

Phase I psilocybin safety trial

Submission date 10/04/2023	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 12/04/2023	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 12/04/2023	Condition category Other	<input checked="" type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

Psilocybin is a psychedelic drug and the active ingredient in "magic mushrooms". Psilocybin is currently being studied in clinical trials and has no current medical use in Canada. While a number of studies have shown that a dose of psilocybin may improve depression and anxiety in people with cancer, as well as improve the overall mental health of people suffering from post-traumatic stress disorder (PTSD), substance use disorders, and work-related stress, more baseline physiological data (i.e. heart rate, blood pressure, body temperature) is required from healthy individuals after consuming psilocybin to demonstrate it can be safely administered in a clinical setting. This study aims to assess physiological data and adverse events to help develop clinical screening protocols for psilocybin-assisted therapy. This study also aims to further assess the subjective effects of psilocybin at a dose of 25 mg.

Who can participate?

Healthy adults (aged 18-65 years) who are licensed healthcare professionals and who have taken a psychedelic-assisted therapy training course

What does the study involve?

Over the course of the study, participants will engage in symptom assessments (vital signs including heart rate, blood pressure, temperature, and ECG will be monitored). Participants will also be required to complete self-assessments before and after treatment. The first visit to the ATMA clinic (Visit 1) will consist of a preparatory session where vital signs will be assessed and the nature of the experimental session (Visit 2) will be discussed. The preparatory session will last about 1 hour. The experimental session where psilocybin is ingested (Visit 2) will last 4-8 hours, in which 25 mg of psilocybin extract will be ingested. Trained facilitators will be available as resources/support for the duration of the psilocybin dosing session and vital signs will be monitored. 2 and 7 days after the experimental session, participants will be contacted by a study coordinator to 'check in on their well-being, as well as obtain the results of their self-assessments. Eight weeks after the experimental session, participants will be required to have a follow-up appointment with their physician for a final assessment of vital signs, and follow-up with the Primary Investigator for a final adverse event assessment, as well as to provide their final self-assessments. After this final appointment, involvement in the study will end.

What are the possible benefits and risks of participating?

As there may be side effects after consuming psilocybin, the study staff will monitor participants

closely. Side effects may be mild or very serious. Many side effects from psilocybin go away soon after the psilocybin is eliminated from the body. Though uncommon, in some cases, side effects can be serious, long-lasting, or may never go away.

Medical risks and side effects related to taking psilocybin include those which are:

Likely (i.e. 1% - 50%)

1. Temporary elevations in heart rate and/or blood pressure during the psilocybin session
2. Temporary anxiety or confusion during the psilocybin session
3. Headache soon after the psilocybin session
4. Nausea and/or vomiting during the psilocybin session

Less likely (i.e. 1% - 5%):

1. Temporary slower movements or difficulty coordinating movements during the psilocybin session
2. Temporary fatigue or difficulty sleeping the night after the psilocybin session

Rare but serious (i.e. less than 1%):

1. Elevated blood pressure during the psilocybin session that requires medications to bring back to normal
2. Elevated body temperature, muscle stiffness, and confusion during the psilocybin session
3. Anxiety, mania, or psychotic symptoms (such as hallucinations or paranoia) soon after the psilocybin session that lasts for over 24 hours after the drug wears off
4. Anxiety, mania, or psychotic symptoms during or after the psilocybin session that are severe and require medications to maintain the participant's safety and/or the safety of study staff.

It is important to note that psilocybin may have side effects that no one knows about yet. For example, the effects of psilocybin on symptoms of Parkinson's disease are not known.

Participants who are pregnant are not permitted to enroll in the study. Additionally, participants are required to use contraception during their involvement in the trial. They will be asked to complete a pregnancy test (if of child-bearing potential) at enrollment and the day of the experimental session, as well as use adequate birth control from the time of enrollment through 10 days after the experimental session. Adequate forms of birth control include double barrier methods, such as a male condom with a diaphragm or a male condom with a cervical cap.

If possible, highly effective forms of birth control may be used, including oral contraceptives, patch, vaginal ring, injectables, implants, and intrauterine device.

Although participation in this study may be of no benefit to the participants, it is hoped that the data collected will be of future benefit to others.

Where is the study run from?

