

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Feb 2026

Evaluation and comparison of absinthium ointment and liniment analgesia with piroxicam gel in patients with knee osteoarthritis

Protocol summary

Summary

Local analgesics for pain control can provide effective local approach. Local agents have similar efficacy without systemic side effects of oral formulations. Plants are rich and intact source of compounds and medical plants have been used without any significant side effects in traditional medicine since ages. In this study Wormwood extract was studied due to its use in traditional medicine as an analgesic in pain management. The present study is a clinical trial and double blind study. Patients with primary osteoarthritis in at least one knee, will randomly divide into three groups. Group I receive absinthium ointment, Group II absinthium liniment and Group III piroxicam gel. All drugs will use in similar package with different code. At the beginning of the experiment and two weeks after the commencement of treatment and two weeks after the end of the treatment the WOMAC and VAS indexes will examine and the Repeat Measure ANOVA test will compare results.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202123109N3**
Registration date: **2012-05-05, 1391/02/16**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-05-05, 1391/02/16

Registrant information

Name

Fatemeh Zeraati

Name of organization / entity

Hamadan Medical University

Country

Iran (Islamic Republic of)

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Email address

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Recruitment status

Recruitment complete

Funding source

Hamadan University of Medical Sciences

Expected recruitment start date

2012-04-20, 1391/02/01

Expected recruitment end date

2013-04-21, 1392/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation and comparison of absinthium ointment and liniment analgesia with piroxicam gel in patients with knee osteoarthritis

Public title

herbal analgesic

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 1.Primary osteoarthritis 2.Existence of pain at least during two week before treatment exclusion criteria: 1.secondary osteoarthritis 2.trauma 3. Endocrine disease(hyperthyroid,hypothyroid ,Diabet) 4.Metabolic disease 5.other arthritis disease 6.corticosteroid usage 7.topical drug usage in similar site 8.analgesic drug usage from 10 days before 9.pregnancy

Age

From **30 years** old to **70 years** old

Gender

Both

Phase

4

Groups that have been masked

No information

Sample size

Target sample size: **90**

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**

Research Ethics committee of Hamadan University of
Medical Sciences

Street address

Hamadan Medical School

City

Hamadan

Postal code**Approval date**

2010-07-14, 1389/04/23

Ethics committee reference number

57231/9/35/16/پ

Health conditions studied**1****Description of health condition studied**

arthrosis of knee

ICD-10 code

M17.1

ICD-10 code description

Other primary gonarthrosis

Primary outcomes**1****Description**

pain

Timepoint

At the beginning,two week after treatment and two week
after stop of treatment

Method of measurement

VAS index

Secondary outcomes**1****Description**

action quality

Timepoint

At the beginning,two week after treatment and two week
after stop of treatment

Method of measurement

WOMAC index

Intervention groups**1****Description**

Group I: receive absinthium ointment.2 centimeter Every
8 hour on all of site of knee for 4 week

Category

Treatment - Drugs

2**Description**

Group II:recive absinthium liniment 2 ml Every 8 hour on
all of site of knee for 4 week

Category

Treatment - Drugs

3**Description**

Group III:recive piroxicam gel 2 centimeter Every 8 hour
on all of site of knee for 4 week

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Hamadan Medical School

Full name of responsible person**Street address****City**

Hmadan

Sponsors / Funding sources**1****Sponsor**

Name of organization / entity

Hamadan University of Medical Sciences
Full name of responsible person
Dr Tavilani
Street address
Deputy dean for Research of Hamadan Medical School
City
Hamadan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Hamadan 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
Hamadan University of Medical Sciences
Full name of responsible person
Zeraati fatemeh
Position
Associated professor of pharmacology
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Person responsible for scientific inquiries

Contact

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Person responsible for updating data

Contact

Name of organization / entity
Pharmacology Dep.
Full name of responsible person
Zeraati fatemeh
Position
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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