

Effectiveness of a cannabidiol supplement on sleep and mood in adults

Submission date 15/05/2024	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 20/05/2024	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 09/06/2025	Condition category Other	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

The study aims to see if a supplement containing cannabinoids could help adults sleep better and improve their overall health.

Who can participate?

Adults between the ages of 18 to 75 years who have occasional sleeplessness

What does the study involve?

The study involves taking the supplement daily for 10 days, followed by a "washout" period of 2 weeks, and then taking the alternative "supplement". Participants also complete a series of questionnaires on sleep and health.

What are the possible benefits and risks of participating?

Benefits include a better understanding of sleep behaviors and overall health. Risks are minimal and include minor side effects from taking the supplement.

Where is the study run from?

The study participants must reside in the USA. This is a home-based study.

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

June 2022 to September 2023

Who is funding the study?

Sanna, LLC

Who is the main contact:

Heather Hausenblas, PhD, hhausen@ju.edu

Contact information

Type(s)

Public, Scientific, Principal investigator

Contact name

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Study information

Scientific Title

Effectiveness of a cannabidiol supplement on sleep and mood in adults with nonclinical insomnia: a randomized double-blind placebo-controlled crossover pilot trial

Study objectives

Supplement improves sleep, health-related quality of life HRQoL, anxiety, perceived stress, mood, and daytime fatigue.

Ethics approval required

Ethics approval required

Ethics approval(s)

approved 14/09/2022, Sterling IRB (5500 Interstate North Parkway Suite 515, Atlanta, 30328, United States of America; +1 770-690-9491; support@sterlingirb.com), ref: 10333

Study design

Pilot randomized double-blind placebo-controlled crossover trial

Primary study design

Interventional

Study type(s)

Quality of life

Health condition(s) or problem(s) studied

Otherwise healthy adults with nonclinical poor sleep

Interventions

Participants with nonclinical insomnia symptoms (as determined by the Insomnia Severity Index) will be recruited into a randomized double-blind placebo-controlled crossover trial. The participants will be randomized using a random number function in Excel to assign ID numbers

into conditions to either the Cannabinoid Supplement (CS) or Placebo Control (PC) condition for 10 days. All participants will sign an Institutional Approved Informed Consent (Sterling IRB). Following a two-week washout period, the participants will be asked to complete the alternate condition for 10 days. The CS is an oral soft gel that contains 3 mg THC, 6 mg CBN, 10 mg CBD, and 90 mg of a proprietary food-grade terpene blend (<https://sannasleep.com/>). The PC is an oral soft gel containing medium chain triglyceride (MCT) oil. The supplement is to be taken an hour before nighttime sleep.

Intervention Type

Supplement

Primary outcome(s)

Sleep quality measured using the following validated self-report questionnaires at baseline and following each 10-day condition:

1. Insomnia Severity Index (ISI)
2. Pittsburgh Sleep Quality Index (PSQI)
3. Bergen Insomnia Scale (BIS)
4. Restorative Sleep Questionnaire (RSQ)

Key secondary outcome(s)

The following validated self-report secondary outcome measures were assessed at baseline and following each 10-day condition:

1. Health-related quality of life measured using the self-reported CDC Health-related Quality of Life Measure
2. Anxiety measured using the Trait Anxiety Inventory
3. Perceived stress measured using the self-reported Perceived Stress Scale
4. Mood measured using the self-reported Profile of Mood States
5. Daytime fatigue measured using the validated self-reported Flinders Daytime Fatigue Scale

Safety/adverse events were measured using the following open-ended question; "Did you experience any adverse events: Yes No. If yes, please indicate what the event was" daily.

Completion date

13/09/2023

Eligibility

Key inclusion criteria

Adults (between the ages of 18 to 75 years) with nonclinical insomnia symptoms (as determined by the Insomnia Severity Index)

Participant type(s)

Healthy volunteer

Healthy volunteers allowed

No

Age group

Mixed

Lower age limit

18 years

Upper age limit

75 years

Sex

All

Total final enrolment

20

Key exclusion criteria

1. Severe insomnia (based on the Insomnia Severity Index (ISI \geq 22) or nonclinical insomnia (ISI $<$ 8)
2. History of a diagnosed disorder affecting sleep quality
3. Reported events that could cause severe stress within 2 weeks of baseline
4. Use of medication that could influence sleep patterns within 1 month of the trial
5. Use of hormone therapy
6. Binge alcohol consumption
7. Smoking
8. High caffeine intake
9. Work schedule that causes irregular sleep patterns
10. History of travel to a different time zone within 1 month of the study
11. Low or high body mass index (BMI \leq 18 kg/m² or \geq 35 kg/m²)
12. Pregnant, trying to conceive, or breastfeeding
13. Taking sleep supplements or medication
14. Unwilling to abstain from other cannabis/hemp product use for two weeks prior to and during the trial
15. Individuals deemed unable to complete the protocol as designed

Date of first enrolment

01/10/2022

Date of final enrolment

01/11/2022

Locations**Countries of recruitment**

United States of America

Study participating centre**Wellness Discovery Labs**

76 S Laura St

Jacksonville

United States of America

32202

Sponsor information

Organisation

Sanna, LLC

Funder(s)

Funder type

Industry

Funder Name

Sanna Sleep

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be available upon request from Heather Hausenblas, hhausen@ju.edu

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		19/02/2025	09/06/2025	Yes	No