

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

Comparison the effect of Nigella sativa oil and Dichlophenac Gel on the reduction of knee pain in patient with Osteoarthritis

Protocol summary

Study aim

Comparison of Nigella sativa and diclofenac gel on knee pain reduction due to osteoarthritis

Design

Two arm parallel group randomised trial with blinded postoperative outcome assessment will be performed on 70 patients during one year

Settings and conduct

This study will be performed on patients with knee osteoarthritis referred to the Ali ibn Abi Talib hospital in Zahedan for a period of one year. Patients are randomly divided into two groups receiving nigella sativa oil and diclofenac gel, and prescribed drugs will administrated for patients. Patients, data collectors and analyzer will not be aware of the drugs received

Participants/Inclusion and exclusion criteria

Including criteria consists of patients with knee osteoarthritis based on clinical and radiological criteria of the American College of Rheumatology (ACR = 2_3); satisfaction to enter the study, and non-entry conditions include joint edema; joint inflammation; liver and kidney failure; and the use of neurological drugs.

Intervention groups

The intervention group rub one gram of nigella sativa oil on a knee every six hours for three weeks, and the control group rub one gram diclofenac gel on a knee every six hours for three weeks and knee pain will measured before and one hour after taking the drug.

Main outcome variables

Pain based on the Visual Analogue Scale (VAS); The intensity of osteoarthritis based on the KellgrenLawrence scale; Patients knee conditions based on the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181211041923N1**

Registration date: **2019-07-14, 1398/04/23**

Registration timing: **retrospective**

Last update: **2019-07-14, 1398/04/23**

Update count: **0**

Registration date

2019-07-14, 1398/04/23

Registrant information

Name

Marzieh Amirian

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 54 3329 5738

Email address

marzieh.amirian@zaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-01-30, 1397/11/10

Expected recruitment end date

2019-04-30, 1398/02/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of Nigella sativa oil and Dichlophenac Gel on the reduction of knee pain in patient with Osteoarthritis

Public title

The effect of Nigella sativa oil and Dichlophenac Gel on the reduction of knee Osteoarthritis pain

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patient with knee osteoarthritis based on ACR=2_3 and clinical standard Satisfaction to enter the study

Exclusion criteria:

Joint effusion Arthritis Liver and kidney failure
Consumption of neurological drugs

Age

No age limit

Gender

Female

Phase

3

Groups that have been masked

- Participant

Sample size

Target sample size: 70

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Patients will not be aware of the type of medication they receive and the second executor of the research project will complete the questionnaire at the end of the treatment without knowledge of the two groups. Also the data will be analyzed without any information about group selection

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Zahedan University of Medical Sciences

Street address

Research Deputy, Zahedan University of Medical Sciences, Balochestan Blvd, Persian Gulf Expressway

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9817699693

Approval date

2018-07-27, 1397/05/05

Ethics committee reference number

IR.ZAUMS.REC.1397.127

Health conditions studied

1

Description of health condition studied

Patients with knee osteoarthritis based on clinical and radiological criteria of the American College of Rheumatology (ACR = 2_3)

ICD-10 code

80-M94

ICD-10 code description

Osteopathies and chondropathies

Primary outcomes

1

Description

Pain based on the Visual Analogue Scale (VAS)

Timepoint

At the beginning of the study (before the intervention) and 3 weeks after starting the drug administration

Method of measurement

Visual Analogue Scale

Secondary outcomes

1

Description

The intensity of osteoarthritis based on the KellgrenLawrence scale

Timepoint

At the beginning of the study (before the intervention) and 3 weeks after starting the drug administration

Method of measurement

KellgrenLawrence scale

2

Description

Patients knee conditions based on the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC)

Timepoint

At the beginning of the study (before the intervention) and 3 weeks after starting the drug administration

Method of measurement

Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC)

Intervention groups

1

Description

Intervention group: rub one gram of nigella sativa oil on a knee every six hours for three weeks

Category

Treatment - Drugs

2

Description

Control group: rub one gram diclofenac gel on a knee every six hours for three weeks

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ali ibn Abi Talib hospital

Full name of responsible person

Mahnaz Sandooghi

Street address

Ali ibn Abi Talib hospital, Salamat Blvd, Persian Gulf Expressway

City

zahedan

Province

Sistan-va-Balouchestan

Postal code

9816743111

Phone

+98 54 3329 5570

Email

Mahnazsandooghi@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

Mohsen Taheri

Street address

Research Deputy, Zahedan University of Medical Sciences, Balochestan Blvd, Persian Gulf Expressway

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9816743111

Phone

+98 54 3329 5796

Email

taheri@zaums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Zahedan 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

Zahedan University of Medical Sciences

Full name of responsible person

Mahnaz Sandooghi

Position

Assistant Professor

Latest degree

Subspecialist

Other areas of specialty/work

Internal Medicine

Street address

Zahedan University of Medical Sciences, Balochestan Blvd, Persian Gulf Expressway

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9816743111

Phone

+98 54 3329 5796

Email

Mahnazsandooghi@yahoo.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

Mahnaz Sandooghi

Position

Assistant Professor

Latest degree

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Internal Medicine

Street address

, Zahedan University of Medical Sciences, Balochestan Blvd, Persian Gulf Expressway

City

Zahedan

Province

Sistan-va-Balouchestan
Postal code
9816743111
Phone
+98 54 3329 5796
Email
Mahnazsandooghi@yahoo.com

9816743111
Phone
+98 54 3329 5796
Email
Mahnazsandooghi@yahoo.com

Person responsible for updating data

Contact

Name of organization / entity
Zahedan University of Medical Sciences
Full name of responsible person
Mahnaz Sandooghi
Position
Assistant Professor
Latest degree
Subspecialist
Other areas of specialty/work
Internal Medicine
Street address
, Zahedan University of Medical Sciences,
Balochestan Blvd, Persian Gulf Expressway
City
Zahedan
Province
Sistan-va-Balouchestan
Postal code

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

Undecided - It is not yet known if there will be 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

Undecided - It is not yet known if there will be 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