

# 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

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##### 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**

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### Person responsible for scientific inquiries

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### Person responsible for updating data

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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*