

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

EFFECTS OF MODIFIED OTAGO EXERCISES VERSUS ACTION OBSERVATION THERAPY ON BALANCE AND POSTURAL STABILITY IN SUB-ACUTE STROKE

Protocol summary

Study aim

The objective of this study is to compare the effects of modified otago exercises and Action observation therapy on balance and postural stability in sub-acute stroke

Design

Randomized Clinical Trial, Single blinded study

Settings and conduct

This study will be conducted in Society hospital Lahore single blinded study , Participant will be blinded

Participants/Inclusion and exclusion criteria

Inclusion criteria: patients should be diagnosed with stroke; both male and female. Participant's Age will be between 45 to 60 years patients should be able to walk at least 10 meters. Patients should be able to understand and follow instruction, mini mental status examination (MMSE)>24. Exclusion criteria: If patient has any other neurologic disease other than stroke Any auditory or visual deficit that can affect data collection of this study Patient having any abnormality in the vestibular System. Patients having any other orthopedic conditions

Intervention groups

Group A: Experimental group (n=19) Group A will be treated by modified otago exercise program and Conventional physical therapy. A session of 40 minutes for 6 weeks including 3 sessions per week will be given to each patient. 10 minutes of conventional treatment will be given to every participant and then 30 minutes of modified otago exercise program. Experimental group (n=19) Group B will be treated by Action Observation Therapy and Conventional physical therapy 40 minutes session will be given 3 times per week for 6 weeks. Prior to Action observation therapy patient will receive session of conventional physical therapy of 10 minutes.

Main outcome variables

Balance Postural stability

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20240505061662N1**

Registration date: **2024-05-17, 1403/02/28**

Registration timing: **registered_while_recruiting**

Last update: **2024-05-17, 1403/02/28**

Update count: **0**

Registration date

2024-05-17, 1403/02/28

Registrant information

Name

Nazima Tariq

Name of organization / entity

Riphah International University

Country

Pakistan

Phone

+92 340 4900463

Email address

nazimatariq96@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-03-20, 1403/01/01

Expected recruitment end date

2024-06-15, 1403/03/26

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

EFFECTS OF MODIFIED OTAGO EXERCISES VERSUS ACTION OBSERVATION THERAPY ON BALANCE AND

POSTURAL STABILITY IN SUB-ACUTE STROKE	
Public title	EFFECTS OF MODIFIED OTAGO EXERCISES VERSUS ACTION OBSERVATION THERAPY ON BALANCE AND POSTURAL STABILITY IN SUB-ACUTE STROKE
Purpose	Treatment
Inclusion/Exclusion criteria	Inclusion criteria: Patients should be diagnosed with stroke Both male and female. Participant's Age will be between 45 to 60 years Patients should be able to walk at least 10 meters Patients should be able to understand and follow instruction, mini mental status examination (MMSE)>24 Exclusion criteria: If patient has any other neurologic disease other than stroke Any auditory or visual deficit that can affect data collection of this study Patient having any abnormality in the vestibular System. Patients having any other orthopedic conditions
Age	From 45 years old to 60 years old
Gender	Both
Phase	N/A
Groups that have been masked	Participant
Sample size	Target sample size: 38
Randomization (investigator's opinion)	Randomized
Randomization description	A total of 38 patients will be recruited according to convenience sampling into two intervention groups based on inclusion and exclusion criteria. Patients will be randomized through Lottery method into Group A (n = 19) and Group B (n = 19).
Blinding (investigator's opinion)	Single blinded
Blinding description	Participant will be blinded in this study
Placebo	Not used
Assignment	Parallel
Other design features	

Secondary Ids

empty

Ethics committees

1

Ethics committee	
Name of ethics committee	Ethics committee of Riphah international university
Street address	

Gulberg Lahore	
City	Lahore
Postal code	54660
Approval date	2024-05-05, 1403/02/16
Ethics committee reference number	F22C14G37036

Health conditions studied

1

Description of health condition studied	Sub-acute stroke
ICD-10 code	I64
ICD-10 code description	Stroke, not specified as haemorrhage or infarction

Primary outcomes

1

Description	Balance
Timepoint	Outcome will be measured after 6 weeks of intervention
Method of measurement	Berg balance scale will be using for pre and post assessment of variable

2

Description	Postural stability
Timepoint	postural stability will be measured after 6 weeks of treatment
Method of measurement	The postural Assessment Scale for Stroke patients (PASS)

Secondary outcomes

empty

Intervention groups

1

Description	Intervention group: Group A will be treated by modified ottago exercise program and Conventional physical therapy. A session of 40 minutes for 6 weeks including 3 sessions per week will be given to each patient. 10 minutes of coneventional treatment will be given to every participant and then 30 minutes of modified otago exercise program.
Category	Rehabilitation

2

Description

Intervention group: Group B will be treated by Action Observation Therapy and Conventional physical therapy 40 minutes session will be given 3 times per week for 6 weeks. Prior to Action observation therapy patient will receive session of conventional physical therapy of 10 minutes.

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Society Hospital

Full name of responsible person

Nazima Traiq

Street address

Nabipura, Lahore

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Lahore

Postal code

05480

Email

tariqnazima@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Riphah international university

Full name of responsible person

Dr Sana Riaz

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Sana.rcrs@riphah.edu.pk

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Riphah international university

Proportion provided by this source

100

Public or private sector

Private

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

Riphah international university

Full name of responsible person

Nazima Tariq

Position

Researcher

Latest degree

Master

Other areas of specialty/work

Physiotherapy

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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

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable