey. Our survey results derive from a single institution and may not be generalizable to other populations. Lack of access to an EAP, for example, may be unique to our hospital. Nevertheless, as concerns about confidentiality are certainly not exclusive to our physicians, it is likely that others elsewhere share their wariness of formalized programs.

No attempt was made to validate respondents’ experiences, but given that it is the perception of an event that drives an individual’s need for support rather than an objective measure, we do not feel such confirmation offers any incremental value.

Our survey was unable to attribute specific barriers to particular services. Nevertheless, assuming conservatively that physicians’ concerns regarding confidentiality and stigma are pervasive across support mechanisms, we believe it is possible to design a support mechanism that addresses many, if not all, of these concerns. As the most desired potential sources of support are other physicians, a result corroborated by other studies,\textsuperscript{13,18,32,33,34} we advocate for a peer-based system of support. Among our respondents, those with prior stressful experiences—presumably our target population—were even more likely to choose physician colleagues.

**REDESIGN OF THE PST PROGRAM**

Given the prevalence of concerns regarding stigma and confidentiality in our population, it is unsurprising that physicians are reluctant to use EAP-organized group support. Despite the fact that these sessions are conducted confidentially and without documentation, the program does maintain ties to an institutional structure with which many physicians are unfamiliar. The mere presence of other members of the health care team is likely uncomfortable for physicians; they are accustomed to assuming a leadership role within these teams rather than one of a true peer. As our survey illustrates, physicians seek support from other physicians. We posit that the most effective physician support system involves peers who have the unique qualification of having “been there”—of having had similar experiences with stressful situations such as errors and/or litigation in the past.

In 2009, we instituted a one-on-one, physician-to-physician peer support program. Since then, more than 30 physicians have been trained. To ensure that these individuals are approachable to those who need them, we have transitioned from a selection process of appointment to one of nomination. Invitations to undergo peer support training are now offered to (and accepted by) a range of people who have been suggested by their fellow residents and faculty members. Following notification by clinician colleagues, risk management, or EAP, a physician peer supporter makes an outreach call to each of the individual physicians involved in an adverse event, and one-on-one support is offered. In partnership with the hospital’s risk management office and Controlled Risk Insurance Company, our medical malpractice insurer, we also provide training and support services for the disclosure of medical errors. If and when legal complaints are filed, the PST is notified by the risk management office, and defendant clinicians are put in contact with senior physicians who have experienced the litigation process and are able to provide support.

**CONCLUSIONS**

The culture of an institution may be both the cause and the victim of moral distress.\textsuperscript{34} Thus, an operational support system requires a visible commitment from leadership as well as a predictable, organized infrastructure.\textsuperscript{35} We explicitly support a culture of trust at our hospital, predicated on mutual respect for individuals, teams, and the institution; we hold a basic assumption that everyone is trying to do his or her best. In establishing the PST, we set out to strengthen that culture of trust by supporting health care providers at their most vulnerable moments, protecting them against burnout and emotional impairment. When the first iteration of the PST program demonstrated an inadequacy in reaching physicians, we used the survey data presented here to expand the program and address their unique concerns. We anticipate that this programmatic reform—novel in its use of physician-provided services on both a one-on-one and a group basis—will increase our presence within the hospital. Only by becoming part of the normal social fabric may we hope to penetrate this “conspiracy of silence” surrounding physician distress and to ultimately help each other heal.


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REFERENCES