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Augmenting the Efficacy of Benzodiazepine Taper with Telehealth-Delivered Cognitive Behavioral Therapy for Anxiety Disorders in Patients Using Prescription Opioids: A Pilot Randomized Controlled Trial

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Abstract

The risks of concomitant benzodiazepine (BZ) and opioid use are significant. Despite the urgent need to reduce BZ use among patients taking opioids, no treatment intervention research to our knowledge has addressed treatment for this concurrent, high-risk use. The current study will evaluate the efficacy of augmenting BZ taper procedures with CBT for anxiety disorders that has been adapted specifically for patients with concomitant BZ and opioid use (either use as prescribed or misuse), a high-risk patient population. Research combining rapidly scalable behavioral interventions ancillary to pharmacological approaches delivered via telehealth in primary care settings is innovative and important given concerning trends in rising prevalence of BZ/opioid co-prescription, BZ-associated overdose deaths, and known barriers to implementation of behavioral health interventions in primary care. CBT delivery using telehealth has the potential to aid adherence and promote access and dissemination of procedures in primary care. Lastly, the current study will utilize an experimental therapeutics approach to preliminarily explore the mechanism of action for the proposed interventions. The overall aim of the present pilot randomized controlled trial is to examine the feasibility and preliminary efficacy of a BZ taper with CBT for anxiety disorders adapted for patients with concomitant BZ (BZT+CBT) and opioid use to a BZ taper with a control health education program (BZT+HE) in a sample of individuals (N=54) who have been prescribed and are taking benzodiazepines and opioids for at

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¹UDS test kits will be mailed to participants. During the assessment, participants will (1) be given instructions for collecting the sample, (2) mute audio/turn off video and step away from the screen to use the UDS cup; (3) return with cup and turn on audio/video; (4) wait 5 min, after which the research assistant asks the participant to hold up the cup close to the camera in order to read the results. The research assistant (RA) checks for evidence of tampering by inspecting the adulteration section of the results. Once it is confirmed that there was no tampering or adulteration, the RA asks the participant to turn the cup to reveal the remaining results of the urine drug screen and RA records the results.

least 3 months prior to baseline and experience anxious distress. Screening and outcome measures, methods, and implications are described.

Keywords

benzodiazepines; opioids; anxiety disorders; taper; cognitive behavioral therapy

Background

The opioid crisis has intensified concerns about benzodiazepine (BZ) use because: (1) anxiety disorders are prevalent among individuals with opioid use disorder (OUD) (Compton et al., 2007; Grant et al., 2004) and many patients with OUD receive concomitant BZ prescriptions (Hawkins et al., 2019; Mooney et al., 2022); (2) BZ use while taking opioids greatly increases risk of serious complications including overdose (Cho et al., 2020; Nielsen et al., 2007; Nielsen et al., 2015; McCane-Katz et al., 2010; Yeh et al., 2011) with a dose-response relationship between BZ daily dose and risk of death (Garg et al., 2017; Park et al., 2015); (3) there is a high level of co-prescribing BZs for anxiety and opioids for pain, and this co-use is associated with fatal overdose and all-cause mortality (Calcaterra et al., 2013; Hawkins et al., 2019; Mooney et al., 2022); and (4) overdose deaths involving BZs have been on the rise, with a 10-fold increase between 1999–2017 (Overdose Death Rates, 2020). Taken together, individuals who co-use BZs and opioids, either as prescribed or misused are a population at high risk of significant negative medical consequences and for the onset of OUD (Cragg et al., 2019), which brings with it additional negative consequences, including overdose risk (Taylor & Samet, 2022). Therefore, addressing this prevalent and alarming concomitant use can have a significant impact.

Although BZ-associated harms are amplified in combination with opioids and that BZ use is known to amplify opioid-related harms (Lembke et al., 2018; Limandri et al., 2018), clinical guidelines addressing treatment of problematic BZ use, particularly in relation to opioid use, are generally lacking. Clinical tools to provide guidance on BZ taper exist (e.g., The Royal Australian College of General Practitioners, 2023) but are not widely distributed and are primarily based on clinical input/consensus, rather than research. Further, there has been minimal research to inform clinical practice, and general healthcare settings may lack time and resources to address this need. This pilot randomized controlled trial (RCT) addresses this critical need by providing initial efficacy data on a treatment strategy for reducing BZ use in adults taking this medication in combination with opioids.

