

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

30 Jul 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

##### Postal code

##### 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*