

Evaluation of internet-based cognitive-behavioral therapy blended with sessions for depression in young adults

Submission date 18/07/2022	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered
Registration date 25/07/2022	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 25/07/2022	Condition category Mental and Behavioural Disorders	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

Unipolar depressive disorders are one of the leading causes of disability-adjusted life years among adolescents and young adults worldwide. Early age of depression onset is a risk factor for recurrent depression, is associated with poor academic achievement and impaired quality of life, and predicts worsened mental and physical illness.

Cognitive behavioral therapy (CBT) is an empirically supported behavioral intervention for depression. Adaptions of in-person CBT protocols into Internet-based formats (ICBT) can realize intervention to more individuals in need. ICBT programs that include therapist support are shown to be more effective than self-guided programs and demonstrate effects similar to those found with in-person treatment. To include strong therapist support in ICBT, and moreover, to conduct sessions using video telehealth can be consistent with young adults' communication preferences. Treatment that combines both internet-based self-guided material and live therapist sessions is referred to as 'blended treatment'.

The primary aims of this study are to test the efficacy of blended CBT treatment for young adults with major depressive disorder recruited nationally.

Who can participate?

Young adults aged 18-19 yearsold with depression.

What does the study involve?

Participants will be allocated randomly to one of two groups, with an equal chance of being in either group (like tossing a coin). One group will receive 10 weeks of blended CBT and the other will receive 10 weeks of self-guided ICBT for a major depressive episode (MDE). For participants receiving blended CBT, treatment will include 8 self-help modules, and up to 10 individual therapist sessions using telehealth. Participants allocated to the comparative self-guided ICBT will be provided the 8 self-help modules without therapist sessions. To assess the treatment

effects and maintenance of treatment gains, participants will be asked to complete questionnaires before treatment, during treatment, at post-treatment (10 weeks) as well as follow-up questionnaires at 6 months, and 12 months.

What are the possible benefits and risks of participating?

For both treatments, the expected benefit is a reduction of depression symptoms. Based on the existing literature for internet-based treatment approaches funded in cognitive behavior therapy, we do not expect participants to suffer any serious physical injury, financial, social, or legal harm from partaking in the present study, beyond what may be ordinarily encountered in daily life or during the performance of routine physical or psychological examinations or tests.

Where is the study run from?

Pennsylvania State University (USA)

When is the study starting and how long is it expected to run for?

From January 2022 to August 2025

Who is funding the study?

Investigator initiated and funded

Who is the main contact?

Prof Michelle G. Newman, mgn1@psu.edu

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

Protocol serial number

Nil known

Study information

Scientific Title

Internet-based cognitive behavioral therapy blended with sessions versus self-guided internet-based cognitive behavioral therapy for depression in young adults: a randomized controlled trial

Study objectives

Internet-based CBT blended with sessions is superior to self-guided ICBT in reducing depression symptoms in young adults.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 17/05/2022, the Institutional Review Board, Human Research Protection Program Pennsylvania State University (The 330 Building, Suite 205, University Park, PA 16802, US; +1 (814) 863-8699; IRB-orp@psu.edu), ref: 00018688

Study design

Interventional randomized controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Major depressive disorder in young adults

Interventions

Eligible subjects will be randomly assigned to 10 weeks of blended CBT for a major depressive episode (MDE) or to 10 weeks of self-guided CBT. A random number generator will be used to assign the participants (1:1 ratio).

Both interventions include 8 online self-help modules that teach behavioral and cognitive strategies that participants can learn to reduce and help manage depression and comorbid anxiety. The modules span psycho-education, behavioral activation, cognitive restructuring, emotion regulation, anxiety management, and relapse prevention.

Experimental treatment:

The experimental condition consists of Blended CBT. For 10 consecutive weeks, participants will complete the 8 self-help modules combined with up to 10 individual therapist sessions delivered via video telehealth technology. In addition to sessions, therapists will provide feedback on progress and skills practice assignments.

Active comparator:

The active comparator condition consists of self-guided ICBT. For 10 consecutive weeks, participants will complete 8 self-help modules.

