

# 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)

##### Phone

+98 81 1827 6295

##### Email address

zeraati@umsha.ac.ir

##### 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  
**Other areas of specialty/work**  
**Street address**  
Hamadan Medical School  
**City**  
Hamadan  
**Postal code**  
**Phone**  
+98 81 1822 6011  
**Fax**  
**Email**  
zeraati@umsha.ac.ir  
**Web page address**

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

pharmacology Dep.  
**Full name of responsible person**  
Zeraati Fatemeh  
**Position**  
PhD  
**Other areas of specialty/work**  
**Street address**  
Hamadan Medical School  
**City**  
Hamadan  
**Postal code**  
**Phone**  
+98 11 8822 6011  
**Fax**  
**Email**  
zeraati@umsha.ac.ir  
**Web page address**

## Person responsible for updating data

### Contact

**Name of organization / entity**  
Pharmacology Dep.  
**Full name of responsible person**  
Zeraati fatemeh  
**Position**  
PhD  
**Other areas of specialty/work**  
**Street address**  
Hamadan Medical School  
**City**  
Hamadan  
**Postal code**  
**Phone**  
+98 81 1822 6011  
**Fax**  
**Email**  
**Web page address**

## 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*