

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jul 2026

### Comparison the effect of regular dressing and Acticoat on wound healing and pain in patients admitted to hospital for treatment of burns at Clinic Vali Asr (aj), Arak 2010-2012

#### Protocol summary

##### Summary

**Introduction:** One of the new treatments in burn is producing of dressing by using Nanotechnology. This study compared the effects of silver sulfadiazine 1% cream and Acticoat dressing on burn wound healing.

**Methods:** This randomized, controlled trial was done in vali Asr Hospital of Arak city in Iran. The patients were randomly divided into two equal groups: group I (n = 32), treated topically with silver sulfadiazine 1% cream and group II (n = 32), control group, treated topically with Acticoat dressing. Wound healing process was examined using the wound assessment tool of Bats-Jensen.

**Analysis of variance:** REMANOVA was used to evaluate the differences of wound healing parameters between treated and control groups.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2012123111940N2**  
Registration date: **2013-09-07, 1392/06/16**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2013-09-07, 1392/06/16

##### Registrant information

##### Name

Azam Malek Hoseini

##### Name of organization / entity

Arak University of Medical sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 86 1226 7892

##### Email address

m.saeedi@arak.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

All costs were provided by the researcher

##### Expected recruitment start date

2010-03-20, 1388/12/29

##### Expected recruitment end date

2011-03-20, 1389/12/29

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison the effect of regular dressing and Acticoat on wound healing and pain in patients admitted to hospital for treatment of burns at Clinic Vali Asr (aj), Arak 2010-2012

##### Public title

The effect of Acticoat and usual dressing on Wound healing and burnt patients' pain.

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria were: all burn patients with the following conditions have been chosen as examples: 1) the subjects burned grade 2, grade 3, or a combination, of less than 15% body surface area burns were. 2) ulcer patients not treated with contaminated materials. Before entering the study, samples of any substance other than potable water were not used on wounds. 3) All subjects before entering the study were

infected symptomatic of the body. 4) None of the participants in the research underlying immune deficiency diseases such as diabetes, cancer, AIDS, and high blood pressure. .... Did not. 6) willingness to participate in the study were injection molded, and able to answer questions. Exclusion criteria were: 1) Patients who were admitted to the burn unit. 2) After approval of the study, patients were withdrawn from treatment. 3) In case of any allergies or sensitivity to drug treatment. 4) In case of any signs of wound infection in spite of treatment.

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: 64

**Randomization (investigator's opinion)**

Randomized

**Randomization description****Blinding (investigator's opinion)**

Double blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Islamic Azad University of Medical Sciences

**Street address**

Tehran, Shariati St, zargandeh, Islamic Azad University, Tehran Medical Unit

**City**

Tehran

**Postal code**

00981916893813

**Approval date**

2009-09-23, 1388/07/01

**Ethics committee reference number**

123-8-234

**Health conditions studied****1****Description of health condition studied**

Burn

**ICD-10 code**

T20-25

**ICD-10 code description**

Burns and corrosions of external body surface, specified by site

**Primary outcomes****1****Description**

Wound healing

**Timepoint**

days 1, 7 and 15

**Method of measurement**

The wound assessment tool Baets - Jensen

**2****Description**

Pain at dressing change

**Timepoint**

Days 1,7 and 15

**Method of measurement**

Using the Numeric Pain tool

**Secondary outcomes****1****Description**

Pain

**Timepoint**

days 1, 7 and 15

**Method of measurement**

Using the Numeric Pain tool

**Intervention groups****1****Description**

The experimental group was treated with Acticoat dressing I for two weeks

**Category**

Treatment - Drugs

**2****Description**

The control group was treated with Sulfadiazine 1% for two weeks.

**Category**

Treatment - Drugs

**Recruitment centers****1****Recruitment center**

**Name of recruitment center**

Vali Asr Hospital

**Full name of responsible person**

Azam Malekhoseini

**Street address**

Thirty yards Ayatollah Ghafari St., Vali Asr (aj)

**City**

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malekhoseni.aram@gmail.com

**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

arak university of medical science

**Full name of responsible person**

Azam malekhoseini

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MS in Nursing

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**Web page address****Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Islamic Azad University, Tehran Medical Branch

**Full name of responsible person**

Dr. Syed Shahabuddin Mohseni

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Tehran Medical Branch , Islamic Azad UniversityT,

khaghani st, shariati Ave , Tehran, Iran

**City**

Tehran

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Islamic Azad University, Tehran Medical Branch

**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**

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**Fax****Email****Web page address****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*