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RESEARCH NOTE**Behavioral health literacy: A new construct to improve outcomes among incarcerated individuals**

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Abstract

In the United States, nearly 13 million adults are incarcerated in prisons and jails annually with significant negative public health consequences. Incarcerated individuals have disproportionate rates of behavioral health disorders (BHDs); untreated BHD symptoms bring people into incarceration settings and are associated with re-arrest after release. Although lack of treatment motivation is often used to explain these outcomes, individuals may have limited knowledge about BHDs and their symptoms, when and why treatment is warranted, and how to access treatment during custody and in the community. We propose a new construct called behavioral health literacy to facilitate linkage between individuals with BHDs and appropriate treatment options. In this paper, we define behavioral health literacy, review extant literature, describe why behavioral health literacy is needed, and explore how behavioral health literacy interventions may be developed to expand knowledge and guide policy and practice, ultimately improving both behavioral health outcomes and reduce criminal legal system involvement.

KEYWORDS

behavioral health literacy, incarceration, mental health, reentry, substance use disorder

INTRODUCTION

On any given day in the United States, nearly 1.2 million adults are incarcerated in state prisons and nearly 6.9 million more are admitted into and released from local jails each year with significant negative public health consequences across the country (Carson, 2022; Zeng, 2022). Incarcerated individuals have disproportionate rates of mental health and substance use disorders, otherwise known as behavioral health disorders (BHDs; Bronson et al., 2017; Bronson & Berzofsky, 2017; Steadman et al., 2009). Individuals experiencing symptoms of BHDs are at increased risk for police contact and arrest, incarceration often worsens individuals' symptoms during custody, and untreated BHD symptoms are associated with

increased rates of re-arrest after release (Wilson et al., 2011). Furthermore, because incarceration disproportionately affects individuals of color, incarceration both creates and exacerbates documented BHD racial health disparities (Massoglia, 2008). The racially driven health disparities extend beyond the individuals the United States incarcerates to negatively affect their intimate partners and children, shaping community health and fueling generations of health disparities (Boch et al., 2021; Lee & Wildeman, 2021; Wildeman & Wang, 2017).

Despite exceedingly high rates of BHDs among those who are incarcerated, few prisons are able to meet the demands for treatment; fewer than half of individuals identified as requiring mental health or substance use

disorder treatment identified that they were currently receiving various types of clinical and nonclinical care (e.g., self-help groups, case management services, psychoeducation, professional counseling, or medication) during custody in US prisons (Bronson & Berzofsky, 2017; Taxman et al., 2007). Jail settings are even less likely than prisons to provide screening or treatment for BHDs to their residents, citing challenges with capacity and logistics (Center for Substance Abuse Treatment, 2006; Taxman et al., 2007). However, as incarceration is one causal factor in the US widening health inequities, not activating prisons and jails as a leverage point for screening and intervention represents a profound missed opportunity (Massoglia & Pridemore, 2015; Wildeman & Wang, 2017). Incarceration settings could be leveraged to prevent the worsening of BHD symptoms for millions of individuals and reduce behavioral health disparities by providing services during custody, connecting individuals to treatment after release, or providing self-management skills to enhance coping when no treatment is available. The churn of incarceration, release, and reincarceration will not be disrupted without addressing the many common BHD symptoms which bring people into contact with the criminal legal system.

One common misperception about individuals with BHDs who make contact with the criminal legal system is that they lack motivation to seek out and engage in BHD treatment during incarceration and community settings, despite the fact that motivation is infrequently (if at all) mentioned as a primary barrier to service utilization among this population (Meyer et al., 2014; Mitchell & Latchford, 2010; Morgan et al., 2004; Owens et al., 2018). This notion, paired with a range of treatment barriers including lack of both health insurance and transportation, is often used to explain low rates of treatment access and engagement in the community among individuals involved in the criminal legal system (Belenko et al., 2013; Dearing & Twaragowski, 2010; Meyer et al., 2014). However, low BHD help-seeking and treatment engagement among this population may also be better explained by individuals' limited understanding of BHDs and when and how to access appropriate treatments. For example, instead of having an established system for assessing and treating BHDs in US prisons and jails, incarcerated individuals are often responsible for recognizing their own BHD symptoms, understanding their own treatment needs, and then identifying and accessing existing community resources after their release (Belenko et al., 2013; Kubiak et al., 2020; Mallik-Kane & Visher, 2008; Owens et al., 2018). Thus, even a highly motivated individual simply might encounter barriers to searching out, accessing, and engaging in treatment.

To bridge this gap, we propose a new construct called behavioral health literacy to guide intervention development and facilitate linkage between individuals with BHDs and appropriate treatment options. We define behavioral health literacy as an individual's capacity to obtain, process, and understand basic behavioral health information and to become aware of supports, symptom management, services, and treatment options for helping to redress potential negative impacts of BHDs. By defining this construct, we identify an intervention that advances treatment readiness by focusing on understanding the disease and ailment as part of an effort to also foster engagement in appropriate treatment services and self-management. The purpose of the construct is to guide the development, implementation, and testing of interventions to increase knowledge about BHDs and their symptoms, facilitate linkage to treatment when appropriate, and ultimately improve both behavioral health outcomes and reduce criminal legal system involvement. This definition builds upon the health and mental health literacy literature and fills substantive gaps in both constructs. In this paper, we provide a review of extant literature on BHD and health literacy, describe why BHD literacy is needed, and explore how BHD literacy can expand research knowledge and guide both policy and practice in the field.

BACKGROUND

BHDs among incarcerated individuals

Disproportionate rates of untreated symptoms of BHDs fuel the cycle of incarceration and reincarceration for many individuals. For example, a striking 40% of incarcerated individuals have been identified as having a history of a mental health disorder in the United States (Maruschak & Bronson, 2021), which is substantially elevated when compared to prevalence of mental health disorders in the general public 21%. Furthermore, substance use disorders are reported at epidemic rates; US national prevalence data indicate that over 50% of incarcerated individuals have substance use disorders compared to 6% of the general public (Bronson et al., 2017).⁴ Co-occurring BHDs are also extremely common, with 41%–68% of incarcerated samples (in US prison- and jail-based studies) having both mental health and substance use disorders (Mir et al., 2015; Smith & Trimboli, 2010) compared to 24% of nonincarcerated individuals (Bronson & Berzofsky, 2017).