Intervention Type

Behavioural

Primary outcome(s)

Depressive symptoms measured using the Quick Inventory of Depressive Symptomatology in adolescents (QIDS-A17-SR) at baseline and 10 weeks (post-treatment)

Key secondary outcome(s)

1. Depressive symptoms measured using the QIDS-A17-SR at 6 and 12 months
2. Depressive symptoms measured using the Patient Health Questionnaire 9 (PHQ-9) at baseline, weekly during treatment, and post-treatment (10 weeks)
3. Depressive symptoms measured using the PHQ-9 at 6 and 12 months
4. Remission from DSM-5 depression diagnosis measured using clinical interview at post-treatment (10 weeks)
5. Anxiety symptoms measured using the Generalized Anxiety Disorder Q-IV (GAD-Q-IV) at baseline, during treatment, and post-treatment (10 weeks)
6. Anxiety symptoms measured using the GAD-Q-IV at 6 and 12 months
7. Clinical improvement measured by the Clinical global Impression Scale – Improvement (CGI-I) at post-treatment (10 weeks)
8. Loneliness measured using the UCLA Loneliness Scale-8 (ULS-8) at baseline, post-treatment, 6 months, and 12 months
9. Treatment satisfaction and acceptance of treatment measured using measures developed for the study post-treatment, and at 6 months
10. Mediators and moderators analyzed using the following:
 - 10.1. The Behavioral activation for depression scale-Short (BADSF) at baseline, during treatment, and post-treatment
 - 10.2. The Skills of Cognitive Therapy (SoCT) at baseline, during treatment, and post-treatment
 - 10.3. Program usage (single question, rating 0-4) during treatment
 - 10.4. Implementation of CBT skills learned in intervention using a measure developed for the study at post-treatment and 6 months
 - 10.5. Credibility Expectancy Questionnaire (CEQ) during treatment
 - 10.6. Working Alliance Inventory-Short (WAI-S) during treatment
 - 10.7. Causes for pre-mature intervention termination at termination

Completion date

01/08/2025

Eligibility

Key inclusion criteria

1. Have access to a computer and/or mobile phone with an internet connection and data plan allowing 90 min spent on treatment per week
2. Fluent in the English language in terms of speaking, listening, reading, and writing
3. Aged 18-19 years
4. Presence of depressive symptoms as measured by a score ≥ 10 on the QIDS -17-SR
5. Fulfill DSM-5 Criteria for a major depressive episode

6. Depression is deemed the primary concern
7. Those currently taking antidepressants, central stimulants, and/or neuroleptics, will be accepted, if no change in dosage at least 6 weeks prior to study participation

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Upper age limit

19 years

Sex

All

Key exclusion criteria

1. Unable to consent, or actively confirm study participation
2. Ongoing/prior (CBT) treatment within the last 6 months
3. Significant suicidal ideation and/or history of previous suicide attempt
4. Judged to have problem/disorder that warrants more intensive in- person mental health and/or medical treatment (i.e., alcohol, substance use, and/or eating disorder, meets diagnostic criteria for psychotic disorders)
5. Judged to have other current severe problems require other actions at first hand
6. Lack of access to computer and/or mobile phone with an internet connection and sufficient data plan
7. Has ever been diagnosed with autism spectrum disorder and/or Attention Deficit Hyperactivity

Date of first enrolment

01/08/2022

Date of final enrolment

01/05/2024

Locations**Countries of recruitment**

United States of America

Study participating centre

Department of Psychology, Pennsylvania State University

140 Moore Building

Pennsylvania State University

University Park
State College
United States of America
16802

Sponsor information

Organisation

Pennsylvania State University

ROR

<https://ror.org/04p491231>

Funder(s)

Funder type

Other

Funder Name

Investigator initiated and funded (through the PI and Co-PI's professorship research contracts)

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated and/or analyzed during the current study are of sensitive nature, thus are not expected to be publicly available. Access will be provided upon reasonable request (from date of publication) from the study principal investigator Prof Newman (mgn1@psu.edu).

IPD sharing plan summary

Available on request