Prior Research on Strategies to Reduce Benzodiazepine Use

Cognitive behavioral therapy (CBT) that includes exposure to feared stimuli is a first-line treatment for anxiety disorders (Deacon & Abramowitz, 2004; Stewart & Chambless, 2009), and as supported by a series of studies, this treatment has been adapted to focus on the task of helping outpatients, particularly those with panic disorder, discontinue their BZs (Bruce et al., 1999; Otto et al., 1993; Otto et al., 2010). Through exposure-based CBT, patients can learn: (1) more adaptive ways of managing and responding to anxiety than using BZs (Otto et al., 2002); (2) to become less fearful of physiological sensations associated with

BZ taper and withdrawal (Otto et al., 2002); and (3) to decrease catastrophic cognitions about physical sensations, including pain (Stewart & Asmundson, 2006). Exposure-based CBT has been shown to facilitate BZ tapering and enhance longer term outcomes in patients with panic disorder, where difficulties discontinuing BZs have been particularly challenging (Bruce et al., 1999; Otto et al., 1993; Otto et al., 2010).

Problems with Access to High Quality Interventions to Reduce Benzodiazepine Use

Interventions to reduce BZ use among patients with anxiety disorders who are prescribed opioids for pain (and thus are at risk of developing OUD or may have OUD) are urgently needed. Facilitating BZ taper with CBT for anxiety disorders may augment the efficacy of BZ tapering by helping patients learn strategies for responding adaptively to anxiety without the use of fast-acting medications to alleviate symptoms. Primary care represents a setting that treats a significant proportion of these at-risk patients. Notably, even patients without OUD prescribed both opioids and BZs are nearly four times as likely to die than those who receive only one of these prescriptions (Mooney et al., 2022).

Although efforts to embed mental health staff into primary care clinics have significantly increased over time (Roy-Byrne et al., 2010; Unützer et al., 2005), most primary care clinics are not equipped to provide high quality, evidence-based treatment for psychopathology, particularly behavioral interventions that typically include weekly sessions for 2–4 months (Dickinson, 2015; Kathol et al., 2010). Consequently, primary care physicians (PCPs) may struggle with following recommendations to taper BZs when they do not have the tools, appropriate staff, or scheduling flexibility to provide care for the underlying psychopathology that is being treated with BZs (Grazier et al., 2016). Telehealth offers a unique opportunity to utilize trained clinicians to deliver medication and behavioral health treatments, while partnering closely with PCPs to provide virtual "face-to-face" treatment to their patients, reducing the burden of travel and resource allocation in diverse clinical settings. Telehealth is an effective mode of treatment delivery for substance use and psychiatric disorders (Fortney et al., 2007; Frueh et al., 2007; Lin et al., 2019).

The Present Study

The current trial aims to shift clinical practice paradigms by establishing the feasibility, acceptability, and preliminary efficacy of an intervention that can be delivered by mental health professionals via telehealth, in collaboration with PCPs. This takes the burden of the treatment off the PCPs and creates a collaborative approach that reduces barriers to specialized mental health care for this understudied, undertreated, at-risk population. The intervention under investigation will include standardized BZ tapering facilitated by targeted CBT for anxiety and taper-related symptoms among patients with or at high risk of OUD who take BZs. The present study will utilize a two-arm RCT design examining the efficacy of a BZ taper + an 11-session CBT program (BZT+CBT) delivered via telehealth, compared to the BZ taper + a health education control (BZT+HE). This RCT is the first study to our knowledge to evaluate the efficacy of augmenting BZ taper procedures with CBT for anxiety disorders that has been adapted specifically for patients with concomitant BZ and opioid use.

Methods

Study Site

Participants will be recruited from large university-based primary care clinics. Clinical services will be provided remotely through telehealth visits by psychiatry and psychology study clinicians at the University of California, Los Angeles.

