Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Effect of aloe vera gel, compared to 1% silver sulfadiazine cream on second-degree burn

Protocol summary

Summary
Introduction: Aloe vera has been traditionally used for burn healing but clinical evidence remains unclear. This study compared the effects of silver sulfadiazine 1% cream and Aloe vera gel 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 Aloe vera gel. 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: **IRCT2012123011940N1**
Registration date: **2013-02-10, 1391/11/22**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date
2013-02-10, 1391/11/22

Registrant information

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Azam Malek Hoseini
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Arak University of Medical sciences
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Iran (Islamic Republic of)
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Recruitment status
Recruitment complete

Funding source
governmental

Expected recruitment start date
2010-04-21, 1389/02/01
Expected recruitment end date
2012-10-22, 1391/08/01
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Effect of aloe vera gel, compared to 1% silver sulfadiazine cream on second-degree burn

Public title
Effect of aloe vera in the treatment of burn wounds
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria: subjects with second degree burns less than 15% of the body surface area; max 6 hours after the beginning of burning; burnt wound without any contamination; not using any substance except potable water on wounds; not having any symptomatic infections in the body; not having any underlying immune deficiency diseases, diabetes, cancer, AIDS, hypertension, and ...; willingness to participate in the research and able to answer the questions. Exclusion criteria: Patients who are admitted in the burn unit for other reasons; patients who want to withdraw; any allergy or sensitivity to the treatment drug.
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
Arak University of Medical Sciences
Street address
Basij Square
City
Arak
Postal code
38481-7-6941
Approval date
2012-06-21, 1391/04/01
Ethics committee reference number
2-124-90

Health conditions studied

1

Description of health condition studied
Burn
ICD-10 code
T20,T21,T2
ICD-10 code description
Burns

Primary outcomes

1

Description
wound healing
Timepoint
days 1, 7, 15
Method of measurement
The wound assessment tool baets - Jensen

2

Description
Pain at dressing change
Timepoint
days 1, 7, 15
Method of measurement
The Numeric Pain Scale

Secondary outcomes

empty

Intervention groups

1

Description
The experimental group was treated with aloe vera gel 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
Ayatollah Ghafari St., Vali Asr (aj)
City
Arak

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Arak University of Mdical sciences
Full name of responsible person
Davood Hekmatpoo
Street address
Basij Square
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Grant name

تفویض اختیاری دانشکده پرستاری مامایی

Grant code / Reference number
763

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

Title of funding source
Arak University of Mdical sciences

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

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MS in Nursing

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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