

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jul 2026

### Comparison of the efficacy of garlic extracts 10% and cryotherapy (liquid nitrogen) in the treatment of the genital warts in men.

#### Protocol summary

##### Summary

The aim of this clinical trial is comparison the efficacy of 10% garlic extract and Cryotherapy in treatment of genital warts in men. For evaluation a new effective and low cost treatment and less side effects. 33 male patients referred to dermatology clinic of Imam hospital in Ahvaz with genital warts were enrolled. The informed consent was taken from all patients who enrolled in the study. The inclusion criteria includes: clinically diagnosed genital warts and have more than two warts on both sides of genital region. Excluding criteria includes: past history of sensitivity to garlic. Diagnosis was made by two dermatologists. In ambiguous cases a biopsy was taken. Demographic data on age, duration of disease, size and number of lesions were recorded. Cryotherapy with- 196° temperature liquid nitrogen was performed for all right sided warts and garlic extract 10% was applied on all left-sided warts. A cotton swab immersed in garlic extract was applied for 10 seconds on left side lesions. Garlic extract was prepared by pharmacy school of Jundishapur University of Medical Sciences. cryotherapy was applied every two weeks. Participants were trained to self apply garlic extract twice a day with a cotton swab. They were visited every two weeks up to 8 weeks. Before, during and at the end of study photography was taken by camera (canon, 5megapixel) at a thirty centimeter distance and full face. At the end of 8th week data on both groups were analyzed.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201202138992N1**

Registration date: **2012-05-27, 1391/03/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2012-05-27, 1391/03/07

##### Registrant information

###### Name

Abolfath Mehrabian

###### Name of organization / entity

Jundishapur University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 61 1292 1837

###### Email address

mehrabian.a@ajums.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Ahvaz Jundishapur University of Medical Sciences

##### Expected recruitment start date

2011-03-13, 1389/12/22

##### Expected recruitment end date

2011-09-13, 1390/06/22

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of the efficacy of garlic extracts 10% and cryotherapy (liquid nitrogen) in the treatment of the genital warts in men.

##### Public title

The efficacy of cryotherapy versus garlic extract 10% in the treatment of genital warts in men.

##### Purpose

Treatment

## Inclusion/Exclusion criteria

Inclusion criteria :men; more than two warts on both sides of genital region  
Exclusion criteria: patients with past history sensitivity to garlic.

## Age

No age limit

## Gender

Male

## Phase

N/A

## Groups that have been masked

No information

## Sample size

Target sample size: 33

## Randomization (investigator's opinion)

N/A

## Randomization description

## 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

Jundishapur University of Medical Sciences

##### Street address

Ahvaz Jundishapur University of Medical Sciences

##### City

Ahvaz

##### Postal code

#### Approval date

2011-03-12, 1389/12/21

#### Ethics committee reference number

EPH129

## Health conditions studied

### 1

#### Description of health condition studied

Genital wart

#### ICD-10 code

A63.0

#### ICD-10 code description

Anogenital (venereal) warts

## Primary outcomes

### 1

#### Description

Genital warts

#### Timepoint

2 weeks

#### Method of measurement

Number of genital warts

## Secondary outcomes

### 1

#### Description

Contact dermatitis

#### Timepoint

2 weeks

#### Method of measurement

Patients report & observer

## Intervention groups

### 1

#### Description

A cotton swab immersed in 10% garlic extract was applied for 10 seconds on left side lesions twice daily for 8 weeks by the patients.

#### Category

Treatment - Drugs

### 2

#### Description

Cryotherapy with -196° temperature liquid nitrogen by the open spray method was applied every two weeks up to 8 weeks and appearance of 1-1.5 mm frozen margin was considered the end of Procedure.

#### Category

Treatment - Other

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Khomeini Hospital

##### Full name of responsible person

Abolfath Mehrabian

##### Street address

Imam Khomeini Hospital, Ahvaz, Iran

##### City

Ahvaz

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Jundishapur University of Medical Sciences

**Full name of responsible person**  
Mostafa Fegghi  
**Street address**  
Jundishapur University of Medical Sciences  
**City**  
Ahvaz  
**Grant name**  
**Grant code / Reference number**  
**Is the source of funding the same sponsor organization/entity?**  
Yes  
**Title of funding source**  
Jundishapur 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**  
Jundishapur University of Medical Sciences  
**Full name of responsible person**  
Abolfath Mehrabian  
**Position**  
Resident of Dermatology  
**Other areas of specialty/work**  
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## Person responsible for scientific inquiries

### Contact

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## Person responsible for updating data

### Contact

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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*