

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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

Full name of responsible person

Roya Sadeghi Moghaddam

Position

Master of science in Occupational therapy

Other areas of specialty/work**Street address**

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Other areas of specialty/work**Street address****City****Postal code****Phone****Fax****Email**

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Web page address**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*