



Suicide Prevention

Evidence-Informed
Interventions for the
Health Care Workforce

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Glossary

Behavioral Health: Behavioral health disorders include both mental illness and substance use disorders. Mental illnesses are specific, diagnosable disorders characterized by intense alterations in thinking, mood and/or behavior over time. Substance use disorders are conditions resulting from the inappropriate use of alcohol or drugs, including medications. Persons with behavioral health care needs may suffer from either or both types of conditions as well as physical co-morbidities.

Evidence-Based Practice: practices, methods, interventions, procedures and techniques that are based on high-quality scientific evidence and proven improvement in outcomes (Ham-Bayoli et al., 2020)

Evidence-Informed: An evidence-informed approach blends knowledge from research, practice and people experiencing the practice. (Australian Institute of Family Studies, 2022)

Emerging Practice: an activity, procedure, approach or policy that leads to, or is likely to lead to, improved outcomes (Health Resources and Services Administration, 2022).



Executive Summary

Background

According to the Centers for Disease Control and Prevention (CDC), health care workers are at an increased risk for suicide for reasons such as difficult working conditions, long work hours, rotating and irregular shifts, emotionally difficult situations with patients and family members, risk of exposure to diseases, and other hazards, including workplace violence, routine exposure to human suffering and death, and access to lethal means (CDC, 2021).

The COVID-19 pandemic has exacerbated the risk factors for suicide in the health care workforce. A study by Mental Health America from June – September 2020 showed that of the 1,119 health care workers surveyed, 93% reported experiencing stress, 86% reported experiencing anxiety, 77% reported frustration, 76% reported exhaustion and burnout, and 75% reported feeling overwhelmed. Thirty-nine percent of health care workers said that they did not feel like they had adequate emotional support.

In September 2021, the National Institute of Occupational Safety and Health (NIOSH), part of the CDC, granted the American Hospital Association’s (AHA’s) Health Education & Research Trust (HRET) a grant to:

- Identify and curate existing evidence-based and developing approaches for addressing and reducing suicide risk and attempts in hospital personnel;
- Develop curated content of interventions, by hospital type where possible, to optimize maximum spread and adoption of suicide risk assessment and/or prevention strategies; and
- Identify metrics to assess and monitor prevention initiatives.

Highlights of Findings

To address the above objectives, a literature review, and a survey, interviews, and focus groups of hospital and system leaders were conducted. These combined methods led to the identification of three drivers of suicide in the health care workforce: behavioral health stigma, limited access to behavioral health treatment, and job-related stressors. The impact of the three drivers was further explored in the one-on-one interviews and focus groups, which delved into modes and accessibility of services as well as the effectiveness of campaigns to reduce stigma and the importance of data collection, stratification and use.

While the literature review did not reveal any one specific intervention with strong evidence of preventing suicide among health care professionals, several interventions identified in the literature, survey data, and focus group and interview data demonstrated some indication of effectiveness, and a broad uptake among hospitals and health care systems. Twelve suggested interventions, as well as related metrics, are provided in the High Priority Interventions and Metrics section which begins on page 11.

THREE DRIVERS OF SUICIDE IN THE HEALTH CARE WORKFORCE

- DRIVER Behavioral Health Stigma**
- DRIVER Limited Access to Behavioral Health Treatment**
- DRIVER Job-related Stressors**

Background

The COVID-19 pandemic and its effects have created unprecedented stress, anxiety and uncertainty for health care workers. Health care workers at hospitals and health systems across the country have felt the effects of caring for their patients, families and communities over the last two and a half years, and research shows that health care workers have reported higher levels of psychological distress, stress, anxiety, depression, burnout, sleep impairments, and work impairments as compared to before the pandemic (Biber et al., 2022, Gupta et al., 2021). These factors are associated with psychological distress, which may lead to symptoms of anxiety, depression, or provoke suicidal ideation and potentially suicide. (Gupta et al., 2021).

