Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Effect of Constraint-Induced Movement Therapy along with conventional therapy and conventional therapy alone on upper extremity spasticity in children with Cerebral Palsy.

Protocol summary

Study aim
To determine the effect of constraint-induced movement therapy along with conventional therapy and conventional therapy alone on upper extremity spasticity in children with cerebral palsy.

Design
Quasi-Experimental Study

Settings and conduct
Faisal Hospital Faisalabad Children Hospital Faisalabad Day Care Centre Faisalabad

Participants/Inclusion and exclusion criteria
Inclusion Criteria: Age 4-12 years. Both genders. Children with diagnosed upper extremity spastic cerebral palsy. Children with minimum grade 1+ on modified Ashworth scale. Exclusion criteria: Children with Intellectual disability Children who had concomitant sight and hearing disabilities Children with previous six months history of hand surgery. Children with uncontrolled seizures Children with severe health problems not typically associated with CP Children with contractures that limit functional arm and hand use

Intervention groups
Treatment will be provided three times a week for 4 weeks. Group A will receive constraint-induced movement therapy along with conventional therapy.

Main outcome variables
Modified Ashworth Scale Quality of Life Questionnaire for Children (CP QOL-Child)

General information

Reason for update

Acronym
CIMTCP

IRCT registration information
IRCT registration number: **IRCT20220411054500N1**
Registration date: **2022-04-29, 1401/02/09**
Registration timing: **registered_while_recruiting**

Last update: **2022-04-29, 1401/02/09**
Update count: **0**

Registration date
2022-04-29, 1401/02/09

Registrant information

Name
Tehreem Jameel

Name of organization / entity
Government College University

Country
Pakistan

Phone
+92 313 8113973

Email address
tehreemclick123@gmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2022-04-01, 1401/01/12

Expected recruitment end date
2022-07-01, 1401/04/10

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Effect of Constraint-Induced Movement Therapy along with conventional therapy and conventional therapy alone on upper extremity spasticity in children with Cerebral Palsy.

Public title
Effect of Constraint-Induced Movement Therapy along with conventional therapy and conventional therapy alone on upper extremity spasticity in children with Cerebral Palsy.
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Age 4-12 years Both genders. Children with diagnosed upper extremity spastic cerebral palsy. Children with minimum grade 1+ on modified ashworth scale
Exclusion criteria:
Children with Intellectual disability Children who had concomitent sight and hearing disabilities Children with previous six months history of hand surgery. Children with uncontrolled seizuresChildren with severe health problems not typically associated with CP Children with contractures that limited functional arm and hand use
Age
From **4 years** old to **12 years** old
Gender
Both

Phase
3
Groups that have been masked
No information
Sample size
Target sample size: **46**
Randomization (investigator's opinion)
N/A
Randomization description
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 committee of Faisal Institute of Health Sciences
Street address
673-A, Peoples Colony, Canal Road, Faisalabad.
City
Faisalabad
Postal code
48395
Approval date
2022-03-20, 1400/12/29
Ethics committee reference number
FIHS/DR/DPT/292

Health conditions studied

1

Description of health condition studied
Cerebral palsy (CP) is a disorder characterized by abnormal muscle tone, postural disabilities and movement disorders due to predominant motor syndrome. Constraint-induced movement therapy (CIMT) is referred to be an effective intervention that aid to improve motor functioning in hemiplegic cerebral palsy.
ICD-10 code
G80.9
ICD-10 code description
G80.9 is the ICD-10 code for Cerebral palsy.

Primary outcomes

1

Description
The modified Ashworth scale will be used as the primary outcome variable to assess the level of spasticity.
Timepoint
3 timepoints including baseline measurement (week 0), 2nd week post treatment and 4th week post treatment.
Method of measurement
The modified Ashworth scale will be used to measure level of spasticity.

Secondary outcomes

1

Description
Quality of Life Questionnaire for Children (CP QOL-Child) is a secondary outcome variable that is useful for evaluating Quality of Life.
Timepoint
Timepoint include 3 points including baseline measurement (week 0), 2nd week post treatment and 4th week post treatment.
Method of measurement
The CP QOL-Child is used to assess the quality of life of children aged 4-12 years

Intervention groups

1

Description
Intervention group : Constraint Induced Movement Therapy and Conventional Therapy Group
Category
Rehabilitation

2

Description

Control group: Conventional therapy group

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Faisal Hospital Faisalabad

Full name of responsible person

Dr. Rameesha Tahir

Street address

673-A, Peoples Colony, Canal Road, Faisalabad.

City

Faisalabad

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48395

Phone

+92 41 8536999

Email

fihsfsd@outlook.com

2

Recruitment center

Name of recruitment center

Children Hospital & Institute of Child Health Faisalabad

Full name of responsible person

Dr. Umair

Street address

GC university,، Jhang road، New Campus Dr, Faisalabad

City

Faisalabad

Postal code

48395

Phone

+92 41 9203065

Email

hello@instacare.pk

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Faisal Institute of Health Sciences

Full name of responsible person

Dr. Qurat ul Ain

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Email

fihsfsd@outlook.com

Grant name

Grant code / Reference number

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

No

Title of funding source

Self financed

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

Faisal Institute of Health Sciences

Full name of responsible person

Dr. Tehreem Jameel

Position

Priniciple Investigator/Student

Latest degree

Medical doctor

Other areas of specialty/work

Physiotherapy

Street address

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Position

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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
Undecided - It is not yet known if there will be a plan to make this available
Statistical Analysis Plan
Not applicable
Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available
Clinical Study Report
Not applicable
Analytic Code
Not applicable
Data Dictionary
Not applicable