Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Effects Of Spider Cage Therapy On Motor Control Of Hemiplegic Cerebral Palsy Children

Protocol summary

Study aim
The objective of this study was to find out the effects of spider cage therapy on motor control of hemiplegic cerebral palsy children

Design
Study design was randomized clinical trials Sampling techniques non probability purposive sampling technique used and subject was allocated in two groups. Randomization was done by lottery method Study population were spastic hemiplegic cp Study Duration 4 moths Sample size 28 calculated by EPI tool

Settings and conduct
Mubarak medical complex new block sargodha Khawaja arshad hospital sargodha District head quarter sargodha

Participants/Inclusion and exclusion criteria
Inclusion criteria: Modified ashworth scale (grade 2) GMFCS level II.. Exclusion criteria: mutliple deformity, mentally retarded

Intervention groups
Group A receive spider cage therapy session was consist of 5 days in a week for 9 months. spider cage used to control motor function like kneeling, half kneeling, one leg standing and jumping. Gross motor function scale-88 (item c, d and e) used to determine motor abilities of cp child. in start of session general body warm up exercises like neck rotation, Elbow flexion and extension, knee extension and ankle rotation

Main outcome variables
Gross motor function scale 88 was used for categorize motor abilities of individual of cerebral palsy as baseline start of intervention. While Modified Ashworth scale was used for spasticity

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20230707058703N1**
Registration date: **2023-09-27, 1402/07/05**
Registration timing: **registered_while_recruiting**

Last update: **2023-09-27, 1402/07/05**
Update count: **0**

Registration date
2023-09-27, 1402/07/05

Registrant information

Name
Aleena Mubarak

Name of organization / entity
The university of faisalabad

Country
Pakistan

Phone
+92 48 3750816

Email address
aleenachaudhry42@gmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2023-09-24, 1402/07/02

Expected recruitment end date
2023-10-24, 1402/08/02

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Effects Of Spider Cage Therapy On Motor Control Of Hemiplegic Cerebral Palsy Children

Public title
Effects Of Spider Cage Therapy On Motor Control Of

Hemiplegic Cerebral Palsy Children

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Children diagnosed with hemiplegic cerebral palsy Age between 4-10 Both male and females Modified Ashworth Scale (Grade 2) Able to cooperate and motivated was include in the study Cp children who was able to understand and follow verbal commands was added in training and evaluation Gross motor function scale level: II

Exclusion criteria:

Children with severe disability, seizure instability waiting for surgery Mentally retarded Multiple contractures Multiple any bone diseases Multiple deformity Hemiplegic with meningitis

Age

From **4 years** old to **10 years** old

Gender

Both

Phase

1-2

Groups that have been masked

No information

Sample size

Target sample size: **28**

Randomization (investigator's opinion)

Randomized

Randomization description

According to inclusion criteria, all the enrolled participants would be allocated into two groups. Randomly allocated by lottery method. Participants would be randomly assigned to two groups one group was experimental group this group received spider cage therapy. While second group was control group received conventional therapy.

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

Ethical Review Commitee

Street address

University Avenue, Faisal town canal road, Faisalabad

City

Faisalabad

Postal code

38000

Approval date

2023-09-08, 1402/06/17

Ethics committee reference number

TUF/DR/SA/MSPP/2023/246

Health conditions studied

1

Description of health condition studied

Hemiplegic cerebral palsy children

ICD-10 code

Hemiplegic

ICD-10 code description

G80.2

Primary outcomes

1

Description

Gross motor function scale -88(item b, c and d)

Timepoint

Before intervention and 3,6 and 9 week after intervention

Method of measurement

Gross motor function scale-88 used to measure the motor ability of hemiplegic cerebral palsy childeren by using spider cage unit

Secondary outcomes

1

Description

Modified Ashworth scale

Timepoint

Baseline , 3,6 and 9 week

Method of measurement

Modified ashworth scale used to measure the spasticity of hemiplegic cerebral palsy children

Intervention groups

1

Description

“Intervention group:” This group received spider cage therapy for motor control like kneeling, half kneeling, one leg standing and jumping by using gross motor function scale. Five days in a week. Start with general body warm exercises then spider cage therapy

Category

Rehabilitation

2

Description

“Control group:” this group received conventional therapy in which stretching exercises were performed.

Before this general body warm exercise were performed thẹn stretching exercises. 5 days in a week.

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center
Mubarak medical complex new block sargodha

Full name of responsible person
Dr. alina chaudhry

Street address
Satellite town a block

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40100

Phone
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2

Recruitment center

Name of recruitment center
Khawaja arshad hospital sargodha

Full name of responsible person
Dr. farjad afzal

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3

Recruitment center

Name of recruitment center
District head quarter sargodha

Full name of responsible person
Dr.nazar hussain

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
The university of faisalabad

Full name of responsible person
Aleena mubarak

Street address
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Grant name
No grant name

Grant code / Reference number
No grant code

Is the source of funding the same sponsor organization/entity?
No

Title of funding source
Self funding

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
Other

Person responsible for general inquiries

Contact

Name of organization / entity
The university of faisalabad

Full name of responsible person
Aleena mubarak

Position
Student

Latest degree
Master

Other areas of specialty/work
Physiotherapy

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Effects of spider cage therapy on motor control of hemiplegic cerebral palsy children. A randomization clinical trial

When the data will become available and for how long

Data will be available for other people almost 6 months after the completion of study

To whom data/document is available

Data will be available for other people almost 6 months after the completion of study

Under which criteria data/document could be used

The data/document could be used by communicating with the principle investigator Aleena Mubarak gmail: aleenachaudhry42@gmail.com

From where data/document is obtainable

Aleena Mubarak gmail: aleenachaudhry42@gmail.com

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

The data/document could be used by communicating with the principle investigator Aleena Mubarak gmail: aleenachaudhry42@gmail.com

Comments