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Feasibility and acceptability of a virtual mindfulness intervention for Black adults with PTSD and depression: Randomized controlled trial

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Abstract

Mindfulness-based cognitive therapy (MBCT) offers promise as a group-based intervention to alleviate posttraumatic stress disorder (PTSD) and depression symptoms in traumatized Black adults. Given the high level of barriers that exist for low-income Black adults, virtual delivery of MBCT may be helpful. This pilot randomized controlled trial assessed feasibility and acceptability of an adapted 8-week virtual MBCT group intervention for Black adults screening positive for PTSD and depression. Forty-six participants (89.3% women) recruited from an urban safety net hospital were randomized to MBCT or waitlist control (WLC). Overall feasibility was fair (70%); however, completion rates were higher for WLC than MBCT (90% vs. 54%). Group acceptability was high across quantitative and qualitative measures for study completers. Perceived barriers to psychological treatment were high (>9). While showing potential via improved coping skills and positive health changes, this intervention's success hinges on mitigating engagement barriers for future delivery; additional studies are warranted.

Keywords

Trauma; Posttraumatic stress; Depression; Mindfulness; Virtual intervention

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Declaration of Competing Interest

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Appendix A. Supporting information

Supplementary data associated with this article can be found in the online version at doi:10.1016/j.xjmad.2024.100048.

1. Introduction

Urban-dwelling Black adults are exposed to disproportionate levels of trauma and racial and income-based marginalization [1–3]. Chronic trauma and stress exposure heightens risk of posttraumatic stress disorder (PTSD) and depression and their co-occurrence [4,5]. Thus, finding effective behavioral health treatments for Black adults with low socioeconomic resources who are disproportionately exposed to trauma is critical.

Mindfulness-based cognitive therapy (MBCT; 6) is efficacious in treating depression [7] and directly targets emotion dysregulation and autonomic dysfunction, transdiagnostic factors underlying PTSD and mood symptoms [8–10]. While mindfulness approaches have shown efficacy in treating PTSD [11] and success in low-resourced Black populations [12,13], investigation into feasibility and acceptability of MBCT for PTSD in this population is limited, with only one study led by our team testing the in-person delivery of MBCT for Black adults with PTSD and depression in an urban safety net primary-care setting [14]. Providing remotely delivered MBCT may help reduce barriers to care [15,16] and health disparities exacerbated during the COVID-19 pandemic [17,18]. To our knowledge, no studies have examined feasibility and acceptability of virtual MBCT in trauma-exposed Black adults with PTSD.

This pilot randomized clinical trial (RCT) examined feasibility and acceptability of an 8-week virtual MBCT group in trauma-exposed Black adults with PTSD and depression symptoms who utilize medical care at an urban safety net hospital. The original study protocol [14] was adapted for virtual delivery following the COVID-19 pandemic. Based on retention rates in the in-person trial [14], we predicted a rate of 65% to support adequate feasibility. Quantitative and qualitative approaches were used to assess intervention acceptability across group satisfaction, perceived benefits and barriers, and symptom change. We predicted high satisfaction levels and reduced symptoms.

2. Materials and methods

All procedures and the RCT (NCT03922581) were approved by the Emory Institutional Review Board and the Grady Research Oversight Committee.

2.1. Study participants

Forty-six Black adults (89.3% women) were randomized (Table 1). Inclusion criteria included positive PTSD and depression screens, chronic trauma exposure,¹ self-identification as Black or African American, and age 18–65.² Exclusion criteria included active mania, psychosis, cognitive impairment, or past-month alcohol or substance use disorder.

¹Presence of 3 or more traumas was used as an inclusion criterion to ensure the presence of multiple trauma exposures.

²Age cutoff of 65 was required for the screening study used to enroll participants so was included for this study also.

2.2. Procedure

The in-person RCT was halted in March 2020 due to the COVID-19 pandemic and was analyzed in a prior study [14]. Recruitment resumed in September 2020 with a fully virtual model of assessments and interventions. Participants were recruited from medical clinics via provider referrals or electronic medical record identification within an urban public hospital (Fig. 1). Screening assessments were conducted by phone or HIPAA-compliant Zoom. After completing a virtual baseline diagnostic assessment, participants were randomized to MBCT or waitlist control (WLC). Following completion, a post-assessment that mirrored pre-assessment was completed, and symptoms were re-assessed at 1-month. Participants were compensated for their time. See Supplemental Materials for details.

