

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jun 2026

### Assessing the Effect of Topical Sesame Oil on Severity of Pain in Patients with Limb Trauma

#### Protocol summary

##### Study aim

Assessing the effect of topical sesame oil on pain severity caused by limb trauma in patients referring to Rasht Poursina Hospital.

##### Design

A randomized, triple-blind clinical trial. researchers, patients and statisticians are not aware of the study groups.

##### Settings and conduct

120 patients referred to the clinic of Poursina Hospital in Rasht with upper and lower extremity trauma are selected and randomly allocated to intervention group (sesame oil) and control (placebo) (Each group 60 subjects). Patient, researcher and statistician are not aware of the type of groups. Sesame oil and the placebo are encoded before using by the researcher and the patient. Data is entered to Statistical Analysis software by code.

##### Participants/Inclusion and exclusion criteria

inclusion criteria: Patients aged 18-60 years with full consciousness; non-penetrating trauma of the upper or lower extremities; the time of the incident is 1-6 hours before the referral; Their pain is (based on the visual scale of pain) 3 to 6. Non-inclusion criteria: Presence of fracture; bleeding; dislocation; amputation; foreign body; neural damage in injured limb; presence of fever; history of sensitivity or allergy to sesame.

##### Intervention groups

Intervention group : The trauma size is calculated using a flexible curved ruler and based on multiplying the length and width of the area by square centimeter. The traumatic area is washed with 100cc normal saline and poured sesame oil using a dropper on the trauma area (10 drops / 3.8cc oil per 250 cm<sup>2</sup> trauma area). A circular massage is given for 5 -7 minutes by finger tip. The first intervention is carried out by the researcher in the hospital and the next interventions at home by the patient (2 times a day to 3 days) after education. In the control group, the procedure is similar to the intervention

group, but instead of sesame oil, the placebo is used.

##### Main outcome variables

pain

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20180701040297N2**

Registration date: **2019-03-25, 1398/01/05**

Registration timing: **prospective**

Last update: **2019-03-25, 1398/01/05**

Update count: **0**

##### Registration date

2019-03-25, 1398/01/05

##### Registrant information

##### Name

Nazila Javadi-Pashaki

##### Name of organization / entity

Guilan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 13 3355 2088

##### Email address

n.javadi@gums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2019-04-09, 1398/01/20

##### Expected recruitment end date

2019-09-11, 1398/06/20

##### Actual recruitment start date

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Assessing the Effect of Topical Sesame Oil on Severity of Pain in Patients with Limb Trauma

**Public title**

The Effect of Topical Sesame Oil on Severity of Pain in Patients with Limb Trauma

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

the patients 18-60 years non-penetrating trauma of the upper or lower extremities occurrence of trauma between one to six hours prior to referral pain score 3-6 on visual analogue scale full consciousness

**Exclusion criteria:**

The presence of fractures in the injured limb The presence of bleeding at the site of the trauma dislocation of the injured limb amputation of the injured limb The presence of foreign body at the site of the trauma The presence of neurological damage in trauma location The presence of fever history of sensitivity or allergy to sesame

**Age**

From **18 years** old to **60 years** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

- Participant
- Investigator
- Data analyser

**Sample size**

Target sample size: **120**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Gradually and in the event of having criteria for entering the study, the samples are allocated to 2 groups of intervention and placebo by randomized blocking method based on categories of trauma size (<100 cm<sup>2</sup> />100 cm<sup>2</sup>) and age (18-40 years / 41-60 years old).

**Blinding (investigator's opinion)**

Triple blinded

**Blinding description**

The study is a randomized three-blind randomized clinical trial. researchers, patients and statisticians are not aware of the study groups. Sesame oil and placebo bottles are coded by research colleagues. They are given to the main researcher and patient no name and with code. Based on the specified codes, the information is entered into the software and analyzed by the statistics specialist.

**Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

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

Ethics committee of Guilan University of Medical Sciences

**Street address**

Eastern Shahid Beheshti Boulevard

**City**

rasht

**Province**

Guilan

**Postal code**

93345-41938

**Approval date**

2019-02-04, 1397/11/15

**Ethics committee reference number**

IR.GUMS.REC.1397.437

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

Patients are traumatized

**ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

Pain

**Timepoint**

The pain is totally evaluated 7 times; before the intervention on the first day and 30 minutes after each intervention for 3 days(Twice a day).

**Method of measurement**

The Visual Analogue Scale is used to measure the severity of pain that includes a continuous line with two initial and end points of zero to 10; Zero means no pain and 10 means the maximum pain intensity.

**Secondary outcomes****1****Description**

The amount of analgesic received during the intervention

**Timepoint**

At the end of the study  
**Method of measurement**  
Patient's document

## Intervention groups

### 1

#### Description

Intervention group: After washing the area with normal saline, sesame oil (produced by Farabi Pharmaceutical Company) is poured on the area and then a circular massage is given with fingertip for 5 to 7 minutes. This intervention is done twice a day at home by patient and lasts for three days.

#### Category

Treatment - Other

### 2

#### Description

Control group: After washing the area with normal saline, placebo oil (A similar solution to the taste, color and appearance of sesame oil produced by Farabi Pharmaceutical Company) is poured on the area and then a circular massage is given with fingertip for 5 to 7 minutes. This intervention is done twice a day at home by patient and lasts for three days.

#### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Rasht Poursina Hospital

##### Full name of responsible person

Dr. Nazila Javadi

##### Street address

Poursina Intersection

##### City

Rasht

##### Province

Guilan

##### Postal code

41937-13194

##### Phone

+98 13 3332 2444

##### Fax

+98 13 3333 9842

##### Email

poursina@gums.ac.ir

##### Web page address

<http://www.gums.ac.ir>

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Research and Technology Deputy of Guilan University of Medical Sciences

##### Full name of responsible person

شادمان نعمتی

##### Street address

خیابان نامجو - خیابان شهید سیادت

##### City

Rasht

##### Province

Guilan

##### Postal code

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##### Phone

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##### Fax

+98 13 3333 6395

##### Email

research@gums.ac.ir

##### Web page address

<http://www.gums.ac.ir/research>

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

Research and Technology Deputy of Guilan University of Medical Sciences

#### Proportion provided by this source

100

#### Public or private sector

Public

#### 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

Guilan University of Medical Sciences

##### Full name of responsible person

Mina Kafash Mohammadjani

##### Position

Postgraduate Student

##### Latest degree

Bachelor

##### Other areas of specialty/work

Nursery

##### Street address

College of Nursing and Midwifery, Daneshjoo street, Dr Beheshti highway

##### City

RASHT

##### Province

Guilan  
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39841-41469  
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M.kafash.1359@gmail.com  
**Web page address**  
<http://www.gums.ac.ir/nmr>

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**  
Guilan University of Medical Sciences  
**Full name of responsible person**  
Nazila Javadi  
**Position**  
Assistant Professor  
**Latest degree**  
Ph.D.  
**Other areas of specialty/work**  
Nursery  
**Street address**  
College of Nursing and Midwifery, Daneshjoo street,  
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## Person responsible for updating data

### Contact

**Name of organization / entity**  
Guilan University of Medical Sciences  
**Full name of responsible person**  
Nazila Javadi  
**Position**  
Assistant Professor  
**Latest degree**

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**Other areas of specialty/work**  
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## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

### Study Protocol

Yes - There is a plan to make this available

### Statistical Analysis Plan

Yes - There is a plan to make this available

### Informed Consent Form

Yes - There is a plan to make this available

### Clinical Study Report

Yes - There is a plan to make this available

### Analytic Code

Yes - There is a plan to make this available

### Data Dictionary

Yes - There is a plan to make this available

### Title and more details about the data/document

All data is shared after the people became unidentifiable

### When the data will become available and for how long

Start the access period 6 months after printing the results

### To whom data/document is available

Only for researchers working in academic and scientific institutions

### Under which criteria data/document could be used

Meta analysis

### From where data/document is obtainable

Dr Nazila Javadi, Guilan University of Medical Sciences,  
Shahid Beheshti Nursing and Midwifery School of Rasht

### What processes are involved for a request to access data/document

Contact with email

### Comments