

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Oct 2026

Efficacy of acceptance and commitment therapy on electroencephalography, psychological flexibility, cognitive fusion, emotion regulation, symptom reduction, and oxytocin blood levels in people with obsessive-compulsive disorder

Protocol summary

Study aim

Determining the effectiveness of Acceptance and commitment therapy on changing the bandwidth of delta, beta 1, beta 2, theta beta coherence, changing the asymmetry of cognitive brain waves of the right hemisphere, cognitive flexibility, cognitive fusion, blood oxytocin level, regulation Excitement in people with obsessive-compulsive disorder

Design

A clinical trial with a control group with a pre-test and post-test with three-month follow-up, single blind, randomly assigning patients to two groups using Excel software.

Settings and conduct

The statistical population includes individuals with OCD in Zanjan province. Patients who will be referred by psychiatrists and meet the inclusion criteria will be examined by the Structured Clinical Interview (SCID-I) and the Yale-Brown scale. Then, in a session before intervention, written consent will be obtained from patients, and demographic characteristics and other questionnaires will be filled. Oxytocin will be sampled subsequently.

Participants/Inclusion and exclusion criteria

Inclusion criteria: symptoms of OCD Comorbidity with other anxiety disorders 18-60 years no severe psychiatric disorders Not using drugs and alcohol in the last three months Not receiving psychological interventions not receive drug therapy in the last month written consent No chronic disease Exit criteria: Absence of more than two sessions Receive other psychological intervention simultaneously using drug at the same time no constant disorder aggravation

Intervention groups

Intervention group: Acceptance and commitment therapy will be individually during 8 sessions as Dr. Twohing's

protocol by two therapists. The aim is mostly reducing anxiety and how to deal with obsessive thoughts and compulsions. Control group: will not receive any special therapy and only use evaluation sessions.

Main outcome variables

Brain waves, OCD symptoms, psychological flexibility

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210727052000N2**

Registration date: **2023-02-07, 1401/11/18**

Registration timing: **prospective**

Last update: **2023-02-07, 1401/11/18**

Update count: **0**

Registration date

2023-02-07, 1401/11/18

Registrant information

Name

Fatemeh Hassani alimolk

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 44 3566 1160

Email address

fatima.hassani75@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-02-20, 1401/12/01
Expected recruitment end date
 2024-05-19, 1403/02/30
Actual recruitment start date
 empty
Actual recruitment end date
 empty
Trial completion date
 empty

Scientific title
 Efficacy of acceptance and commitment therapy on electroencephalography, psychological flexibility, cognitive fusion, emotion regulation, symptom reduction, and oxytocin blood levels in people with obsessive-compulsive disorder

Public title
 The effectiveness of Acceptance and Commitment Therapy on the brain waves of patients with obsessive-compulsive disorder

Purpose
 Supportive

Inclusion/Exclusion criteria
Inclusion criteria:
 Having symptoms of obsessive-compulsive disorder
 Coexistence with other anxiety disorders (social anxiety disorder, generalized anxiety disorder, panic disorder, specific phobia and transition phobia)
 Age range between 18-60 years
 Not suffering from severe psychiatric disorders (psychotic spectrum, bipolar disorder)
 Not using drugs and alcohol in the last three months
 Not receiving cognitive-behavioral interventions for at least 8 sessions in the last 5 years
 Failure to receive drug therapy within a month before the start of the intervention
 Interest of the participants to participate in the research based on the provisions of the written consent
 No chronic medical illness
Exclusion criteria:
 Absence of more than two sessions
 Receiving another similar psychological intervention at the same time as the current research
 Drug therapy at the same time as intervention
 Lack of consent to continue treatment during the intervention process
 Aggravation of the person's problems during the intervention and the need to provide another intervention

Age
 From **18 years** old to **60 years** old

Gender
 Both

Phase
 N/A

Groups that have been masked
No information

Sample size
 Target sample size: **46**

Randomization (investigator's opinion)
 Randomized

Randomization description
 People who meet the entry criteria are referred by professors, counseling centers, and psychiatric clinics in Zanjan province and are randomly assigned to the

experimental and control groups. Random allocation is done using Excel software. For this, in the first column, we enter 20 numbers 1 and 20 numbers 2 (representing the test and control group, respectively). Then, in the second column, we generate 46 random numbers using the (RAND) function. We sort the data based on column values containing random numbers (ascending or descending). With this sorting, the order of placement of numbers 1 and 2 will also change and be placed randomly. Based on the order of appearance of numbers 1 and 2, the samples are assigned to two groups.