Individuals with BHDs are more likely to experience multiple incarceration events, thus any effort to reduce

the reach and size of our criminal legal system must include tailored approaches to redirect individuals with BHDs into systems of public health care. Untreated symptoms of BHDs include aggression, impulsivity, limited coping efficacy, anger, depression, anxiety, problematic substance use, post-traumatic stress disorder, poor emotional regulation, and poor interpersonal functioning (Breslau, 2009; Medrano et al., 2002; Najavits & Walsh, 2012; Otto et al., 2007). These symptoms undoubtedly contribute to high reincarceration rates (Combs et al., 2019; Kubiak, 2004; Sadeh & McNeil, 2015). In the United States, incarcerated adults with BHDs are also more likely to have at least one prior incarceration compared to those without BHDs (King et al., 2018; Veeh et al., 2018). Individuals with BHDs are more likely to be incarcerated for crimes associated with public nuisances, homelessness, and being under the influence of drugs and alcohol; these individuals are also more likely to be reincarcerated for violating the terms of their postrelease supervision (i.e., probation or parole; James & Glaze, 2006; Karberg & James, 2005; Mallik-Kane & Visser, 2008; National Center on Addiction and Substance Abuse, 2010). Incarcerated adults with BHDs tend to be incarcerated longer than others charged with similar crimes (James & Glaze, 2006) and are more likely to be reincarcerated when compared to individuals without BHDs (National Center on Addiction and Substance Abuse, 2010; Veeh et al., 2018).

The presence and impact of BHDs have serious consequences beyond criminal legal system-involvement for incarcerated individuals. Suicide is the leading cause of unnatural death for incarcerated individuals in the United States, with estimates suggesting that suicide comprises between 5% (federal) and 6% (state) of deaths not related to illness which occur in custodial settings (Carson, 2021). The highest reported rates of suicide are among jail residents when compared to both prison residents and members of the general public (Hedegaard et al., 2021; Noonan et al., 2015). Furthermore, the days and weeks following release from incarceration also carry extraordinarily high risk for death. Individuals leaving incarceration are 12.7 times more likely to die in the 2 weeks following their release when compared to other US residents (Binswanger et al., 2007). These deaths are driven by drug overdose fatalities, with estimates suggesting that the adjusted relative risk of death from overdose was 129 among those releasing from prison when compared with other state residents (Binswanger et al., 2007). Physical illness, homicide, suicide, and motor vehicle accidents are additional drivers of death after release from incarceration (Pettus & Kennedy, 2019); the relative risk for death is highest among women (RR = 5.5), younger individuals (25–34 years old at the time of release;

RR = 4.8), and those identified as White (RR = 3.8; Binswanger et al., 2007).

Screening and treatment for BHDs during incarceration

Despite high prevalence of BHDs among incarcerated individuals, screening for BHDs is far from universal. Although the US state prison systems have a screening process to identify individuals with BHDs where referral to services depends on the treatment available in the prison system, only a third of jails provide any screening for BHDs at any point during custody (Bronson et al., 2017; Bronson & Berzofsky, 2017; Center for Substance Abuse Treatment, 2006). Furthermore, even in US prison settings with a screening process, fewer than 10% of the individuals identified as needing substance use disorder treatment receive it during custody (Taxman et al., 2007). Likewise, only 17–33% of individuals identified as needing mental health treatment receive treatment during their incarceration (James & Glaze). Pharmacotherapy rates in US prisons are also low, even among individuals who arrive at prison with knowledge of their BHD and an established prescription for treatment. Reingle Gonzalez and Connell (2014) note that more than 50% of individuals medicated for mental health conditions at prison admission received no medication during custody.

A majority of behavioral health treatment offered within US correctional facilities appears to focus on 12-step self-help groups and educational programming, rather than professional treatment services (National Center on Addiction and Substance Abuse, 2010; Taxman et al., 2007). According to administrators, these educational and self-help programs are often easier to implement with highly transitional groups compared to more intensive manualized or treatment community options (Center for Substance Abuse Treatment, 2006; National Center on Addiction and Substance Abuse, 2010). Although there is a large variety in content and delivery among these programs, the underlying concepts for these approaches are that providing education and peer-support empowers individuals to assume responsibility for their actions which will ultimately allow participants to change their behaviors (Center for Substance Abuse Treatment, 2006). This is frequently achieved using films and presentations on the effects of substance use or misuse, information about community resources, and education about medication-assisted treatment (Center for Substance Abuse Treatment, 2006). Unfortunately, most of these programs fail to meet the crucial criteria for evidence-based practice such as standardized screening

or risk assessment, addressing co-occurring disorders or using a standardized treatment orientation (Friedmann et al., 2007; National Center on Addiction and Substance Abuse, 2010). To address this, current practice guidelines recommend comprehensive screening for co-occurring disorders and using self-help and substance abuse education programming as additional services to support more comprehensive behavioral health treatment (Center for Substance Abuse Treatment, 2006; National Center on Addiction and Substance Abuse, 2010; Zhang, 2019). Relatedly, these approaches have stemmed from a dominant group/white majority orientation and rely on jargon language that has been drawn from white majority experiences. Given the heterogeneity of the incarcerated populations and the large representation of nonwhite individuals, behavioral health literacy approaches allow for tailored development of language and psychoeducation in a way that is culturally appropriate and responsive.

In addition to the lack of universal screening procedures for BHDs in correctional settings in the United States, several other factors contribute to individuals not receiving treatment for BHDs while incarcerated. Those factors include: (1) limited identification of BHDs due to the under reporting of symptoms and staff believing people disclose BHDs as an excuse; (2) treatment demands far outstrips supply; (3) individuals' removal from treatment due to their refusal to participate, behavior problems (within or outside of treatment), change in custody level, or because program or work assignments interfere with available treatment options; and (4) correctional officers are the gatekeepers who determine whether incarcerated individuals are escorted to treatment or screening for treatment—if the officers do not believe the residents have a BHD or need treatment, they sometimes interfere with treatment access (Daquin & Daigle, 2018; Dvoskin & Spiers, 2004; Kaba et al., 2015; Kubiak et al., 2020; Reingle Gonzalez & Connell, 2014).

