

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Sep 2026

Comparison of effects of Enalapril and Pseudoephedrine in the treatment of hypertrophic scar.

Protocol summary

Summary

The objective of present study is to investigate the effect of Verapamil (Calcium channel blocker) and Psuedoephedrin (antihistamine) in the treatment of hypertrophic scar. We select 60 patients with age between 15 to 60 years old who have two hypertrophic scars over two different parts of body which are the same size and shape clinically. Patients will be divided to two groups to receive Enalapril ointment 1% or pseudoephedrine ointment 1% on Hypertrophic scar in one scar and placebo on another for 6 months. We will Compare size of scar and severity of itching between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138805191605N5**

Registration date: **2009-09-19, 1388/06/28**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2009-09-19, 1388/06/28

Registrant information

Name

Ali Akbar Mohammadi

Name of organization / entity

Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 71 1621 6097

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mohamadiaa@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research

Expected recruitment start date

2008-12-31, 1387/10/11

Expected recruitment end date

2010-01-01, 1388/10/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of effects of Enalapril and Pseudoephedrine in the treatment of hypertrophic scar.

Public title

Comparison of effects of Enalapril and Pseudoephedrine in the treatment of hypertrophic scar.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age 15-60 years, having two same hypertrophic scar in two part of Exclusion criteria: history of drug hypersensitivity to study medications, pregnancy, presence of cardiovascular diseases

Age

From **15 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Not randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shiraz University of Medical Sciences,Ghotb-eddin
Burn Center

Street address

Fakhrabad Street, Shiraz

City

Shiraz

Postal code

71638-54733

Approval date

empty

Ethics committee reference number

4538-87-CT

Health conditions studied

1

Description of health condition studied

Hypertrophic scar

ICD-10 code

L91

ICD-10 code description

Hypertrophic disorders of skin

Primary outcomes

1

Description

burn site itching

Timepoint

monthly for following 6 months.

Method of measurement

A 5 point rating score (0=no itching, 4= very severe
itching)

2

Description

Size of scar

Timepoint

monthly for 6 months

Method of measurement

In millimeter

Secondary outcomes

empty

Intervention groups

1

Description

Enalapril ointment 1% on Hypertrophic scar in one side
and placebo on Hypertrophic scar in another side for 6
months

Category

Treatment - Drugs

2

Description

Pseudoephedrine ointment 1% on Hypertrophic scar in
one side and placebo on Hypertrophic scar in another
side for 6 months

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ghotb-eddin Burn Center

Full name of responsible person

Street address

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for Research

Full name of responsible person

Mohammad Hossein Dabbaghmanesh

Street address

Vice-chancellor of Research, Shiraz University of
Medical Sciences

City

Shiraz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice-chancellor for Research

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
Shiraz University of Medical Sciences
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Ali Akbar Mohammadi
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Assistant Professor, General Surgeon
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Person responsible for scientific inquiries

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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