Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

effect of virtual reality on mobility in stroke in comparison with task oriented training P: Stroke I: Virtual reality training O= mobility C- task oriented training

Protocol summary

Summary

The aim of the study is to determine the effect of additional virtual reality on mobility, physical performance, balance and gait performance after stroke. The chronic stroke (more than 03month), either type and able to stand for 10 seconds will be included while patients having cognitive impairment and other pathologies will be excluded from study. The sample will be taken from physiotherapy department of Railway hospital Rawalpindi. The 60 patients will be enrolled and then randomly assigned through sealed envelope method into two groups. Virtual reality groups and task oriented training. The additional 15-20 minutes session will be provided to one group while both groups will receive task oriented training. The three games including the river rush, water leaks and reflex ridge will be provided to virtual reality group. The 03 days per week for 08 weeks training will be provided to both groups. The initial assessment will be recorded at baseline then after every 02 weeks till 08 weeks. The standardized assessment tool include Fugl-Meyer assessment for lower extremity, berg balance scale, timed up and go test, dynamic gait index and stroke specific quality of life tool will be used to analyses.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017071135010N1**
Registration date: **2017-08-16, 1396/05/25**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-08-16, 1396/05/25

Registrant information

Name
Arshad Malik
Name of organization / entity
Riphah International University
Country
Pakistan
Phone
0092515125162
Email address
arshad.nawaz@riphah.edu.pk

Recruitment status

Recruitment complete

Funding source

no

Expected recruitment start date

2017-07-31, 1396/05/09

Expected recruitment end date

2018-06-30, 1397/04/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

effect of virtual reality on mobility in stroke in comparison with task oriented training P: Stroke I: Virtual reality training O= mobility C- task oriented training

Public title

Virtual reality jn stroke

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: Stroke after 03 month of onset able to stand for 10 seconds; exclusion criteria: cognitive

impairment fracture

Age
From **40 years** old to **70 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **60**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
two groups, homogeneous , age 40-70 years

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Riphah scientific and ethical committee

Street address
Wish camppus, faiz ahmed faiz road

City
Rawalpindi

Postal code

Approval date
2016-02-07, 1394/11/18

Ethics committee reference number
00207

Health conditions studied

1

Description of health condition studied
Stroke

ICD-10 code
G46

ICD-10 code description
Vascular syndromes of brain in cerebrovascular diseases

Primary outcomes

1

Description
fugl-meyer performance

Timepoint
08 weeks

Method of measurement
subjective

2

Description
berg balance scale

Timepoint
08 weeks

Method of measurement
subjective scoring

Secondary outcomes

1

Description
Timed up and go test

Timepoint
08 weeks

Method of measurement
timer

2

Description
Stroke specific quality of life

Timepoint
08 weeks

Method of measurement
subjective

Intervention groups

1

Description
Intervention:Virtual reality additional protocol. 10 to 20 minutes

Category
Rehabilitation

2

Description
Control: Task oriented training

Category
Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center
Riphah Rehab and research center

Full name of responsible person
Shakeel Ahmed

Street address

Railway hospital

City

Rawalpindi

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

arshad

Full name of responsible person

arshad

Street address

railway hospital

City

rawalpindi

Grant name

Grant code / Reference number

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

Yes

Title of funding source

arshad

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Riphah international university

Full name of responsible person

arshad

Position

associate professor

Other areas of specialty/work

Street address

Railway hospital

City

Rawalpindi

Province

punjab

Postal code

Phone

0092515481826

Fax

Email

physiomalik1@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

riphah international university

Full name of responsible person

arshad

Position

associate

Other areas of specialty/work

Street address

railway hospital

City

rawalpindi

Province

punjab

Postal code

Phone

0092515481826

Fax

Email

physiomalik1@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Riphah International university

Full name of responsible person

arshad

Position

assocaite professor

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Street address

railway hospital

City

Rawalpindi

Postal code

Phone

+92 51 5481826

Fax

Email

physiomalik1@gmail.com

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty