Addressing Diversity in PTSD Treatment: Clinical Considerations and Guidance for the Treatment of PTSD in LGBTQ Populations

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Published online: 16 March 2020
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Keywords PTSD · Evidence-based treatment · Assessment · LGBT · Minority stress

Abstract

Purpose of review Trauma exposure is widespread but is especially common among lesbian, gay, bisexual, transgender, and queer (LGBTQ) individuals. LGBTQ individuals also experience higher rates of discrimination, victimization, and minority stress which can complicate posttraumatic stress disorder (PTSD) treatment but also represent independent intervention targets. In this review, we highlight existing evidence-based practices, current limitations, and provide recommendations for care in the absence of established guidelines for treatment PTSD among LGBTQ patients.
Recent findings Trauma-focused therapies (e.g., CPT, PE) and medications (e.g., SSRIs, SNRIs) have shown benefit for people with PTSD. However, evaluations of these interventions have failed to examine the role of LGBTQ identities in recovery from trauma, and existing PTSD treatments do not account for ongoing threat to safety or the pervasive minority stress experienced by LGBTQ patients. In addition, many LGBTQ patients report negative experiences with healthcare, necessitating increased education and cultural awareness on the part of clinicians to provide patient-centered care and, potentially, corrective mental health treatment experiences.

Summary Providers should routinely assess trauma exposure, PTSD, and minority stress among LGBTQ patients. We provide assessment and screening recommendations, outline current evidence-based treatments, and suggest strategies for integrating existing treatments to treat PTSD among LGBTQ patients.

Introduction

Estimates suggest that 70–90% of the general population will experience a criterion A traumatic event at some point in their lives [1], which is defined as “exposure to actual or threatened death, serious injury or sexual violence” [2]; p. 271]. Fortunately, most people who experience trauma do not develop post-traumatic stress disorder (PTSD), with the prevalence rate of PTSD in the general population between 6.8 and 8.3% [2, 3]. While no demographic group is immune to risk of trauma exposure, the nature, frequency, and severity of trauma exposure vary widely across groups. Epidemiological data suggests that individuals who identify as lesbian, gay, bisexual, transgender, or queer (LGBTQ) experience trauma, including violence and victimization, at higher rates than the general population [4–7]. Consequently, the estimated prevalence of PTSD tends to be higher among LGBTQ individuals, with rates ranging from 1.3 to 47.6% among LGB and 17.8 to 42% among transgender and gender diverse (TGD) individuals [8–14]. Thus, when treating LGBTQ patients, screening for trauma exposure and PTSD symptoms is essential (see Table 1).

Any effective assessment and/or intervention begin with high-quality patient-provider communication, which is the cornerstone of patient-centered care. With patient-centered care, the focus is on the specific needs and intentions of the patient and encouraging the exploration and expression of these goals during the visit while attending to patient concerns, feelings, and emotions [15]. For patients who identify as LGBTQ, this work can begin even before the patient and provider have met, through content and location of advertisements for services, waiting room signs inclusive of members of the LGBTQ community, and through use of inclusive paperwork (e.g., asking about preferred name, sexual orientation, and gender identity with all patients). Practical advice about how to approach creation of a welcoming environment is widely available [16, 17]. Beyond this, it is incumbent on providers to practice with the fundamental background knowledge and cultural insight to enable effective patient-provider communication. However, few professionals have training in the unique needs of LGBTQ patients [18], which is essential for asking informed questions, establishing collaborative treatment plans, and engaging in the shared decision-making that makes patient-centered care possible [19].

In this review, we share some recommendations for working with LGBTQ patients, with considerable focus on understanding the unique experiential and cultural factors, as well as disparities, relevant to the care and recovery of LGBTQ patients. We also highlight several evidence-based interventions for PTSD, discuss current limitations, and suggest assessment (Tables 1 and 2) and intervention adaptations for providers to consider as they work with trauma-exposed LGBTQ patients.
Table 1. Existing evidence-based self-report assessment tools for trauma, PTSD, and related symptoms