2.3. Measures

Lifetime trauma exposure was assessed with the *Traumatic Events Inventory (TEI)*; [19,20]). Current PTSD and depression symptoms were screened using the *Primary Care PTSD Screen for DSM-5 (PC-PTSD-5)*; [21, 22]; cutoff = 3) and the *Patient Health Questionnaire (PHQ-9)*; [23]; cutoff = 10). Symptom change was assessed at all time points using the *PTSD Checklist for DSM-5 (PCL-5)*, [24,25]) and the *Beck Depression Inventory, II (BDI-II)*, [26,27]).

Group satisfaction was measured using the *Client Satisfaction Questionnaire (CSQ-8)*; [28]). Barriers to treatment engagement was measured pre- and post-assessment using the *Perceived Barriers to Psychological Treatments (PBPT)*; [29]) across eight subscales: stigma, lack of motivation, emotional concerns, negative evaluations of therapy, misfit of therapy to needs, time constraints, participation restriction,³ and availability of services. In the original psychometric paper, the childcare responsibilities and cost of therapy items did not fit in any of the above subscales so were examined as individual items. A 12-item internal questionnaire assessed participants' feelings about the MBCT group and changes observed across multiple areas (Supplemental Table 1). Questions were asked verbatim and participant responses were recorded.

2.4. MBCT group intervention

Participants randomized to MBCT attended live, Zoom-based group sessions led by two trained clinicians. MBCT consisted of eight, weekly 90-minute sessions conducted with rolling admission. It was patterned after MBCT for depression [6] but adapted to be trauma-informed and culturally responsive (see Supplemental Materials). Group leaders started each session reminding participants about confidentiality, removal of distractions (e.g., quiet space, muting self when not speaking), and nonjudgmental approach. Manual adherence was assessed using an adapted *Group Leader Manual Adherence and Competence Rating Form* [30]; adherence was 99.2% based on a randomized review of 30/70 sessions by two independent raters.

³Participation restrictions include physical symptoms, difficulty walking or getting around, illness, or problems with transportation.

2.5. Data analysis

Enrollment, study completion, and participation rates were used to evaluate feasibility. Acceptability was assessed using quantitative and qualitative data at post-assessment. Supplemental Table 1 shows qualitative prompts, consensus codes, and direct quotes; details of coding methods are included in Supplemental Materials. Despite being underpowered, exploratory analyses of within-subjects change in PTSD and depression symptoms were examined using paired samples t-tests separately for the MBCT and WLC groups and descriptives of symptom scores at each time point are provided in Supplemental Table 2.

3. Results

3.1. Feasibility

Of 176 individuals screened, 120 were excluded (Fig. 1). Fifty-six participants were enrolled; 82% ($n = 46$) of those were randomized (26 virtual MBCT, 20 WLC). Study completion reflected attendance of 6 virtual sessions with no more than 2 weeks missed between sessions for MBCT or WLC through post-assessment. Thirty-two (70%) participants were study completers (54% for MBCT, 90% for WLC). Additionally, 24 (52%) completed 1-month follow-up (46% for MBCT, 60% for WLC). Fifty-four percent ($n = 14$) of participants randomized to MBCT completed group (6 sessions). Twenty participants (76.9%) randomized to MBCT attended at least one session. Of those who attended 1 session, 11 (55.0%) attended all sessions. Regarding participation timing, no participants enrolled in 2020 completed the study; completion rates were highest in 2021 (79.0%), followed by 2022 (68.0%) and 2023 (67.0%).

3.2. Acceptability

3.2.1. Satisfaction—Mean CSQ-8 score among MBCT completers ($n = 12$) was 28.50 ($SD=2.88$) on a scale of 8–32; 100% endorsed overall satisfaction with the group (see Supplemental Materials for results across items). All participants reported a positive experience with the group, but 46% indicated initial wariness about the group that transformed into fondness over time. When asked what they liked about MBCT, participants reported interacting with group members and leaders (61.5%), gaining strategies to practice mindfulness (46.1%), being able to express feelings (23.1%), and having their experience validated (7.7%). Regarding dislikes, most reported none (61.5%); however, 23.1% reported initial group-related discomfort, and 15.4% endorsed concerns surrounding time (i.e., schedule). Regarding format acceptability, 46.2% of participants preferred group format, 30.8% preferred individual format, and 23.1% noted benefits to both. Most participants liked the size of the group (53.8%); some noted preference for smaller (23.1%) or larger (15.4%) group.

