

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of topical application of black seed oil on the prevention of bedsores in patients admitted to the intensive care unit

#### Protocol summary

##### Study aim

Determining the effect of topical application of black seed oil on the prevention of bedsores in patients admitted to the ICU

##### Design

A clinical trial with a control group, parallel, not blinded, randomized, on 72 patients who were selected by available methods and Will be allocated into two groups of intervention and control by the Block randomization method. by Using non-transparent envelopes sealed with random sequences that the lids of the letter envelopes are glued and placed inside a box, respectively. based on the order of entry of eligible participants in the study, one of the envelopes of the letter will be opened in order and the assigned group of the participant will be revealed.

##### Settings and conduct

Patients admitted to the intensive care unit of Imam Sadegh (AS) Hospital in Hashtgerd are selected by available methods and are randomly divided into two groups. For the control group, only the wavy mattress and changing the position will be used every two hours. But for the intervention group, in addition to the wavy mattress and changing the position every two hours, daily, 1-3 cc of the black seed oil is rubbed on the prone areas of bed sores for 7 days, then the results are compared in the two groups.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria include patients, Being between 18 and 75 years old, Not participating in similar research projects in the last six months, and Stable hemodynamic status. Non-entry conditions include bedsores, diabetes, and a history of allergy to black seed oil.

##### Intervention groups

Intervention group: In this group, in addition to the wavy mattress and change Positions every two hours, 1-3 cc of the black seed oil is rubbed on the Susceptible areas of bed sores for 7 days. Control group: In this group, only the wavy mattress and change Positions every two hours

will be used.

##### Main outcome variables

bedsores

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20210317050732N1**

Registration date: **2021-05-15, 1400/02/25**

Registration timing: **prospective**

Last update: **2021-05-15, 1400/02/25**

Update count: **0**

##### Registration date

2021-05-15, 1400/02/25

##### Registrant information

##### Name

Azam Maboudi

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 2200 6660

##### Email address

maboodiazam@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2021-05-20, 1400/02/30

##### Expected recruitment end date

2021-07-21, 1400/04/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

**Trial completion date**  
empty

**Scientific title**  
The effect of topical application of black seed oil on the prevention of bedsores in patients admitted to the intensive care unit

**Public title**  
The effect of topical application of black seed oil on the prevention of bedsores

**Purpose**  
Prevention

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
Patients admitted to the intensive care unit Stable hemodynamic status Not participating in similar research projects in the last six months Being between 18 and 75 years old  
**Exclusion criteria:**  
Having bed sore having diabetes Allergy to black seed oil

**Age**  
From **18 years** old to **75 years** old

**Gender**  
Both

**Phase**  
N/A

**Groups that have been masked**  
*No information*

**Sample size**  
Target sample size: **72**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
The sampling method will initially be available; The samples will then be placed in quadruple blocks by block random sampling. The blockage is usually used to balance the number of samples allocated to each of the studied groups. This feature helps researchers to equalize the number of samples allocated to each of the studied groups in cases where intermediate analyzes are required during the sampling process. All blocks are the same size, and in this two-group experiment, we will have 4 blocks (including 2 participants in the intervention group and 3 participants in the control group). Random allocation software is also used to randomize random sequence production software (Random allocation software). To conceal, we use Allocation concealment, which refers to the method used to perform a random sequence on study participants, so that the assigned group is not identified before the individual is assigned. Using non-transparent envelopes sealed with random sequences (Sequentially numbered, sealed, opaque envelopes). They are placed in order. In order to maintain the random sequence, numbering is done on the outer surface of the envelopes in the same way. Finally, the lids of the letter envelopes are glued and placed inside a box, respectively. At the beginning of the registration of participants, based on the order of entry of eligible participants in the study, one of the envelopes of the letter will be opened in order and the

assigned group of the participant will be revealed.

**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 Tehran Islamic Azad University of Medical Sciences  
**Street address**  
Islamic Azad University Medical Sciences of Tehran, Khaghani street, Shariati Street  
**City**  
Tehran  
**Province**  
Tehran  
**Postal code**  
1916893813

**Approval date**  
2021-03-15, 1399/12/25

**Ethics committee reference number**  
IR.IAU.TMU.REC.1399.571

## Health conditions studied

**1**

**Description of health condition studied**  
Bed sore

**ICD-10 code**  
L89

**ICD-10 code description**  
Pressure ulcer

## Primary outcomes

**1**

**Description**  
Bed sore

**Timepoint**  
Before the intervention and 7 days after the intervention

**Method of measurement**  
The Braden Scale for Predicting Pressure Ulcer Risk

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: in addition to the wavy mattress and change Positions every two hours, 1-3 cc of the black seed oil(With a concentration of 100% made in the Faculty of Pharmacy of Shahid Beheshti University of Medical Sciences in Good laboratory Practice=GLP) is rubbed on the Susceptible areas of bed sores for 7 days.

#### Category

Prevention

### 2

#### Description

Control group: In this group, only the wavy mattress and change Positions every two hours will be used.

#### Category

N/A

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Sadegh (AS) Hospital of Hashtgerd

##### Full name of responsible person

Azam Maboudi

##### Street address

Next to Madar Park , Ayatollah Khamenei Blvd,  
Hashtgerd city , Alborz province

##### City

Hashtgerd

##### Province

Alborz

##### Postal code

3149779453

##### Phone

+98 26 4421 0925

##### Email

Emamjafarsadegh@abzums.ac.ir

##### Web page address

<https://emamjafarsadegh.abzums.ac.ir/fa-IR/emamjafarsadegh.abzums.ac/8841/page/%D8%B5%D9%81%D8%AD%D9%87-%D8%A7%D8%B5%D9%84%DB%8C>

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Islamic Azad University

##### Full name of responsible person

Majid Naghipour

##### Street address

Islamic Azad University Medical Sciences of Tehran,  
Khaghani street, Shariati Street

##### City

Tehran

##### Province

Tehran

##### Postal code

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##### Phone

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##### Email

mnaghipour@gmail.com

##### Grant name

##### Grant code / Reference number

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

Yes

##### Title of funding source

Islamic Azad University

##### Proportion provided by this source

100

##### Public or private sector

Private

##### Domestic or foreign origin

Domestic

##### Category of foreign source of funding

empty

##### Country of origin

##### Type of organization providing the funding

Academic

## Person responsible for general inquiries

#### Contact

##### Name of organization / entity

Islamic Azad University

##### Full name of responsible person

Azam Maboudi

##### Position

Nurse

##### Latest degree

Master

##### Other areas of specialty/work

Nursery

##### Street address

Islamic Azad University Medical Sciences of Tehran,  
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##### Province

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##### Email

maboodiazam@gmail.com

## Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

Islamic Azad University

##### Full name of responsible person

Zohreh Parsayekta

**Position**

Professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Nursery

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## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

**Study Protocol**

Undecided - It is not yet known if there will be a plan to make this available

**Statistical Analysis Plan**

Undecided - It is not yet known if there will be a plan to make this available

**Informed Consent Form**

Undecided - It is not yet known if there will be a plan to make this available

**Clinical Study Report**

Undecided - It is not yet known if there will be a plan to make this available

**Analytic Code**

Undecided - It is not yet known if there will be a plan to make this available

**Data Dictionary**

Undecided - It is not yet known if there will be a plan to make this available

## Person responsible for updating data

**Contact**

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

Azam Maboudi

**Position**

Nurse

**Latest degree**

Master

**Other areas of specialty/work**

Nursery

**Street address**