| Measure | No. of Items | Assessment content | Reference |
|---------|--------------|--------------------|-----------|
| Life Events Checklist for DSM-5 (LEC-5) | 16 | Screener of lifetime exposure to various Criterion A traumas | Weathers FW, Blake DD, Schnurr PP, Kaloupek DG, Marx BP, Keane TM. The Life Events Checklist for DSM–5 (LEC-5). Retrieved from [www.ptsd.va.gov](http://www.ptsd.va.gov). Published 2013. Accessed November 4, 2019. |
| PTSD Symptom Checklist for DSM-5 (PCL-5) | 20 | Self-report of PTSD symptoms severity in last 30 days; can be adapted for varying lengths of time (e.g., past week) | Weathers FW, Litz BT, Keane TM, Palmieri PA, Marx BP, Schnurr PP. The PTSD Checklist for DSM–5 (PCL-5). [http://www.ptsd.va.gov](http://www.ptsd.va.gov). Published 2013. Accessed November 4, 2019. |
| PTSD Primary Care Screen | 5 | Developed to screen for PTSD among veterans in primary care settings; can be use in other settings. | Prins A, Bovin MJ, Smolenski DJ, Marx BP, Kimerling R, Jenkins-Guarnieri MA, et al. The Primary Care PTSD Screen for DSM-5 (PC-PTSD-5): Development evaluation within a veteran primary care sample. J Gen Intern Med 2019;31(10):1206–11. Doi: [https://doi.org/10.1007/s11606-016-3703-5](https://doi.org/10.1007/s11606-016-3703-5). |
| PHQ-9 | 9 | Measure of depressed affect, anhedonia, and suicide risk. Note: Research has identified an increased risk for suicidality in LGBT population, special attention should be given to item 9. | Kroenke K, Spitzer RL. The PHQ-9: A new depression diagnostic and severity measure. Psychiatr Ann 2002;32(9):509–15. Doi: [https://doi.org/10.3928/0048-5713-20,020,901-06](https://doi.org/10.3928/0048-5713-20,020,901-06). |
| The Impact of Events Scale-Revised (IES-R) | 15 | Self-report scale examining degree of distress associated with a specific traumatic or stressful event. | Weiss D, Marmar C. The Impact of Event Scale—Revised. In: Wilson JP, Keane TM, editors. Assessing psychological trauma and PTSD. New York: Guilford Press; 1997. |
| Depression, Anxiety and Stress Scale (DASS-21) | 21 | Assessment of depression, anxiety, and stress. | Antony MM, Bieling PJ, Cox BJ, Enns MW, Swinson RP. (1998). Psychometric properties of the 42-item and 21-item versions of the depression anxiety stress scales in clinical groups and a community sample. Psychol Assess 1998;10(2):176–81. Doi: [https://doi.org/10.1037/1040-3590.10.2.176](https://doi.org/10.1037/1040-3590.10.2.176). |
| Center for Epidemiological Studies Depression Scale (CES-D) | 20 | Assessment of depressive symptoms in the past week. | Lewinsohn PM, Seeley JR, Roberts RE, Allen NB. Center for Epidemiologic Studies Depression Scale (CES-D) as a screening instrument for depression among community-residing older adults. Psychol |
| Measure                          | No. of Items | Assessment content                                                                 | Reference                                                                                                                                 |
|---------------------------------|--------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Generalized Anxiety Disorder Screener (GAD-7) | 7            | Brief clinical measure for assessing generalized anxiety disorder symptoms.          | Aging 1997;12(2):277–87. Doi: https://doi.org/10.1037//0882-7974.12.277.                                                             |
| Alcohol Use Disorders Identification Test (AUDIT) | 10           | Screening instrument for hazardous and harmful alcohol consumption                   | Saunders JB, Aasland OG, Babor TF, de la Fuente JR, Grant M. Development of the Alcohol Use Disorders Identification Test (AUDIT): WHO collaborative project on early detection of persons with harmful alcohol consumption-II. Addiction 1993;88:791–804. Doi: https://doi.org/10.1111/j.1360-0443.1993.tb02093.x. |
| Drug Use Disorders Identification Test (DUDIT) | 11           | Brief screen of frequency and negative consequences associated with drug use          | Berman AH, Bergman H, Palmstierna T, Schlyter F. Evaluation of the Drug Use Disorders Identification Test (DUDIT) in Criminal Justice and Detoxification Settings and in a Swedish Population Sample. European Addiction Res 2005;11(1):22–31. Doi: https://doi.org/10.1159/000081413. |
| Drug Abuse Screening Test        | 28; 10       | Brief assessment of drug use and negative consequences associated with use            | Skinner HA. The Drug Abuse Screening Test. Addict Behav 1982;7:363–71. Doi: https://doi.org/10.1016/0306-4603(82)90005-3.               |
| Suicidal Behaviors Questionnaire-Revised (SBQ-R) | 4            | Brief self-report measure of past suicidal behavior and suicide risk                 | Osman A, Bagge CL, Gutierrez PM, Konick LC, Kopper BA, Barrios FX. The Suicidal Behaviors Questionnaire—Revised (SBQ-R): Validation with clinical and nonclinical samples. Assessment 2001;8(4):443–54. Doi: https://doi.org/10.1177/107319110100800409. |
| Measure                                           | No. of Items | Assessment content                                                                                                                                                                                                 | Reference                                                                                                                                                                                                 |
|--------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| **Everyday Discrimination Scale**                | 9            | Screener of types and frequency of everyday discrimination (e.g., based on race/ethnicity, age, sexual orientation). Note: Can be adapted for daily use to assess daily discrimination and microaggressions [20] | Williams DR, Yu Y, Jackson JS, Anderson NB. Racial differences in physical and mental health: Socio-economic status, stress and discrimination. J Health Psychol 1997;2(3):335–51. Doi: https://doi.org/10.1177/135910539700200305. |
| **Major Experiences of Discrimination Scale**    | 9            | Assessment of discrimination, such as being fired, denied a job, denied housing, and other related experiences.                                                                                                       | Williams DR, Gonzalez HM, Williams S, Mohammed SA, Moomal H, Stein DJ. Perceived discrimination, race and health in South Africa. Soc Sci Med 2008;67(3):441–52. Doi: https://doi.org/10.1016/j.socscimed.2008.03.021. |
| **Chronic Work Discrimination and Harassment: Abbreviated** | 12           | Measure of the occurrence and frequency of interpersonal discrimination experienced at work.                                                                                                                                 | Lawrence B, Suh SA. Surveying Racial Discrimination: Analyses From a Multiethnic Labor Market. In: Bobo LD, Oliver ML, Johnson JH, Valenzuela A, editors. Prismatic Metropolis: Inequality in Los Angeles. New York: Russell Sage Foundation; 2000. |
| **Gender Minority Stress and Resilience Measure** | 58           | Assessment of 9 constructs related yet distinct stressors and resilience factors experienced by TGD individuals: gender-related discrimination (5 items), gender-related rejection (6 items), gender-related victimization (6 items), non-affirmation of gender identity (6 items), internalized transphobia (8 items), negative expectations for future events (9 items), concealment (5 items), community connectedness (5 items), and pride (8 items). Note: Assessors can administer the whole measure or choose from among subscales to assess specific constructs of interest. | Testa RJ, Habarth J, Peta J, Balsam K, Bockting W. Development of the Gender Minority Stress and Resilience Measure. Psychol Sex Orient Gend Divers 2015;2(1):65–77. Doi: https://doi.org/10.1037/sgd0000081. |
| **Perceptions of Local Stigma Questionnaire (Modified)** | 7            | Measure of individuals’ beliefs that individuals in their geographic region would willing accept, hire, or trust LGBT individuals.                                                                                   | Herek GH, Glunt EK. Identity and community among gay and bisexual men in the AIDS era: Preliminary findings from the Sacramento Men’s Health Study. In: Herek GM, Greene B, editors. AIDS, Identity, and |
| Measure                                      | No. of Items | Assessment content                                                                 | Reference                                                                                                     |
|----------------------------------------------|--------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Transgender Adaptation and Integration Measure | 15           | Assessment of stress, and distress associated with transgender gender identity.     | Sjoberg MD, Walch SE, Stanny CJ. Development and Initial Psychometric Evaluation of the Transgender Adaptation and Integration Measure (TG AIM). Int J Transgend 2006;9(2):35–45. Doi: https://doi.org/10.1300/J485v09n02_05. |
| Heterosexist Harassment, Rejection, and Discrimination Scale | 14           | Assessment of recent perceived heterosexist harassment, rejection, and discrimination. | Szymanski DM. Does Internalized Heterosexism Moderate the Link Between Heterosexist Events and Lesbians’ Psychological Distress? Sex Roles: J Res 2006;54(3–4):227–34. Doi: https://doi.org/10.1007/s11199-006-9340-4. |
| Daily Heterosexist Experiences Questionnaire | 50           | Comprehensive measure of various minority stressors: gender expression, vigilance, parenting, harassment and discrimination, vicarious trauma, family of origin, HIV/AIDS, victimization, isolation. Note: Assessors can administer the whole measure or choose from among subscales to assess specific constructs of interest. | Balsam KF, Beadnell B, Molina Y. The Daily Heterosexist Experiences Questionnaire: Measuring Minority Stress Among Lesbian, Gay, Bisexual, and Transgender Adults. Meas Eval Couns Dev 2013;46(1):3–25. Doi: https://doi.org/10.1177/0748175612449743. |
| Measure of Gay Related Stress               | 56           | Assessment of unique stressors associated with a gay identity.                     | Lewis RJ, Derlega VJ, Griffin JL, Krowinski AC. Stressors for gay men and lesbians: Life stress, gay-related stress, stigma consciousness, and depressive symptoms. J Soc Clin Psychol 2003;22(6):716–29. Doi: https://doi.org/10.1521/jscp.22.6.716.22932. |
| Internalized Homophobia Scale              | 9            | Measure of distress experienced by gay and bisexual men in relation to their sexual identities over the past year. | Herek GM, Gillis JR, Cogan JC. Internalized stigma among sexual minority adults: Insights from a psychological perspective. J Couns Psychol 2009;6(1):32–43. Doi: https://doi.org/10.1037/a0014672. |
| LGBT People of Color Microaggressions Scale | 18           | Assessment of microaggressions experienced by ethnic minority LGBT adults.         | Balsam KF, Molina Y, Beadnell B, Simoni J, Walters K. Measuring multiple minority stress: the LGBT People of Color Microaggressions Scale. Cultur Divers Ethnic Minor Psychol |
The intersection of minority stress and PTSD