The Newly Institute (Canada)

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

August 2021 to August 2022

Who is funding the study?

ATMA Journey Centers Inc. (Canada)

Who is the main contact?

1. Michael D. Blough,
2. Jennifer Bennett, jennifer@atmajourney.com

Contact information

Type(s)

Scientific

Contact name

Ms Jennifer Bennett

Contact details

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Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number**ClinicalTrials.gov number**

Nil known

Secondary identifying numbers

ATMA0001

Study information

Scientific Title

A Phase I study to assess the safety of psilocybin when administered to healthy participants enrolled in a psychedelic-assisted therapy training program

Study objectives

Based on published clinical studies it is hypothesized that psilocybin will be well tolerated in healthy individuals enrolled in a psychedelic-assisted therapy training program

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 25/03/2022, Health Research Ethics Board of Alberta, Clinical Trials Committee (1500, 10104 - 103 Avenue NW Edmonton, Alberta, T5J 0H8, Canada; +1 (0)780 423 5727; clinicaltrials@hreba.ca), ref: HREBA.CTC-22-0008

Study design

Phase I open-label single-arm psilocybin safety trial

Primary study design

Interventional

Secondary study design

Non randomised study

Study setting(s)

Other

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use the contact details to request a participant information sheet

Health condition(s) or problem(s) studied

Documenting psilocybin safety in healthy participants

Interventions

25 mg of oral psilocybin, with a duration of effects lasting 4-6 hours.

Intervention Type

Drug

Phase

Phase I

Drug/device/biological/vaccine name(s)

Psilocybin, PEX010

Primary outcome measure

1. Safety was assessed via blood pressure, heart rate, temperature, and ECG measurements at baseline, during the psilocybin session at 1-h intervals or as deemed necessary by the Primary Investigator, and at 8 weeks following the psilocybin session
2. Adverse events recorded at 2 days, 7 days, and 8 weeks following the psilocybin session

Secondary outcome measures

1. Mood evaluated via the Quick Inventory of Depressive Symptomatology Self-Report 16-Item Questionnaire (QIDS-SR16) at baseline, 2 days, 7 days, and 8 weeks following the psilocybin session
2. Mystical experience evaluated via the Revised Mystical Experience Questionnaire 30-Item (MEQ-30) at 2 days and 7 days after the psilocybin session

Overall study start date

01/10/2021

Completion date

31/10/2022

Eligibility

Key inclusion criteria

1. 18 - 65 years old and healthy as determined by a physician
2. Must be a practicing mental healthcare provider with professional accreditation including but not limited to a psychiatrist, psychologist, registered psychiatric nurse, social worker, physician, licensed practical nurse, counsellor, and therapist
3. Signed the Research Informed Consent Form
4. Are learning to conduct psilocybin-assisted psychotherapy or psilocybin research
5. Are willing to commit to medication dosing (including swallowing pills), study session attendance, and evaluation instruments
6. Agree that, for approximately 1 week preceding the Experimental Session will refrain from:
 - 6.1. Taking any herbal or dietary supplement (except with prior approval of the research team)
 - 6.2. Taking any non-prescription medications (with the exception of non-steroidal anti-inflammatory drugs or acetaminophen) unless with prior approval of the research team
 - 6.3. Taking any prescription medications (with the exception of prescribed contraception, thyroid hormones, or other medications approved by the research team)
7. Agree to take nothing by mouth except alcohol-free liquids and approved medications after 12:00 A.M. (midnight) the evening before the Experimental Session
8. Agree not to use caffeine or nicotine for 2 hours before and 6 hours after initial drug administration
9. Agree to not operate a vehicle for at least 24 hours after initial drug administration. Participants must have transportation available after the Experimental Session and through the following day, for traveling back for the Integrative Session.
10. Are willing to be contacted via telephone for all necessary telephone contacts
11. If of childbearing potential, must have a negative pregnancy test at study entry and prior to the Experiential Session and must agree to use adequate birth control from the time of enrollment through 10 days after the Experimental Session. Adequate forms of birth control include double barrier methods, such as:
 - 11.1. Male condom with diaphragm
 - 11.2. Male condom with cervical cap
 If possible, highly effective forms of birth control may be used, including:
 - 11.3. Oral contraceptives
 - 11.4. Patch
 - 11.5. Vaginal ring
 - 11.6. Injectables
 - 11.7. Implants
12. Must provide a contact (relative, spouse, close friend, or other caregiver) who is willing and able to be reached by the investigator in the event of an emergency or if the participant is unreachable
13. Must agree to inform the investigator within 48 hours if any medical conditions occur or medical procedures are planned
14. Are proficient in speaking and reading the predominately used or recognized language of the study site
15. Agree to not participate in any other interventional clinical trials for the duration of this study
16. Participants must be enrolled in the ATMA 8-week psychedelic-assisted therapy training program
17. Have approval from family physician before enrollment to ensure they are physically and psychologically fit to proceed in the trial
18. Participants must agree to be delivered to the care of a responsible individual who can observe the participant for the remainder of the 24 hours post-dose administration

