

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)

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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)

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Arak

malekhoseni.aram@gmail.com

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

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Full name of responsible person

Azam malekhoseini

Position

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

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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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Full name of responsible person

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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