After release from incarceration, some incarcerated individuals are mandated to receive community-based BHD treatment (e.g., they release to probation or other forms of community supervision). However, in general, the US criminal legal system relies on individuals to recognize their own BHD symptoms, identify suitable community-based treatment options, and pursue treatment on their own (Belenko et al., 2013; Kubiak et al., 2020; Meyer et al., 2014; Owens et al., 2018). Although the absence of accessible community-based BHD treatment providers in many areas is well documented, it remains unclear whether individuals leaving incarceration are able to recognize any symptoms they might be experiencing as symptoms of a BHD, thus complicating their ability to seek appropriate treatment in the community.

What is behavioral health literacy?

We define behavioral health literacy as an individual's capacity to obtain, process, and understand basic behavioral health information and to become aware of supports, symptom management, services, and treatments that are options for helping to redress potential negative impacts of BHDs. The purpose of the behavioral health literacy construct is to guide the development of interventions designed to help individuals understand BHD, recognize their own symptoms of BHDs, use self-management techniques, and seek out potential avenues to decrease their symptoms and optimize their well-being. This definition is compatible with the literature on health literacy and mental health literacy. Below, we examine the state of the literature and identify the critical gaps to which the proposed definition of behavioral health literacy responds.

Health literacy

Health literacy affects an individual's capacity to obtain, process, and understand basic health information and what services are needed to make appropriate health decisions (Parker, 2000; The Institute of Medicine, 2004). The health literacy construct was developed in the 1970s and was initially understood as a function of literacy. Health literacy was developed to gauge an individual's ability to recognize physical health conditions, seek out and comprehend information about those conditions, and understand and adhere to medical professionals' treatment recommendations (Parker, 2000). Since that time, at least 17 different definitions of health literacy have been proposed of which three were identified in a systematic review as the most frequently cited (Sørensen et al., 2012). These include definitions provided by the American Medical Association, the World Health Organization, and the Institute of Medicine. The American Medical Association characterizes health literacy as the “constellation of skills, including the ability to perform basic reading and numeral tasks required to function in the healthcare environment” (1999, p. 552). In 1998, the World Health Organization defines it as the “cognitive and social skills which determine the motivation and ability of individuals to gain access to, understand, and use information in ways which promote and maintain good health” (Nutbeam, 1998, p. 357). And the Institute of Medicine describes health literacy as an “individuals' capacity to obtain, process and understand basic health information and services needed to make appropriate health decisions” (2004, p. 2).

Since its development, the health literacy construct has been expanded to include individuals within the

context of the health systems with which they interact (Kickbusch et al., 2013; Sørensen et al., 2012; The Institute of Medicine, 2004). Health literacy is now understood as a mechanism for not only improving individual health outcomes, but also for decreasing population-level health inequities, developing health policy, and improving health systems to maximize accessibility. The World Health Organization further identifies health literacy as possibly the most potent predictor of many social determinants of health, noting how health literacy is “a stronger predictor of an individuals’ health status than income, employment status, education and racial or ethnic group” (American Medical Association, 1999, p. 7). By including systems-level factors, health literacy is now an asset that can be developed and enhanced through education, rather than a simple risk factor for poor health outcomes based on an individual’s failure to adhere to treatment recommendations (Kutcher et al., 2016).

Low health literacy is a significant problem in the United States, affecting nearly half of adults in the general population for a range of chronic physical health disorders (American Hospital Association, 2007). Low health literacy is linked to poorer management of chronic disease symptoms, lower preventive care access, and higher rates of hospitalizations (Berkman, Sheridan, Donahue, Halpern, & Crotty, 2011; DeWalt et al., 2004; Sørensen et al., 2012). Health literacy among the US incarcerated populations is exceptionally low, with low health literacy estimated at 60% for those incarcerated (Hadden et al., 2018).

Systematic reviews find that health literacy interventions are promising and lead to positive outcomes such as increased preventive care access, medication adherence, and lower rates of emergency department use for a variety of at-risk or marginalized populations in the United States (Berkman, Sheridan, Donahue, Halpern, Viera, et al., 2011; Sheridan et al., 2011). Research on improved outcomes related to health literacy interventions underscores the potential positive impact that behavioral health literacy interventions could have for people with BHDs (Berkman, Sheridan, Donahue, Halpern, Viera, et al., 2011). Health literacy is also suggested as a mediator to explain existing racial health disparities in many common physical health outcomes, underscoring the need to increase health literacy among those at highest risk (DeWalt et al., 2004).

Mental health literacy

Mental health literacy (Jorm et al., 1997) is mostly focused on helping those without BHDs to recognize the signs and symptoms of mental health disorders in other

people as a means to guide others to community supports or treatment (Kutcher et al., 2016). When mental health literacy interventions are implemented, there are improvements in symptom recognition among individuals and increased help-seeking in the community by their loved ones, coworkers, and peers with BHDs (Jorm, 2012). Jorm et al. (1997, p. 182) coined the term mental health literacy and defined the construct as the public’s “knowledge and beliefs about mental disorders which aid their recognition, management or prevention” in other individuals. Furthermore, Jorm et al. (1997, p. 182) suggested that mental health literacy “includes the ability to recognize specific disorders; knowing how to seek mental health information; knowledge of risk factors and causes, of self-treatments, and of professional help available; and attitudes that promote recognition and appropriate help-seeking.”

Like health literacy, the definition of mental health literacy has been refined somewhat since it was initially proposed. Jorm (2012) expanded the foundational definition to include knowledge about specific mental health conditions to aid prevention, early recognition, self-help strategies for mild-to-moderate symptoms, and how to provide help to aid others, especially those approaching a crisis state. Other dimensions of the mental health literacy construct include a consideration of those skills, capacity, and cognitions which might promote positive mental health for individuals in the community and enacting health policies designed to promote population-level well-being (Kutcher et al., 2016). Scholars have also proposed to include stigma as an additional dimension to the mental health literacy construct as stigma drives prejudiced attitudes and discriminatory behavior toward those experiencing acute or chronic symptoms (Link & Phelan, 2001; Thornicroft, 2012). Both provider stigma (K. Wang et al., 2018) and internalized stigma (Drapalski et al., 2013) have been explored as potential mechanisms driving low rates of treatment utilization among individuals with mental health disorders.