Hospital and health system leaders play a critical role in preventing suicide among their teams by ensuring that the workforce has the tools and resources needed to maintain their mental health and well-being. Findings from the literature review suggest that some existing interventions can reduce anxiety and stress, identify those in extreme distress, and connect those in distress to needed services. While the research community continues to devote more attention to this issue, hospitals and health systems can introduce or enhance resources and support to improve the mental well-being of the workforce. This guide is intended to provide hospital and health system leaders with ideas, tools, interventions and metrics that they can implement within their organizations to improve behavioral health and well-being and reduce the risk of suicide.

Methods and Findings

Literature Review

A [literature review](#) was conducted in March 2022 to identify evidence-based best practices for preventing suicide in the health care workforce. This literature review built on a [previous scan](#) of the published and grey literature conducted by the Institute for Healthcare Improvement (IHI).

Inclusion criteria included articles that were written in the English language, human research population, peer-reviewed, primary research or systematic review, and manuscripts published between 2020-2022. Because health care workers in lower to middle income countries may have significantly different experiences from U.S. workers, primary research studies were included only if the target population was in a high-income country (as [defined](#) by the World Bank). Articles on topics related to suicide (such as burnout, depression or moral injury) were included only if the study also measured suicidal thoughts, behaviors or attempts. Abstracts, study protocols or program descriptions without results or evaluation, and non-systematic narrative topic reviews were excluded.

A limited number of articles not directly related to health care populations were included because they reviewed data on evidence-based suicide prevention interventions, theories of suicide, novel or emerging approaches to suicide assessing risk, or information about key subgroups with less data in the health care literature (e.g., risk by race, sexual orientation, disability, etc.).



