Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Comparsion of 2% Tanacetum Parthenium Gel with 1% Diclofenac Gel on the pain of patients with primary knee osteoarthritis

Protocol summary

Summary

The aim of this study is to investigate the effects of Tanacetum Parthenium gel 2% and diclofenac gel1% in pain of patients with knee osteoarthritis. This study is a double blind clinical trial,placebo-controlled, single-center in 150 patients with osteoarthritis referring to the Orthopedic Clinic in Shahrekord. Inclusion criteria: 45_75 years old; a definitive diagnosis of osteoarthritis disease with specialist. Exclusion criteria: severe diseases such as metabolic and digestive disorders at the same time; severe infection, sensitivity to thyme extract daenensis, pregnancy; lactation, impaired liver function tests; history of fracture or knee surgery; rheumatoid arthritis.Samples are randomly selected, divided into three groups of 50 people. The first group receive placebo gel three times a day, the second group of Tanacetum Parthenium 2% topical gel three times daily and in the third group diclofenac topical gel 1% three times a day. All three groups use celecoxib 200 mg orally. WOMAC and VAS questionnaires are checked at baseline and six weeks after treatment. Improving Physical symptoms and pain relief are considered as treatment response.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017092710222N14**
Registration date: **2017-10-01, 1396/07/09**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2017-10-01, 1396/07/09

Registrant information

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Zahra Keivani
Name of organization / entity
Shahrekord University Of Medical Sciences
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Recruitment status

Recruitment complete

Funding source

Shahrekord University of Medical Sciences

Expected recruitment start date

2017-10-23, 1396/08/01

Expected recruitment end date

2018-05-22, 1397/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparsion of 2% Tanacetum Parthenium Gel with 1% Diclofenac Gel on the pain of patients with primary knee osteoarthritis

Public title

Comparsion of 2% Tanacetum Parthenium Gel with 1% Diclofenac Gel on the pain of patients with primary knee osteoarthritis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 45_75 years old; a definitive diagnosis of osteoarthritis disease with specialist Exclusion criteria: severe diseases such as metabolic disorders and

digestive at the same time; severe infection; sensitivity to Tanacetum Parthenium extract; pregnancy; lactation; impaired liver function tests; history of fracture or knee surgery; rheumatoid arthritis

Age
From **45 years** old to **75 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **150**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

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

Street address
Kashani street, shahrekord university of medical sciences, shahrekord

City
Shahrekord

Postal code

Approval date
2016-05-01, 1395/02/12

Ethics committee reference number
IR.SKUMS.REC.1394.309

Health conditions studied

1

Description of health condition studied
Osteoartritis

ICD-10 code
M19.9

ICD-10 code description
Arthrosis, unspecified

Primary outcomes

1

Description
Physical function

Timepoint
Baseline and Six weeks after intervention

Method of measurement
WOMAC questionnaire

Secondary outcomes

1

Description
Pain

Timepoint
Baseline and six weeks after intervention

Method of measurement
WOMAC questionnaire

Intervention groups

1

Description
The first group receive placebo gel topically 3 times a day with 200 mg celecoxib oral capsules

Category
Treatment - Drugs

2

Description
The Second group receive Tanacetum Parthenium gel 2% topically 3 times a day with 200 mg celecoxib oral capsules

Category
Treatment - Drugs

3

Description
The Third group receive diclofenac gel 1% topically 3 times a day with 200 mg celecoxib oral capsules

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Kashani hospital in Shahrekord

Full name of responsible person
Morteza Dehghan

Street address
Parastar street, Kashani Hospital of Shahrekord University of Medical Sciences, shahrekord

City

shahrekord

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research of Shahrekord University of Medical Science
Full name of responsible person
Dr. Kamal Solati
Street address
Kashani street, shahrekord university of medical sciences, shahrekord
City
Shahrekord
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 Shahrekord University of Medical Science
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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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