Study Design and Objectives

The overall aim of the pilot RCT is to examine the feasibility/acceptability and preliminary efficacy of a BZ taper with CBT for anxiety disorders adapted for patients with concomitant BZ (BZT+CBT) and opioid use to a BZ taper with a control health education program (BZT+HE). Although not powered to detect between-group differences on clinical outcomes, this study aims to evaluate a preliminary signal for an effect favoring BZT+CBT over BZT+ HE on our primary and secondary outcomes of interest (see below), and will lay the groundwork for a larger, more sufficiently powered efficacy trial. Figure 1 displays the RCT design. Study aims and hypotheses are:

- 1. Evaluate patient and clinic provider acceptability of the interventions. We hypothesize that participants in BZT+CBT will show greater adherence (i.e., number of sessions attended, treatment completion) and satisfaction ratings than those in BZT+HE. We expect participants and prescribing physicians to report high satisfaction with telehealth delivery of the CBT+BZT protocol.
- 2. Determine whether participants assigned to BZT+CBT show greater reductions in BZ use compared to those in BZT+HE. We hypothesize that reductions in daily BZ dose will be greater in the BZT+CBT group compared to BZT+HE, as measured by self-report during and after the intervention and at follow-up assessment, and prescribed dose at 2-month follow-up. We hypothesize that a greater proportion of individuals in BZT+CBT will fully taper off BZs compared to BZT+HE, as measured by self-report and urine drug screen (UDS).
- 3. Examine whether participants in BZT+CBT show greater reductions in anxiety symptoms compared to BZT+HE. We hypothesize that anxiety symptom reduction will be greater in the BZT+CBT group versus the BZT+HE group, as measured by the Depression and Anxiety Severity Scale (DASS) at the 2-month follow-up.
- 4. Explore whether treatment effects extend to opioid use (prescription and non-prescription). Due to the focus on anxiety sensitivity in the CBT protocol, which is implicated in both anxiety disorders and pain conditions, we hypothesize that the BZT+CBT group versus the BZT+HE group may show less opioid use as measured by self-report and UDS during the intervention and at follow-up, and prescribed opioid dose by the final 2-month follow-up.
- 5. In line with an experimental medicine approach (Nielsen et al., 2018; Sumner et al., 2018), we seek to explore mechanisms of treatment effects, examining whether there is a signal indicating that anxiety sensitivity (Hearon et al., 2011; McHugh et al., 2017) and pain catastrophizing (Edwards et al., 2011; Morasco

et al., 2013) mediate treatment outcomes. We hypothesize that anxiety sensitivity and pain catastrophizing (which we predict will decrease more in BZT+CBT compared to BZT+HE) will mediate treatment outcomes. The identification and validation of mechanistic targets can help hone treatments to more directly engage these mechanisms in order to improve efficacy.

Participants

The current study will recruit 54 patients (*n*=27 per condition) from university-based primary care clinics for an expected total of 40 completers. We anticipate that many patients will have pain-related distress and anxiety-related distress.

Participants are included who: (1) have been taking prescribed BZs for 3 months prior to baseline (as indicated in the medical record and corroborated by the patient) and have a positive UDS for BZs at baseline; (2) currently experience significant distress or impairment due to their anxiety symptoms (i.e., score 8 on the Overall Anxiety Severity and Impairment Scale (OASIS) during screening; Campbell-Sills et al., 2009); (3) have been prescribed opioids for 3 months for pain management (as indicated in the medical record and corroborated by the patient) and have a positive UDS for prescribed opioids at baseline; (4) are between 18–85 years old; (5) are fluent in English; (6) have access to a digital device with internet access for telehealth; and (7) are willing to reduce BZ use.

Exclusion criteria include: (1) pregnancy; (2) psychiatric symptoms requiring a higher level of care (i.e., severe suicidality, manic or psychotic symptoms not stabilized on medication); (3) presence of any substance use disorder other than OUD, sedative/hypnotic use disorder, or tobacco use disorder (evaluated by modules from a structured clinical diagnostic interview); (4) medical conditions that require ongoing treatment with BZs (e.g., certain seizure disorders); (5) use of drugs other than BZs and opioids in the past 30 days (as indicated by UDS and self-report via Timeline Followback), with the exception of intermittent cannabis use, i.e., more than 1x per week; (6) use of alcohol above at-risk drinking cutoffs per US Dietary Guidelines (Dietary Guidelines Advisory Committee, 2020); (7) marked cognitive impairment (i.e., MMSE <24; described below).