Survey

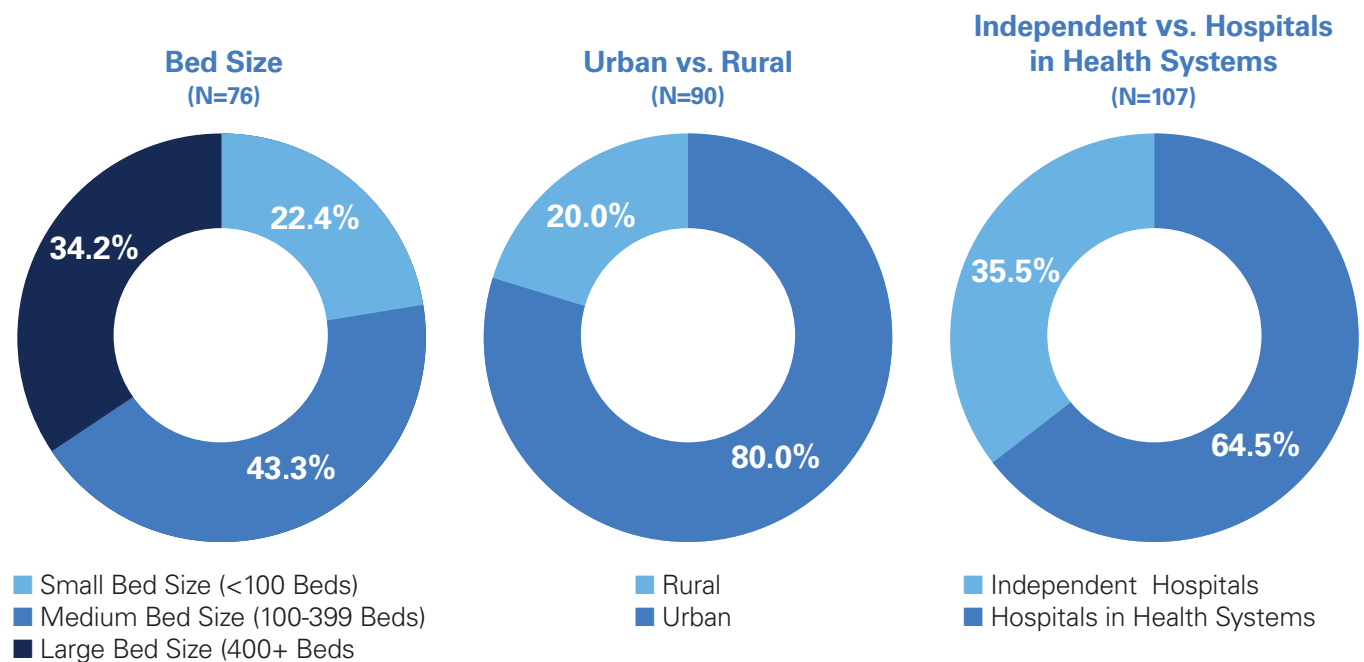
Design

Two surveys were distributed to AHA member hospitals and health systems to identify programs that hospitals and health systems are implementing to support the mental well-being of and prevent suicide among health care workers, as well as the challenges and barriers encountered in these areas. The initial survey (conducted from October to November 2021) had six responses; the final, revised survey (conducted from November to December 2021) had 158 responses. Excluding demographic questions, the initial survey had five questions and the final survey had seven. The survey questions were revised to address a low response rate on the first survey, and because the two surveys asked different questions, they were analyzed separately. Given the higher number of respondents and revised questions in the second survey, many of the key findings presented in this guide come from this revised version.

Survey Findings

The surveys found that hospitals and systems are implementing diverse strategies to improve their health care workers' access to behavioral health services. Employee Assistance Programs (EAPs) were the main strategy; other strategies included critical incident counseling and debriefing, stress management and resiliency training, and workplace behavioral health awareness training. Psychological safety training and behavioral health education to create or increase a broader sense of psychological safety were also reported. Organization-created programs, such as peer support and wellness groups, were reported more often than nationally recognized programs like the UCSD HEAR Program, but respondents overwhelmingly indicated that they would be interested in learning more about national, evidence-based approaches.

Final Survey Respondent Demographics (N=158)



Key Informant Interviews and Focus Groups

Interviews and focus groups were conducted between March and April 2022 to learn more about suicide prevention programs that hospitals and systems are implementing, as well as the challenges and barriers encountered in these areas. Focus groups were held on the topics of peer-to-peer support; and the use of EAPs. Additionally, one-on-one interviews were held with eight hospitals/health systems. Key informants were selected from the survey respondents based on several factors, including unique approaches to suicide prevention, programs offered at rural hospitals, and programs that integrated suicide prevention with diversity, equity, and inclusion.

Participants agreed that health care workers are most likely to seek out behavioral health and well-being services when they are accessible (via both on- and off-site care options), affordable, convenient and anonymous. Moreover, respondents also indicated that equipping health care workers with adequate mental health response training (e.g., Mental Health First Aid and Psychological First Aid) and promoting mental health awareness campaigns reduces the stigma of care-seeking behaviors and creates a culture of advocacy for treating mental health and preventing suicide. Finally, respondents agreed that collecting and monitoring data are critical to creating tailored and effective programs that support mental well-being and prevent suicide.

While these findings are not generalizable due to the small sample size, the interviews and focus groups provided input on mental well-being and suicide prevention programs from various types of hospitals and health systems.

Key Findings

Qualitative and quantitative analyses of the survey, key informant interviews and focus groups, and the literature review identified three primary drivers of suicidal behaviors for the health care workforce, shown in Figure 1.

Figure 1. Primary Drivers of Suicide in the Health Care Workforce

DRIVER Stigma associated with talking about and seeking behavioral health care

- Fear from clinicians that seeking care may have a detrimental effect on their ability to renew or retain their state medical license
- Fear of losing hospital privileges via the credentialing process
- Fear of being perceived as “weak” or unable to perform on the job
- Feeling of being judged or unsupported by peers, managers, and/or senior leadership for seeking behavioral health care
- Fears about treatment confidentiality, especially when care is accessed at or provided by clinicians practicing at the same hospital or health system as the person receiving care

DRIVER Inadequate access to behavioral health education, resources, and treatment options

- Long wait times between referrals and starting care
- Behavioral health providers in the employee’s health not having convenient office hours that accommodate a health care worker’s schedule
- Out-of-pocket expenses for treatment exceeding the individual’s ability to pay for care
- Uncertainty about how to access free resources from the EAP or Human Resources

