Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 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 wsa 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 l 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
Arak

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Islamic Azad University, Tehran Medical Branch
Full name of responsible person
Dr. Syed Shahabuddin Mohseni
Street address
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
Arak University of Medical Sciences
Full name of responsible person
Azam malekhoseini
Position
MS in nursing
Other areas of specialty/work
Street address
Thirty yards Ayatollah Ghafari St., Vali Asr (aj)
City
Arak
Postal code
3817834467
Phone
+86 12267892
Fax
Email
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
Position
MS in Nursing
Other areas of specialty/work
Street address
Bsyh Square, site Sardasht, School of Nursing and Midwifery
City
Arak
Postal code
38481-7-6941
Phone
+86 12267892
Fax
Email
Account Optionsmalekhoseni.aram@gmail.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Arak university of medical science
Full name of responsible person
Azam malekhoseini
Position
MS in Nursing
Other areas of specialty/work
Street address
Bsyh Square, site Sardasht, School of Nursing and Midwifery
City
Arak
Postal code
38481-7-6941
Phone
+86 12267892
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