Participant type(s)

Healthy volunteer

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

20

Total final enrolment

14

Key exclusion criteria

1. Presence or history of active psychotic symptoms or diagnosis of bipolar disorder or first- or second-degree relative with a history of same
2. Are on any psychotropic medications including SSRIs, SNRIs, or lithium
3. Diagnosis of dementia/delirium, high risk for coronary artery disease, uncontrolled cardiopulmonary disease/ cardiovascular disease/hypertension, aneurysm, history of intracerebral hemorrhage, hepatic cirrhosis, hepatorenal disease
4. Deemed not suitable for the treatment program by the qualified investigator
5. Are not able to give adequate informed consent
6. Are pregnant, nursing, or are of childbearing potential and not willing to practice an effective means of birth control
7. Present with suicide risk, as determined through clinical interview and responses to C-SSRS will be excluded
8. Have uncontrolled hypertension using the standard criteria of the American Heart Association (values of 140/90 mmHg or higher assessed on three separate occasions). Have a history of ventricular arrhythmia at any time, other than occasional premature ventricular contractions (PVCs) in the absence of ischemic heart disease.
9. Have Wolff-Parkinson-White syndrome or any other accessory pathway that has not been successfully eliminated by ablation
10. Have previous experience with psilocybin demonstrating it is not well tolerated, or otherwise experienced a significant adverse event after prior hallucinogen use
11. A history of schizophrenia, or first-degree relatives with schizophrenia
12. Have a known sensitivity to psilocybin and/or its metabolites
13. Have any clinically significant medical condition or disease
14. Have QT prolongation, or a history of QT prolongation, and those who are on concomitant medications that carry a risk of QT prolongation

Prohibited medications:

1. Known uridine diphosphate glucuronosyltransferase enzyme modulators. Inhibitors of UGT1A9 and 1A10 must be discontinued at least 5 half-lives prior to psilocybin administration
2. Monoamine oxidase inhibitors. Monoamine oxidase and aldehyde or alcohol dehydrogenase inhibitors must be discontinued at least 5 half-lives prior to psilocybin administration
3. Selective serotonin reuptake inhibitor/serotonin-norepinephrine reuptake inhibitors (SSRI /SNRI)

Date of first enrolment

01/06/2022

Date of final enrolment

01/08/2022

Locations

Countries of recruitment

Canada

Study participating centre

The Newly Institute

2303 4 St SW

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Sponsor information

Organisation

ATMA Journey Centers Inc.

Sponsor details

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Sponsor type

Industry

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Funder(s)

Funder type

Industry

Funder Name

ATMA Journey Centers Inc.

Results and Publications

Publication and dissemination plan

The results of this study will be published in a peer-reviewed journal. The Investigators will be responsible for decisions regarding presentations and publications arising from this trial.

Intention to publish date

31/10/2023

Individual participant data (IPD) sharing plan

The original datasets presented in the study are available in a publicly accessible repository. This data can be found here: <https://doi.org/10.6084/m9.figshare.22329433.v1>

The type of data stored: vital signs data, and QIDS-SR16 and MEQ-30 scores

Dates of availability: currently available

Whether consent from participants was required and obtained: As part of the informed consent form, participants agree that "If information from this study is published or presented, your name and other personal information will not be used."

Comments on data anonymization: A participant ID has been assigned to each participant

IPD sharing plan summary

Stored in publicly available repository

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Dataset		27/03/2023	12/04/2023	No	No