In addition to higher rates of trauma exposure and PTSD, LGBTQ individuals may experience added stress as a function of the social attitudes, stigma, and prevailing policies that include lack of protections against discrimination at work, housing, and in public spaces [22]. These stressors can include systemic and institutional oppression, discrimination, and microaggression experiences that serve as persistent reminders of LGBTQ individuals’ minority status [20, 23]. These external and felt social stressors, or “distal stressors,” can condition LGBTQ individuals to anticipate rejection from others, experience shame, and to conceal their minority identity to prevent emotional pain, physical harm, or further trauma(s) [20, 24]. These learned adaptations, in turn, are associated with higher rates of mental and physical health complications generally [25] and can give rise to symptoms similar...
to each of the four main PTSD symptom clusters: intrusions, avoidance, negative alterations in cognition and mood, and hyperarousal. That is, intrusions share overlap with the occurrence of intrusive thoughts and rumination observed among LGBTQ individuals who experience minority stress [25], and avoidance is consistent with their elevated rates of identity concealment and social withdrawal [24]. Disruptions in cognition and mood overlap with symptoms of depression, anxiety [26], and negative thoughts of self and others observed as well [27•]. Hyperarousal, and hypervigilance in particular, has been observed following and in anticipation of discrimination [28]. Thus, the context of pervasive anti-LGBTQ sentiment can exacerbate and/or complicate recovery from trauma and can even mimic PTSD symptoms in the absence of a criterion A event.