Study Assessments

See Table 1 for the assessment schedule. Clinician-administered assessments will be conducted via telehealth by assessors who are blind to condition through screening and baseline assessment. Assessors will be trained to 80% reliability in conducting the diagnostic interview (First et al., 2016) and will be supervised via audio recording by a psychologist. Reliability will be determined by having a fully trained assessor and the trainee assessor independently score three of the same diagnostic interviews. The trainee will need to match the diagnoses given by the fully trained assessor with 80% inter-rater reliability prior to conducting independent interviews. Random spot-checks throughout the study will be conducted to assess for drift and re-training will occur as needed. Self-report assessments will be administered online via HIPAA-compliant Qualtrics survey management.

Screening—Anxiety symptom severity will be assessed using the OASIS (Campbell-Sills et al., 2009). DSM-5 diagnoses will be assessed using select modules of the Structured Clinical Interview for Diagnostic and Statistical Manual of Mental Disorders (SCID), 5th ed. (First et al., 2016). Cognitive impairment will be assessed using the Mini Mental State Examination (MMSE; Folstein et al., 1975). Study staff will review the electronic medical record to identify prescription information relevant for inclusion/exclusion, and use of the prescription (or other sources of BZs or opioids) will be reported by the participant during the baseline assessment via the Timeline Followback (TLFB; Sobell & Sobell, 1995).

Demographics—Demographic information collected includes sex, gender, age, race, and ethnicity.

Measures of benzodiazepine use—BZ dose at each assessment period will be assessed via self-report using the TLFB (Sobell & Sobell, 1995), and facilitated by a dose diary card that participants will be given to track substance use (i.e., days of use of each drug including BZs) and dose of BZ on each day of BZ use. TLFB administration will also be enhanced by asking participants to show their BZ pill bottles and will be corroborated by UDS¹ at baseline and 2-month follow-up. TLFB will be used to document self-reported use of substances for each day (including BZ dose, if any, taken each day) since the last TLFB assessment during the acute treatment phase (i.e., past 7 days during weekly study visits) and in the past 30 days for baseline, post-treatment, and 2-month follow-up visits.

BZ dose will be operationalized as the average daily dose taken over the past week. BZ use will be operationalized as the percentage of days of use over the assessment period (i.e., # days of use/# days in assessment period). Secondary measures of BZ use will include point of care UDS, and examination of EHR data to determine BZ prescriptions filled (and doses) since the last assessment, including at the 2-month follow-up. UDS will be used to corroborate reported abstinence at 2-month follow-up.

Measures of mental health—The anxiety subscale of the 21-item Depression and Anxiety Severity Scale (DASS-21; Lovibond & Lovibond, 1993) will be used as the primary anxiety disorder outcome measure. The depression subscale of the DASS will be used as a secondary measure to assess changes in depression symptoms. The Anxiety Sensitivity Index-3 (Taylor et al., 2007) will be used as another outcome measure.

Measures of opioid use—Like the BZ use assessment methods, opioid use will be assessed via TLFB, with abstinence corroborated by UDS at 2-month follow-up. A UDS panel that includes cannabis, cocaine, morphine, methamphetamine, amphetamines, benzodiazepines, barbiturates, methadone, buprenorphine, MDMA (ecstasy), oxycodone, phencyclidine, tramadol, opioids, fentanyl, and ETG (alcohol) will be administered as a secondary measure of substance use at baseline and follow-up. EHR data will be examined to determine opioid prescriptions and doses filled since the last assessment, with additional chart review if clinicians report concerns about opioid obtained from external providers during their routine prescription drug monitoring database. Participants will also be asked to bring opioid prescription bottles at weekly telemedicine visits with research staff.

Measures of putative mediators—The Anxiety Sensitivity Index-3 (ASI-3; Taylor et al., 2007) will be used in secondary/exploratory analyses to examine whether anxiety sensitivity is a mediator of treatment outcomes in the CBT+BZT condition. The Pain Catastrophizing Scale (Sullivan et al., 1995) will also be used to examine whether pain catastrophizing is a potential mediator of treatment outcomes.

Measures of medical history—We will assess chronicity of pain, medical comorbidities, and pain at baseline. Pain severity and interference will be measured at baseline and at each major assessment period using the Pain, Enjoyment, General Activity (PEG) Scale, which includes three items to assess pain and function by rating (0 to 10) of pain and interference in the past week (Krebs et al., 2009).

Measures related to treatment

<u>Treatment Credibility.</u>: The Treatment Expectancy and Credibility Questionnaire (Devilly & Borkovec, 2000) is administered after Session 1 in both conditions to assess whether participants in both conditions believe the intervention to be credible.

Acceptability and Feasibility.: Acceptability will be approximated by participant adherence variables. Participant adherence variables will include number of CBT sessions and BZ taper sessions attended and percentage of participants per condition who complete the course of intervention. Participant satisfaction will be measured using an abbreviated and adapted version of the Treatment Satisfaction Questionnaire (Cox et al., 1994). Participants will be asked separately on a 0 (not at all) to 7 (extremely) point scale how useful they found the intervention to be, how much it improved their anxiety, BZ use, opioid use, and quality of life, and how likely they would be to recommend the program to a friend. Average scores of 4 out of 7 will indicate at least moderate satisfaction with the intervention.

Satisfaction and feedback about the intervention will also be assessed via focus groups with participants (aiming for 1–2 groups of n=6-8 participants each) and PCPs (aiming for 1 group of n=6-8 PCPs in total) who had patients participate in each condition. Patients who complete the protocol will be offered the option to participate at the end of their follow-up assessment. We will also outreach to patients who dropped out prior to completing the protocol to offer them focus group participation. Physicians will be recruited via email announcements sent to the participating clinics. Physicians will be asked about their attitudes toward, and satisfaction with the protocol (including the coordinated care approach). Participants will be asked about attitudes, satisfaction, barriers, and facilitators to carrying out the taper, and telehealth platform usability. Focus group data will be coded and thematically summarized using qualitative data analytic approaches. Additional measures of feasibility include (1) meeting at least 80% of recruitment and enrollment target (including descriptive information about reasons for exclusion) and (2) number of technology-related issues interfering with treatment (with >20% of participants unable to participate in one or more study visits due to technological issues indicating the protocol may not be feasible for delivery via telehealth).

Treatment Fidelity and Therapist Competence.: Fidelity in CBT and HE conditions will be assessed by independent doctoral-level raters who will rate 20% of the recorded sessions on adherence (% of session components delivered) and competence (extent to which provider skillfully delivered each component). Competence ratings for each component of treatment that was delivered in a session being rated will be given using the Yale Adherence and Competence Scale (Corvino et al., 2000).

Treatment Conditions: Participants will be randomized to treatment conditions following screening and enrollment. The treatment conditions are (1) BZ taper + an 11-session CBT program (BZT+CBT) and (2) BZ taper + a health education control (BZT+HE). Randomization will employ a 1:1 with stratification by high/low BZ dose, operationalized as daily BZ equivalent doses greater than/less than or equivalent to 15mg diazepam. Participants in both conditions will receive care through the research clinic at the UCLA Department of Psychiatry from therapists, who are doctoral-level clinicians, and psychiatry residents. Therapists will receive standardized training on the CBT and HE protocols. Adherence to therapy techniques will be monitored using audio recordings and weekly supervision by a licensed psychologist. Psychiatry residents will receive training on the BZ taper protocol by the supervising psychiatrist and will receive weekly supervision. All appointments will take place via a secure video platform. Table 2 shows the weekly study visit schedule.

BZ Taper (BZT): The BZT protocol will be identical in both conditions. Resident physicians will recommend a graduated BZT at approximately 10%–20% reduction per week for a total of 12 weeks, as supported in prior literature (Jones et al., 2012). Dose reduction will be recommended and will be adjusted based on participant response and tolerability. The psychiatry resident will communicate to the PCPs each week regarding recommendations and progress. Participants will receive their prescriptions from their PCPs, who will work in conjunction with the study team to report on progress and encourage that the recommendations are followed. The study team will not prescribe the BZs. Participants will have the option to cease study-related reduction, and the PCPs will have flexibility to adjust or decide against tapered doses at clinical visits. In line with standard coordination of care practices PCPs will provide clinical updates to the study physicians about their patients' tolerability and symptom severity. The study team will join the existing monthly primary care provider meeting to discuss taper progress and clinical issues that arise for participants, including any concerns about diversion, non-prescribed use, or new onset of substance use.