Why behavioral health literacy is needed

The World Health Organization examined data from 28 developed and developing countries and found that only a minority of individuals received treatment within the first year of BHD symptom onset (P. S. Wang et al., 2007). Ample evidence underscores the significant role that BHDs play in an individual’s trajectory toward incarceration and re-incarceration after release. Limited screening, assessment, and treatment of BHDs in incarceration settings are likely only one contributor to the intersection of BHDs and incarceration. It is possible that

even when individuals are screened, assessed, and referred to treatment for BHDs—in incarceration settings or in communities—they may lack a fundamental understanding of how BHD symptoms impact their lives, their decisions, how to manage their BHD symptoms, and how to communicate to others that they have a BHD. And, at present, health and mental health literacy interventions are limited by their relative silence on substance use disorders—a key component of BHDs.

Like the health literacy and mental health literacy constructs, the overarching goal of behavioral health literacy is to shorten the time to help-seeking behaviors and to assist individuals to learn to self-manage their symptoms most effectively. However, behavioral health literacy differs from and expands these constructs in several important ways. First, unlike health literacy, behavioral health literacy is focused specifically on mental health and substance use disorders—which may be certainly intertwined with physical health issues but may exist in the absence of physical illness. Therefore, an individual might simultaneously have adequate health literacy and poor behavioral health literacy.

Second, mental health literacy is largely focused on developing knowledge for individuals without mental health disorders to recognize disorders in other people (vs. self-recognition). Behavioral health literacy, on the other hand, focuses on helping the individual experiencing the BHD to recognize, understand, and act to address their own BHD symptoms. This is critical for incarcerated populations as they are isolated from their loved ones, other social supports, and formal systems of care during their incarceration and this isolation often does not end when individuals leave incarceration and return home. Isolation continues after release due to the disruptive nature of incarceration, stigma which may lead to fissures in social ties, closed doors to treatment options due to criminal convictions or other criminal legal history factors, and the numerous court and corrections systems obligations they may have to fulfill, leaving them with little time and energy to seek out BHD information or treatment options. Formerly incarcerated individuals must be able to understand and manage symptoms of BHDs and communicate to others what they are experiencing to navigate their complicated life circumstances as best as possible. It is not enough for individuals around them to understand BHDs if the individuals themselves are not deeply knowledgeable about a condition that could make or break their success after an incarceration experience.

And finally, neither health literacy nor mental health literacy adequately or comprehensively address the signs and symptoms of substance use disorders. The behavioral health literacy construct encompasses both mental health

and substance use disorders, as they are likely to co-occur. As substance use and the symptoms of substance use disorders drive individuals' contact with the criminal legal system and fuel the churn of incarceration, release, and re-incarceration, it is imperative to broaden incarcerated and formerly incarcerated individuals' knowledge in this area. Therefore, behavioral health literacy facilitates the integration of combined mental health and substance use disorders symptoms and treatment, and helps people understand how difficult it is to disentangle the two especially when individuals are housed within correctional facilities and/or releasing from incarceration and trying to navigate the impact of symptoms on their lives.

Behavioral health literacy is needed as it may be a key mechanism to reduce suicide, overdose fatality, and future criminal legal involvement for individuals with BHDs. As health literacy interventions conducted with incarcerated individuals have shown positive impacts on chronic disease management (Donelle & Hall, 2014; Hadden et al., 2018; Ramaswamy & Kelly, 2015), increasing an individual's behavioral health literacy may improve symptom management and reduce racial health disparities in BHD treatment. Intervening with this population is critical as incarcerated individuals are disproportionately low income, undereducated, drawn from highly marginalized and disadvantaged communities, and report high rates of trauma (Morrison et al., 2018; Travis et al., 2014). Behavioral health literacy may improve coping with both life stressors and the stress of the incarceration experience, as incarceration often exacerbates BHD symptoms (Massoglia & Pridemore, 2015). Although BHD symptoms play a critical role in the future health and success of currently and formerly incarcerated individuals, few individuals or their loved ones can identify BHD symptoms and initiate the process for connecting to community-based behavioral health treatment services (Kubiak et al., 2020; Owens et al., 2018; Reingle Gonzalez & Connell, 2014). Addressing this syndemic requires the design, implementation, and testing of responsive interventions to increase behavioral health literacy among individuals in jail-based settings and their loved ones at home to increase service utilization and facilitate recovery among individuals with BHDs. Furthermore, individuals who are already in treatment for BHDs may benefit from increased behavioral health literacy as well. Improving behavioral health literacy has the potential to assist individuals in their self-management of symptoms and enhance their ability to identify and access relevant supports in the community. This shift may facilitate a movement from reactive BHD intervention during a crisis to a prevention-oriented frame.

DISCUSSION

For nearly three decades, researchers have explored the needs of individuals in the United States transitioning from correctional settings back to their communities (i.e., the reentry period; Karberg & James, 2005). A major knowledge gap exists in that we do not understand whether incarcerated individuals understand the role of BHDs in their lives, what BHD symptoms professionals are attempting to treat among this population, and how individuals access available resources (e.g., social support, services, treatment, or medications). Although research demonstrates high prevalence of BHD symptoms among currently and formerly incarcerated individuals, many criminal legal system-involved individuals with BHDs struggle to understand and manage their symptoms and may use language to describe BHD symptoms that differs from that used by the treatment and scientific communities. Therefore, we propose behavioral health literacy as a broad construct to help individuals to understand and manage their mental health and substance use disorder symptoms and access the support they need to achieve recovery.

The behavioral health literacy construct was designed to guide assessment and intervention development as a potential mechanism for increasing an individual's capacity to recognize their own symptoms of BHDs and seek out needed supports in and out of correctional facility settings. Behavioral health literacy intervention and measurement development can advance knowledge on factors that contribute to limited BHD treatment access and excessive symptom burden among currently and formerly incarcerated individuals and results from behavioral health literacy research may help practitioners and researchers foster engagement in behavioral health treatment both during incarceration and after release. It is vital that we understand how incarcerated and formerly incarcerated individuals understand BHDs and create targeted behavioral health literacy interventions to foster connection to BHD treatment and symptom management and disrupt the cycling of individuals in and out of incarceration through effective behavioral health practice and policy innovations.