A diagnosis of PTSD requires exposure to one or more criterion A trauma, as well as endorsement of (1) persistent intrusive re-experiencing of the event (1 or more symptoms), (2) avoidance of stimuli associated with the event (1 or more), (3) negative alterations in their cognitions and mood (2 or more), and (4) increased arousal or reactivity (2 or more; [6]). To be clear, we are not suggesting that minority stress leads to PTSD in the absence of criterion A trauma. However, clinicians should note that many LGBTQ individuals report exposure to criterion A trauma and that minority stress can also lead to related symptom sequela. Currently, these associations are poorly understood and warrant further research and clinical attention to better understand and more effectively intervene to address the intersecting consequences of traumatic stress and minority stress.

In the meantime, as clinicians approach PTSD treatment among LGBTQ individuals, we believe it is essential to understand the psycho-social history within their respective social, environmental, political contexts. Understanding the personal history of LGBTQ patients in context—often mired in stigma and discrimination—can aid in accurate case conceptualization, intervention planning, and treatment. As with any patient, a comprehensive, patient-centered, and culturally informed conceptualization will guide PTSD treatment planning among LGBTQ patients. It is salient to gather information not only about patients’ previous experiences and associated symptoms, but about the potential functions of LGBTQ individuals’ cognitive, affective, physiological, and behavioral responses to past trauma and minority stress experiences.

