

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 centers1**Recruitment center****Name of recruitment center**

Comprehensive Health Centers in Ardakan

Full name of responsible person

Habib Hemat

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Sponsors / Funding sources1**Sponsor****Name of organization / entity**

Yazd University of Medical Sciences

Full name of responsible person

Hooshang Mehrparvar

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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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Full name of responsible person

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Assistant Professor

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Full name of responsible person

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Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

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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