Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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

Department of Epidemiology & Biostatistics Hamadan 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.

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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 Fahmideh Ave

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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
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Specialist in Orthosis and Prosthesis

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