3.2.2. Group benefits—When asked about participation gains, several patterns emerged from narrative analysis, including a new understanding of self (15.4%; $n = 2$), a new perspective of the trauma (15.4%; $n = 2$), and enhanced coping strategies (61.5%; $n = 8$); some reported gaining specific coping strategies, such as grounding and breathing exercises (62.5%; $n = 5$), while 37.5% ($n = 3$) mentioned gaining broad coping strategies. Most participants endorsed group-related changes in emotional (84.6%; $n = 11$); relational

(76.9%; $n = 10$); and physical health (61.5%; $n = 6$). Only one participant denied group-related changes. Participants spontaneously reported being better able to notice (23.1%; $n = 3$) and regulate (23.1%; $n = 3$) emotions, accepting and open to their experience (23.1%; $n = 3$), and present (7.7%; $n = 1$). See Supplemental Materials and Supplemental Table 1 for more details.

3.2.3. Treatment engagement barriers—Participants completed the PBPT at pre- and post-assessment ($n = 38$, $n = 31$ respectively). Participants indicated an average of 9.82 significant barriers to receiving psychological services at pre-assessment (Supplemental Table 3). The most frequently reported barrier subscale was *participation restrictions*, followed by *stigma* and *lack of motivation*. Supplemental Table 4 shows barriers separated by MBCT completers and non-completers.

Participants ($n = 12$) were also asked about barriers that interfered with MBCT group participation or practicing skills outside of group in the post-assessment questionnaire. Emotional barriers to engagement were most endorsed (46.1%), followed by practical barriers (30.8%). Notably, 38.5% of participants denied any barriers to participation or practice.

3.2.4. Symptom change—There was a significant within-subjects reduction in PTSD scores from pre-assessment to post-assessment among participants in both MBCT ($t[10]=2.06$, $p = .031$) and WLC ($t[15]=3.84$, $p < .001$). Additionally, there was a significant within-subjects reduction in depression symptoms from pre-assessment to post-assessment for MBCT ($t[10]= 2.96$, $p = .007$) but not WLC participants ($t[13]=1.73$, $p = .054$).

4. Discussion

This study examined feasibility and acceptability of an 8-week adapted MBCT intervention delivered virtually for trauma-exposed Black adults who screened positive for PTSD and depression. Feasibility of the overall study was fair, although retention among the MBCT group was below the expected 65% target. Over half of participants randomized to the MBCT group were completers, but dropout rate was high; almost a quarter of MBCT randomized participants never attended a single session, demonstrating the need to identify and address barriers to initial care engagement. Supporting high acceptability, all participants endorsed satisfaction with the intervention, which shows promise for future MBCT programming for medical patients in urban settings. However, significant challenges with retention in the MBCT group means acceptability was only evaluated in completers; thus, challenges to acceptability in non-completers is essential to keep in mind.

Qualitative results showed that most participants endorsed enhanced coping strategies (e.g., grounding, breathing), as well as improvements in emotional, relational, and physical health and emotion regulation and acceptance, elements seen as critical mechanisms of change in MBCT [8]. Despite not prompting trauma-specific discussions, some also noted a transformation in their perspective on their trauma. Group members endorsed liking group interaction, gaining specific strategies for mindfulness practice, and having space to express

feelings. Within-person reductions in PTSD and depression were found in group completers, but given similar results for the WLC, efficacy trials are needed.

