

# 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

##### Name

Mohammad Bahadoram

##### Name of organization / entity

Ahvaz Jundishapur University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 61 1374 3011

##### Email address

bahadoram.m@ajums.ac.ir

##### 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

Ahvaz

##### 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

##### City

Ahvaz

## 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

**Street address**Ground Floor, Faculty of Rehabilitation Sciences  
,Ahvaz Jundishapur University of Medical Sciences,  
Ahvaz**City**

Ahvaz

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

Yes

**Title of funding source**Vice 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**

Ahvaz Jundishapur University of Medical Sciences

**Full name of responsible person**

Dr. Vahid Ebrahimi Nejad

**Position**

Resident of Orthopedic Surgery

**Other areas of specialty/work****Street address**Ahvaz Jundishapur University of Medical Sciences,  
University City, Ahvaz Ahvaz**City**

Ahvaz

**Postal code****Phone**

+98 613336754

**Fax****Email**

atava59@yahoo.com

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

Ahvaz Jundishapur University Of Medical Sciences

**Full name of responsible person**

Dr. Hamidreza Arti

**Position**Orthopaedic Specialist, associated Professor of Ahvaz  
Jundishapur University Of Medical Sciences**Other areas of specialty/work****Street address**Emmam Khomeini Hospital, Orthopaedic Department,  
Azadegan St**City**

Ahvaz

**Postal code****Phone**

+98 61 3338 7481

**Fax****Email**hamidrezaarti@gmail.com ;  
artihamidreza@yahoo.com**Web page address****Person responsible for updating data****Contact****Name of organization / entity**

Ahvaz Jundishapur University of Medical Sciences

**Full name of responsible person**

Mohammad Bahadoram

**Position**

Medical Student

**Other areas of specialty/work****Street address**Ahvaz Jundishapur University of Medical Sciences,  
University City, Ahvaz**City**

Ahvaz

**Postal code****Phone**

00

**Fax****Email**

MohammadBahadoram@yahoo.com

**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*