DRIVER Job-related Stress

- Repeated exposure to death and dying
- Workplace violence
- Emotionally draining work
- Lack of support that acknowledges human limitations in a time of extreme work hours, uncertainty, and intense exposure to critically ill patients
- Lack of appropriate rewards (financial, social or intrinsic)
- Lack of connection with others in the workplace
- Lack of perceived fairness and mutual respect
- Mismatch between personal values and leadership/organizational values or organizational values and actual practice
- Insufficient control over resources needed or insufficient authority to pursue work more effectively

The three drivers were informed by both evidence-based practices and emerging practices identified by the literature review, as well as practices being employed by hospitals and health systems as reported in the surveys, key informant interviews, and focus groups.

While the literature review did not reveal any one specific intervention with strong evidence of preventing suicide among health care professionals, several interventions identified in the literature, survey data, and interview and focus group data demonstrated some indication of effectiveness and a broad uptake among hospitals and health care systems. As the research community devotes more attention to this issue, hospitals and health care systems can introduce resources and support as a foundation for building evidence-based approaches and ensure that adequate, high-quality behavioral health and well-being and suicide prevention resources are offered.

Figure 2. Addressing the Drivers of Suicide in the Health Care Workforce



High Priority Interventions and Metrics

These 12 evidence-informed interventions can be used to establish or expand a hospital or health system's suicide prevention programming, and the associated metrics can be used to track progress toward the organization's goals. Each intervention and metric correspond with at least one of the three key drivers of suicide in the health care workforce. These interventions and metrics are not a one-size-fits-all approach. Choose the interventions and metrics that work for your organization based on your hospital's available resources to create a customized program to suicide prevention in the health care workforce.

Knowing where to start can often be overwhelming. Use the questions below to prioritize the interventions most appropriate for your organization.

Identifying and Prioritizing Interventions for Your Organization

- Inventory the suicide prevention, behavioral health and well-being tools already available at your organization. Identify what offerings are available at the individual level, the unit or department level, and at the organizational level.
- Quantify current program use, value and success, where possible.
- Identify any data sources for understanding the current state of suicide prevention, behavioral health, and well-being programming. This could be well-being or employee engagement survey data, specific program evaluations, or other existing data to provide clarity on what is needed to support the workforce.

Seven Questions to Ask For Each Intervention

- Who will lead and champion the implementation, and which stakeholders need to get involved?
- What internal resources, both staff and financial, will be required?
- What external resources are necessary?
- What is the anticipated timeframe for launching each intervention?
- How do you gain buy-in from the workforce for these initiatives?
- What are the anticipated barriers to implementation and how can they be overcome?
- How do you evaluate progress and scale up the program?

Leaders should implement these interventions with accompanying metrics and evaluate the effectiveness of the programs over time.

EXPLORE MORE

VIDEO

Learn more about how CHI & Common Spirit are reducing behavioral health stigma across their system.

[WATCH NOW](#)

PODCAST

Learn more about how Providence Health has used interventions like the American Foundation for Suicide Prevention's Interactive Screening Program tool to improve access to behavioral health screening, treatment, and resources.

[LISTEN NOW](#)

PODCAST

Learn more about how Linden Oaks Behavioral Health has committed to reducing and removing job-related stressors for their workforce.

[LISTEN NOW](#)

Areas of Focus Interventions, Drivers, Metrics and Resources

A robust suicide prevention program should incorporate interventions that address all three drivers. The interventions are categorized into four types, according to their area of focus:



Increasing Access to Services



Operational Enhancements



Organizational Campaigns



Training



AREA OF FOCUS

Increasing Access To Services

INTERVENTION

Engage all hospital employees in an on-demand, anonymous and encrypted screening and referral program for behavioral health disorders

EXAMPLE PROTOCOLS

- [American Foundation for Suicide Prevention Interactive Screening Program](#)
- [UC San Diego Healer Education Assessment and Referral \(HEAR\) Program](#)

KEY DRIVERS ADDRESSED: ■ Stigma ■ Access

KEY METRICS

- % of employees who participate in screening within a defined time period
- % of employees who receive referrals for treatment among those who screen as high risk

INTERVENTION

Offer on-demand behavioral health resources and flexible treatment options to employees, medical staff and their families

RESOURCES

For more information related to access to behavioral health care via health plans, view the [AHA Workforce Navigation Guide](#).

