

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jun 2026

The effectiveness of mindfulness based on art therapy using watercolor painting on emotion regulation, mindfulness and obsessive-compulsive symptoms

Protocol summary

Study aim

Determining the effect of mindfulness-based art therapy using watercolor painting on improving emotion regulation, mindfulness, and obsessive compulsive symptoms

Design

A randomized clinical trial with control group, parallel-groups, without blinding, on 40 participants with obsessive compulsive disorder.

Settings and conduct

Sampling and implementation of the intervention was performed at the Tamasha Counseling Center in Isfahan City. The experimental group received 8 sessions of mindfulness training via watercolor painting techniques. The control group did not receive any treatment intervention. The pre-test, post-test and follow-up test was conducted immediately before, immediately after and two months after the intervention in both groups, respectively. The Persian version of the standardized questionnaires of emotion regulation, mindfulness and obsessive symptoms were used to collect data.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Diagnosing obsessive compulsive disorder by a psychiatrist and using the cut point of obsessive, compulsive symptom scale, Physical ability to do homework, Age range from 20 to 60 years. Exclusion criteria: Physical disability, Suffering from other psychological disorders, Participating in other psychotherapy interventions.

Intervention groups

Intervention group: Mindfulness training was done through art therapy and watercolor painting in 8 two-hour sessions. Two intervention sessions were conducted every week with an interval of 3 days; The tools used include brushes, cardboard, and watercolors, and the content of the sessions includes painting techniques that increase focus on feelings and thoughts in the present

and reduce anxiety. Control group: included 3 weekly 45-minutes sessions of explanation about the characteristics of obsessive people.

Main outcome variables

Emotion regulation, Mindfulness, Obsessive-compulsive symptoms

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220911055937N1**

Registration date: **2023-01-15, 1401/10/25**

Registration timing: **retrospective**

Last update: **2023-01-15, 1401/10/25**

Update count: **0**

Registration date

2023-01-15, 1401/10/25

Registrant information

Name

Saghar Ahmadi

Name of organization / entity

The University of Ardakan

Country

Iran (Islamic Republic of)

Phone

+98 31 3236 5457

Email address

sagharahmadi30@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-08-11, 1401/05/20

Expected recruitment end date

2022-08-15, 1401/05/24

Actual recruitment start date

2022-08-29, 1401/06/07

Actual recruitment end date

2022-08-31, 1401/06/09

Trial completion date

empty

Scientific title

The effectiveness of mindfulness based on art therapy using watercolor painting on emotion regulation, mindfulness and obsessive-compulsive symptoms

Public title

Effect of art therapy based on mindfulness in obsessive-compulsive disorder

Purpose

Supportive

Inclusion/Exclusion criteria**Inclusion criteria:**

Diagnosing obsessive-compulsive disorder by a psychiatrist and using the cut-off point of the obsessive-compulsive symptoms scale Physical ability to do homework Age range 20 to 60 years

Exclusion criteria:

Suffering from other psychological disorders Participating in other psychotherapy interventions Physical disability

Age

From **20 years** old to **60 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

Actual sample size reached: **40**

Randomization (investigator's opinion)

Randomized

Randomization description

A simple randomization method was used to assign the participants to the study groups; The individual was considered as randomization unit. The table of random numbers was used for randomization; First, numbers 01 to 40 were randomly assigned to participants. The direction of reading the numbers was determined from the top of the table. The first 20 numbers were considered for the experimental group and the second 20 numbers were considered for the control group. Also, random assignment concealment was used so that the assigned group is not known before assigning the individuals.

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Yazd University

Street address

University Blvd, Safaeiyeh.

City

Yazd

Province

Yazd

Postal code

۸۹۱۵۸۱۸۴۱۱

Approval date

2022-08-28, 1401/06/06

Ethics committee reference number

IR.YAZD.REC.1401.043

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**

level of difficulty in emotion regulation score

Timepoint

The level of emotion regulation score was measured at three time points: Immediately before the intervention, Immediately after the intervention, Two months after the intervention.