In a recent study of trauma-exposed LGBTQ veterans, researchers conducted semi-structured interviews and found that experiences shared by these individuals fell into four unique yet overlapping categories. Experience categories derived from these interviews included (1) “criterion A trauma,” (2) “discrimination,” (3) “microaggressions,” and (4) “minority stress” [29••]. Importantly, while each participant had experienced criterion A trauma, several described non-criterion A events as “traumatic” (e.g., the “trauma of the closet”). Qualitative analyses also revealed significant overlap across these categories, such as criterion A trauma perpetrated on the basis of one’s LGBTQ identity, which also fell under “discrimination,” as well as adaptations to high impact yet non-criterion A experiences worthy of clinical attention including paranoia, hypervigilance, drug use, sexual risk taking, and heightened anxiety and depression.

These LGBTQ veterans’ reports suggest that non-diagnostic characteristics (i.e., socio-cultural reactions to LGBTQ identity and expression, individual adaptations to hostile, invalidating, and/or traumatic reactions to LGBTQ identity and expression, the functions of these adaptations in the context of anti-LGBTQ environments) are important to assess. These reactions to environmental stressors can
influence diagnostic symptom presentations and also reactions to acceptable and efficacious PTSD treatment for LGBTQ individuals [30]. We therefore recommend approaching treatment in a manner that takes into account and respects LGBTQ individuals’ previous experiences, as well as past and present context. As such, the context of care delivery deserves some thought, with providers offering an environment that clearly signals support for the LGBTQ community. By directly confronting expectations of discrimination and addressing how minority stress and discrimination have impacted the patient’s life, it becomes easier to determine the degree to which adaptations observed in treatment represent intervention targets and which are adaptive strategies to cope with minority stress.

Practical recommendations for working with LGBTQ patients

Among trauma-exposed LGBTQ patients, quality patient-centered communication may be particularly crucial for optimal PTSD treatment outcomes [31] given that LGBTQ individuals are more likely than the general population to experience discrimination both in daily life and while seeking mental and physical healthcare [32]. LGBTQ individuals may experience a reasonable distrust of the mental health profession due not only to personal experiences of discrimination in the context of help-seeking, but also due to the profession’s longstanding history of labeling diversity in sexual orientation and gender identity as mental health disorders. This cultural and historical context is a critical barrier to LGBTQ individuals accessing mental health services and disclosing their sexual orientation and gender identity to providers. As such, effective treatment of trauma-exposed LGBTQ patients must acknowledge and counter these oppressive contexts [2, 3]. The creation of strong patient-provider relationships through patient-centered care practices is a first essential step towards this goal. Indeed, evidence suggests that high-quality clinician communication might buffer against disclosure apprehension in the context of previous discrimination in health care settings [33].

Moreover, clinicians who are not familiar with trauma-focused or minority stress-focused treatment can still work to empower patients to be active in managing their mental and physical health [34]. For example, clinicians working with trauma-exposed LGBTQ patients might expand their traditional conceptualization of their role within a particular specialty or subfield to function as advocates for their patients, facilitating referrals, collaborating and consulting with interdisciplinary treatment teams, and acting within one’s scope of competence to support patients’ treatment adherence.

This work requires open dialogue about patients’ LGBTQ identity and identity-related concerns. As such, clinicians are encouraged to ask patients about their sexual orientation, gender identity, and related concerns as part of the intake process, and on an ongoing basis throughout care [35]. If done effectively, such practices can impact patients’ self-efficacy and autonomy, which can lead to improved emotional well-being, more effective coping, and improved functioning [36, 37]. At the very least, patient-centered care that is affirming of LGBTQ identities can provide positive and potentially corrective treatment experience, which itself may encourage treatment adherence and promote recovery.
Evidence-based assessment

A thoughtful approach to assessment and careful and accurate case conceptualization can aid in the provision of evidence-based care in the absence of established PTSD treatment guidelines for LGBTQ individuals. For LGBTQ patients, this includes assessment of the complex and often overlapping experiences of past trauma(s), using established clinician-administered tools, such as the Clinician-Administered PTSD Scale for DSM-5 [38], or self-report measures like the PTSD Symptom Checklist-5 [39] (see Table 1 for suggestions). In addition, assessment of non-criterion A yet highly impactful experiences such as previous and ongoing discrimination, microaggressions, and minority stressors is essential to accurate case conceptualization and effective PTSD treatment. In addition, these non-criterion A stressors may themselves be targets of intervention, such as when patients are seeking additional coping skills. To aid in this endeavor, we provide recommendations for specific screening and assessment tools to facilitate treatment planning in Tables 1 and 2.

