

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comprehensive Analysis of Effectiveness and Complications of Lateral Matricectomy With Phenol 90%, TCA 100% & RF in Patients With Ingrown Toenail

Protocol summary

Study aim

Comprehensive Analysis of Effectiveness and Complications of Lateral Matricectomy With Phenol 90%, TCA 100% & RF in Patients With Ingrown Toenail

Design

Three Parallel Group Randomized Clinical Trail With Blinded Outcome Assessment, Randomization Will be Conducted Using a Table of Random Numbers. Number of Patients Will be 12 and These Patients Will Be Followed For Six Months.

Settings and conduct

The Patients With Ingrown Toenail Who Are Volunteer to Participate in the Research Will Be Surgically Operated on in the Dermatology Clinic of Rasool Akram Hospital of Tehran. Each of the Patients Will Randomly Receive One of the Lateral Matricectomy Treatment Methods With Phenol 90%, TCA 100% or Radio Frequency. Since This Study Is a Single-Blind, Patients Will Be Unaware of the Details of the Method Used For Their Treatment.

Participants/Inclusion and exclusion criteria

Patients With Grades 2 and 3 Ingrown Toenail

Intervention groups

lateral Matricectomy With Phenol 90%, TCA 100% & RF

Main outcome variables

Treatment Modality; Post Surgery Infection; Post Surgery Drainage; Recurrence; Cosmetic Effect; Pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220228054152N1**

Registration date: **2023-01-03, 1401/10/13**

Registration timing: **retrospective**

Last update: **2023-01-03, 1401/10/13**

Update count: **0**

Registration date

2023-01-03, 1401/10/13

Registrant information

Name

Zahra Keshavarz

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3731 1221

Email address

s.zahrakeshavarz@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-09-23, 1401/07/01

Expected recruitment end date

2022-10-23, 1401/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comprehensive Analysis of Effectiveness and Complications of Lateral Matricectomy With Phenol 90%, TCA 100% & RF in Patients With Ingrown Toenail

Public title

Comprehensive Analysis of Effectiveness and Complications of Lateral Matricectomy in Patients With Ingrown Toenail

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients With Ingrown Toenail

Exclusion criteria:

Patients With Diabetes Melitus, Venous Insufficiency, Platelet or Coagulation Disorders

Age

From **16 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **12**

Randomization (investigator's opinion)

Randomized

Randomization description

A Simple Random Sampling Method Will Be Used. Treatment Candidates Will Be Placed In One of the Three Treatment Groups (i.e., Phenol 90%, TCA 100% and Radio Frequency) Using the Table of Random Numbers.

Blinding (investigator's opinion)

Single blinded

Blinding description

Since the Entire Treatment Process Will Be Carried Out By the Researcher (With the Supervision of the Thesis Committee), and the Healthcare Providers Have No Intervention, Only the Patients With Ingrown Toenail Will Be Blind. In This Regard, After Receiving the Patient's Consent, One of the Three Studied Treatment Methods Will Be Used to Treat the Patient. To Avoid Research Bias, Explanations about the Name and Details of the Treatment Method Will Not Provided to the Patients.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Iran University of Medical Sciences

Street address

Shahid Hammat Highway, Hammat Gharb, Between the Intersection of Sheikh Fazlullah Nouri and Shahid Chamran, Iran University of Medical Sciences and Health Services

City

Tehran

Province

Tehran

Postal code

1449614535

Approval date

2021-08-01, 1400/05/10

Ethics committee reference number

IR.IUMS.FMD.REC.1400.310

Health conditions studied

1

Description of health condition studied

Ingrown Toenail

ICD-10 code

L60.0

ICD-10 code description

Ingrowing nail

Primary outcomes

1

Description

Cure Rate of Ingrown Toenail

Timepoint

2, 14, 30, 60, 180 days after surgery

Method of measurement

Questionnaire and Photography

Secondary outcomes

empty

Intervention groups

1

Description

In This Research, Three Intervention Groups (i.e., Different Treatment Modals) Will Be Compared. All Groups Are Randomly Selected. The First Intervention Group will be Surgically Operated by Lateral Matricectomy Using Phenol 90% . The Second Intervention Group Will Be Treated With Lateral Matricectomy and TCA 100% . For the Treatment of The Third Intervention Group, The Lateral Matricectomy and Radiofrequency Will Be Used.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Rasool Akram hospital

Full name of responsible person

Zahra Keshavarz

Street address

Rasool Akram hospital, Maziar Mansuri Aven., Satar
Khan St.

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s.zahrakeshavarz@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Kazem Mousavizadeh

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Phone

+98 21 8670 4837

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mousavizadeh.k@iums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Iran 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

Iran University of Medical Sciences

Full name of responsible person

Zahra Keshavarz

Position

resident

Latest degree

Medical doctor

Other areas of specialty/work

Dermatology

Street address

Rasool Akram hospital, Maziar Mansuri Ave., Satar
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Person responsible for scientific inquiries

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

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resident

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Person responsible for updating data

Contact

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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

No - There is not a plan to make this available

Title and more details about the data/document

Part of the data, such as the consequences of using each of the materials in surgery, the study protocol, statistical analysis, the informed consent form, the study report and the codes used for analysis are shared.

When the data will become available and for how long

The access period starts 6 months after results publication

To whom data/document is available

Researchers working in academic and scientific institutions

Under which criteria data/document could be used

If an official application is sent and permission is obtained, data usage is possible.

From where data/document is obtainable

All the Documents and Data of This Research Are Available to The Thesis Supervisor. Applicants Can Access These Documents By Referring to The Dermatology Clinic of Rasoul Akram Hospital in Tehran. In Addition, Applicants Can Submit Their Requests to zahrakeshavarz@gmail.com.

What processes are involved for a request to access data/document

The data will be sent no later than two weeks after receiving the application and verifying the identity of the applicant.

Comments