

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of intra-articular injection of Hyaluronic acid with Corticosteroids in reducing pain in patients with knee osteoarthritis

Protocol summary

Summary

The purpose of the present study is comparison of intra-articular injection of hyaluronic acid with corticosteroids in reducing pain in patients with knee osteoarthritis . This study is a randomized clinical trial study . Inclusion criteria :1)Patients with moderate to severe osteoarthritis of the knee 2)The patient agreed to participate in the study ,Exclusion criteria :1)Unstable joint 2)Necrosis 3)Bleeding disorders 4)Joint fracture 5)Injection site infection 6)Joint prosthesis 7)Previous history of tuberculosis 8)Surgery in the past 12 months and inability of follow up patients because of migration or death .In this study ,50 patients who fulfilled inclusion criteria for the study were selected .Demographic information such as age , sex , weight , duration of illness and ... ask them and recorded in a special form. At baseline , patients taught about the purpose of the plan and that their treatment is a research work and intra-articular injection of hyaluronic acid and corticosteroids maybe have relative efficacy of the treatment .Also the possibility of cross effects were noted and written consent shall be taken from them . Patients randomly divided into two groups of 25 . In first group ,40 milligram methylprednisolone and in second one 20 milligram hyaluronic acid is injected into the knee joint . VAS (Visual Analogue Scale) used to determine the severity of pain .Before injection the severity of pain with the criteria will be determined , and patients one month and three months after the injection will be followed up and severity of pain , their satisfaction and improvement will be evaluated .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015041213828N6**

Registration date: **2015-05-11, 1394/02/21**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2015-05-11, 1394/02/21

Registrant information

Name

Ahmad Mirdamadi

Name of organization / entity

Islamic Azad university ,Najafabad branch

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Recruitment status

Recruitment complete

Funding source

Isfahan University of Medical Sciences

Expected recruitment start date

2015-06-05, 1394/03/15

Expected recruitment end date

2016-11-05, 1395/08/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of intra-articular injection of Hyaluronic acid with Corticosteroids in reducing pain in patients with knee osteoarthritis

Public title

Effect of Hyaluronic acid in the treatment of knee osteoarthritis

Purpose

Treatment

Inclusion/Exclusion criteria
 Inclusion criteria : 1)Patients with moderate to severe osteoarthritis of the knee 2)The patient agreed to participate in the study
 Exclusion criteria : 1)Unstable joint 2)necrosis 3)Bleeding disorders 4)Joint fracture 5)Injection site infection 6)Joint prosthesis 7)Previous history of Tuberculosis 8)Surgery in the past 12 months 9)Inability of follow up patients after injection because of migration or death

Age
 From **40 years** old to **90 years** old

Gender
 Both

Phase
 N/A

Groups that have been masked
No information

Sample size
 Target sample size: **50**

Randomization (investigator's opinion)
 Randomized

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

Isfahan University of Medical Sciences

Street address

School of Medicine ,Isfahan University,Azad Square,
Isfahan

City

Isfahan

Postal code

8174673441

Approval date

2015-04-11, 1394/01/22

Ethics committee reference number

494005

Health conditions studied

1

Description of health condition studied

Knee osteoarthritis

ICD-10 code

M17.0

ICD-10 code description

Primary gonarthrosis , bilateral

Primary outcomes

1

Description

Severity of pain

Timepoint

Before the intervention,one month and three months after intervention

Method of measurement

Visual Analogue Scale (VAS)

Secondary outcomes

1

Description

Satisfaction of treatment

Timepoint

Before the intervention ,one month and three months after intervention

Method of measurement

Standard questionnaire

Intervention groups

1

Description

Amp Hyaluronic acid 20mg ,IA,one dose per week for three consecutive weeks

Category

Treatment - Drugs

2

Description

Amp Methylprednisolone 40mg ,IA, an injection in the baseline and patients may receive another injection during the study period

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Orthopedic Clinic /Dr. Ali Shariaty Hospital

Full name of responsible person

Dr. Behnam Haghpanah (Orthopedic Surgeon)

Street address

Dr. Ali Shariaty Hospital ,Shariaty Street, Chaharbagh
Bala Street, Isfahan

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Orthopedic Clinic /Dr. Ali Shariaty Hospital

Full name of responsible person

Dr. Behnam Haghpahan (Orthopedic Surgeon)

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Dr. Ali Shariaty Hospital, Shariaty Street, Chaharbagh
Bala Street, Isfahan

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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

Orthopedic Clinic /Dr. Ali Shariaty Hospital

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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Islamic Azad University ,Najafabad Branch

Full name of responsible person

Dr. Ahmad Mirdamadi

Position

Cardiologist, Fellowship of Echocardiography
/Assistant Professor of medical school

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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Medical Student

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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