Because incarceration is hypothesized as a causal factor in widening behavioral health inequity (Wildeman & Wang, 2017), failing to intervene during incarceration is a missed opportunity to prevent the worsening of BHD symptoms, reduce behavioral health disparities, and increase connection to treatment after an individual's release from incarceration and provide self-management skills to enhance coping when no treatment is available inside or outside of the walls. The behavioral health literacy construct acknowledges that individuals cycling in

and out of incarceration bear the burden of untreated and unmanaged BHD symptoms and generates pathways for individuals with BHDs to identify new supports and potentially reduce disease burden. Identifying new supports for incarcerated adults with BHDs is urgently needed and may reduce disease burden and allow individuals to thrive in the community after release. Although the prevalence and impact of BHDs for this population are well documented, the causal mechanism for low rates of community-based help-seeking are less clear. Low rates of behavioral health literacy may represent a key causal mechanism driving poor outcomes for individuals with BHDs.

To advance knowledge on behavioral health literacy and to develop behavioral health literacy interventions maximized for scaled, sustainable implementation within the correctional service delivery system, we suggest employing Onken et al. (2014) NIH Stage Model. This Model bridges the science-practice gap by proposing the refinement of interventions and efficacy-testing within naturalistic settings and identifying key mechanisms of change as the foundation for improving scale and implementability. In Stage 0—Basic Research, a descriptive study of incarcerated individuals' current knowledge of BHDs—their origin, symptoms, consequences, strategies for management, and options for support—is warranted. Results from descriptive studies can be used to guide the development of behavioral health literacy measurement tools and a wide range of currently and formerly incarcerated individuals' levels of behavioral health literacy can be assessed. In Stage 1—Intervention Generation/Refinement—tailored behavioral health literacy interventions can be developed in concert with current and formerly incarcerated individuals, their loved ones in the community, and both correctional and community-based BHD treatment providers. Developing behavioral health literacy intervention manuals designed to guide implementation will be key to ensuring broad dissemination of this innovation. Then, pilot feasibility and acceptability studies can be conducted to further refine the intervention, manuals, and implementation procedures. In Stage 2—Efficacy (Research Clinics), the intervention can be tested under relatively controlled circumstances, and further refinements can be made to maximize fidelity and implementability. In Stage 3—Efficacy (Community Clinics), the intervention is tested in a naturalistic setting and delivered by staff likely to deliver the intervention in the field. The goal of this stage is to enhance the sustainable implementation of the intervention once the research trial has concluded.

In Stage IV—Effectiveness, the impact of the intervention on targeted outcomes, including BHD symptom burden, rates of help-seeking, and subsequent contact

with the criminal legal system can be examined. Care should be taken to identify the key mechanisms of change and refine the intervention and implementation processes to fit within the service delivery landscape and amplify positive and lasting effects for intervention participants. In addition, subpopulation analyses can be conducted to determine whether behavioral health literacy interventions needed to be tailored by race, gender, age, socioeconomic status, or region of the country. In Stage 5—Implementation and Dissemination, the behavioral health literacy intervention is ready for scaled implementation within correctional facility settings and program components (e.g., measurement tools, intervention manuals, implementation procedures, and fidelity measures) are disseminated to both academic and nonacademic audiences. This staged approach to intervention development is unique in that it transcends common research-practice barriers by focusing on sustained implementability and ensuring that the final, refined intervention is likely to be feasibly and sustainably implemented within prison and jail settings.

The desired outcomes of increased behavioral health literacy among currently and formerly incarcerated individuals include increased knowledge, choice, empowerment, and recovery from BHDs as individuals can identify and access supports when available, increase their coping skills, and improve their relationships. Behavioral health literacy has the potential to decrease a range of problematic behavior associated with BHD symptoms including criminal behavior, facilitating an individual's ability to survive incarceration and thrive in the community after release. Future research applications may be especially potent for US prosecutors, public defenders, and specialty courts (e.g., mental health courts and drug courts) and amplify an individual's connection to treatment, recovery, and desistance from crime. Behavioral health literacy interventions can focus on increasing behavioral health literacy among currently and formerly incarcerated individuals as well as provide guideposts to guide clinical interactions and policy development in correctional facilities and among professional criminal legal stakeholders.

Finally, the behavioral health literacy construct may be a potent factor to increasing corrections professionals' awareness and understanding of BHD symptoms and behaviors, catalyzing a culture shift within incarceration settings to improve outcomes among both currently incarcerated individuals and the staff members themselves. As corrections professionals in the United States are the gatekeepers who determine whether incarcerated individuals are screened for treatment or escorted to treatment after screening, it is critical to expand their behavioral health literacy to

reduce treatment interference within the correctional facility setting. Increasing professionals' knowledge about BHDs and promoting positive attitudes and behaviors toward individuals with BHDs may facilitate approaches supportive of healing and recovery during incarceration and, in turn, enhance postincarceration community stability for formerly incarcerated individuals.

IMPLICATIONS FOR BEHAVIORAL HEALTH

Individuals releasing from incarceration and not succeeding in communities is an unprecedented public health crisis in the United States. When individuals leaving incarceration do not stabilize in the community after release they are likely to experience relapse from a substance use disorder, worsening mental health disorder symptoms, homelessness, or death. Behavioral health literacy is a potential mechanism for amplifying success, allowing individuals leaving incarceration to achieve psychological, social, and economic stability in the community.

Behavioral health literacy is an innovative construct designed to guide the development, implementation, and testing of interventions to increase knowledge about BHDs and their symptoms, facilitate speedy treatment linkage during custody and in the community after release, and ultimately improve both behavioral health outcomes and reduce criminal legal system involvement. Increasing behavioral health literacy among currently and formerly incarcerated individuals has the potential to disrupt the cycle of incarceration, release, and reincarceration, enhancing both public health and public safety. Although we propose beginning an exploration of behavioral health literacy within incarceration settings, this construct has a range of potential applications for criminal legal system-involved individuals in a variety of contexts. Ideally, increasing behavioral health literacy among at-risk individuals with BHDs may reduce the size of the correctional population and pave the way for the development of prevention and intervention strategies to help individuals with BHDs recognize and understand their symptoms, access appropriate treatment options, and thrive in the community.

CONFLICT OF INTEREST STATEMENT

The authors declare no conflicts of interest.

DATA AVAILABILITY STATEMENT

Data sharing not applicable to this article as no datasets were generated or analyzed during the current study.

