

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Sep 2026

Effect of Deep cross-friction message and Reciprocal inhibition among patients having spastic cerebral palsy

Protocol summary

Study aim

To find out the efficacy of Deep Cross-Friction Massage versus Reciprocal Inhibition on spasticity in cerebral palsy patients

Design

A Randomized, blinded clinical trial with parallel group design of 30 patients

Settings and conduct

The settings in which this study going to conduct is Pakistan Society for Rehabilitation of differently disabled and rising sun institute

Participants/Inclusion and exclusion criteria

Inclusion criteria: • Cerebral palsy patients both male and female.(Zhang and Xiong., 2021) • Age between 2 and 10 years.(Mahmood and Habibullah., 2020) • Muscle tone between I-IV (according to newly revised Ashworth scale)(Zhang and Xiong ., 2021) Exclusion criteria: • Organized diseases involving other organs such as heart, liver, and kidney. • Exclusion of leukodystrophy, infantile spinal muscular atrophy, genetic metabolic diseases such as phenylketonuria, congenital cretinism, and congenital hydrocephalus.

Intervention groups

• Techniques will be administered in two groups. • Group A for reciprocal inhibition and Group B for deep cross-friction massage. • Baseline treatment will include hot pack for 15 minutes and TENS for 20 minutes having intensity between 35 and 50 Hz. • Techniques will be applied for 3 days a week and a single session duration will be 20 minutes. • Total duration will be 4 weeks.

Main outcome variables

Spasticity

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210326050770N1**

Registration date: **2023-04-27, 1402/02/07**

Registration timing: **prospective**

Last update: **2023-04-27, 1402/02/07**

Update count: **0**

Registration date

2023-04-27, 1402/02/07

Registrant information

Name

Mohammad Abbas Jamil

Name of organization / entity

Rashid latif medical college

Country

Pakistan

Phone

+92 49 4510915

Email address

m.abbas@rlmc.edu.pk

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-04-30, 1402/02/10

Expected recruitment end date

2023-07-30, 1402/05/08

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Deep cross-friction message and Reciprocal inhibition among patients having spastic cerebral palsy

Public title

Effect of Deep cross-friction message and Reciprocal

inhibition among patients having spastic cerebral palsy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Cerebral palsy patients both male and female.(Zhang and Xiong., 2021) Age between 2 and 10 years.(Mahmood and Habibullah., 2020) Muscle tone between I-IV (according to newly revised Ashworth scale)(Zhang and Xiong2021)

Exclusion criteria:

Organized diseases involving other organs such as heart, liver, and kidney. Exclusion of leukodystrophy, infantile spinal muscular atrophy, genetic metabolic diseases such as phenylketonuria, congenital cretinism, and congenital hydrocephalus.

Age

From **2 years** old to **10 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

Allocation of patients in two equal groups by lottery method will be through random assignment. Patients were allocated into two groups i.e.; Group A and Group B, by lottery method. Lottery method is a type of simple random sampling. In this method, each participant of the trial is assigned a unique number. 60 cards were placed in a basket and thoroughly mixed. The slips are taken out randomly without looking at them and are placed into two sets. Total of 30 cards were taken out, 15 participants in each group.

Blinding (investigator's opinion)

Single blinded

Blinding description

The blinding is achieved by concealment in which the treatment allocation for each patient is not revealed to the patient. This is done to avoid biasness

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Institutional Board of Rashid Latif Medical College

Street address

35-Km Ferozepur road Lahore

City

Lahore

Postal code

54600

Approval date

2022-09-02, 1401/06/11

Ethics committee reference number

IRB/2022/040

Health conditions studied

1

Description of health condition studied

Spastic Cerebral Palsy

ICD-10 code

G80

ICD-10 code description

Cerebral palsy

Primary outcomes

1

Description

Spasticity

Timepoint

4 weeks

Method of measurement

Modified Ashworth scale

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group:

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Pakistan Society for Rehabilitation of Differently Abled

Full name of responsible person

Tanzeela Javeed

Street address

35-Km Ferozepur road Lahore

City

Lahore

Postal code
54600
Phone
+92 306 8122856
Email
tanzeela.javeed.256@gmail.com

Province
Punjab
Postal code
54600
Phone
+92 306 8122856
Email
tanzeela.javeed.256@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Rashid Latif Medical College
Full name of responsible person
Abbas Jamil
Street address
35-Km Ferozepur road Lahore
City
Lahore
Postal code
54600
Phone
+92 336 4204167
Email
m.abbas@rlmc.edu.pk
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Rashid Latif Medical College
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
Rashid Latif Medical College
Full name of responsible person
Tanzeela Javeed
Position
Physiotherapist
Latest degree
Bachelor
Other areas of specialty/work
Physiotherapy
Street address
35-Km Ferozepur road Lahore
City
Lahore

Person responsible for scientific inquiries

Contact

Name of organization / entity
Rashid Latif Medical College
Full name of responsible person
Abbas Jamil
Position
Assistant Professor
Latest degree
Bachelor
Other areas of specialty/work
Physiotherapy
Street address
35-Km Ferozepur road Lahore
City
Lahore
Province
Punjab
Postal code
54600
Phone
+92 336 4204167
Email
m.abbas@rlmc.edu.pk

Person responsible for updating data

Contact

Name of organization / entity
Rashid Latif Medical College
Full name of responsible person
Abbas Jamil
Position
Assistant Professor
Latest degree
Bachelor
Other areas of specialty/work
Physiotherapy
Street address
35-Km Ferozepur road Lahore
City
Lahore
Province
Punjab
Postal code
54600
Phone
+92 336 4204167
Email
m.abbas@rlmc.edu.pk

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