Cognitive Behavioral Therapy (BZT+CBT): A manualized and evidence-based, 11 session CBT protocol (8 weekly sessions and 3 booster sessions) to assist panic-disordered patients with BZ tapering (Otto & Pollack, 2009) was adapted to meet the needs of the current patient population. Specific modifications included (1) a focus on BZ discontinuation for individuals with any number of anxiety-related conditions rather than a targeted focus on panic disorder, (2) an similar focus on applying lessons learned from BZ discontinuation to the management of a broader set of anxiety difficulties, (3) application of skills to distress management around chronic pain, and (4) a principle-based rather than a protocol-based approach to manualized treatment. The protocol includes psychoeducation,

interoceptive exposure, somatic skills, and cognitive restructuring (Table 3). CBT will be initiated for 2 weeks prior to the BZ taper, providing patients with skills for responding to anxiety.

Health Education (BZT+HE): Patients in the BZT Control condition will receive 11 weeks of an interactive health education (HE) program to match for therapy time. HE was originally developed for a group format but was adapted for 11 individual telehealth sessions. HE is a published multimedia program (e.g., psychoeducational videos, web page review) addressing various health, wellness, and lifestyle topics such as nutrition, dental care, and health screening, and has been used as a control condition in prior clinical trials (Kinnunen et al., 2008; Mooney et al., 2014) (full topic list available upon request). The clinician's role in this condition is to lead participants through the educational video and web page components, field questions, and lead discussions related to content.

<u>Data Analysis Plan:</u> Acceptability and patient adherence analyses (Aim 1) will include descriptive statistics and between-groups analysis of variance (ANOVA) to examine differences between conditions on adherence indices in each intervention. Qualitative PCP and patient acceptability will be evaluated via analyses of the focus group using text management software (Fielding & Lee, 1991). After examining transcripts and extracting themes (Glaser & Strauss, 1967; Ryan, 1999; Strauss & Corbin, 1990), we will reach consensus about which themes should be examined in detail (MacQueen et al., 1988).

Clinical outcome analyses (Aims 2–4) are considered preliminary given the pilot nature of the study and will include examining between-condition effects over time on the dependent BZ reduction, anxiety reduction, and opioid use. Categorical variables will be examined with χ^2 tests (i.e., +/– UDS for each BZ and opioid; and "success" of BZ taper, operationalized as at least 50% reduction in BZ use at end of intervention). Multiple imputation procedures using logistic regression will be utilized to handle missing dichotomous data. Continuous data will be analyzed using multilevel modeling (MLM), with each continuous dependent variable as the outcome variable in a separate analysis, time as the level 1 predictor, and condition as the level 2 predictor. MLM analyses will use hierarchical linear modeling software to examine change in outcome measures over time (pre-treatment, post-treatment, follow-up) within and between groups. Given that the study is likely to be underpowered to detect statistically significant differences between two active treatment conditions, we will also calculate between-group effect sizes (including 95% confidence intervals) to provide information about effect magnitudes.

The exploratory mediation aim will be addressed using a series of MLMs to examine within-group change slopes over time on each mechanism variable (i.e., anxiety sensitivity; pain catastrophizing) and between-group differences in slopes. Mediation will be tested using the MacArthur guidelines (Glaser & Strauss, 1967) and using time-lagged analyses to examine whether change in putative mediators during treatment (using the weekly data) predicts change in the anxiety, BZ use, and opioid use outcomes. Although possibly underpowered to detect mediation effects, we have observed significant mediation with similar sample sizes (e.g., Wolitzky-Taylor et al., 2018b; Wolitzky-Taylor et al., 2012).

Sample Size and Power Analysis: The present study is supported by a pilot funding mechanism. Thus, sample size (*N*=54 randomized; *N*=40 completers expected) was guided by appropriateness for pilot study objectives rather than by statistical power computations for formal hypothesis testing (Becker et al., 2008; Herzog, 2008; Lancaster et al., 2004). However, we expect a small-to-medium sized effect based on evidence from other trials. Specifically, effects from the RCT comparing CBT+BZT for panic disorder to relaxation control+BZT were moderate (*d* range: .38–.65) (Otto et al., 2010). Between-group effect sizes for an intervention targeting anxiety and substance use comorbidity were small-to-moderate (*d* range: .29–.56) (Wolitzky-Taylor et al., 2018). Effect sizes in a large trial of CBT for anxiety in primary care yielded small-to-medium effect sizes (Bruce et al., 1995).

