Clinical Trial Protocol
Iranian Registry of Clinical Trials

20 Oct 2026

Epidemiologic indices and comparative efficacy of Parasidose shampoo 0.2% and Dimeticone lotion 4% with Permethrin shampoo 1% in the treatment of head lice in female primary school students

Protocol summary

Summary

This is a double blind field trial to compare the efficacy of three treatment protocols to combat head lice among female students in 7 elementary schools in the city of Kavar in Fars Province from May 2017 to August 2017. This is done using a finely-toothed plastic lice detection comb (Hedrin). For infestation with live head lice, people are screened and then put 75 patients into three groups of 25 patients; the efficacy of Parasidose shampoo 0.2% and Dimethicone lotion 4% with permethrin shampoo 1% is investigated. Inclusion criteria: involves girls between the ages of 6 to 13 years old possessing their overall health. Exclusion criteria: includes basic problems in the last 4 weeks, such as susceptibility to the product; skin disorders; secondary bacterial infection; Favism; scalp burn; asthma; hair dye use; bleach; gel or oil. leaving patients from the study even after treatment at any time. Epidemiologic indices and primary and secondary outcome as well as through the questionnaire will be considered, such as the prevalence of head lice, hair length, hair status and itching. Each volunteer for the presence of lice within two weeks of treatment on days 2, 6, 9, 14 to be followed up. comparison of the measured outcomes after therapeutic intervention in three groups will be analyzed using SPSS software.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016041627408N1**
Registration date: **2017-08-21, 1396/05/30**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2017-08-21, 1396/05/30

Registrant information

Name

Hadi Kalari

Name of organization / entity

Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Sciences

Expected recruitment start date

2017-05-04, 1396/02/14

Expected recruitment end date

2017-08-05, 1396/05/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Epidemiologic indices and comparative efficacy of Parasidose shampoo 0.2% and Dimeticone lotion 4% with Permethrin shampoo 1% in the treatment of head lice in female primary school students

Public title

Study of the comparative efficacy of Parasidose 0.2% shampoo and Dimeticone 4% lotion with Permethrin 1% shampoo for the treatment of head louse infestation

Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria: involves girls between the ages of 6 to 13 years old possessing their overall health. Exclusion criteria: includes basic problems in the last 4 weeks, such as susceptibility to the product; skin disorders; secondary bacterial infection; Favism; scalp burn; asthma; hair dye use; bleach; gel or oil. leaving patients from the study even after treatment at any time.
Age
From **6 years** old to **13 years** old
Gender
Female

Phase
3
Groups that have been masked
No information
Sample size
Target sample size: **75**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features
NA

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Shiraz University of Medical Sciences
Street address
University of Medical Sciences, Zand Blvd., Shiraz, Iran
City
Shiraz
Postal code
Approval date
2017-05-03, 1396/02/13
Ethics committee reference number
IR.SUMS.REC.1396.24

Health conditions studied

1

Description of health condition studied
Head Lice
ICD-10 code
B85.0
ICD-10 code description
Pediculosis due to Pediculus humanus capitis

Primary outcomes

1

Description
The infestation rate of head lice
Timepoint
Follow-up within two weeks of starting treatment at days 2, 6, 9, 14.
Method of measurement
Hedrin comb

Secondary outcomes

1

Description
Itching Scalp
Timepoint
Follow-up within two weeks of starting treatment at days 2, 6, 9, 14.
Method of measurement
Qualitative questionnaire

Intervention groups

1

Description
First intervention group: Formulation of Permethrin 1% shampoo on a 25 person group from females during 2 weeks in 2 turns, each turn treat the scalp with it for 20 minutes.
Category
Treatment - Other

2

Description
Third intervention group: Formulation of Dimethicone 4% lotion on a group of 25 person from elementary females during 2 weeks in 2 turns, in each turn treat the scalp with it for 8 hours.
Category
Treatment - Other

3

Description
Second intervention group: Formulation of Parasidose 0.2% shampoo on a group of 25 person from elementary females during 2 weeks in 2 turns, in each turn treat the scalp with it for 8 hours.
Category
Treatment - Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Shahid Nemati primary school
Full name of responsible person
Mrs. Maryam Ghorbani
Street address
AL-Zahra Street, Emam Khomeyni Blvd., Kavar city, Fars
City
Kavar

2

Recruitment center
Name of recruitment center
Sajedeh primary school
Full name of responsible person
Mrs. Sara Yaghoot
Street address
Golzar (kavar Kohneh), Emam Khomeyni Blvd., Kavar city, Fars
City
Kavar

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Shiraz University of Medical Sciences
Full name of responsible person
Dr. Ali Poostforush
Street address
Vice chancellor for Research Affairs, Shiraz University of Medical Sciences, Zand Blvd., Shiraz, Iran
City
Shiraz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Shiraz 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
School of Health, Shiraz University of Medical Sciences
Full name of responsible person
Hadi Kalari
Position
Msc. Candidate for Medical Entomology
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Person responsible for scientific inquiries

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Associate Professor
Other areas of specialty/work
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Person responsible for updating data

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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