KEY DRIVER ADDRESSED: ■ Access

KEY METRICS

- % of employees who utilize the organization's EAP
- % of employees who indicate satisfaction with the EAP services provided
- # of referrals received by EAP program within a defined time period
- Average # of days between initial EAP contact and beginning treatment

INTERVENTION

Ensure that licensed behavioral health clinicians who provide care to employees are trained to provide culturally appropriate mental health care

FOR MORE INFORMATION

- [Cultural Diversity and Mental Health: Considerations for Policy and Practice \(2018\)](#)
- [AHA Health Equity Roadmap](#)

KEY DRIVERS ADDRESSED: ■ Stigma ■ Access

KEY METRIC

- % of behavioral health providers completing cultural competency training



AREA OF FOCUS

Operational Enhancements

INTERVENTION

Remove or modify questions from hospital and system-based credentialing, peer review and application policies and processes that stigmatize seeking care for a behavioral health disorder

FOR MORE INFORMATION

- [Dr. Lorna Breen Heroes' Foundation Toolkit](#)
- [Federation of State Medical Boards](#)

KEY DRIVERS ADDRESSED: ■ Stigma ■ Job-related stressors

KEY METRICS

- Yes/No – Do your organization's credentialing, peer review, and/or application questions...
 - Contain invasive or stigmatizing language and disclosure requests on a clinician's health, well-being, or substance use disorders?
 - Contain language that references mental health explicitly in a way that is not supportive or conducive to encouraging treatment-seeking behaviors?
- Request information about past mental health concerns or substance use that are not relevant to their ability to provide care at the present time?
- % of hospital or health system policies reviewed to remove stigmatizing language
- % of credentialing forms reviewed to remove stigmatizing language

INTERVENTION

Employ staff who are responsible for overseeing and supporting employee behavioral health and well-being

KEY DRIVERS ADDRESSED: ■ Stigma ■ Access ■ Job-related stressors

KEY METRICS

- Presence of an on-site Chief Well-being Officer (or equivalent) who is a member of the executive team and has designated staff support
- Having at least one licensed mental health professional dedicated to providing employee behavioral health services
- Having an organization-wide council to advance behavioral health and well-being organizational goals
- % of employees who respond to staff surveys that address behavioral health and well-being

INTERVENTION

Debrief [sentinel](#) events, involving patients and/or health care workers, including suicide, using non-punitive risk management strategies

EXAMPLES:

- [Critical Incident Stress Debriefing \(CISD\)](#)

KEY DRIVER ADDRESSED: ■ Job-related stressors

KEY METRICS

- % of sentinel/emotional events (not only patient suicides, but suicides of health care workers or a significant increase in deaths from a pandemic, etc.) that are followed by a non-punitive debriefing session
- % of employees trained in CISD or other non-punitive debriefing strategy



AREA OF FOCUS Organizational Campaigns

INTERVENTION: Engage employees in systemic campaign, such as story sharing about behavioral health to normalize seeking treatment, provide education about behavioral health disorders, behavioral health disorders and treatment, and/or ensure representation of diverse voices when talking about behavioral health

KEY DRIVERS ADDRESSED: ■ Stigma

KEY METRICS

- % of all hospital employees who participate in a hospital-wide campaign to normalize talking about and seeking treatment for mental health and well-being and behavioral health disorders
- % of senior leadership who engage in campaign

INTERVENTION: Create/build on an existing hospital-wide stigma reduction campaign to encourage improved language and behaviors for discussing behavioral health disorders

CAMPAIGN EXAMPLES:

- [AHA's People Matter Words Matter](#)
- [Shatterproof's Ending the Stigma of Addiction](#)