Current evidence-based treatments for PTSD

Cognitive behavioral “trauma-focused” therapies, such as prolonged exposure therapy (PE [40]) and cognitive processing therapy (CPT [41••]), have solid empirical support for use in the general population. These treatments are effective in addressing the psychological and physiological effects of trauma and represent front-line interventions in the treatment of PTSD according to American Psychological Association (APA) Clinical Practice Guidelines [42••] and the National Center for PTSD [43]. From a medication perspective, selective serotonin reuptake inhibitors (SSRIs) and serotonin-norepinephrine reuptake inhibitors (SNRIs) have demonstrated some benefit in treating PTSD, though only sertraline (e.g., Zoloft) and paroxetine (e.g., Paxil) are FDA approved for the treatment of PTSD [44]. Unfortunately, little is known regarding the efficacy of either trauma-focused therapies or medication treatments in the context of concomitant stressors impacting LGBTQ individuals’ mental health [29••].

To date, no empirical study has directly tested whether the efficacy of first-line PTSD treatments is moderated by sexual and/or gender minority identity, as no randomized controlled trials of PTSD treatment report the sexual or gender minority status of their sample, nor stratify results by sexual or gender minority status [45••, 46••]. Moreover, it is unknown if exposure to anti-LGBTQ criterion A traumatic events, and/or comorbid experiences of minority stress impact treatment efficacy. These methodological practices limit the ability to draw empirically grounded conclusions about whether LGBTQ individuals experience comparable benefit to their non-LGBTQ counterparts from front-line PTSD treatment. In the absence of empirical guidance or established clinical guidelines, we provide preliminary treatment recommendations based on anecdotal evidence with the goal of promoting a broader discourse about the mechanisms, techniques, and assumptions that underlie, and can best advance, the treatment of PTSD among LGBTQ patients. The primary focus of this discussion is on talk therapies rather than on medications, as the former has stronger
empirical support currently. The latter also offers interpersonal context in which the nuanced issues raised here can be systematically and therapeutically addressed. However, the importance of understanding the interplay between traumatic events, discrimination, minority stress, and microaggressions is essential for all treating providers, including those offering medication only.

To begin the review of current best-practice interventions for PTSD, it is important to note that gold-standard PTSD treatments, such as PE and CPT, were not developed for non-criterion A trauma, and that debate continues regarding the appropriateness or sufficiency of these treatments in addressing the range of clinically significant experiences faced by many LGBTQ individuals (e.g., discrimination [29••]). Specifically, PE and CPT were each derived from theoretical frameworks that assume that the lasting harms of trauma exposure are attributable to fear-based life-threat experiences and their impact on subsequent socio-cognitive and or emotional processing [47]. However, there is growing consensus that clinical distress among trauma-exposed LGBTQ individuals may stem from more than life-threat experiences. The pervasive invalidation of a patient's identity in our culture and in our health care systems, such as the pathologizing LGBTQ identities, can erode well-being due to the disruption of allostasis and ongoing allostatic load on the individual’s system [48].

For example, as previously mentioned, LGBTQ individuals may also experience criterion A events that are directly related to sexual or gender minority identity (e.g., hate crimes). These experiences may threaten identity and integrity resulting in grief and shame responses that may be considerably more complex and toxic than a purely fear-based response to a non-identity linked life-threat trauma (e.g., tornado). For instance, Fredriksen-Goldsen and colleagues found that identity processes impacted by experiences of victimization, such as identity appraisal and identity management, moderated the relationship between marginalization and health outcomes in a sample of older LGBTQ adults [49]. Thus, the experience of trauma related to LGBTQ identity may uniquely impact how LGBTQ individuals manage identity disclosure and concealment, which in turn may shape access to social resources, mental health outcomes, and health promoting behaviors relevant to PTSD onset and course [50]. Unfortunately, trauma-focused therapies for PTSD, which focus predominately on de-conditioning overgeneralized fear responses to environmental stimuli and remediation of cognitive distortions stemming from past trauma(s), were not developed to target such identity-related adaptations to trauma exposure.

