

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jul 2026

Comparing the effectiveness of using virtual reality with a control group without using virtual reality on suppressing hand tremors in Parkinson's disease.

Protocol summary

Study aim

Determining the effectiveness of virtual reality compared to not using of virtual reality on hand tremors suppression in Parkinson's disease

Design

The randomized clinical trial, parallel groups, 15 patients will be enrolled in each arms of the study. Randomization will be conduct using RAND function in EXCEL.

Settings and conduct

Parkinson's patients referring to Omid Clinic in Hamedan will be included in the study. Blinding will not be performed.

Participants/Inclusion and exclusion criteria

Inclusion criterion: Parkinson's patients who have hand tremors. Non-inclusion criteria: Old age or any problem that causes the inability to use virtual reality technology

Intervention groups

Patients in the intervention group watch some images with a headset in cyberspace and perform hand movements. Control group will only watch some images without using headset.

Main outcome variables

Hand Tremors

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220413054525N1**

Registration date: **2022-07-17, 1401/04/26**

Registration timing: **prospective**

Last update: **2022-07-17, 1401/04/26**

Update count: **0**

Registration date

2022-07-17, 1401/04/26

Registrant information

Name

Seyedeh Marzieh Hosseini

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 81 3824 1964

Email address

ma.hosseini2522@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-08-23, 1401/06/01

Expected recruitment end date

2022-09-23, 1401/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effectiveness of using virtual reality with a control group without using virtual reality on suppressing hand tremors in Parkinson's disease.

Public title

The effect of virtual reality in Parkinson's tremor

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Parkinson's patients who affected by hand tremor

Exclusion criteria:

Elderly people who is not able to do Intervention

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 30

Randomization (investigator's opinion)

Randomized

Randomization description

In this study, simple randomization method will be used. A randomized list will be generated by RAND function in EXCEL. Patients will be allocated to intervention or control group according to the generated list.

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 Hamadan University of Medical Sciences

Street address

Fahmideh Street

City

Hamadan

Province

Hamadan

Postal code

6517838778

Approval date

2022-03-05, 1400/12/14

Ethics committee reference number

IR.UMSHA.REC.1400.954

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

Parkinson's disease

ICD-10 code

G20

ICD-10 code description

Parkinson's disease

Primary outcomes**1****Description**

hand tremors in Parkinson's disease

Timepoint

hand tremors will be measured at the beginning of the study (before the intervention) and after 10 training sessions during 5 weeks.

Method of measurement

IMU sensor

Secondary outcomes

empty

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

Intervention group: Patients in this group watch some images with a headset in cyberspace and perform hand movements.

Category

Treatment - Devices

2**Description**

Control group: Virtual reality technology will not be used for the control group, and patients in this group will watch images without wearing glasses.

Category

N/A

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

Omid clinic

Full name of responsible person

Shahir Mazaheri

Street address

Sabad-bafan Ave,

City

Hamedan

Province

Hamadan

Postal code

6517656878

Phone

+98 918 111 6858

Email

mazaheri@umsha.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Saeed Bashirian

Street address

Shahid Fahmideh Street

City

Hamadan

Province

Hamadan

Postal code

6571838678

Phone

+98 918 107 9443

Email

s_bashirian@yahoo.com

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

Yes

Title of funding source

Hamedan 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**

Hamedan University of Medical Sciences

Full name of responsible person

Seyedeh Marzieh Hosseini

Position

Postdoctoral researcher

Latest degree

Ph.D.

Other areas of specialty/work

Others

Street address

Shahid Fahmideh Street

City

Hamadan

Province

Hamadan

Postal code

6517838678

Phone

+98 81 3831 6215

Email

ma.hoseini2522@gmail.com

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Hamedan University of Medical Sciences

Full name of responsible person

Seyedeh Marzieh Hosseini

Position

Postdoctoral researcher

Latest degree

Ph.D.

Other areas of specialty/work

Others

Street address

Shahid Fahmideh Street

City

Hamadan

Province

Hamadan

Postal code

6517838678

Phone

+98 81 3831 6215

Email

ma.hoseini2522@gmail.com

Person responsible for updating data

Contact**Name of organization / entity**

Hamedan University of Medical Sciences

Full name of responsible person

Seyedeh Marzieh Hosseini

Position

Postdoctoral researcher

Latest degree

Ph.D.

Other areas of specialty/work

Others

Street address

Shahid Fahmideh Street

City

Hamadan

Province

Hamadan

Postal code

6517838678

Phone

+98 81 3831 6215

Email

ma.hoseini2522@gmail.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be 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