Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Evaluation of the Effect of autologous blood transfusion on the treatment of De Quervain's tenosynovitis

Protocol summary

Summary

Objectives: Tenosynovitis of the first extensor compartment is known as De Quervain's disease. While transfusion of autologous blood has been widely used in the treatment of tendinopathy and considerable effect of this treatment has been reported in some investigations, no study has evaluated the effect of autologous blood transfusion on De Quervain's disease. In this study we aim to evaluate the therapeutic effect of autologous blood transfusion on De Quervain's disease. Design: Randomized controlled clinical trial Setting and conduct: A total number of 30 patients with confirmed diagnosis of De Quervain's disease made by a hand surgeon will be equally divided into intervention and control group. Inclusion criteria: Diagnosis of De Quervain's disease; age of 18 to 60 years; no history of rheumatic disorder such as rheumatoid arthritis; no history of depression and other mental disorders; no history of previous intervention for the treatment of De Quervain's disease. Exclusion criteria: loss of follow-up. Main outcome measures: Pain and disability level of the disease will be evaluated using visual analog scale and Persian version of Disabilities of the Arm, Shoulder and Hand (DASH) score once before the start of intervention and once 6 weeks after the intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017081635382N4**
Registration date: **2017-08-16, 1396/05/25**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2017-08-16, 1396/05/25

Registrant information

Name
Farid Najd Mazhar
Name of organization / entity
Shafa orthopedic hospital, Iran University of Medical Sciences
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Vice chancellor For research of Iran University of Medical Sciences

Expected recruitment start date

2017-09-23, 1396/07/01

Expected recruitment end date

2018-09-23, 1397/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the Effect of autologous blood transfusion on the treatment of De Quervain's tenosynovitis

Public title

Effect of autologous blood transfusion on the treatment of De Quervain's disease

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Diagnosis of De Quervain's disease; age of 18 to 60 years; no history of rheumatic disorder

such as rheumatoid arthritis; no history of depression and other mental disorders; no history of previous intervention for the treatment of De Quervain's disease. Exclusion criteria: loss of follow-up.

Age
From **18 years** old to **60 years** old

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **30**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Iran University of Medical Sciences

Street address
Next to Milad tower, Hammat Highway

City
Tehran

Postal code

Approval date
2010-09-23, 1389/07/01

Ethics committee reference number
-

Health conditions studied

1

Description of health condition studied
De Quervain's

ICD-10 code
M65.4

ICD-10 code description
Spontaneous rupture of synovium and tendon

Primary outcomes

1

Description
Pain

Timepoint
Before the start of the intervention and after the end of the intervention

Method of measurement
visual analog scale

2

Description
Disability

Timepoint
Before the start of the intervention and after the end of the intervention

Method of measurement
Disabilities of the Arm, Shoulder and Hand (DASH) score

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: In this group of patients 1 CC autologous blood of the patient will be transfused at the site of affected tendon.

Category
Treatment - Other

2

Description
Control group: In this group of patients placebo (normal saline) will be injected instead of autologous blood transfusion.

Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Shafa Orthopedic Hospital

Full name of responsible person
Farid Najd Mazhar

Street address
Shafa Orthopedic Hospital, Mojahedin Islam Avenue, Shohada Square

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice Chancellor for research of Iran University of Medical Sciences

Full name of responsible person
Morteza Naserbakht

Street address
Next to Milad tower, Hemmat Highway.

City
Tehran

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 of Iran 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
Shafa Orthopedic Hospital

Full name of responsible person
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Position
Orthopedic surgeon/Science committee

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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