Method of measurement

The measuring of emotion regulation was performed using a standardized questionnaire of "the Difficulty in Emotion Regulation Questionnaire" which developed by Gertz and Roemer.

2**Description**

Level of mindfulness score

Timepoint

The level of mindfulness score was measured at three time points. Immediately before the intervention, immediately after the intervention, two months after the

intervention.

Method of measurement

The measuring of mindfulness was performed using a standardized questionnaire of "Five-Factor Mindfulness Questionnaire".

3

Description

Level of obsession symptoms

Timepoint

The level of obsessive symptoms was measured at three time points. Immediately before the intervention, Immediately after the intervention, Two months after the intervention.

Method of measurement

The measuring of obsessive symptoms was performed using a standardized questionnaire of "Vancouver Algebraic Obsession Questionnaire".

Secondary outcomes

empty

Intervention groups

1

Description

Interventional group: Mindfulness is a method that can be conducted using various techniques, including watercolor painting. The components of each session include techniques such as practicing attention and consciously focusing on drawing tools (pencil, brush, cardboard, paint, and water container) using different feelings; Drawing the emotions, physical sensations and inner feelings at the moment, with a pencil with closed eyes and the next time with open eyes (once with the right hand and once with the left hand). meditation, practicing attention and awareness of mind-body connection, awareness of the movement of the brush in the water and the resulting sound, mindfulness of color diffusion in the water inside the glass and focusing on changes in breathing rhythm were other components of the sessions. Drawing the inner feeling in the moment and drawing body sensations such as heat, cold, pain, itching, and burning were also practiced. The content of mindfulness intervention sessions was taken from previous studies, however, painting techniques were used to implement the goals of each session. The tools used include all the necessary tools for watercolor painting, and the equipment used did not belong to any particular brand. In total, mindfulness intervention was conducted in 8 2-hour sessions. Two sessions were held every week and the interval between each session was three days.

Category

Rehabilitation

2

Description

Control group: The control group was on the waiting list

but received three placebo sessions including general descriptions of the characteristics of obsessive compulsive disorder. The content of the sessions included the introduction of the guidelines of diagnostic and statistical manual of mental disorders (DSM) on the symptoms of obsessive-compulsive disorder. Each session lasted 45 minutes. The sessions were held weekly and the interval between each meeting was one week.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Tamasha Counseling Center

Full name of responsible person

Dr Mohammadreza Abedi

Street address

Tamasha Center, Foroghi St.

City

Isfahan

Province

Isfahan

Postal code

۸۱۳۸۶۶۳۱۴۱

Phone

+98 31 3335 1577

Email

zarein40@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ardakan University

Full name of responsible person

Behzad Kafash

Street address

PO box 184, Ayatollah Khatami Blv, Azadi Sq.

City

Ardakan

Province

Yazd

Postal code

8951895491

Phone

+98 35 3390 3000

Fax

+98 35 3390 1020

Email

bkafash@ardakan.ac.ir

Web page address

<https://ardakan.ac.ir/page-Educational/fa/9/form/pld1624>

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ardakan University

Proportion provided by this source

100

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**

Ardakan University

Full name of responsible person

Saghar Ahmadi

Position

University student

Latest degree

Bachelor

Other areas of specialty/work

Psychology

Street address

Unit 217, Safir Complex, Next to Nilfroshzadeh Alley,
Azar st. Motahari, st

City

Isfahan

Province

Isfahan

Postal code

8133817639

Phone

+98 31 3236 5457

Email

sagharahmadi30@yahoo.com

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

Ardakan University

Full name of responsible person

Saghar Ahmadi

Position

University student

Latest degree

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+98 31 3236 5457

Email

sagharahmadi30@yahoo.com

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

Ardakan University

Full name of responsible person

Saghar Ahmadi

Position

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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

Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document

The output of statistical software can be shared after de-identifying participants

When the data will become available and for how long

Access period starts 6 months after the results are published

To whom data/document is available

The researchers

Under which criteria data/document could be used

Reasonable request

From where data/document is obtainable

Corresponding Author (Saghar Ahmadi)

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

Send email to correspondening author

Comments