

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

03 Jul 2026

### The effect of topical formulation containing egg whites on healing of second degree wound in burn patients

#### Protocol summary

##### Summary

The present study is a triangular clinical trial with the aim of determining the effect of topical formulation of egg whites on the improvement of second-degree burn wounds. In this study, the research environment of Taleghani Hospital in Ahvaz is located in Ahvaz, Iran. The study population includes all male and female patients with confirmed diagnosis of grade II burns. The sample size is estimated on the basis of statistical calculations of 90 people who are randomly assigned to two groups (45 persons). Intervention and control are assigned. The therapeutic protocol is this. Second degree ocular lesions, the blister is completely intact, remains intact in the second degree wound, which is usually blotted out, after removing the blisters and dead tissues, and after Daily rinses with normal saline, exposed to air for 5 minutes, to dry. Then, 1% silver sulfadiazine silver ointment is placed on the wound by a sterile abscess of 5 mm size. After 1 hour, without wound healing in the intervention group, a sterile abscess of 5 mm formulation Place the egg white on the wound and dressing. And in the control group, we rub and place the placebo on the wound with a sterile abscess of about 5 milligrams of the placebo.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017053134262N1**

Registration date: **2017-08-07, 1396/05/16**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2017-08-07, 1396/05/16

#### Registrant information

##### Name

hadis ashrafizadeh

##### Name of organization / entity

Ahvaz Jundishapur University of medical sciences, Ahvaz, Iran.

##### Country

Iran (Islamic Republic of)

##### Phone

+98 933 504 7127

##### Email address

ashrafizadeh.h@ajums.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

Vice Chancellor for research of Ahvaz Jundishapur University of medical sciences.

#### Expected recruitment start date

2017-06-10, 1396/03/20

#### Expected recruitment end date

2017-10-10, 1396/07/18

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

The effect of topical formulation containing egg whites on healing of second degree wound in burn patients

#### Public title

The effect of topical formulation containing egg whites on healing of second degree wound in burn patients

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

Inclusion criteria: Second degree burns confirmed by the doctor; The age is between 18-60 years; burn percentage

is less than 15 percent; It is not more than 6 hours from the time of the burn until it enters the research; Areas (face, genitals and perineum) are not included in the study due to the sensitivity of these areas; The amount of hemoglobin and total protein is in the normal range. The normal range of hemoglobin (the Ba18-14 in men and in women 16-12 grams per deciliter) and total protein (8.7 to 6.6 grams per deciliter); The patient's wound is not impregnated with contaminants; Before entering the study samples of any substance other than potable water is not used on wounds; Before entering the study, there is no sign of infection with different parts of the body; underlying immune deficiency diseases such as diabetes, cancer, AIDS, hypertension, malnutrition, etc. is not; The patient is not known to have a skin allergy; is able to respond to questions. Exclusion criteria: During the study, patients need to use immunosuppressive drugs, steroid drugs, chemotherapy drugs and radiation therapy; If there is any indication that an infected burn wounds treated. Any of these symptoms (edema in the area burned along with induration and inflammation of the edges of the wound, discoloration wound burned to dark red, brown, purple, black, presence of purulent discharge, foul-smelling, green and abundant, fever, during the course of treatment) in treated infected wounds and were removed from the sample study and treatment under doctor's supervision changes.

**Age**

From **18 years** old to **65 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **90**

**Randomization (investigator's opinion)**

Randomized

**Randomization description****Blinding (investigator's opinion)**

Triple blinded

**Blinding description****Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids****1****Registry name**

-

**Secondary trial Id**

-

**Registration date**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ahvaz Jundishapur University of medical sciences, Ahvaz, Iran.

**Street address**

Ahvaz Jundishapur University of medical sciences, Ahvaz, Iran.

**City**

Ahvaz Jundishapur University of medical sciences, Ahvaz, Iran.

**Postal code****Approval date**

2017-05-02, 1396/02/12

**Ethics committee reference number**

IR.AJUMS.REC.1396.146

**Health conditions studied****1****Description of health condition studied**

burn

**ICD-10 code**

949

**ICD-10 code description**

949

**Primary outcomes****1****Description**

burn wound

**Timepoint**

The first day / seven days / fifteenth day

**Method of measurement**

To measure wound plastic tape will be used, which is accurate to about 1: 1000 is. The admission to the clinic (first day) and during treatment seventh day and the fifteenth day, the extent of the wound by contact with a tape measure and guide the measurement of transparent measurement and the basis Length Width expressed, and Jensen wound assessment tool Bts- using parameters that are related to the extent of burn wound, the wound (ulcer depth), the edge of the wound, the destruction of underlying tissue, necrotic tissue, necrotic tissue, exudate, the exudate, color of the skin around the wound, peripheral tissue induration, edema peripheral tissues, tissue granulation and epithelialization by the researchers analyzed tissue M And according to points earned from it will be examined wound healing.

**Secondary outcomes**

empty

## Intervention groups

### 1

#### Description

Intervention group1: Second degree ophthalmic ulcers remain intact and remain intact in the second grade wound, which are usually blisters, after removing the blisters and dead tissues, and after daily rinsing with normal saline, is exposed to air for 5 minutes to dry. Then, 1% silver sulfadiazine silver ointment is placed on the wound by a sterile abscess of 5 mm size. After 1 hour, without wound healing in the intervention group, a sterile abscess of 5 mm formulation Place the egg white on the wound and dressing.

#### Category

Treatment - Drugs

### 2

#### Description

Control group: The second degree otitis wounds remained completely intact and in the second grade wound, which was usually blotched, after removing the blisters and dead tissues, and after daily washing with normal saline, is exposed to air for 5 minutes to dry. Then, 1% silver silver sulfadiazine ointment is placed on the wound by a sterile abscess of 5 mm size, and after 1 hour, without wound wound in the control group, a sterile abscess of 5 mm We take the placebo on the wound and dressing.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Ahvaz Jundishapur University of medical sciences, Ahvaz, Iran.

##### Full name of responsible person

hadis ashrafizadeh

##### Street address

2- Student Researches Committee, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran.

##### City

Ahvaz Jundishapur University of medical sciences, Ahvaz, Iran.

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Dr behzad sharif makhmal zadeh

##### Full name of responsible person

hadis ashrafizadeh

##### Street address

Vice Chancellor for research of Ahvaz Jundishapur

University of medical

##### City

Ahvaz Jundishapur University of medical sciences

##### Grant name

-

##### Grant code / Reference number

-

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

Yes

##### Title of funding source

Dr behzad sharif makhmal zadeh

##### 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, Ahvaz, Iran.

##### Full name of responsible person

hadis ashrafizadeh

##### Position

master sciences

##### Other areas of specialty/work

##### Street address

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## Person responsible for scientific inquiries

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##### Position

phd/ master sciences

##### Other areas of specialty/work

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**Postal code****Phone**

00

**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*

**Person responsible for updating data****Contact****Name of organization / entity**

Ahvaz Jundishapur University of medical sciences,  
Ahvaz, Iran.

**Full name of responsible person**

hadis ashrafizadeh

**Position**

master sciences

**Other areas of specialty/work****Street address**