

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jul 2026

### Assessment of red beet extract effectiveness on Head Pediculosis treatment in comparison with Permethrin 1%

#### Protocol summary

##### Study aim

The purpose of current study is assessment of red beet extract effectiveness on lice, nit and itch decline in Head Pediculosis suffering patients.

##### Design

A number of 280 patients who suffer from Head Pediculosis and meet the study inclusion qualifications and are clients of Ardakan city main health centers are selected as samples for current study. Participants are randomly divided into two groups via envelopes containing numbers. Control group are treated by Permethrin while the other by red beet extract. 24 hours after application its therapeutic effect is evaluated.

##### Settings and conduct

This study is considered as a clinical trial one being conducted in Ardakan main health centers affiliated to Ardakan Health Network. Patients who are suffering from Head Pediculosis and meet the inclusion qualifications are studied as samples. The mentioned patients are required to apply delivered medicine while being prohibited from taking any other medicine until 24 hours. Members of control group are given Permethrin while red beet extract for intervening group. After 24 hours of treatment, patients are evaluated in terms of three variables of lice, nit and degree of itching.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: having Head Pediculosis  
Exclusion criteria: having intense skin disease such as Eczema, Psoriasis and Chronic Dermatitis.

##### Intervention groups

Red beet extract is applied in intervening group while Permethrin in control group

##### Main outcome variables

Number of lice, nit and severity of itching is evaluated after one day via a questionnaire.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20171016036803N1**  
Registration date: **2017-12-28, 1396/10/07**  
Registration timing: **registered\_while\_recruiting**

Last update: **2017-12-28, 1396/10/07**

Update count: **0**

##### Registration date

2017-12-28, 1396/10/07

##### Registrant information

##### Name

Habib Hemat

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 35 3726 3717

##### Email address

h.hemat@ssu.ac.ir

##### Recruitment status

##### Recruitment complete

##### Funding source

Shahid sadoghi university of medical science

##### Expected recruitment start date

2017-12-11, 1396/09/20

##### Expected recruitment end date

2018-01-10, 1396/10/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Assessment of red beet extract effectiveness on Head Pediculosis treatment in comparison with Permethrin 1%

**Public title**

Assessment of red beet extract impact on Head Pediculosis

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

Being a health centers client. Having Head Pediculosis. Agree on treatment by red beet extract.

**Exclusion criteria:**

While having wound on scalp While suffering from Head Psoriasis While suffering from chronic Dermatitis

**Age**

No age limit

**Gender**

Both

**Phase**

3

**Groups that have been masked**

No information

**Sample size**

Target sample size: **280**

Actual sample size reached: **280**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

A sample of 280 patients were randomly selected using numbered envelopes containing labels which was already done. Samples were divided into two groups of the patients under treatment by Permethrin (140) and the ones under treatment by red beet extract (140).

**Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics committee of Yazd University of Medical Sciences

**Street address**

Central department of Shahid sadoughei medical university, Shahid bahonar square, Yazd

**City**

Yazd

**Province**

Yazd

**Postal code**

89169784477

**Approval date**

2017-03-06, 1395/12/16

**Ethics committee reference number**

IR.SSU.REC.1395.237

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

Pediculosis

**ICD-10 code**

B85

**ICD-10 code description**

Head-lice infestation.

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

Observing alive lice

**Timepoint**

Before treatment- 1 day after treatment.

**Method of measurement**

Counting number of alive lice by specialist.

**2****Description**

Observing lice hat stick to the hair

**Timepoint**

Before treatment- 1 day after treatment.

**Method of measurement**

Count the number of lice hat in 25 centimeters of head

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

Drug side effects

**Timepoint**

24 hours after treatment

**Method of measurement**

Observation the effect

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

Intervention group: Red beta vulgaris juice (once for an hour)

**Category**

Treatment - Drugs

**2****Description**

Control group: Shampoo Permethrin 1% (once for ten minutes)

**Category**

Treatment - Drugs

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

Comprehensive Health Centers in Ardakan

**Full name of responsible person**

Habib Hemat

**Street address**

Imam Khomeinee Street, Ardakan Health Network

**City**

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**Province**

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**Postal code**

8951737915

**Phone**

+98 35 3223 8915

**Email**

h.hemat@ssu.ac.ir

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Yazd University of Medical Sciences

**Full name of responsible person**

Hooshang Mehrparvar

**Street address**

Central department of Shahid sadoughei medical university, Shahid bahonar square, Yazd

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

Yes

**Title of funding source**

Yazd University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

Public

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding**

empty

**Country of origin****Type of organization providing the funding**

Academic

**Person responsible for general inquiries****Contact****Name of organization / entity**

Yazd University of Medical Sciences

**Full name of responsible person**

Habib Hemat

**Position**

Resident

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Traditional Medicine

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**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Yazd University of Medical Sciences

**Full name of responsible person**

Majid Emtiazy

**Position**

Assistant Professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Traditional Medicine

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**Fax****Email**

dr.emtiaz@yahoo.com

**Web page address**

## **Person responsible for updating data**

### **Contact**

**Name of organization / entity**

Yazd University of Medical Sciences

**Full name of responsible person**

Habib Hemat

**Position**

Resident

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Traditional Medicine

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**Email**

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**Web page address**

## **Sharing plan**

**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

**Justification/reason for indecision/not sharing IPD**

the sponsor of this study have not permitted.

**Study Protocol**

No - There is not a plan to make this available

**Statistical Analysis Plan**

No - There is not a plan to make this available

**Informed Consent Form**

No - There is not a plan to make this available

**Clinical Study Report**

Undecided - It is not yet known if there will be a plan to make this available

**Analytic Code**

Undecided - It is not yet known if there will be a plan to make this available

**Data Dictionary**

Undecided - It is not yet known if there will be a plan to make this available