

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jun 2026

Early Excision and Skin Grafting versus Delayed Skin Grafting in Deep hand Burns

Protocol summary

mohamadiaa@sums.ac.ir

Summary

In this study early excision and skin grafting was compared with delay skin grafting in deep hand burns. During 16 months, fifty patients with hand burn with burn size less than 30% TBSA (total body surface area) of deep second and third degree which at least one of the hands also involved with 3 degree burn were randomly allocated into early excision and grafting group (Group I) and delayed grafting group (Group II). We prepared a questionnaire based on DASH (Disabilities of the Arm, Shoulder and Hand) questionnaire to evaluate final functional outcome of hand movements. Also hypertrophic scar formation, contracture and deformities were measured accordingly.

Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Sciences, Vice chancellor for Research

Expected recruitment start date

2006-09-01, 1385/06/10

Expected recruitment end date

2008-01-01, 1386/10/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138711091605N1**

Registration date: **2009-05-08, 1388/02/18**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2009-05-08, 1388/02/18

Registrant information

Name

Ali Akbar Mohammadi

Name of organization / entity

Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 71 1621 6097

Email address

Scientific title

Early Excision and Skin Grafting versus Delayed Skin Grafting in Deep hand Burns

Public title

Early Excision and Skin Grafting versus Delayed Skin Grafting in Deep hand Burns

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Hand burn with size less than 30% TBSA (total body surface area) of deep second and third degree which at least one of the hands also involved with 3 degree burn Exclusion criteria: burn as a component of multiple Trauma, elderly patients with comorbidity, significant inhalation injury or need to intensive care.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not 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

2017-11-21, 1396/08/30

Ethics committee reference number

CT-86-3774

Health conditions studied

1

Description of health condition studied

Deep hand Burns

ICD-10 code

T23

ICD-10 code description

Burn and corrosion of wrist and hand

Primary outcomes

1

Description

Disabilities of hand

Timepoint

weekly for first month and then monthly for the following
3 months

Method of measurement

Direct supervision by the surgeon and completed
questionnaire(disability scores of five daily activities of

hand including combing, opening a can, typing or writing,
moving objects)

2

Description

Hypertrophic scar formation after operation

Timepoint

weekly for first month and then monthly for following 3
months.

Method of measurement

by specific ruller

Secondary outcomes

1

Description

Complication after surgery

Timepoint

6-8 mounths after surgery

Method of measurement

follow up by sergeon

Intervention groups

1

Description

Early Excision and Skin Grafting

Category

Treatment - Drugs

2

Description

Delayed Skin Grafting

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ghotb-eddin Burn Center

Full name of responsible person

Street address

City

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

Full name of responsible person

Ali akbar Mohammadi

Position

Assistant Professor, General Surgeon

Other areas of specialty/work

Street address

Fakhrabad Street, Shiraz

City

Shiraz

Postal code

71638-54733

Phone

+98 71 1821 9638

Fax

+98 71 1821 7090

Email

mohamadiaa@sums.ac.ir

Web page address

**Person responsible for scientific
inquiries**

Contact

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Ali Akbar Mohammadi

Position

Assistant Professor, General Surgeon

Other areas of specialty/work

Street address

Fakhrabad Street, Shiraz

City

Shiraz

Postal code

71638-54733

Phone

Fax

Email

mohamadiaa@sums.ac.ir

Web page address

Person responsible for updating data

Contact

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