Moreover, existing theories do not account for contexts in which chronic victimization experiences, elusive safety, or daily identity-based threats may influence or account for coping strategies (e.g., adaptive vigilance), negative appraisals, and emotions implicated in PTSD etiology [51, 52]. Counter to the typical approach of identifying overgeneralized beliefs, distorted thoughts, and exaggerated physiological responses to target in therapy, for many trauma-exposed LGBTQ individuals, these adaptations may not be exaggerated nor distorted and may serve important ongoing safety functions, such as avoiding realistic threat of future LGBTQ-based discrimination. It might be easy for a provider to mischaracterize such an accurate appraisal of realistic environmental threats as “hypervigilance” and overlook the fact legitimate threat persists and precaution may be necessary for their patient [29••, 50]. Consequently, we
would argue that to be clinically valid, any theory that operationalizes change agents in the treatment of PTSD among LGBTQ individuals must account for how the intervention targets these disparate phenomenologies. In addition, and in the absence of existing recommendations for organizing trauma-focused therapy for LGBTQ individuals, we recommend careful assessment and delivery of care in a manner that is affirming of patients’ LGBTQ identity and that leverages an individualized case conceptualization to address co-occurring trauma, minority stress, and related PTSD sequelae.

For example, the application of emotion processing theory [53, 54], the theoretical basis of PE, can be extended to reduce both fear and shame associated with anti-LGBTQ criterion A trauma. Specifically, PE can be used to counteract avoidance by activating and exploring the context of memory networks linked to shame, fear, and associated cognitions (e.g., “I was assaulted for being gay. Therefore, I will be judged and rejected if I am honest and open about who I am”). Exposure-based procedures can be used to reduce problematic emotions and beliefs that maintain avoidance and limit access to social support by providing access to events that prompt these problematic emotions while simultaneously blocking ineffective emotion-expression and action (e.g., hiding, concealment of gay identity). To facilitate new learning and effectively reduce distress, it is essential that exposures occur in contexts in which the feared or avoided outcome is unlikely to occur. The therapeutic relationship is an opportunity to offer a context where that new learning can occur in relative safety, if handled appropriately by the provider. Given a broader social context in which negative interactions are pervasive for LGBTQ individuals, clinicians must be creative and flexible about structuring exposure opportunities that promote competence and mastery outside of therapy as well. These exposures can be a part of formal PE therapy or an adjunct to medication treatments when indicated. To this end, clinicians are encouraged to develop a familiarity with LGBTQ resources, community organizations, and/or support groups in their local area. The use of imaginal-exposure in addition to in vivo exposure procedures may also be helpful and provide patients an opportunity to develop skills for tolerating difficult emotions and coping with feared outcomes in a safe and affirming environment.

Similarly, tactical modifications may be applied to the use of Socratic questioning in CPT to address appraisals about threats to safety, esteem, and social acceptance among LGBTQ individuals exposed to ongoing discrimination, microaggressions, and other minority stressors. A case description of application of CPT following an anti-gay physical assault demonstrates the use of CPT to address PTSD symptoms in addition to internalized homophobia [55]. CPT entails alleviating problematic trauma-linked emotions by modifying the distorted cognitions, or stuck points that manufacture or exacerbate difficult emotions. In cases in which patient’s evaluations of risk are indeed distorted, cognitive restructuring may be highly effective in alleviating suffering. However, in many cases, distressing appraisals of ongoing threats to safety, acceptance, and identity may well be reasonable and appropriate. In these cases, a shift from challenging patient’s accurate appraisals of risk toward supporting the patient to identify a more affirming context is warranted. In addition, bolstering the patient’s perceived ability to cope with and recover from the effects of social rejection or invalidation
may be effective. In some cases, teaching or enhancing coping skills may be a direct focus of treatment.

### Treatments to address LGBTQ-related stressors

Recent efforts to develop and evaluate treatments tailored to the concerns of LGBTQ patients have produced encouraging results. Effective Skills to Empower Effective Men (ESTEEM) is a transdiagnostic treatment developed to target minority stress and associated negative health consequences. ESTEEM is a 10-session treatment that enhances emotion regulation skills, reduces avoidance patterns, and improves motivation and self-efficacy for behavior change. In the initial waitlist-controlled pilot trial of ESTEEM treatment among 63 gay and bisexual men, results demonstrated improved depression, alcohol use, and sexual risk-taking outcomes for those undergoing the treatment [56]. Although this was a small-scale pilot study, ESTEEM is currently being investigated in a large multi-site trial (ClinicalTrials.gov Identifier: NCT02929069) that can potentially lead to further evidence of effectiveness and/or insight for future intervention development.

