Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Hyaluronic Acid Compared with Corticosteroid Injections for the Treatment of Osteoarthritis of the knee

Protocol summary

Summary

This randomized, double blind, parallel study was conducted with 140 knee OA patient to compare the Therapeutic effects of corticosteroids and hyaluronic acid. Patients will visit by a physician . after they signed informed consent they will choose. individuals randomly divided into two groups. Intensity of pain will assess by Visual analogue scale and Western Ontario McMaster University Osteoarthritis questionnaire. The treatment consisted of one IA injections of HA or one injections of CS and the follow-up visits were scheduled at 1 months, 2 months, and 3 months Qualified patients were men and women from 45 years to 80 years of age suffering from knee OA for more than 3 months, with radiographic. Main exclusion criteria was The use of NSAIDs in 2 days prior to injection. Patients and investigators were blinded in this study.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015031421460N1**
Registration date: **2015-08-01, 1394/05/10**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-08-01, 1394/05/10

Registrant information

Name

Tahereh Gholami

Name of organization / entity

Fasa University of Medical Science

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Fasa University of Medical Sciences

Expected recruitment start date

2015-05-05, 1394/02/15

Expected recruitment end date

2015-06-05, 1394/03/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Hyaluronic Acid Compared with Corticosteroid Injections for the Treatment of Osteoarthritis of the knee

Public title

Hyaluronic Acid Compared with Corticosteroid Injections for the Treatment of Osteoarthritis of the knee

Purpose

Treatment

Inclusion/Exclusion criteria

Qualified patients were men and women from 45 years to 80 years of age suffering from knee OA for more than 3 months, with radiographic. Main exclusion criteria were a history or presence of trauma or surgery or cancer or malignant tumors, infections and sores on the target knee, History of vasovagal shock , The use of NSAIDs in 2 days prior to injection, Any receiving corticosteroids injection in the knee in the last 6 months , Pregnancy and lactation

Age

From **48 years** old to **13 years** old

Gender
Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **140**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics Committee of Fasa University of Medical Sciences

Street address
Fasa University of Medical Sciences, Ebne Sina square, Fasa, Fars

City
Fasa

Postal code

Approval date
2014-12-02, 1393/09/11

Ethics committee reference number
e– 9306

Health conditions studied

1

Description of health condition studied
Knee Osteoarthritis

ICD-10 code
M17- M18-

ICD-10 code description
Gonarthrosis [arthrosis of knee]

Primary outcomes

1

Description
pain

Timepoint
before intervention- one- two- three months after intervention

Method of measurement
Visual analogue scale and questionnaire

Secondary outcomes

1

Description
Physical function

Timepoint
before and after intervention

Method of measurement
questionnaire and interview with patients

Intervention groups

1

Description
Patients participating in the study will be divided into two groups of 70 people. One group will take 40 mg Depomedrol corticosteroid injection in the space between the knee joint by an orthopedic physician. And second group will take hyaluronic acid (Hyalgan) in 2 ml vials to the space between the knee joint by an orthopedic physician.

Category
Treatment - Drugs

2

Description
intervention group: hyaluronic acid (Hyalgan) in 2 ml vials to the space between the knee joint by an orthopedic physician

Category
Treatment - Drugs

3

Description
control group: this group will take 40 mg Depomedrol corticosteroid injection in the space between the knee joint by an orthopedic physician

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Hamzeh hospital/ Fasa University of Medical Sciences

Full name of responsible person
Tahereh Gholami

Street address
Fasa University of Medical Sciences

City

Fasa

Sponsors / Funding sources

1

Sponsor

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

Full name of responsible person
Dr. Ehsan Bahramali

Street address
Fasa University of Medical Sciences, Ebne Sina square, Fasa, Fars

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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 of Fasa 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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Full name of responsible person
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Position
Orthopedics/ Faculty

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*