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REFERENCES

- American Hospital Association. (2007). Health for life: Focus on wellness. <https://www.aha.org/2007-12-04-health-life-focus-wellness>
- American Medical Association. (1999). Health literacy: Report of the council on scientific affairs. *Journal of the American Medical Association*, 281(6), 552–557. <https://doi.org/10.1001/jama.281.6.552>
- Belenko, S., Hiller, M., & Hamilton, L. (2013). Treating substance use disorders in the criminal justice system. *Current Psychiatry Reports*, 15(11), 414. <https://doi.org/10.1007/s11920-013-0414-z>
- Berkman, N. D., Sheridan, S. L., Donahue, K. E., Halpern, D. J., & Crotty, K. (2011). Low health literacy and health outcomes: An updated systematic review. *Annals of Internal Medicine*, 155(2), 97–107. <https://doi.org/10.7326/0003-4819-155-2-201107190-00005>
- Berkman, N. D., Sheridan, S. L., Donahue, K. E., Halpern, D. J., Viera, A., Crotty, K., Holland, A., Brasure, M., Lohr, K. N., Harden, E., Tant, E., Wallace, I., & Viswanathan, M. (2011). *Health literacy interventions and outcomes: An updated systematic review (Evidence Report/Technology Assessment No. 11-E006)* (pp. 1–941). Agency for Healthcare Research and Quality. <https://www.ncbi.nlm.nih.gov/books/NBK82434/>
- Binswanger, I. A., Stern, M. F., Deyo, R. A., Heagerty, P. J., Cheadle, A., Elmore, J. G., & Koepsell, T. D. (2007). Release from prison—A high risk of death for former inmates. *New England Journal of Medicine*, 356(2), 157–165. <https://doi.org/10.1056/NEJMsa064115>
- Boch, S., Sezgin, E., Ruch, D., Kelleher, K., Chisolm, D., & Lin, S. (2021). Unjust: The health records of youth with personal/family justice involvement in a large pediatric health system. *Health and Justice*, 9(1), 20. <https://doi.org/10.1186/s40352-021-00147-5>
- Breslau, N. (2009). The epidemiology of trauma, PTSD, and other posttrauma disorders. *Trauma, Violence, & Abuse*, 10(3), 198–210. <https://doi.org/10.1177/1524838009334448>
- Bronson, J., & Berzofsky, M. (2017). *Indicators of mental health problems reported by prisoners and jail inmates, 2011–2012 (No. NCJ250612)*. Bureau of Justice Statistics. <https://www.ncjrs.gov/App/Publications/abstract.aspx?ID=272779>
- Bronson, J., Stroop, J., Zimmer, S., & Berzofsky, M. (2017). *Drug use, dependence, and abuse among state prisoners and jail inmates, 2007–2009 (NCJ 250546)*. Bureau of Justice Statistics.
- Carson, E. A. (2021). *Mortality in state and Federal Prisons, 2001–2019 (NCJ 300953)*. Bureau of Justice Statistics.
- Carson, E. A. (2022). *Prisoners in 2021 (NCJ 305125)*. Bureau of Justice Statistics.
- Center for Substance Abuse Treatment. (2006). *Substance abuse treatment: For adults in the criminal justice system (TIP 44)*. Substance Abuse and Mental Health Services Administration. <https://store.samhsa.gov/product/Substance-Abuse-Treatment-for-Adults-in-the-Criminal-Justice-System/QGCT44>
- Combs, E., Guston, K., Kopak, A., Raggio, A., & Hoffmann, N. G. (2019). Posttraumatic stress, panic disorder, violence, and recidivism among local jail detainees. *International Journal of Prisoner Health*, 15(4), 366–375. <https://doi.org/10.1108/IJPH-06-2018-0036>
- Daquin, J. C., & Daigle, L. E. (2018). Mental disorder and victimisation in prison: Examining the role of mental health treatment. *Criminal Behaviour and Mental Health*, 28(2), 141–151. <https://doi.org/10.1002/cbm.2056>
- Dearing, R. L., & Twaragowski, C. (2010). The social psychology of help seeking. In J. E. Madduz & J. P. Tangney (Eds.), *Social psychological foundations of clinical psychology* (pp. 319–415). The Guilford Press.
- DeWalt, D. A., Berkman, N. D., Sheridan, S., Lohr, K. N., & Pignone, M. P. (2004). Literacy and health outcomes. *Journal of General Internal Medicine*, 19(12), 1228–1239. <https://doi.org/10.1111/j.1525-1497.2004.40153.x>
- Donelle, L., & Hall, J. (2014). An exploration of women offenders' health literacy. *Social Work in Public Health*, 29(3), 240–251. <https://doi.org/10.1080/19371918.2013.776415>
- Drapalski, A. L., Lucksted, A., Perrin, P. B., Aakre, J. M., Brown, C. H., DeForge, B. R., & Boyd, J. E. (2013). A model of internalized stigma and its effects on people with mental illness. *Psychiatric Services*, 64(3), 264–269. <https://doi.org/10.1176/appi.ps.001322012>
- Dvoskin, J. A., & Spiers, E. M. (2004). On the role of correctional officers in prison mental health. *Psychiatric Quarterly*, 75(1), 41–59. <https://doi.org/10.1023/B:PSAQ.000007560.09475.a0>
- Friedmann, P. D., Taxman, F. S., & Henderson, C. E. (2007). Evidence-based treatment practices for drug-involved adults in the criminal justice system. *Journal of Substance Abuse Treatment*, 32(3), 267–277. <https://doi.org/10.1016/j.jsat.2006.12.020>
- Hadden, K. B., Puglisi, L., Prince, L., Aminawung, J. A., Shavit, S., Pflaum, D., Calderon, J., Wang, E. A., & Zaller, N. (2018). Health literacy among a formerly incarcerated population using data from the transitions clinic network. *Journal of Urban Health*, 95(4), 547–555. <https://doi.org/10.1007/s11524-018-0276-0>
- Hedegaard, H., Curtin, S. C., & Warner, M. (2021). *Suicide mortality in the United States, 1999–2019 (NCHS Data Brief no. 398)*. National Center for Health Statistics. <https://doi.org/10.15620/cdc:101761>
- James, D. J., & Glaze, L. E. (2006). *Mental health problems of prison and jail inmates (NCJ 213600)*. Bureau of Justice Statistics. <https://bjs.ojp.gov/content/pub/pdf/mhppji.pdf>
- Jorm, A. F. (2012). Mental health literacy: Empowering the community to take action for better mental health. *American Psychologist*, 67, 231–243. <https://doi.org/10.1037/a0025957>
- Jorm, A. F., Korten, A. E., Jacomb, P. A., Christensen, H., Rodgers, B., & Pollitt, P. (1997). “Mental health literacy”: A survey of the public's ability to recognise mental disorders and their beliefs about the effectiveness of treatment. *Medical Journal of Australia*, 166(4), 182–186. <https://doi.org/10.5694/j.1326-5377.1997.tb140071.x>
- Kaba, F., Solimo, A., Graves, J., Glowa-Kollisch, S., Vise, A., MacDonald, R., Waters, A., Rosner, Z., Dickey, N., Angell, S., & Venters, H. (2015). Disparities in mental health referral and diagnosis in the New York City jail mental health service. *American Journal of Public Health*, 105(9), 1911–1916. <https://doi.org/10.2105/AJPH.2015.302699>
- Karberg, J. C., & James, D. J. (2005). *Substance dependence, abuse, and treatment of jail inmates, 2002 (NCJ 209588)*. Bureau of Justice Statistics. <https://bjs.ojp.gov/content/pub/pdf/sdatji02.pdf>

