Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

The Immediate Effect of Spiral Kinesiotaping on In-toeing Gait Pattern in Children with Spastic Diplegic Cerebral Palsy

Protocol summary

Summary

In this quasi-experimental study we plan to compare In-toeing gait pattern before and after intervention.we Selected 15 children with spastic diplegia cerebral palsy who can walk independently and their age are between 6-10 years. In this research, our treatment is kinesiotape and we use 3-Dimentional motion analysis system for assessment. Each sample evaluate in 2 sessions (before and immediately after applying of KT). The variables in this study are: joint kinematics (sagittal, transverse and frontal planes), speed and stride length. Kinesiotape is used in spiral shape that start at the lateral maleolous and fix it at iliac crest of opposite site.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017020428447N2**
Registration date: **2017-02-27, 1395/12/09**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-02-27, 1395/12/09

Registrant information

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Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Science

Expected recruitment start date

2017-01-19, 1395/10/30

Expected recruitment end date

2017-03-20, 1395/12/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Immediate Effect of Spiral Kinesiotaping on In-toeing Gait Pattern in Children with Spastic Diplegic Cerebral Palsy

Public title

The Immediate Effect of Spiral Kinesiotaping on In-toeing Gait Pattern in Children with Spastic Diplegic Cerebral Palsy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Bilateral spastic cerebral palsy; Intoeing gait Pattern; 6-10years; With level 1 or 2 of GMFCS; Can follow verbal command. Exclusion criteria: Having Orthopedic surgery or injections of botulinum toxin in the past 6 months;Lack of parental consent; Allergy to kinesiotape; Failure to follow verbal commands; Standing or walking with difficulty and problems without shoe or orthosis; Blindness and deafness; History of fracture in lower limb; Infections and any other conditions that affect the anatomical structures; Subluxation or dislocation of each of the lower limb joints.

Age

No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **15**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee Shiraz University of Medical Science
Street address
Zand Ave., Central Building of Shiraz University of Medical Sciences
City
Shiraz
Postal code
Approval date
2017-01-22, 1395/11/03
Ethics committee reference number
IR.SUMS.REC.1395.170

Health conditions studied

1

Description of health condition studied
spastic cerebral palsy
ICD-10 code
G80.1
ICD-10 code description
Congenital spastic paralysis (cerebral)Spastic cerebral palsy NOS

Primary outcomes

1

Description
joints kinematic(sagittal,frontal & transverse plane)
Timepoint
before and immediately after applying KT
Method of measurement
3D motion analysis

2

Description
speed
Timepoint
before and immediately after applying KT
Method of measurement
motion analysis(meter/second)

3

Description
stride length
Timepoint
before and immediately after applying KT
Method of measurement
motion analysis(meter)

Secondary outcomes

empty

Intervention groups

1

Description
In this research kinesiotape use for treatment and 3D motion analysis system use for assessment. Each sample evaluate in 2 session(before and after of applying of KT). Kinesiotape use spiral shape (it started at the lateral malleolus and fix it at iliac crest of opposite site
Category
Rehabilitation

Recruitment centers

1

Recruitment center
Name of recruitment center
Education of Exceptional Children
Full name of responsible person
Ali Maktab dar
Street address
Adjacent to the Directorate General of Schools Renovation, Moadel Ave., Haft tir Ave. Shiraz
City
Shiraz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Shiraz University of

Medical Scince

Full name of responsible person

Seyed Basir Hashemi

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Vice-Chancellor for Research, Shiraz University of Medical Sciences, Zand Blvd., Shiraz

City

Shiraz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, Shiraz University of Medical Scince

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

SUMS School of Rehabilitation Science

Full name of responsible person

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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