

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 May 2026

Efficacy and safety of nd:yag laser therapy with cryotherapy in extremities(hand,foot) wart

Protocol summary

Summary

The main goal of this study is analyzing the effect of ND YAG laser as an effective alternative method and accessible choice for treatment of extremities wart. This study is based on clinical trial. Inclusion criteria: Bilateral warts on extremities (hand ,foot) Exclusion criteria: Immunodeficiency state, immunomodulator drug usage during 4 weeks past, history of antiviral agent during 2 weeks past, pregnancy, breast feeding. Design: randomized, double blinded, parallel, phase1 clinical trial. Methodology: Targets are selected among the Patients referring to Shohada-e-Tajrish Educational Hospital. target sample size is 63 which has been selected from our outpatient clinic. Implantation method: The patients with bilateral extremities' warts are the targets of this study ,and all of their demographics datas and properties(site ,diameter) of warts and association are saved. After preparation and anesthesia one side treat with Cryotherapy with liquid nitrogen, and another side treat with nd:yag laser. The diameter of each lesion is measured and the evaluated both before each treatment session and 3months after the last one with digital photography and ruler as well and the assessment of side effects (eg., pain, stinging, pruritus, redness, bulla , bleeding, crust formation, hypopigmentation, hyperpigmentation, scar, atrophy)is performed. Index of treatment is according to average and standard deviation which is deviation the number of treated lesion into the number of total lesions.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016050127707N1**

Registration date: **2016-08-16, 1395/05/26**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-08-16, 1395/05/26

Registrant information

Name

Behzad Iranmanesh

Name of organization / entity

Shahid Behshti Medical University, Skin Research Center

Country

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Recruitment status

Recruitment complete

Funding source

Skin Research Center of Shahid Beheshti Medical University.

Expected recruitment start date

2016-01-21, 1394/11/01

Expected recruitment end date

2018-01-21, 1396/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy and safety of nd:yag laser therapy with cryotherapy in extremities(hand,foot) wart

Public title

Efficacy of laser therapy in extrimity wart

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: bilateral warts on extremities (upper or lower) Exclusion criteria: immunodeficiency state (diabetes mellitus; alcohol abuse) congenital immunodeficiency disorders; hematologic malignancy; drug history of immunomodulator agent during 4 weeks past; drug history of anti viral agent during 2 weeks past; pregnancy; breast feeding.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 63

Randomization (investigator's opinion)

Randomized

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

shahid beheshti medical university

Street address

chamran high way, yaman street, arabi street

City

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Postal code

Approval date

2015-12-13, 1394/09/22

Ethics committee reference number

IR.SBMU.RAM.REC.1394.419

Health conditions studied

1

Description of health condition studied

wart

ICD-10 code

A63.0

ICD-10 code description

Anogenital (venereal) warts

Primary outcomes

1

Description

diameter of primary lesion on centimeters

Timepoint

2 weeks

Method of measurement

ruler

Secondary outcomes

1

Description

blister and ulcer formation

Timepoint

2 weeks

Method of measurement

physical examination

Intervention groups

1

Description

The patients with bilateral extrimitie's warts will join to study, and all of their demographic data and properties (site, diameter) of warts and association are saved. After preparation and anesthesia one side is treated with long pulsed Nd:YAG laser (laser optek) with setting, fluence: 200 J/cm², spot size: 3mm, duration: 20ms, wave length: 1064 nm. In every session with 3 shots circular guide. All patients follow and evaluate 3 months after the last session, index of treatment is treated lesion divided into total lesions.

Category

Other

2

Description

The patients with bilateral extrimitie's warts will join to study, and all of their demographic data and properties (site, diameter) of warts and association are saved. After preparation and anesthesia one side is treated with cryo therapy with liquid nitrogen -196°C and 2mm margin with open spray every 2 weeks by 3 times.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shohada e Tajrish

Full name of responsible person

Dr.Mehdi Gheisari-Assistant Professor of Dermatology

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Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

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Tehran

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

Yes

Title of funding source

Shahid Beheshti University of Medical Science-Skin Research Center.

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**

Skin Research Center

Full name of responsible person

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Position

Assistant Resident of Dermatology

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Fax**Email****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