

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jun 2026

The effectiveness of perceptual-motor exercises based on multiple sensory therapy in the elderly with cognitive impairments

Protocol summary

Study aim

The effectiveness of perceptual-motor exercises based on multiple sensory therapies in the elderly with cognitive impairments

Design

The statistical population includes all elderly people who are referred to the daily and outpatient welfare centers of Semnan based on incoming criteria. The sampling method will be available from the type of samples that will be unrandomly assigned to the test and control groups.

Settings and conduct

The place of study will be at the Semnan elderly day care center. The treatment program will be run in 12 sessions 3 days a week.

Participants/Inclusion and exclusion criteria

Inclusion criteria included age between 61-70 years, the elderly with mild cognitive impairment with an MMSE score between 21 and 24, and exclusion criteria including hearing and vision impairment, other sensory disorders, lack of cooperation of the elderly in treatment sessions, and evaluations before and after treatment intervention.

Intervention groups

Before starting treatment sessions, participants in a session are measured individually using study tools. Therapeutic interventions are then performed for the experimental group (integration of multiple sensory approach with perceptual-motor exercises). The control group receives routine occupational therapy treatments.

Main outcome variables

Montreal Cognitive Questionnaire, Wisconsin Card Matching Test, Body Image Questionnaire, Lipad Quality of Life Questionnaire

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171219037954N4**

Registration date: **2022-01-06, 1400/10/16**

Registration timing: **prospective**

Last update: **2022-01-06, 1400/10/16**

Update count: **0**

Registration date

2022-01-06, 1400/10/16

Registrant information

Name

Minasadat Mirshoja

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 23 3365 4180

Email address

msj5831@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-02-20, 1400/12/01

Expected recruitment end date

2022-12-22, 1401/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effectiveness of perceptual-motor exercises based on multiple sensory therapy in the elderly with cognitive impairments

Public title

Perceptual-motor exercises and multiple sensory therapy in the elderly with cognitive impairments

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Age between 61-70 years Elderly people with mild cognitive impairment with an MMSE score between 21 and 24

Exclusion criteria:

Existence of hearing and vision impairment Having other sensory disturbances that adversely affect interaction with objects and the environment Other psychiatric disorders, such as major depression, schizophrenia, dementia with doctor approval, and Beck Depression and Anxiety Tests Lack of elderly participation in treatment sessions and evaluations before and after treatment intervention

Age

From **60 years** old to **75 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **12**

Randomization (investigator's opinion)

N/A

Randomization description**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 the Semnan University of Medical science

Street address

Semnan, Basij Boulevard, the headquarters of Semnan University of Medical Sciences

City

semnan

Province

Semnan

Postal code

3514799442

Approval date

2021-12-29, 1400/10/08

Ethics committee reference number

IR.SEMUMS.REC.1400.237

Health conditions studied**1****Description of health condition studied**

Dementia

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Level of Cognitive

Timepoint

Before and after treatment sessions

Method of measurement

Montreal Cognitive Questionnaire, abbreviated cognitive test, Wisconsin card matching test

2**Description**

Quality of Life Questionnaire

Timepoint

Before and after treatment sessions

Method of measurement

Lipad Quality of Life Questionnaire

3**Description**

Physical perception

Timepoint

Before and after treatment sessions

Method of measurement

Body image questionnaire

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: Before the start of the treatment sessions, participants in one session are assessed individually using the Montreal Cognitive Questionnaire, Wisconsin Card Matching Test, Body Image Questionnaire, and Lipad Quality of Life Questionnaire. Therapeutic interventions for the experimental group (integration of multiple sensory approach with perceptual-motor exercises) are then performed for 12 sessions 3 days a week for 45 to 60 minutes.

Category

Rehabilitation

2**Description**

Control group: Before the start of the treatment sessions, participants in one session are assessed individually using the Montreal Cognitive Questionnaire, Wisconsin Card Matching Test, Body Image Questionnaire, and Lipid Quality of Life Questionnaire. The control group received routine occupational therapy treatments for 12 sessions 3 days a week for 45 to 60 minutes.

Category

Rehabilitation

Recruitment centers**1****Recruitment center****Name of recruitment center**

Centers for Health of the Elderly of Semnan City

Full name of responsible person

mina sadat mirshoja

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Semnan, Basij Boulevard, the headquarters of Semnan University of Medical Sciences

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Semnan University of Medical Sciences

Full name of responsible person

Dr. Majid Mir Mohammadkhani

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Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Semnan University of Medical Sciences

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**

Semnan University of Medical Sciences

Full name of responsible person

mina sadat mirshoja

Position

Academic Member

Latest degree

Master

Other areas of specialty/work

Occupational Therapy

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Full name of responsible person

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Position

Academic member

Latest degree

Master

Other areas of specialty/work

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Person responsible for updating data

Contact

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Full name of responsible person
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Latest degree
Master
Other areas of specialty/work
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

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

Statistical Analysis Plan

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

Informed Consent Form

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

Clinical Study Report

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

Analytic Code

Undecided - It is not yet known if there will be 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

Reproductive in the field of rehabilitation and behavioral science

When the data will become available and for how long

1years

To whom data/document is available

Researcher

Under which criteria data/document could be used

En Reproductive in the field of rehabilitation and behavioral science

From where data/document is obtainable

Semnan University of Medical Sciences

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

Supervision of the Student Research Committee of Semnan University of Medical Sciences - fulfillment of main investigator's obligations

Comments