

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Jul 2026

Comparison of suction sponge and conventional wound dressings in the open fracture wounds

Protocol summary

Summary

The aim of this study was to Comparison of suction sponge and conventional wound dressings in the Patients with open fracture wounds. A non-randomized single-blind clinical trial was designed. Inclusion criteria were: patients referred with open fracture wounds, Age between 20 to 40 years. and Exclusion criteria were: Diseases affecting wound healing (diabetes, kidney disease, anemia, liver diseases, anxiety disorders), smoking and drug abuse, consumption of drugs affecting wound healing (glucocorticoids, anti-coagulation, immune system suppressants, antibiotics or chemotherapy agents). All participants in the study were randomly divided into two groups. One group was treated with suction sponge dressing and the other group was treated with conventional dressings. The patients were followed for 6 months. At the end of the study, infection and hospitalization days in both groups were recorded and compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015032914190N8**

Registration date: **2015-04-10, 1394/01/21**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-04-10, 1394/01/21

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research and Technology Development, Ahvaz Jondishapur University of Medical Sci

Expected recruitment start date

2014-08-23, 1393/06/01

Expected recruitment end date

2015-03-21, 1394/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of suction sponge and conventional wound dressings in the open fracture wounds

Public title

Effect of suction sponge dressings in the treatment of open fracture wounds

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients referred with open fracture wounds, Age between 20 to 40 years. Exclusion criteria: Diseases affecting wound healing (diabetes, kidney disease, anemia, liver diseases, anxiety disorders), smoking and drug abuse, consumption of drugs affecting wound healing (glucocorticoids, anti-coagulation, immune system suppressants, antibiotics or

chemotherapy agents).

Age

From **20 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

N/A

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

Ethics committee of Ahvaz Jundishapur University of
Medical Sciences

Street address

Ahvaz Jundishapur University of Medical Sciences,
University City, Ahvaz

City

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Postal code

Approval date

2014-09-01, 1393/06/10

Ethics committee reference number

ajums.REC.1393.45

Health conditions studied

1

Description of health condition studied

Surgical Site Infection and Wound Healing

ICD-10 code

L08.9

ICD-10 code description

Local infection of skin and subcutaneous tissue,
unspecified

Primary outcomes

1

Description

Duration Of Hospital Administration

Timepoint

At the end of the study

Method of measurement

Patient assessment conducted by questionnaire

Secondary outcomes

1

Description

wound infection

Timepoint

At the end of the study

Method of measurement

clinical findings and wound culture

Intervention groups

1

Description

Control group: patients treated with conventional
dressings and were followed for 6 months.

Category

Treatment - Drugs

2

Description

Intervention group: patients treated with suction sponge
dressing and were followed for 6 months.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Emmam Khomeini Hospital

Full name of responsible person

Dr. Hamidreza Arti

Street address

Emmam Khomeini Hospital, Orthopaedic Department,
Azadegan St

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research and Technology
Development, Ahvaz Jondishapur University of
Medical Sci

Full name of responsible person

Dr.Nader Saki

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

Yes

Title of funding sourceVice Chancellor for Research and Technology
Development, Ahvaz Jondishapur University of Medical
Sci**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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Position

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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*