Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Evaluating Therapeutic effects of Wrist splint in terms of EMG-NCV in patients with Carpal Tunnel Syndrome (CTS) under treatment with Ibuprofen

Protocol summary

Summary

The purpose of this study was to evaluate the therapeutic effects of Wrist Splint in patients with carpal tunnel syndrome (CTS) treated with ibuprofen from EMG-NCV perspectives in patients referred to the Neurology Clinic of Vali-e-Asr hospital in Birjand. The sample size of this study is 40 people including 20 case and 20 control subjects. The main inclusion criteria for the study is having carpal tunnel syndrome and all patients with carpal tunnel syndrome caused by pregnancy, tumors and fractures (main exclusion criteria) will be excluded. The study duration is 6 weeks. Before and after the intervention the EMG-NCV study will be carried out on all patients in order to monitor the consequences of the study (including nerve conduction velocity, nerve conduction amplitude and nerve conduction latency) .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014111018063N2**
Registration date: **2014-12-19, 1393/09/28**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-12-19, 1393/09/28

Registrant information

Name

Ali Rajabpour Sanati

Name of organization / entity

Birjand University of Medical Sciences

Country

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Phone

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Recruitment status

Recruitment complete

Funding source

Vice-chancellor for research - Birjand University of Medical Sciences

Expected recruitment start date

2014-11-22, 1393/09/01

Expected recruitment end date

2014-12-22, 1393/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating Therapeutic effects of Wrist splint in terms of EMG-NCV in patients with Carpal Tunnel Syndrome (CTS) under treatment with Ibuprofen

Public title

Evaluating Therapeutic effects of Wrist splint in patients with Carpal Tunnel Syndrome under treatment with Ibuprofen

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Personal consent for participation; not being pregnant or having pregnancy-induced carpal tunnel syndrome; not having carpal tunnel syndrome caused by trauma such as wrist fractures or tumor disorders; not suffering from spinal cord injuries or organic upper extremity disorders; no addiction;

Exclusion criteria:Not willing for re-examination and performing laboratory tests; the inclusion of a specific organic pathology such as cancer, tumors, fractures, collagen vascular diseases such as RA, metabolic diseases such as diabetes, thyroid disorders, or other problems that interfere with the study

Age
No age limit

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **40**

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
Birjand University of Medical Sciences

Street address
Moallem Blvd, Birjand, Iran

City
Birjand

Postal code

Approval date
2014-09-06, 1393/06/15

Ethics committee reference number
1393-06-02

Health conditions studied

1

Description of health condition studied
Carpal Tunnel Syndrome

ICD-10 code
G56

ICD-10 code description
Mononeuropathies of upper limb

Primary outcomes

1

Description
velocity of nerve conduction

Timepoint
before intervention - after intervention

Method of measurement
EMG-NCV

2

Description
amplitude of nerve conduction

Timepoint
before intervention - after intervention

Method of measurement
EMG-NCV

3

Description
latency (s) of nerve conduction

Timepoint
before intervention - after intervention

Method of measurement
EMG-NCV

4

Description
latency (m) of nerve conduction

Timepoint
before intervention - after intervention

Method of measurement
EMG-NCV

Secondary outcomes

empty

Intervention groups

1

Description
Control group:treated with Ibuprofen 800 mg twice a day for 6 weeks

Category
Treatment - Drugs

2

Description
Case group: treated with Ibuprofen 800 mg twice a day with wrist splint for 6 weeks.

Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Vali-e-Asr Hospital

Full name of responsible person
Ali Rajabpour Sanati

Street address
Moallem Blvd, Birjand, Iran

City
Birjand

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice-chancellor for research - Birjand University of Medical Sciences

Full name of responsible person
Dr. Zarban

Street address
Moallem Blvd, Birjand, Iran

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Birjand

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 - Birjand 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
Birjand University of Medical Sciences

Full name of responsible person
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Position
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Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

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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