Using the range of effect sizes in the prior CBT protocol for BZ tapering in patients with panic disorder (above), estimated power if N=54 is achieved (using G Power 3.1.9.7 for between-group effects using repeated measures ANOVA with 2 groups across three measurement points and a small correlation between repeated measurements = 0.2) ranges from .52 to .93. A medium effect size (Cohen's d=.54; equating to f=.27) would result in sufficient power of .80. Therefore, despite the pilot trial de-emphasizing sufficient statistical power, a moderate effect size is likely to achieve sufficient power to detect differences between treatment conditions with the proposed sample size. Moreover, our MLM approach will allow us to include anyone who completed at least a baseline assessment in intent-to-treat analyses, thus retaining power.

Trial Status: The randomized trial of BZT+CBT vs. BZT+HE is underway as of March 2023. We anticipate recruitment will be completed by August 2024. Treatment will conclude by January 2025. The project was approved by the UCLA Institutional Review Board (IRB #22–001451) and registered with ClinicalTrials.gov (NCT05573906).

Conclusion

Substantial evidence supports the FDA recommendation for cautious use of BZs among those prescribed opioids (Jones et al., 2012), but safe and sustainable solutions to address this concurrent use, including treatment of underlying anxiety symptomatology in patients taking opioids, are still urgently needed. The current study will evaluate the efficacy of augmenting BZ tapering with CBT for anxiety disorders that has been adapted specifically for patients with concomitant BZ and opioid use. Research combining scalable behavioral interventions ancillary to pharmacological approaches delivered via telehealth in primary care settings is important given concerning trends in rising prevalence of BZ/opioid coprescription (Mooney et al., 2022), BZ-associated overdose deaths (Overdose Death Rates, 2020), and known barriers to implementation of behavioral health interventions in primary care (Dickinson, 2015). Delivery of CBT using a telehealth platform has the potential to aid adherence and promote access and dissemination of procedures in primary care.

This innovative study lays the groundwork for a larger scale clinical trial to investigate the efficacy of a coordinated telehealth intervention to reduce BZ use in a population of individuals who use opioids in primary care who are at higher risk of morbidity and mortality, including fatal overdose (Mooney et al., 2022). Achievement of aims for the study

will encourage large-scale study of the impact of reducing BZ use among patients taking opioids, thereby making a significant public health impact. Although there are no rigid go/no-go criteria milestones to move forward with a larger-scale trial, support for the public health impact of conducting a larger-scale trial of the protocol will include a demonstration in this project that delivery of the intervention is feasible, it is considered at least moderately acceptable by patients, and that there is some signal for greater efficacy in BZT+CBT compared to BZT+HE.

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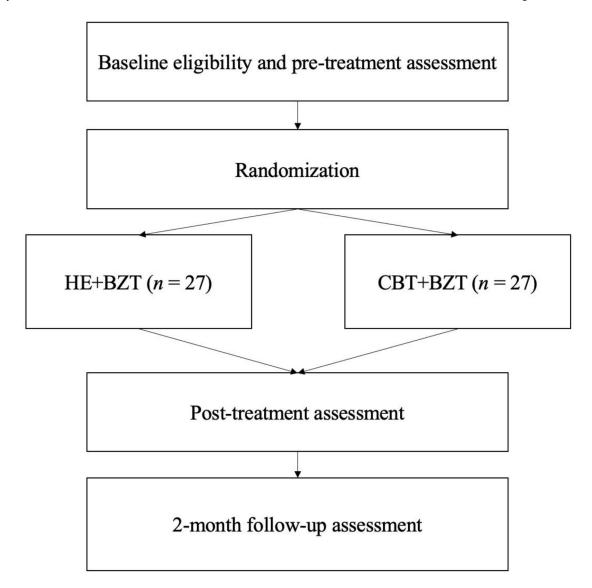


Figure 1. Pilot RCT Design

Table 1.