KEY DRIVER ADDRESSED: ■ Stigma

KEY METRICS

- Identify an accountable leader who will create and/or oversee anti-stigma activities
- # of all-staff communications that include anti-stigma messaging or resources
- % of employees who include participation in a stigma reduction activity as part of their annual goals



AREA OF FOCUS TRAINING

INTERVENTION

Train and educate all employees about behavioral health and improve skill and capability to respond to colleagues who need behavioral health support

TRAINING EXAMPLES:

- Mental Health First Aid
- Psychological First Aid
- Question, Persuade, Refer (QPR)

KEY DRIVERS ADDRESSED: ■ Stigma ■ Access

KEY METRICS

- % of employees who are trained yearly in at least one skills-based behavioral health intervention to enhance the individual's practical skills.
- Provision of a hospital-wide incentive program to encourage all employees to complete behavioral health training such as MHFA, QPR, or Psychological First Aid

INTERVENTION: Offer peer-to-peer support training programs

For more information:

- [Defining "Peer Support": Implications for Policy, Practice, and Research \(2018\)](#)

Examples:

- Schwartz Rounds
- Johns Hopkins Medicine & Maryland Patient Safety Center's Caring for the Caregiver: Implementing RISE (Resilience in Stressful Events) Program
- Nationwide Children's Hospital YOU Matter Program

KEY DRIVER ADDRESSED: ■ Access

KEY METRICS

- % of departments with at least one trained peer supporter
- % of employees trained in peer support
- # of peer support interventions occurring within a defined period
- Implementation of a performance improvement process for peer support training program(s)

INTERVENTION

Provide access to evidence-based, continuing behavioral health treatment services such as [Cognitive Behavioral Therapy \(CBT\)](#) and [Dialectical Behavioral Therapy \(DBT\)](#)

KEY DRIVER ADDRESSED: ■ Access

KEY METRICS

- % of employees who have access to CBT and DBT services among those who need it
- Average # of days between initial referral and start of treatment
- % of behavioral health providers in employer-sponsored health plan who offer CBT and DBT

INTERVENTION

Train employees to act when witnessing harassment, discrimination, incivility and lateral violence

EXAMPLES:

- [Bystander Training](#)
- [Cognitive Rehearsal Training](#)

KEY DRIVERS ADDRESSED: ■ Stigma ■ Job-related stressors

KEY METRICS

- % of employees who annually complete bystander training
- % of employees who annually complete cognitive rehearsal training



Suggestions for Future Work

For researchers:

- While there are certain age and identity factors that put people in the general population at a higher risk for suicide, such as being between ages 45-54, identifying as LGBTQ+, and identifying as male (SAMHSA, 2022), more research is needed to understand whether being a health care worker who also falls into one of those categories increases the risk for suicide.
- There is limited research available on suicide prevention approaches for health care workers who work in non-clinical positions (e.g., environmental services, administrators, security, patient advocates, etc.). Most of the available research focuses on specific clinical roles such as physicians or nurses rather than on the health care workforce overall, and there is an opportunity to expand understanding in this area.
- Limited research exists on the effectiveness of health care worker suicide prevention initiatives at rural and critical access hospitals. As people who live in rural areas typically have more limited access to behavioral health care and have a higher risk for suicide than those who live in urban areas (CDC, 2022), there is a need to understand the efficacy of suicide prevention programs in this setting.
- Current research on suicide in the hospital and health system workforce shows that women in medicine have a greater risk of suicide compared to women in other occupations. More research is needed to gain clarity on the risk factors, and accordingly effective interventions.

For hospitals and health systems:

- Build or enhance suicide prevention, behavioral health and well-being programming, focusing on the above interventions.
- Identify groups of employees who are statistically most at risk for suicidality and target interventions for these groups.
- Have a plan in place to offer postvention services to all employees in the event of a suicide.

For hospital and health care associations:

- As organizations begin to consider implementing their own programs relating to suicide prevention, convene hospital leaders to share knowledge and concerns, problem solve, and co-create tools and resources.
- Expand awareness of existing evidence-informed interventions to the 5,000+ American hospitals and health systems.
- Employ campaigns and interventions to reduce the stigma of seeking care for behavioral health.

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