

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

Investigating the effect of magnet therapy in improving pain and shoulder joint function in patient with impingement syndrome

Protocol summary

Study aim

Investigating the effect of magnet therapy in improving shoulder joint pain and function in patients with shoulder impingement syndrome who referred to the physical medicine and rehabilitation clinic of Isfahan University of Medical Sciences.

Design

The sample size required for the study was estimated to be 33 patients in each group, and for more certainty, 35 patients in each group will be studied. Sampling is done in an easy way and randomization of patients is done using random allocation software. In this software, the total sample size and the number of groups are entered into the software.

Settings and conduct

This is a single-blind clinical trial study that was conducted in 1402 at Amin Hospital in Isfahan. The target population of the study will be patients with shoulder impingement syndrome referring to the mentioned hospital.

Participants/Inclusion and exclusion criteria

Inclusion criteria A patient with shoulder joint impingement syndrome - At least one month has passed since the patient's symptoms. - Age range from 18 to 65 years Informed consent of the patient to enter the study
Exit criteria - Changing the treatment technique for various reasons during the study - Non-cooperation of the patient during the treatment period - Performing parallel treatments by the patient - Lack of follow-up visits of the patient to perform intervention or to evaluate the outcome of the treatment

Intervention groups

In this plan, 70 patients with shoulder joint impingement syndrome are divided into two groups. In the first group, drug treatment and exercise and magnet therapy are used, and in the second group, drug treatment and exercise are used for treatment.

Main outcome variables

Reduce shoulder pain; Increase shoulder range of motion

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20231024059830N1**

Registration date: **2023-10-29, 1402/08/07**

Registration timing: **prospective**

Last update: **2023-10-29, 1402/08/07**

Update count: **0**

Registration date

2023-10-29, 1402/08/07

Registrant information

Name

najmeh askarianfard

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 3265 6319

Email address

najmeaskarianfard93@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-12-22, 1402/10/01

Expected recruitment end date

2025-12-22, 1404/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the effect of magnet therapy in improving pain and shoulder joint function in patient with impingement syndrome

Public title

shoulder in patient with impingement syndrome

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

A patient with shoulder joint impingement syndrome who has pain in the shoulder area and has limitations in active shoulder abduction between 60 and 120 degrees and has referred to physical medicine and rehabilitation clinics affiliated to Isfahan University of Medical Sciences. Based on the criteria of the reference book Frontera and by physical medicine specialist At least one month has passed since the patient's symptoms. Based on similar studies, this criterion has been set and the intention is that chronic cases will not be included in this study. Age range from 18 to 65 years Informed consent of the patient to enter the study

Exclusion criteria:

Changing the treatment technique for various reasons during the study. We mean changing the technique by the patient himself (for example, going to another doctor and receiving another modality) Non-cooperation of the patient during the treatment period Performing parallel treatments by the patient Lack of follow-up visits of the patient to perform intervention or to evaluate the outcome of treatment Injection of corticosteroid into the shoulder joint in the last month

Age

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

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

Sampling was done in an easy way and according to it, patients were examined according to the time of visit and entered the study if they met the entry conditions. Randomization of patients is done using random allocation software. In this software, the total sample size and the number of groups are entered into the software. The output of the software includes a list that randomly distributes patients according to number between two groups. The patients are distributed in two groups according to the order of the visit time, according to the mentioned list, so that the sample volume reaches the number of slides in each group

Blinding (investigator's opinion)

Single blinded

Blinding description

In this study, patients with shoulder joint impingement

syndrome referred to Amin Hospital after being placed in the magnet device do not know whether the device is on or off.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethical Committee of Isfahan University of Medical Sciences

Street address

Hazar Jarib St., Isfahan University of Medical Sciences and Health Care Services, Building No. 4, Research and Technology Vice-Chancellor, Ethics Committee Secretariat

City

Esfahan

Province

Isfahan

Postal code

81746-73461

Approval date

2023-10-20, 1402/07/28

Ethics committee reference number

IR.MUI.MED.REC.1402.267

Health conditions studied**1****Description of health condition studied**

shoulder impingement syndrome

ICD-10 code

M75.4

ICD-10 code description

Impingement syndrome of shoulder

Primary outcomes**1****Description**

Shoulder impingement syndrome

Timepoint

Before, immediately and 4 weeks

Method of measurement

Visual Analogue Scale (VAS) , Goniometer, Disabilities of the Arm Shoulder and Hand (DASH)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group:

Category

Treatment - Devices

2

Description

Control group:

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Amin Hospital

Full name of responsible person

najme askarianfard

Street address

Amin Medical Education Center, Sanbulistan Street,
Sina Steet, Shahada Square

City

Esfahan

Province

Isfahan

Postal code

8148653141

Phone

+98 31 3112 2020

Email

najmeaskarianfard93@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Gholam Reza Askari

Street address

Hazar Jarib St., Isfahan University of Medical Sciences
and Health Care Services, Building No. 4, Research
and Technology Vice-Chancellor

City

Esfahan

Province

Isfahan

Postal code

81746-73461

Phone

+98 31 3668 8138

Email

askari@mui.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Esfahan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Najmeh Askarianfard

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Physical Medicine

Street address

Bozormehr Square, Mushtaq First St., Abolhassan
Esfahani St. Shahid Tajuddin Alley, Ban Best Omid, No.
10

City

Isfahan

Province

Isfahan

Postal code

8153796911

Phone

+98 31 3265 6319

Fax

Email

najmeaskarianfard93@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Parisa Taheri

Position

Associate Professor of Physical Medicine and

Rehabilitation
Latest degree
Specialist
Other areas of specialty/work
Physical Medicine
Street address
Isfahan, Al-Zahra Hospital, Department of Physical
Medicine
City
Isfahan
Province
Isfahan
Postal code
8174673461
Phone
+98 31 3668 2174
Email
Prs_taheri@med.mui.ac.ir

Person responsible for updating data

Contact

Name of organization / entity
Isfahan University of Medical Sciences
Full name of responsible person
Najmeh Askarianfard
Position
Resident
Latest degree
Medical doctor
Other areas of specialty/work
Physical Medicine
Street address
Bozormehr Square, Mushtaq First St., Abolhassan

Esfehāni St. Shahid Tajuddin Alley, Ban Best Omid, No.
10
City
Isfahan
Province
Isfahan
Postal code
8153796911
Phone
+98 31 3265 6319
Fax
Email
najmeaskarianfard93@gmail.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available