Clinical Trial Protocol
Iranian Registry of Clinical Trials

19 Sep 2026

Comparison Between Topical Niosomal Zinc Sulfate Combined With Cryotherapy Versus topical simple Zinc sulfate Combined With Cryotherapy In The Treatment Of Verruca Vulgaris

Protocol summary

Study aim
Comparison Between Topical Niosomal Zinc Sulfate Combined With Cryotherapy Versus topical simple Zinc sulfate Combined With Cryotherapy In The Treatment of Verruca Vulgaris

Design
This study is a double-blind ,randomized clinical trial with control group and parallel group design

Settings and conduct
This is a double-blind randomized clinical trial study. 60 patients with common warts greater than 6 mm from both sexes over 12 years of old,attending Afzalipour Hospital in Kerman enrolled the study. Patients were allocated to 2 groups (intervention and control). Intervention group will receive cryotherapy with niosomal zinc sulfate solution and the control group will receive cryotherapy with simple zinc sulfate solution.

Participants/Inclusion and exclusion criteria
Inclusion criteria include patients older than 12 years old. Exclusion criteria: patients younger than 12 years old; immunocompromised patients, and those who have previously received treatment for warts. Pregnant or lactating women have facial, genital, and nail warts.

Intervention groups
Patients in case group were received cryotherapy with niosomal zinc sulphate solution (twice daily) and in control group received cryotherapy with simple zinc sulfate solution (twice daily).

Main outcome variables
Measurement of lesions؛ severity of warts

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20190809044483N1**
Registration date: **2019-09-11, 1398/06/20**
Registration timing: **prospective**

Last update: **2019-09-11, 1398/06/20**
Update count: **0**

Registration date
2019-09-11, 1398/06/20

Registrant information

Name
Roozbeh Mehrabadi

Name of organization / entity

Country
Iran (Islamic Republic of)

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+98 34 3261 5720

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r.mehrabadi@kmu.ac.ir

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2019-10-02, 1398/07/10

Expected recruitment end date
2019-12-31, 1398/10/10

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison Between Topical Niosomal Zinc Sulfate Combined With Cryotherapy Versus topical simple Zinc sulfate Combined With Cryotherapy In The Treatment Of Verruca Vulgaris

Public title
The effect of zinc sulfate in the treatment of common warts
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
All patients with common warts
Exclusion criteria:
Patients under 12 years Patients with immunodeficiency Patients who have already received treatment for warts Pregnancy Breastfeeding Facial warts Genital warts Warts around the nail
Age
From **12 years** old
Gender
Both

Phase
2-3
Groups that have been masked

- Participant
- Outcome assessor
- Data analyser

Sample size
Target sample size: **60**
Randomization (investigator's opinion)
Randomized
Randomization description
Simple randomization was done using Minitab 16 software (Minitab Inc.)
Blinding (investigator's opinion)
Triple blinded
Blinding description
This is a triple-blind study for outcome assessor,patients and analyzor. Both drugs were kept in identical amber glass containers, so the evaluating physician and patients were unaware of the containers.
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Kerman University of Medical Sciences
Street address
Ebne Sina Ave.,Tahmasb Abad Blvd.
City
kerman
Province
Kerman
Postal code
761614111
Approval date
2019-01-30, 1397/11/10
Ethics committee reference number
IR.KMU.AH.REC.1397.135

Health conditions studied

1

Description of health condition studied
Common wart
ICD-10 code
B07
ICD-10 code description
Viral warts

Primary outcomes

1

Description
Measurement of wart lesion size
Timepoint
At base line and 2,4,6,8,12 weeks later
Method of measurement
Measurement of lesion size by physical examination

Secondary outcomes

1

Description
Hyperpimentation
Timepoint
At baseline (before intervention)and weeks 2,4,6,8,12
Method of measurement
By physical examination

2

Description
Hypopigmentation
Timepoint
At baseline (before intervention)and weeks 2, 4, 6, 8,12
Method of measurement
By physical examination

3

Description
Atrophic scar
Timepoint
At baseline (before intervention)and weeks 2, 4, 6, 8, 12
Method of measurement
By physical examination

Intervention groups

1

Description

Intervention group: niosomal Zinc sulfate solution, Route of administration : Topical application, twice daily, Duration of treatment: 12 weeks, Manufactured factory: Sorbital esters (Span compounds) and polyoxyethylene derivatives of sorbital esters (Tween compounds),The concentration of zinc sulfate used in the formulation was 2%. Chemicals and soluble materials were prepared by Merck Elemental and Sigma America and carl-roth Elemental, and is imported by Shafa.

Category

Treatment - Drugs

2

Description

Control group: Simple Zinc Sulfate Solution, Route of administration : Topical application, twice daily, Duration of treatment: 12 weeks, Preparation of topical simple zinc sulfate: Zinc sulfate dissolving in hot distilled water (90 ° C) 4% at base of eucerin.As such, after diluting at the base of eucerin, the final concentration of sulfate will be 2% by volumetric weight.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Afzalipour hospital

Full name of responsible person

Mahin Aflatoonian

Street address

Imam high way,Kerman

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7616913911

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Abbas Pardakhty

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7619813159

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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

No

Title of funding source

Kerman 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

Kerman University of Medical Sciences

Full name of responsible person

Mahin Aflatoonian

Position

Assistant professor of dermatology

Latest degree

Subspecialist

Other areas of specialty/work

Dermatology

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

مهین افلاطونیان

Position
Assistant professor of dermatology
Latest degree
Subspecialist
Other areas of specialty/work
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Person responsible for updating data

Contact
Name of organization / entity
Kerman University of Medical Sciences
Full name of responsible person
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Position
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Latest degree
Subspecialist
Other areas of specialty/work
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available
Study Protocol
Yes - There is a plan to make this available
Statistical Analysis Plan
Yes - There is a plan to make this available
Informed Consent Form
Yes - There is a plan to make this available
Clinical Study Report
Yes - There is a plan to make this available
Analytic Code
Yes - There is a plan to make this available
Data Dictionary
Yes - There is a plan to make this available
Title and more details about the data/document
All of the data can be shared after unidentifiable people.
When the data will become available and for how long
Start the access period 6 months after publishing the results
To whom data/document is available
Only for researchers working in academic and scientific institutions
Under which criteria data/document could be used
Any analysis of the data is allowed but not published.A written request with a valid letter from a university or scientific institution with an identification card is required.
From where data/document is obtainable
Roozbeh Mehrabadi
What processes are involved for a request to access data/document
A written request will be submitted to the research Vice-chancellor of the Kerman University of Medical Sciences with a valid letter from the University or institute.
Comments