

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparative effectiveness of 1% lindane, 1% permethrin and 4% dimeticone for the treatment of head louse infestation in female primary schools

Protocol summary

kasiri-h@ajums.ac.ir

Summary

This double blinded randomized clinical trial will be held to compare the effects of lindane 1%, Permethrin 1% and Dimethicon 4% shampoos in the treatment of head lice infestation in girls of primary schools in Ahvaz (Autumn 2015). Study blinding will be done for patients and researchers. The sample size of the study is 442 subjects with head lice, which will be randomly chosen from students. Positive cases of pediculosis will be divided randomly into 4 equal groups. One group served as the control will use ordinary shampoo. Each group will contain 111 cases. The effects of four kinds of shampoo will be studied in different groups on days two, seven and fourteen days after treatment.

Recruitment status

Recruitment complete

Funding source

Ahvaz Jundishapur University of Medical Sciences

Expected recruitment start date

2015-12-22, 1394/10/01

Expected recruitment end date

2016-03-10, 1394/12/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016013026266N1**

Registration date: **2016-03-07, 1394/12/17**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-03-07, 1394/12/17

Registrant information

Name

Hamid Kassiri

Name of organization / entity

Ahvaz Jundishapur University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 3373 8269

Email address

Scientific title

Comparative effectiveness of 1% lindane, 1% permethrin and 4% dimeticone for the treatment of head louse infestation in female primary schools

Public title

Study of the comparative efficacy of 1% lindane, 1% permethrin and 4% dimeticone for the treatment of head louse infestation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: female; primary school student; no lesion or redness on head; having head lice infestation

Exclusion Criteria: leaving the county; development ulcer or sensitivity

Age

From **6 years** old to **10 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **444**

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 Ahvaz Jundishapur University of Medical Sciences

Street address

Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran

City

Ahvaz

Postal code

Approval date

2016-01-23, 1394/11/03

Ethics committee reference number

IR.AJUMS.REC.1394.558

Health conditions studied

1

Description of health condition studied

Head Louse Infestation

ICD-10 code

B85.0

ICD-10 code description

Pediculosis due to Pediculus humanus capitis

Primary outcomes

1

Description

The rate of effectiveness

Timepoint

two, seven and fourteen days after treatment

Method of measurement

Examination

Secondary outcomes

1

Description

drug side effects

Timepoint

two, seven and fourteen days after treatment

Method of measurement

Examination

Intervention groups

1

Description

Intervention group: Shampoo Lindane 1% (once - 5 minutes))

Category

Treatment - Drugs

2

Description

Control group: Ordinary shampoo

Category

Placebo

3

Description

Intervention group: Shampoo Permethrin 1% (twice within a week- 10 minutes))

Category

Treatment - Drugs

4

Description

Intervention group: Shampoo Dimethicon 4% (twice within a week- 8 hours)

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Girl Schools

Full name of responsible person

Hamid Kassiri

Street address

Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz Jundishapur University of Medical Sciences,
Vice chancellor for research

Full name of responsible person

Nader Saki

Street address

Ahvaz Jundishapur University of Medical Sciences,
Ahvaz, Iran

City

Ahvaz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Ahvaz Jundishapur University of Medical Sciences, Vice
chancellor for research

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**

Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Hamid Kassiri

Position

Ph.D/ Assistant Professor

Other areas of specialty/work**Street address**

Ahvaz Jundishapur University of Medical Sciences,
Ahvaz, Iran

City

Ahvaz

Postal code**Phone**

+98 61 3373 8269

Fax**Email**

Hamid.Kassiri@yahoo.com kasiri-h@ajums.ac.ir

Web page address

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Ahvaz Jundishapur University of medical Sciences

Full name of responsible person

Hamid Kassiri

Position

Ph.D / assistant professor

Other areas of specialty/work**Street address**

Ahvaz Jundishapur University of medical Sciences,
Ahvaz, Iran

City

Ahvaz

Postal code**Phone**

+98 61 3373 8269

Fax**Email**

Hamid.Kassiri@yahoo.com kasiri-h@ajums.ac.ir

Web page address

Person responsible for updating data

Contact**Name of organization / entity**

Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Hamid Kassiri

Position

Ph.D/ Assistant professor

Other areas of specialty/work**Street address**

Ahvaz Jundishapur University of Medical Sciences,
Ahvaz, Iran

City

Ahvaz

Postal code

61375-15751

Phone

+98 61 3373 8269

Fax

+91 61333738282

Email

Hamid.Kassiri@yahoo.com; Kasiri-h@ajums.ac.ir

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