Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Investigating the effects of wrist kinesio taping on hand function in children with spastic diplegic cerebral palsy

Protocol summary

Summary

Limited hand function is a characteristic of the movement disorders in children with Cerebral Palsy which leads to disability in performing activities of daily living, work and play. Materials and methods : In this Randomized Clinical Trial and single-blind study , 26 children (3-6 years old) with spastic diplegic cerebral palsy were selected by convenient and simple sampling and randomly divided into two intervention and control groups. During the study for 12 days, Control group received traditional occupational therapy treatment (Neuro-Developmental Treatment) and intervention group received wrist KinesioTaping, moreover. Assessment tools were QUEST for evaluating quality of upper extremity skills and Modified Ashworth Scale for assessing spasticity of wrist, before and after intervention, in both groups. Furthermore, in order to determining the permanency of Kinesio Taping effects, assessments were repeated in intervention group, two weeks later.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201112208470N1**
Registration date: **2012-02-04, 1390/11/15**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2012-02-04, 1390/11/15

Registrant information

Name

Roya Sadeghi Moghaddam

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 2222 7124

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2011-02-01, 1389/11/12

Expected recruitment end date

2011-05-01, 1390/02/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the effects of wrist kinesio taping on hand function in children with spastic diplegic cerebral palsy

Public title

Investigating the effects of wrist kinesio taping on hand function in children with spastic diplegic cerebral palsy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Complete consent for participation in research project; Diagnosis of spastic diplegic cerebral palsy; Age between 3-6 years; Wrist spasticity score was 1-2 according to modified ashworth scale; No contracture in upper extremities; No history of allergy or skin problems; No mental retardation and having good cognitive and awareness state to cooperate during the assessment; Not receiving any other treatment that may

affect hand function during the study. Exclusion criteria: Unwillingness to participate in the present study; Develop of skin allergy; Orthopaedic conditions during the study.

Age
From **3 years** old to **6 years** old

Gender
Male

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **26**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Tehran University of Medical Sciences

Street address
Rehabilitation faculty of Tehran University of Medical Sciences,Nezam alley, Shahnazari street, Mirdamad blvd.

City
Tehran

Postal code

Approval date
2011-11-21, 1390/08/30

Ethics committee reference number
1509/130/90

Health conditions studied

1

Description of health condition studied
spastic diplegic cerebral palsy

ICD-10 code
G80.1

ICD-10 code description
Spastic diplegic cerebral palsy

Primary outcomes

1

Description
Hand function

Timepoint
Before and after intervention and 2weeks after study

Method of measurement
Quality of Upper Extremity Skills Test

Secondary outcomes

1

Description
Spasticity of wrist flexor muscles

Timepoint
Before and after intervention and 2weeks after study

Method of measurement
Modified Ashworth Scale

Intervention groups

1

Description
Control group received traditional occupational therapy treatment (2 sessions every week).

Category
Rehabilitation

2

Description
Intervention group received wrist kinesio taping for 12 days in addition to traditional occupational therapy treatment (2sessions every week)

Category
Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center
Vesal rehabilitation center

Full name of responsible person
Roya Sadeghi Moghaddam

Street address
No.47, Shahid Salmanian St., Imamreza Blvd., Azadegan Sq.

City
Karaj

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Deputy of research,Tehran University of Medical Sciences
Full name of responsible person
Dr.Akbar Fotouhi
Street address
Keshavarz Blvd., Ghods street
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Deputy of research,Tehran University of Medical Sciences
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
Tehran University of Medical Sciences
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Position
Master of science in Occupational therapy
Other areas of specialty/work
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Person responsible for updating data

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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