

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of the effect of static and dynamic splints on pain and functional abilities of hand in women with De Quervain syndrome: a randomized clinical trial

Protocol summary

Summary

Objectives: To assess the effect of static and dynamic splints on pain and functional abilities of hand in women with De Quervain syndrome. Design: a randomized clinical trial. Setting and conduct: The eligible women with De Quervain syndrome who will refer to School of Rehabilitation during the study period will be enrolled into the trial. Inclusion criteria: Women with De Quervain syndrome; age of 18 to 25 years; ability to take objects; literate. Exclusion criteria: history of hand surgery; hand deformity; skin problem in hand. Intervention group 1: Fixing static splints on the hand for 6 months. Intervention group 2: Fixing dynamic splints on the hand for 6 months. Primary outcome: (a) measuring pain by standard questionnaire 6 months after intervention; (b) measuring inability by standard questionnaire 6 months after intervention. Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Not possible.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201702209014N144**

Registration date: **2017-03-06, 1395/12/16**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2017-03-06, 1395/12/16

Registrant information

Name

Jalal Poorolajal

Name of organization / entity

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University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research the Technology, Hamadan
University of Medical Sciences

Expected recruitment start date

2017-03-17, 1395/12/27

Expected recruitment end date

2017-11-18, 1396/08/27

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of static and dynamic splints on pain and functional abilities of hand in women with De Quervain syndrome: a randomized clinical trial

Public title

Comparison of the effect of static and dynamic splints on pain and functional abilities of hand in women with De Quervain syndrome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Women with De Quervain syndrome; age of 18 to 25 years; ability to take objects; literate.

Exclusion criteria: history of hand surgery; hand deformity; skin problem in hand.

Age

No age limit

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 24

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Not possible.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

Street address

Vice-chancellor for Research the Technology,
Hamadan University of Medical Sciences, Shahid
Fahmideh Ave

City

Hamadan

Postal code

6517838695

Approval date

2017-01-28, 1395/11/09

Ethics committee reference number

IR.UMSHA.REC.1395.500

Health conditions studied

1

Description of health condition studied

De Quervain syndrome

ICD-10 code

M65.4

ICD-10 code description

Radial styloid tenosynovitis [de Quervain]

Primary outcomes

1

Description

measuring pain

Timepoint

6 months after intervention

Method of measurement

by standard questionnaire

2

Description

measuring inability

Timepoint

6 months after intervention

Method of measurement

by standard questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: Fixing static splints on the hand for 6 months.

Category

Treatment - Drugs

2

Description

Intervention group 2: Fixing dynamic splints on the hand for 6 months.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Rehabilitation

Full name of responsible person

Dr Farzad Farmani

Street address

School of Rehabilitation, Hamadan University of
Medical Sciences, Shahid Fahmideh Ave.

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for Research the Technology,
Hamadan University of Medical Sciences

Full name of responsible person

Dr Saeid Bashirian

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Hamadan University of Medical Sciences, Shahid
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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 the Technology, Hamadan
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**

School of Rehabilitation

Full name of responsible person

Dr Farzad Farmani

Position

Specialist in Orthosis and Prosthesis

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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