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Zanjan University of Medical Sciences

Street address

Shahid Beheshti hospital, Ark gate, Zanjan city, Zanjan province

City

Zanjan

Province

Zanjan

Postal code

7531974143

Approval date

2022-11-17, 1401/08/26

Ethics committee reference number

IR.zums.REC.1401.259

Health conditions studied

1

Description of health condition studied

Obsessive-compulsive disorder

ICD-10 code

F42

ICD-10 code description

Obsessive-compulsive disorder

Primary outcomes

1

Description

Sign and symptoms of obsessive-compulsive disorder

Timepoint

pre and post test, after 3 months follow-up

Method of measurement

Yale-Brown Obsessive-Compulsive Scale

2

Description

brain waves

Timepoint

pre, post and 3 months after intervention

Method of measurement

electroencephalogram

Secondary outcomes

1

Description

cognitive fusion

Timepoint

pre, post and 3 months after intervention

Method of measurement

Cognitive fusion questionnaire

2

Description

cognitive emotion regulation

Timepoint

pre, post and 3 months after intervention

Method of measurement

Cognitive emotion regulation questionnaire

3

Description

psychological flexibility

Timepoint

pre, post and 3 months after intervention

Method of measurement

Acceptance and action questionnaire (II)

Intervention groups

1

Description

Intervention group: Acceptance and Commitment Therapy is third wave psychology therapy, the protocol used by Dr. Twohing was written. The said treatment, during 8 sessions of individual psychotherapy, seeks to increase the acceptance of unpleasant feelings, cognitive breakdown from disturbing annoying thoughts, and also to introduce the values of the patients in order to increase the psychological flexibility of the patients in general.

Category

Treatment - Other

2

Description

Control group: The control group will only benefit from the evaluation sessions, so they will not know whether they will be in the intervention group or the control group.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid beheshti hospital

Full name of responsible person

Ehsan Saboory

Street address

Shahid Beheshti Hospital, Zanjan City, Ark Square

City

Zanjan

Province

Zanjan

Postal code

45136-15788

Phone

+98 24 3354 4003

Email

fatima.hassani75@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Zanjan University of Medical Sciences

Full name of responsible person

Samad Nadri

Street address

Zanjan University of medical sciences, Azadi street, Zanjan

City

Zanjan

Province

Zanjan

Postal code

45136_15788

Phone

+98 24 3315 6141

Email

nadri_s@zums.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Zanjan University of Medical Sciences

Proportion provided by this source

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding*empty***Country of origin****Type of organization providing the funding**

Academic

Person responsible for general inquiries**Contact****Name of organization / entity**

Zanjan University of Medical Sciences

Full name of responsible person

Seyed Elnaz Mousavi

Position

Associate Professor

Latest degree

Ph.D.

Other areas of specialty/work

Psychology

Street address

Shahid Beheshti hospital, Ark square, Zanjan

City

Zanjan

Province

Zanjan

Postal code

45136-15788

Phone

+98 24 3354 4003

Email

elnaz48.mousavi@gmail.com

Person responsible for scientific inquiries**Contact****Name of organization / entity**

Zanjan University of Medical Sciences

Full name of responsible person

Fatemeh Hassani alimolk

Position

Master student

Latest degree

Bachelor

Other areas of specialty/work

Psychology

Street address

Plaque 18, Shahed street, West Azarbayjan province, Naghadeh city

City

Zanjan

Province

Zanjan

Postal code

45136_15788

Phone

+98 44 3566 1160

Fax**Email**

fatima.hassani75@yahoo.com

Person responsible for updating data**Contact****Name of organization / entity**

Zanjan University of Medical Sciences

Full name of responsible person

Seyed Elnaz Mousavi

Position

Associate Professor

Latest degree

Ph.D.

Other areas of specialty/work

Psychology

Street address

Shahid Beheshti hospital, Ark square, Zanjan

City

Zanjan

Province

Zanjan

Postal code

45136-15788

Phone

+98 24 3354 4003

Email

elnaz48.mousavi@gmail.com

Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Data will be made available to the journal and researchers only if needed, after de-identifying individuals.

When the data will become available and for how long

Researchers start accessing documents and data files after 6 months to a year after the publication of the article.

To whom data/document is available

Only the researchers and reviewers of the journal to which the article is submitted.

Under which criteria data/document could be used

The data will be sent for review studies, where all analyzes must be supervised by one of the authors of the proposal.

From where data/document is obtainable

After publishing the article, researchers can email the responsible author at elnaz48.mousavi@gmail.com to access the data. Or, if you wish, go to Shahid Beheshti Hospital to meet with Dr. Mousavi.

What processes are involved for a request to access**data/document**

If the reason is scientific and the email is sent after the publication of the article, the requested information will be sent to them at least one week after consultation with other authors.

Comments