- Kickbusch, I., Pelikan, J. M., Apfel, F., & Tsouros, A. D. (2013). *Health literacy: The solid facts*. World Health Organization. <https://apps.who.int/iris/handle/10665/326432>
- King, E. A., Tripodi, S. J., & Veeh, C. A. (2018). The relationship between severe mental disorders and recidivism in a sample of women released from prison. *Psychiatric Quarterly*, 89(3), 717–731. <https://doi.org/10.1007/s1126-018-9572-9>
- Kubiak, S. P. (2004). The effects of PTSD on treatment adherence, drug relapse, and criminal recidivism in a sample of incarcerated men and women. *Research on Social Work Practice*, 14(6), 424–433.
- Kubiak, S. P., Comartin, E. B., Hanna, J., & Swanson, L. (2020). Identification, referral, and services for individuals with serious mental illness across multiple jails. *Journal of Correctional Health Care*, 26(2), 168–182. <https://doi.org/10.1177/1078345820920703>
- Kutcher, S., Wei, Y., & Coniglio, C. (2016). Mental health literacy: Past, present, and future. *The Canadian Journal of Psychiatry*, 61(3), 154–158. <https://doi.org/10.1177/0706743715616609>
- Lee, H., & Wildeman, C. (2021). Assessing mass incarceration's effects on families. *Science*, 374(6565), 277–281. <https://doi.org/10.1126/science.abj7777>
- Link, B. G., & Phelan, J. C. (2001). Conceptualizing stigma. *Annual Review of Sociology*, 27(1), 363–385. <https://doi.org/10.1146/annurev.soc.27.1.363>
- Mallik-Kane, K., & Visser, C. A. (2008). *Health and prisoner reentry: How physical, mental, and substance abuse conditions shape the process of reintegration*. Urban Institute. https://www.fmhc.org/uploads/1/2/4/4/124447122/prisoner_re-entry_the_urban_institute_feb_08.pdf
- Maruschak, L. M., & Bronson, J. (2021). *Indicators of mental health problems reported by prisoners (NCJ 252643)* (p. 62). Bureau of Justice Statistics.
- Massoglia, M. (2008). Incarceration, health, and racial disparities in health. *Law & Society Review*, 42(2), 275–306. <https://doi.org/10.1111/j.1540-5893.2008.00342.x>
- Massoglia, M., & Pridemore, W. A. (2015). Incarceration and health. *Annual Review of Sociology*, 41, 291–310. <https://doi.org/10.1146/annurev-soc-073014-112326>
- Medrano, M. A., Hatch, J. P., Zule, W. A., & Desmond, D. P. (2002). Psychological distress in childhood trauma survivors who abuse drugs. *The American Journal of Drug and Alcohol Abuse*, 28(1), 1–13. <https://doi.org/10.1081/ADA-120001278>
- Meyer, C. L., Tangney, J. P., Stuewig, J., & Moore, K. E. (2014). Why do some jail inmates not engage in treatment and services? *International Journal of Offender Therapy and Comparative Criminology*, 58(8), 914–930. <https://doi.org/10.1177/0306624X13489828>
- Mir, J., Kastner, S., Priebe, S., Konrad, N., Ströhle, A., & Mundt, A. P. (2015). Treating substance abuse is not enough: Comorbidities in consecutively admitted female prisoners. *Addictive Behaviors*, 46, 25–30. <https://doi.org/10.1016/j.addbeh.2015.02.016>
- Mitchell, J., & Latchford, G. (2010). Prisoner perspectives on mental health problems and help-seeking. *The Journal of Forensic Psychiatry & Psychology*, 21(5), 773–788. <https://doi.org/10.1080/14789949.2010.488697>
- Morgan, R. D., Rozycki, A. T., & Wilson, S. (2004). Inmate perceptions of mental health services. *Professional Psychology: Research and Practice*, 35(4), 389–396. <https://doi.org/10.1037/0735-7028.35.4.389>
- Morrison, M., Pettus-Davis, C., Renn, T., Veeh, C., & Weatherly, C. (2018). What trauma looks like for incarcerated men: A study of men's lifetime trauma exposure in two state prisons. *Journal of Traumatic Stress Disorders and Treatment*, 7(3), 1–7. <https://doi.org/10.4172/2324-8947.1000192>
- Najavits, L. M., & Walsh, M. (2012). Dissociation, PTSD, and substance abuse: An empirical study. *Journal of Trauma & Dissociation*, 13(1), 115–126. <https://doi.org/10.1080/15299732.2011.608781>
- National Center on Addiction and Substance Abuse. (2010). *Behind bars II: Substance abuse and America's prison population*. Columbia University. <https://drugfree.org/reports/behind-bars-ii-substance-abuse-and-americas-prison-population/>
- Noonan, M., Rohloff, H., & Ginder, S. (2015). *Mortality in local jails and state prisons, 2000-2013 (NCJ 248756)*. Bureau of Justice Statistics. <https://www.ojp.gov/library/publications/mortality-local-jails-and-state-prisons-2000-2013-statistical-tables>
- Nutbeam, D. (1998). Health promotion glossary. *Health Promotion International*, 13(4), 349–364.
- Onken, L. S., Carroll, K. M., Shoham, V., Cuthbert, B. N., & Riddle, M. (2014). Reenvisioning clinical science: Unifying the discipline to improve the public health. *Clinical Psychological Science*, 2(1), 22–34. <https://doi.org/10.1177/2167702613497932>
- Otto, M. W., O'Leirigh, C. M., & Pollack, M. H. (2007). Attending to emotional cues for drug abuse: Bridging the gap between clinic and home behaviors. *Science & Practice Perspectives*, 3(2), 48–55. <https://doi.org/10.1151/spp073248>
- Owens, M. D., Chen, J. A., Simpson, T. L., Timko, C., & Williams, E. C. (2018). Barriers to addiction treatment among formerly incarcerated adults with substance use disorders. *Addiction Science & Clinical Practice*, 13(19), 19. <https://doi.org/10.1186/s13722-018-0120-6>
- Parker, R. (2000). Health literacy: A challenge for American patients and their health care providers. *Health Promotion International*, 15(4), 277–283. <https://doi.org/10.1093/heapro/15.4.277>
- Pettus, C., & Kennedy, S. (2019). *When death follows release: Early findings from a multi-state trial*. Institute for Justice Research and Development. https://ijrd.csw.fsu.edu/sites/g/files/upcbnu1766/files/media/images/publication_pdfs/When_Death_Follows_Release.pdf
- Ramaswamy, M., & Kelly, P. J. (2015). “The vagina is a very tricky little thing down there”: Cervical health literacy among incarcerated women. *Journal of Health Care for the Poor and Underserved*, 26(4), 1265–1285. <https://doi.org/10.1353/hpu.2015.0130>
- Reingle Gonzalez, J. M., & Connell, N. M. (2014). Mental health of prisoners: Identifying barriers to mental health treatment and medication continuity. *American Journal of Public Health*, 104(12), 2328–2333. <https://doi.org/10.2105/AJPH.2014.302043>
- Sadeh, N., & McNiel, D. E. (2015). Posttraumatic stress disorder increases risk of criminal recidivism among justice-involved persons with mental disorders. *Criminal Justice and Behavior*, 42(6), 573–586. <https://doi.org/10.1177/0093854814556880>
- Sheridan, S. L., Halpern, D. J., Viera, A. J., Berkman, N. D., Donahue, K. E., & Crotty, K. (2011). Interventions for individuals with low health literacy: A systematic review. *Journal of Health Communication*, 16(3), 30–54. <https://doi.org/10.1080/10810730.2011.604391>