Perceived barriers to psychological treatment were high, with the most common including participation restrictions (e.g., physical limitations) and personal barriers (e.g., stigma, lack of motivation). Qualitatively, almost half of participants indicated initial hesitance but grew to enjoy the group over time. This hesitancy may have been relevant for participants that never attended a single group, although data on this was not collected. Given the hesitancy of joining the group endorsed by many, stigma and perceived/objective accessibility must be addressed. Lay provider models of care delivery for Black individuals may help address mental health disparities and reduce stigma [31,32], and such models should be considered in the delivery of mindfulness-based interventions in future research. Importantly, while stigma is impactful [33], environmental and systemic factors (e.g., structural racism) that affect access to mental health care and have led to substantial treatment barriers [34,35] must be addressed to ensure treatment feasibility.

This study was conducted following the immediate aftermath of the COVID-19 shutdown. Our shift to a virtual delivery model allowed for accessibility, which is valuable given the increase in racial inequities from COVID-19 [17,18]. There are many positives to virtual delivery of group-based care [36,37], such as reduced time, transportation, and financial barriers. However, while virtual delivery allows the flexibility to engage in the intervention from wherever participants are, it creates challenges to privacy, consistency, and reduction of distractions (e.g., attending in parked car because only private space). Retention was lower in this sample than the pre-pandemic, in-person delivery of this RCT with this patient population [14]; although COVID-19 was a factor in lack of retention in 2020, given that rates of retention in this study was highest in 2021, COVID-19 alone was not the only factor. Flexibility in delivery method may help (e.g., hybrid models). Across this sample and prior study [14], similar patterns emerged regarding acceptability, satisfaction, and observed change, suggesting delivery method itself did not alter how the intervention was experienced.

Major strengths of this study include focus on a high-symptom sample and limited number of exclusions to promote real-world generalizability, inclusion of an understudied population, and mixed-method approach. There are also several limitations. Specificity of the sample to predominantly Black women limits generalizability. We did not capture data regarding adequacy of cultural adaptations or preference toward virtual or in-person delivery mode. At times, group sessions included only one participant; this could have impacted group experience. Clinician satisfaction, usefulness, and barriers to implementing intervention were not collected. Qualitative interview approaches should be considered for future studies.

Overall, adapted MBCT for trauma exposed Black adults is acceptable among those that complete it, but substantial barriers remain. Implementation research is necessary to enhance feasibility and acceptability of mindfulness-based interventions in this population. Promoting access to trauma informed behavioral health services, and virtual (or hybrid) group-based MBCT interventions may be a useful path forward.

Supplementary Material

Refer to Web version on PubMed Central for supplementary material.

