

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Investigation analgesic effect of curcumin topical formulation in osteoarthritis patients

Protocol summary

Study aim

Surveying the analgesic effect of topical curcumin in patients with osteoarthritis

Design

Patients were randomly assigned to two groups of 30. A group of patients received 10% curcumin ointment for 2 weeks, and the second group was given a diclofenac gel for 1 week at a dose of 4 times a day for 2 weeks.

Settings and conduct

Patients Dr. Zahra Basiri at the office

Participants/Inclusion and exclusion criteria

1. The person should have mild to moderate knee osteoarthritis. 2. The person should have moderate to severe pain. And individuals with osteoarthritis associated with joint inflammation are excluded from the study

Intervention groups

Intervention group: Patients with curcumin receiving osteoarthritis Control group: Patients with diclofenac receiving osteoarthritis

Main outcome variables

The amount of pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20150628022956N6**

Registration date: **2018-08-08, 1397/05/17**

Registration timing: **registered_while_recruiting**

Last update: **2018-08-08, 1397/05/17**

Update count: **0**

Registration date

2018-08-08, 1397/05/17

Registrant information

Name

Sara Ataei

Name of organization / entity

Hamadan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 912 440 2319

Email address

s.ataei@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-07-11, 1397/04/20

Expected recruitment end date

2018-09-22, 1397/06/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigation analgesic effect of curcumin topical formulation in osteoarthritis patients

Public title

effect of curcumin in osteoarthritis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

The person should have mild to moderate knee osteoarthritis The person should have moderate to severe pain

Exclusion criteria:

People with osteoarthritis associated with joint inflammation

Age

No age limit

Gender

Both

Phase

1-2

Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor

Sample size

Target sample size: 60

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

A sample of curcumin and diclofenac ointment is packed in similar packaging and pass code. The researcher and the patient and the data collectors and those who evaluate the outcome do not know the contents of the pack and randomly give a patient an example.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Research Ethics Committee of the Hamadan University of Medical Sciences

Street address

Hamadan- Pazhoohesh Crossroad-In front of the luna park-Hamedan University of Medical Sciences

City

Hamadan

Province

Hamadan

Postal code

6581773946

Approval date

2018-02-17, 1396/11/28

Ethics committee reference number

IR.UMSHA.REC.1396.813

Health conditions studied

1

Description of health condition studied

Osteoarthritis

ICD-10 code

M15.9

ICD-10 code description

Polyosteoarthritis, unspecified

Primary outcomes

1

Description

The amount of pain

Timepoint

10 day

Method of measurement

VAS index

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Patients with osteoarthritis receiving curcumin 10% for 10 days, 3 times daily for topical use.

Category

Treatment - Drugs

2

Description

Control group: Patients with osteoarthritis receiving diclofenac 10% ointment for 10 days, 3 times daily for topical use.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital in Hamadan

Full name of responsible person

Dr. Zahra Basiri

Street address

میدان قائم بیمارستان شهید بهشتی Ghaem Square, Shahid Beheshti Hospital

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z.azadbakht73@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Dr.Bashirian

Street address

Hamedan Boulevard, Shahid Fahmidah, facing
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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

Hamedan 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

Hamedan University of Medical Sciences

Full name of responsible person

Dr. Sara Ataei

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

Street address

Hamedan Boulevard, Shahid Fahmidah, Facing the
People's Park of Hamedan University of Medical
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Person responsible for scientific inquiries

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Dr. Sara Ataei

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

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Fax

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Web page address

Person responsible for updating data

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Zahra Azadbakht

Position

Student

Latest degree

A Level or less

Other areas of specialty/work

Medical Pharmacy

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Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

The total potential data can be shared after unidentifiable people

When the data will become available and for how long

1398

To whom data/document is available

Researchers working in academia and academia

Under which criteria data/document could be used

Use data with source

From where data/document is obtainable

z.azadbakht73@gmail.com

What processes are involved for a request to access data/document

Request via email

Comments