

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Determination of effect of silver nanocrystal dressing (Agicoat) in second degree burn patients of Motahhari hospital and comparison it with Acticoat and silver sulfadiazine

Protocol summary

Summary

This study is designed for comparison between effects of Agicoat, Acticoat and silver sulfadiazine in second degree burn between 15-40% referred to Motahhari hospital that are not candidate for surgical intervention. Total number of 120 patients are divided into three groups of treatment. The dressing will do upon related protocol. Primary outcome measures include scar of burn wound, epithelialization time, total days of admission, pain severity and narcotic usage, infection rate and total cost of each group. Exclusion criteria: 1- Unresidency of patients in Tehran 2- Underlying medical diseases 3- Sensitivity to Ag 4- Young and old ages: under 5 and over 65 years old

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201206237913N2**
Registration date: **2012-10-08, 1391/07/17**
Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2012-10-08, 1391/07/17

Registrant information

Name

Mohammadreza Akhoondinasab Meibodi

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 8888 4275

Email address

m-akhoondinasab@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Emad pharmacy company

Expected recruitment start date

2012-10-22, 1391/08/01

Expected recruitment end date

2013-08-23, 1392/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Determination of effect of silver nanocrystal dressing (Agicoat) in second degree burn patients of Motahhari hospital and comparison it with Acticoat and silver sulfadiazine

Public title

Effect of Agicoat (silver nanocrystal dressing) in burn wound

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 1- 2nd degree burn between 15- 40%
Exclusion criteria: 1- Unresidency of patients in Tehran
2- Underlying medical diseases 3- Sensitivity to Ag
4- Young and old ages: under 5 and over 65 years old

Age

From **5 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 82

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

Iranian Registry of Clinical Trial

Street address

Second floor, No. 7, Poorsina ave., Ghods st.,
Enghelab square

City

Tehran

Postal code

Approval date

2012-08-01, 1391/05/11

Ethics committee reference number

90-03-129-14757-57675

Health conditions studied

1

Description of health condition studied

Burn

ICD-10 code

T29.6

ICD-10 code description

Corrosions of multiple regions, no more than second-degree corrosions mentioned

Primary outcomes

1

Description

Scar

Timepoint

1 mo and 3mo and 6mo after discharge

Method of measurement

Vancouver scar scale scor

2

Description

Wound epithelialization

Timepoint

1wk after intervention and every 3days till 6wk

Method of measurement

Day

3

Description

Admission duration

Timepoint

Discharge date

Method of measurement

Discharge date minus admission date

4

Description

Infection

Timepoint

From time of admission till 1 mo after discharge

Method of measurement

Culture- biopsy

5

Description

Pain severity

Timepoint

Every 3 days till discharge date

Method of measurement

Visual analogue scale

6

Description

Expenditure

Timepoint

At discharge date

Method of measurement

Rial

Secondary outcomes

1

Description

Ethiology

Timepoint

Admission time

Method of measurement

Scald, Fire

2

Description

Burn percentage

Timepoint

Admission time

Method of measurement

Tatal body surface burned

3

Description

Age

Timepoint

Admission time

Method of measurement

Year of entrance to study minus birth day

Intervention groups

1

Description

Dressing with silver sulfadiazine daily (closed dressing): the ointment will apply daily and with sterile gauze will close

Category

Treatment - Drugs

2

Description

Acticoat dressing apply after wetting it by distilled water and fixing it to bed by tape and melonin and moistuering it by distilled water every 6 hours.The dressing will change every 4 days till wound healing

Category

Treatment - Drugs

3

Description

Agicoat dressing will undertake after wetting it by distilled water and applying itver wound. The first dressing change will take place after 72 hours or when there is discharge from wound.If there is no discharge the dressing can be left for 7 to 10 days over wound .

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Motahhari hosp.

Full name of responsible person

Mohammadreza Akhoondinasab

Street address

Motahhari hospital,Yasami alley, Valiasr st.

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Emad pharmacy co.

Full name of responsible person

Amuee dr.

Street address

Emad pharmacy co., No.18.1, Sepahsalar, Sajjad st.

City

Isfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Emad pharmacy co.

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

Tehran University of Medical Sciences

Full name of responsible person

Mohammadrza Akhoondinasab

Position

Postgraduate of plastic surgery

Other areas of specialty/work

Street address

Motahhari hosp.

City

Tehran

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Phone

+98 21 8877 0031

Fax

Email

burncenter_89@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mohammadreza Akhoondinasab

Position

Assistant professor of plastic surgery

Other areas of specialty/work

Street address

Motahhari hosp.

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Person responsible for updating data

Contact

Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Mohammadreza Mobaiien
Position
Burn fellowship
Other areas of specialty/work
Street address
Motahhari hosp.
City

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