

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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

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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

City

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

Ali Rajabpour Sanati

Position

Medical Student

Other areas of specialty/work

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Person responsible for scientific inquiries

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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