Measure administration schedule

Measure	Abbreviation	Assessment Points	Measure Type	
Overall Anxiety Severity and Impairment Scale	OASIS	Screening	Assessor administered	
Mini Mental State Examination	MMSE	Screening	Assessor administered	
Structured Clinical Interview for DSM-5	SCID-5	Screening	Assessor administered	
Demographics	N/A	Baseline	Self-report	
Pain, Enjoyment, General Activity Scale	PEG	Baseline	Self-report	
Timeline Followback	TLFB	Baseline (past 30 days), Weekly (past 7 days), Post-treatment (past 30 days), 2-mo follow-up (past 30 days)	Self-report	
Urine Drug Screen	UDS	Baseline, Post-treatment, 2-mo follow- up	Biological sample, collected over video call	
Credibility and Expectancy Questionnaire	CEQ	Week 2	Self-report	
Depression, Anxiety, and Stress Scale	DASS-21	Weekly	Self-report	
Adverse Events	N/A	Weekly	Self-report	
Anxiety Sensitivity Index	ASI-3	Biweekly	Self-report	
Pain Catastrophizing Scale	PCS	Biweekly	Self-report	
Treatment Satisfaction Questionnaire	TSQ	Post-treatment	Self-report	
Yale Adherence and Competence Scale	YACS	Following treatment completion	Completed by rater	

Table 2.

Weekly study visit schedule

Week	1	2	3	4	5	6	7	8	9	10	11	12
Intervention	CBT/ HE	CBT/ HE	BZT+CBT/ HE	BZ								

Table 3.

CBT Content

Fear of Symptom Cycle (review) Anxiety non-response (review) Symptom maintenance and management (review) Benzodiazepine Flu Model Benzodiazepine Flu Model Benzodiazepine Flu Model (review) Symptoms associated with taper (review) Cognitive Coaching Symptoms associated with taper (review) Cognitive Coaching (review) Symptoms associated with taper (review) Cognitive Coaching (review) Symptoms associated with taper (review) Cognitive Coaching (review) Symptoms associated with taper (review) Cognitive Coaching (review) Interoceptive Exposure in relation to patient's symptom sensitivities Interoceptive Exposure in relation to patient's symptom sensitivities Interoceptive Exposure in relation to patient's symptom sensitivities Interoceptive Practice Review Interoceptive Exposure in relation to patient's symptom sensitivities Planning Pleasant Events Review Pleasant Events	Session #	Psycho-Educational Content	Intervention Content		
Assess interoceptive-kymptom sensitivities Initial training in "relaxation non-response" to anxiety signals Review of changing experience relative to anxiety Exposure therapy AND vs. OR perspective regarding comfort with anxiety Fear of Symptoms Cycle AND vs. OR perspective regarding comfort with anxiety (review) Anxiety Cycle vs. Relative Comfort (review) Fear of Symptom Cycle (review) Anxiety Cycle vs. Relative Comfort (review) Fear of Symptom Cycle (review) Anxiety maintenance and management (review) Benzodiazepine Flu Model Symptom maintenance and management (review) Benzodiazepine Flu Model (review) Symptoms associated with taper (review) Cognitive Coaching Cognitive Coaching (review) Symptoms associated With taper (review) Cognitive Coaching (review) To Not Be Careful With Yourself Around Your Symptoms' discussion (i.e., relapse prevention start) Symptoms associated with taper (review) Cognitive Coaching (review) Assess "Mat II" Thoughts (review Exposure in relation to patient's symptom sensitivities Interoceptive Exposure in relation to patient's symptom sensitivities Review Pleasant Events Review Pleasant Events Review Pleasant Events Rehearsal of anxiety non-response (as needed)	1		Enhance motivation for treatment		
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Interoceptive Exposure: Jumping Jacks/Jogging in Place /Stair Climbing Consolidate learning			Interoceptive Exposure: Hyperventilation		
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Interoceptive exposure (as needed)			Interoceptive exposure (as needed)		
Naturalistic Exposure					

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Session # Psycho-Educational Content Intervention Content

Intervention for underlying anxiety disorder (as needed)

Nature of Anxiety-Related (What If) Thoughts (review, as needed)

Review Pleasant Events
Rehearsal of anxiety non-response (as needed)

Interceptive exposure (as needed)

Naturalistic Exposure
Intervention for underlying anxiety disorder (as needed)

Skill review and relapse prevention

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