Examination of the modular content of the ESTEEM treatment provides insight into ways it might be adapted for use among trauma-exposed LGBTQ individuals. The essential components of the ESTEEM intervention include (1) normalizing the negative impacts of minority stress; (2) promoting emotional awareness and self-regulation; (3) empowerment and assertive communication skill development; (4) cognitive restructuring around minority stress; (5) identification and validation of individuals' strengths; (5) building healthy social supports; (6) supporting adaptive and rewarding sexual expression; and (7) decreasing avoidance of emotions, situations, or people (e.g., identity concealment, social isolation [56]). The Emotion Avoidance module of the ESTEEM intervention specifically targets emotion avoidance behavior leading to unhealthy behaviors such as social isolation and substance use. Other modules with direct relevance to recovery from trauma and PTSD include those examining the impacts and developing skills to manage minority stress, empowerment-based assertiveness training and social support seeking, cognitive restructuring of maladaptive thinking patterns, and “relapse prevention” to help sustain therapeutic gains.

In addition to the ESTEEM protocol, Parsons and colleagues recently reported pilot outcomes of their intervention [57•], adapted from the Unified Protocol for Transdiagnostic Treatment of Emotional Disorders [58] and focused on promoting emotion regulation. Results provided preliminary support for the efficacy of an emotion-focused intervention to reduce anxiety and depression among gay and bisexual men [57•].

As the field stands, most attempts to develop targeted interventions for this population have focused on gay and bisexual men, and specifically on sexual risk-taking and related symptoms of anxiety, depression, and substance use which are associated with HIV transmission. For example, a trial of 43 men who have sex with men (MSM) with risky sexual behaviors and childhood sexual abuse histories were offered cognitive-behavioral therapy for trauma and self-care (CBT-TSC). The CBT-TSC treatment included a
modified version of CPT treatment coupled with sexual risk reduction education and were compared to those receiving only HIV risk reduction and testing. Both PTSD symptoms and HIV risk-taking reduced over the course of CBT-TSC treatment relative to those in the control condition, with gains maintained through 9-month follow-up [21•]. However, it should be noted that the primary outcome of the CBT-TSC was risky sexual behavior and a PTSD diagnosis was not an inclusion criterion.

The development of ESTEEM and CBT-TSC and their promising outcome data provide encouraging directions for further treatment development, as well as implications for integration of its modular content with existing evidence-based PTSD treatments. That is, front-line evidence-based PTSD treatments, like PE and CPT, focus on cognitive restructuring, habituation to overgeneralized fear responses to trauma cues, and helping individuals reducing ineffective avoidance behaviors impacting recovery and quality of life. Acknowledging the important differences between intervention like ESTEEM or CBT-TSC and evidence-based PTSD treatments, we also see areas of important overlap and more importantly, opportunity for integration. In the absence of evidence-based PTSD treatments that are inclusive of minority stressors, and LGBTQ-based or minority stress-oriented treatments that extend to criterion A trauma and PTSD sequela, informal integration of these interventions might help bridge the gap while researcher work to develop and evaluate novel intervention strategies. In the future, we hope these innovations will also be inclusive of lesbian and bisexual women as well as transgender individuals.

Conclusions

Given the pervasive nature of stress, stigma, and discrimination against LGBTQ people, and the concomitant high rates of trauma exposure, it is critical for health care providers to ensure cultural awareness, sensitivity, and responsiveness to the experiences and healthcare needs of this patient population. In this paper, we provided an overview of the key issues with respect to trauma, PTSD, minority stress, and evidence-based treatment for LGBTQ patients with which any health care provider should be aware. We also offered suggestion for screening, assessment, and evidenced-based trauma and minority stress treatment to guide clinicians in the absence of established guidelines. In so doing, we hope to impress the point about the importance of ongoing research and development in this area, which is critical to providing culturally appropriate patient-centered PTSD treatment for LGBTQ patients.

Compliance with ethical standards

Conflict of interest
Nicholas A. Livingston, Danielle Berke, James Scholl, Mollie Ruben, and Jillian C. Shipherd declare no conflict of interest.
Human and animal rights and informed consent
This article does not contain any studies with human or animal subjects performed by any of the authors.

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