- Smith, N., & Trimboli, L. (2010). *Comorbid substance and non-substance mental health disorders and re-offending among NSW prisoners (No. 140)* (pp. 1–16). NSW Bureau of Crime Statistics and Research.
- Sørensen, K., Van den Broucke, S., Fullam, J., Doyle, G., Pelikan, J., Slonska, Z., Brand, H., & (HLS-EU) Consortium Health Literacy Project European. (2012). Health literacy and public health: A systematic review and integration of definitions and models. *BioMed Central Public Health*, 12(1), 80. <https://doi.org/10.1186/1471-2458-12-80>
- Steadman, H. J., Osher, F. C., Robbins, P. C., Case, B., & Samuels, S. (2009). Prevalence of serious mental illness among jail inmates. *Psychiatric Services*, 60(6), 761–765. <https://doi.org/10.1176/ps.2009.60.6.761>
- Taxman, F. S., Perdoni, M. L., & Harrison, L. D. (2007). Drug treatment services for adult offenders: The state of the state. *Journal of Substance Abuse Treatment*, 32(3), 239–254. <https://doi.org/10.1016/j.josat.2006.12.019>
- The Institute of Medicine (Ed.). (2004). *Health literacy: A prescription to end confusion*. The National Academies Press.
- Thornicroft, G. (2012). No time to lose: Onset and treatment delay for mental disorders. *Epidemiology and Psychiatric Sciences*, 21(1), 59–61. <https://doi.org/10.1017/S2045796011000825>
- Travis, J., Western, B., & Redburn, S. (2014). *The growth of incarceration in the United States: Exploring causes and consequences*. The National Academies Press.
- Veeh, C. A., Tripodi, S. J., Pettus-Davis, C., & Scheyett, A. M. (2018). The interaction of serious mental disorder and race on time to reincarceration. *American Journal of Orthopsychiatry*, 88(2), 125–131. <https://doi.org/10.1037/ort0000183>
- Wang, K., Link, B. G., Corrigan, P. W., Davidson, L., & Flanagan, E. (2018). Perceived provider stigma as a predictor of mental health service users' internalized stigma and disempowerment. *Psychiatry Research*, 259, 526–531. <https://doi.org/10.1016/j.psychres.2017.11.036>
- Wang, P. S., Angermeyer, M., Borges, G., Bruffaerts, R., Tat Chiu, W., De Girolamo, G., Fayyad, J., Gureje, O., Haro, J. M., Huang, Y., Kessler, R. C., Kovess, V., Levinson, D., Nakane, Y., Oakley Browne, M. A., Ormel, J. H., Posada-Villa, J., Aguilar-Gaxiola, S., Alonso, J., ... Ustun, T. B. (2007). Delay and failure in treatment seeking after first onset of mental disorders in the World Health Organization's World Mental Health Survey Initiative. *World Psychiatry*, 6, 177–185.
- Wildeman, C., & Wang, E. A. (2017). Mass incarceration, public health, and widening inequality in the USA. *The Lancet*, 389(10077), 1464–1474. [https://doi.org/10.1016/S0140-6736\(17\)30259-3](https://doi.org/10.1016/S0140-6736(17)30259-3)
- Wilson, A. B., Draine, J., Hadley, T., Metraux, S., & Evans, A. (2011). Examining the impact of mental illness and substance use on recidivism in a county jail. *International Journal of Law and Psychiatry*, 34(4), 264–268. <https://doi.org/10.1016/j.ijlp.2011.07.004>
- Zeng, Z. (2022). *Jail inmates in 2021 (NCJ 304888)*. Bureau of Justice Statistics. <https://bjs.ojp.gov/library/publications/jail-inmates-2021-statistical-tables>
- Zhang, S. (2019). *In-prison substance misuse treatment principles and modalities*. UNAFEI 170th International Training Course, Tokyo, Japan. https://www.unafei.or.jp/publications/pdf/RS_No107/No107_40_VE_Zhang_1.pdf

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