Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

The Effectiveness Of Kinesio taping On The Electrodiagnostic Parameters Of Median Nerve And Hand Functional Performance In Carpal Tunnel Syndrome

Protocol summary

Summary

Objective: Kinesio taping electrodiagnostic parameters to determine the effect on the median nerve and functional performance in patients with carpal tunnel syndrome. Study design: randomized, interventional Inclusion criteria: age range 50-30 years, patients with electro-diagnostic parameters, phalan or Phalen's test is positive, the patient has one of the symptoms of pain, numbness in the fingers three and a half foreign, lack of equipment in the last 3 months, minimum and maximum visual analog scale pain scores were 3 and 8. Exclusion criteria: patients with a history of trauma or surgery on the wrist, skin allergies, pregnancy causes carpal tunnel syndrome, carpal tunnel syndrome for alcoholism, carpal tunnel syndrome due to systemic abnormalities. Study population and sample size: Patients with carpal tunnel syndrome who were referred to physiotherapy clinics of Semnan University of Medical Sciences in 2016, the sample size of 30 patients in the two case and control group. The study interventions: first, the electrodiagnostic nerve conduction measurements. Boston(BQ) then completed questionnaires and functional performance will be assessed the maximum power pinching and griping. Taping for 2 weeks for patients done. Of all patients in the two groups wanted to be that referred to renew taping every 2 days for them to be done. There is no intervention in the control group. All the patients after 24 and 48 hours and also re-examined two weeks after taping.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016040825732N5**
Registration date: **2016-04-15, 1395/01/27**
Registration timing: **registered_while_recruiting**
Last update:
Update count: **0**

Registration date

2016-04-15, 1395/01/27

Registrant information

Name

Alireza Emadi

Name of organization / entity

Semnan University of Medical Sciences, Semnan, Iran

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research and Technology Semnan University of Medical Sciences

Expected recruitment start date

2016-03-20, 1395/01/01

Expected recruitment end date

2017-03-19, 1395/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effectiveness Of Kinesio taping On The Electrodiagnostic Parameters Of Median Nerve And Hand Functional Performance In Carpal Tunnel Syndrome

Public title

The Effectiveness Of Kinesio taping On The Electrodiagnostic Parameters Of Median Nerve And Hand Functional Performance In Carpal Tunnel Syndrome

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: age range 50-30 years, all patients with positive findings electrodiagnostic parameters in the range have mild or moderate, phalan or Phalen's test is positive, the patient must be one of the symptoms of pain, numbness in three and a half finger foreigners have, in the past three months have not received any type of treatment is physical therapy, pain visual analog scale minimum and maximum scores were 3 and 8. Exclusion criteria: patients with a history of trauma or median nerve in the wrist or a history of previous surgery, if a person's skin where the adhesive is to be sensitive, pregnancy is caused carpal tunnel syndrome, carpal tunnel syndrome are caused by alcoholism syndrome carpal tunnel due to systemic abnormalities such as thyroid disease, diabetes mellitus, rheumatoid arthritis is caused, clearance work to treat patients who have received during the past two months.

Age

From **30 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

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

Ethics Committee, Vice Chancellor for Research and Technology, Semnan University of Medical Sciences

Street address

Semnan, Blvd Basij, Semnan University of Medical Sciences

City

Semnan

Postal code

3514799442

Approval date

2016-03-15, 1394/12/25

Ethics committee reference number

IR.SEMUMS.REC.1394.190

Health conditions studied

1

Description of health condition studied

Carpal Tunnel Syndrome

ICD-10 code

G56.1

ICD-10 code description

Other lesions of median nerve

Primary outcomes

1

Description

Muscle strength

Timepoint

After 24 and 48 hours as well as 2 weeks after taping

Method of measurement

Pneumatic Squeeze bulb dynamometer digital dynamometer Model Baseline America - Hydraulic pinch gauge Digital dynamometer model Baseline (JAMAR) America

2

Description

Hand functional operations

Timepoint

After 24 and 48 hours as well as 2 weeks after taping

Method of measurement

NIHON KOHDEN ECG machine model madein Germany

Secondary outcomes

empty

Intervention groups

1

Description

There is no intervention in the control group. All the patients after 24 and 48 hours and 2 weeks after taping also re-examined.

Category

Rehabilitation

2

Description

First, electrodiagnostic nerve conduction measurements in the intervention group. then completed Boston(BQ) questionnaires and functional performance will be

assessed the maximum power pinching and griping. Taping for 2 weeks for patients done. Of all patients in the two groups wanted to be that referred to renew taping every 2 days for them to be done. All the patients after 24 and 48 hours and 2 weeks after taping also re-examined.

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Neuromuscular Rehabilitation Research Center, Semnan University of Medical Sciences

Full name of responsible person

Atefeh Aminianfar

Street address

Semnan, Ghods Blvd, Neuromuscular Rehabilitation Research Center, Semnan University of Medical Sciences

City

Semnan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy of Research and Technology, Semnan University of Medical Sciences

Full name of responsible person

MohammadReza Asgari

Street address

Semnan, Basij Blvd, Deputy of Research and Technology, Semnan University of Medical Sciences

City

Semnan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Deputy of Research and Technology, Semnan 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

Semnan University of Medical Sciences

Full name of responsible person

Atefeh Aminianfar

Position

Ph.D Physiotherapy

Other areas of specialty/work

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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