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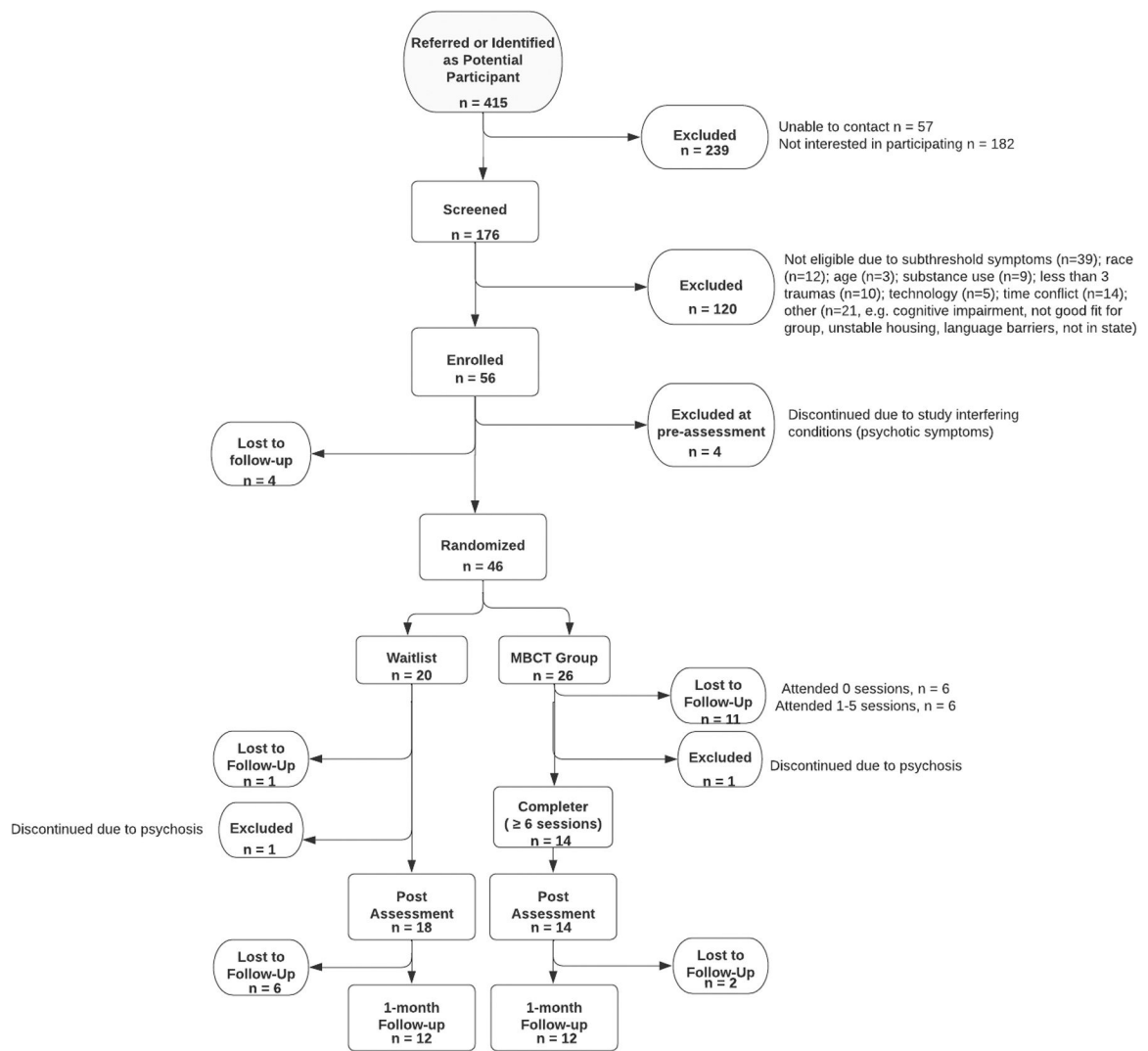


Fig. 1.
CONSORT flow chart.

Table 1

Sample baseline characteristics.

Variables	Overall Sample n (%)	WLC n (%)	MBCT n (%)
Gender	40 (87.0)	19 (95.0)	21 (80.8)
Female	6 (13.0)	1 (5.0)	5 (19.2)
Male			
Race	43 (93.5)	19 (95.0)	24 (92.3)
Black/African American			
American			
Mixed	3 (6.5)	1 (5.5)	2 (7.7)
Marital status	29 (63.0)	10 (50.0)	19 (73.1)
Single, never married	4 (8.7)	4 (20.0)	–
Married	7 (15.2)	3 (15.0)	4 (15.4)
Divorced or separated	3 (6.5)	2 (10.0)	1 (3.8)
Widowed	3 (6.5)	1 (5.0)	2 (7.7)
Domestic partner			
Employed	16 (34.8)	5 (25.0)	11 (42.3)
Supported by disability	21 (45.7)	9 (45.0)	12 (46.2)
Income	27 (73.0)	10 (66.7)	17 (77.3)
Less than \$2000 per month			
	Mean (SD), Range	Mean (SD), Range	Mean (SD), Range
Age	44.37 (13.80), 20–63	45.45 (14.09), 24–62	43.54 (13.78), 20–63
Number of types of trauma exposure	8.57 (3.02), 2–17	8.16 (2.76), 4–15	8.87 (3.23), 2–17
PC-PTSD-5 Score	4.44 (0.69) 3–5	4.58(0.69), 3–5	4.35 (0.69), 3–5
PHQ-9 Score	18.17(4.30) 10–27	18.80 (3.91), 10–25	17.69 (4.58), 10–25
	n (%)	n (%)	n (%)
Current PTSD	28 (68.3)	9 (45.0)	19 (73.1)
Current MDD	28 (66.7)	11 (55.0)	17 (65.4)
Prior reported treatment			
<i>Psychotherapy</i>	15 (32.6)	5 (25.0)	10 (38.5)
<i>Psychiatric Medication</i>	22 (57.9)	11 (55.0)	10 (88.5)

N = 46; percentages vary slightly if missing data exists in any demographic variables