

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of Nigella sativa oil on pain and healing of episiotomy: a three-Blind randomized controlled trial

#### Protocol summary

##### Study aim

To determine the effect of Nigella sativa gel on pain and wound healing due to episiotomy

##### Design

Clinical trial with a control group, with parallel groups, triple blinded, randomized with blocking method, phase three on 60 patients. The randomizer software will be used for randomization.

##### Settings and conduct

This study will be performed in Dr. Mahzad Educational-Medical Center of Urmia. Nigella sativa gel will be used daily at the episiotomy site without massage for a week. Wound healing rate will be assessed by RIDA scale before discharge and  $10 \pm 1$  days after intervention. The mean pain intensity will be assessed before discharge and again on day  $10 \pm 1$  after the intervention by the Visual Pain Scale (VAS).

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Live and single fetus delivery; Following a special diet; Willingness and possibility of the mother to visit the comprehensive women's center of Dr. Mahzad in Urmia on the 10th day. Exclusion criteria: Using of specific medications (such as anti-inflammatory and anticoagulants); History of diseases that impair wound healing such as systemic, heart, kidney, lung, coagulation disorders, immunodeficiency, connective tissue disorders, diabetes, anemia, mental illness, hemophilia; Having severe anemia during pregnancy; Early bleeding after delivery; History of vaginal examinations and manipulations before delivery; Large or enlarged episiotomy; Long-term rupture of the amniotic sac (more than 18 hours); Addiction to drug and psychotropic substances.

##### Intervention groups

The intervention group 1 or treatment group: This group will receive Nigella sativa gel daily at the episiotomy site without massage for a week; The intervention group 2 or control group: This group will receive placebo gel daily at the episiotomy site without massage for a week.

#### Main outcome variables

Wound healing and pain severity

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20120718010324N68**

Registration date: **2022-02-06, 1400/11/17**

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

Last update: **2022-02-06, 1400/11/17**

Update count: **0**

##### Registration date

2022-02-06, 1400/11/17

##### Registrant information

##### Name

Mojgan Mirghafourvand

##### Name of organization / entity

Tabriz University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 41 1479 6969

##### Email address

mirghafourvandm@tbzmed.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2022-01-29, 1400/11/09

##### Expected recruitment end date

2022-07-31, 1401/05/09

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

**Trial completion date**  
empty

**Scientific title**  
The effect of Nigella sativa oil on pain and healing of episiotomy: a three-Blind randomized controlled trial

**Public title**  
The effect of Nigella sativa oil on pain and healing of episiotomy

**Purpose**  
Treatment

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
Delivery of a live and single fetus Not following a special diet (according to the woman) Willingness and possibility of the mother to visit the comprehensive women's center of Dr. Mahzad in Urmia on the 10th day  
**Exclusion criteria:**  
Long-term rupture of the amniotic sac (more than 18 hours) Large or enlarged episiotomy History of pre-delivery vaginal examinations and manipulations Early vaginal bleeding after delivery Having severe anemia during pregnancy History of diseases that interfere with wound healing such as systemic, heart, kidney, lung, coagulation disorders, immunodeficiency, connective tissue disorders, diabetes, anemia, mental illness, hemophilia Using of specific medications (such as anti-inflammatory drugs and anticoagulants based on the patient's statements) Addiction to addictive and psychotropic substances (based on the woman's statements and case file)

**Age**  
No age limit

**Gender**  
Female

**Phase**  
3

**Groups that have been masked**

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser

**Sample size**  
Target sample size: **70**

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

**Randomization description**  
Participants in the study will be assigned to two groups (one group receiving Nigella Sativa gel and one group receiving placebo gel with the same protocol) by block randomization method with block sizes of 4 and 6 and a allocation ratio of 1: 1. To hide the Allocation (Allocation Concealment), the allocation sequence will be identified by a person not involved in the study using a randomizer software, and the Nigella Sativa gel and placebo gel will be placed in the same packages numbered sequentially.

**Blinding (investigator's opinion)**  
Triple blinded

**Blinding description**  
The participants, researcher and data analyst will be blinded in this study. Drug and placebo will be similar in appearance (shape, color, smell) and packaging of drug and placebo will be conducted by a person not involved in the research.

**Placebo**  
Used

**Assignment**  
Parallel

**Other design features**

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Tabriz University of Medical Sciences

##### Street address

Reaserch department, third floor, central construction number 2, Tabriz university of medical sciences, Goltasht street, Azadi avenue

##### City

Tabriz

##### Province

East Azarbaijan

##### Postal code

5138947977

#### Approval date

2021-11-28, 1400/09/07

#### Ethics committee reference number

IR.TBZMED.REC.1400.838

## Health conditions studied

### 1

#### Description of health condition studied

Episiotomy wound healing

#### ICD-10 code

O90.1

#### ICD-10 code description

Disruption of perineal obstetric wound

## Primary outcomes

### 1

#### Description

Wound healing score

#### Timepoint

Before discharge and 10±1 days after intervention

#### Method of measurement

REEDA scale

## Secondary outcomes

1

### Description

Pain score

### Timepoint

Before discharge and 10 ± 1 days after intervention

### Method of measurement

Visual Analog Scale

## Intervention groups

1

### Description

Intervention group or treatment group: Black seed gel with a concentration of 15% will be prepared by the pharmacy department of Tabriz University of Medical Sciences in the laboratory of the Pharmacy School and it will be used by the participants three times a day in the amount of one fingertip at the episiotomy site without massage for a week.

### Category

Treatment - Drugs

2

### Description

Control group: Placebo of black seed gel (paraffin) with a concentration of 15% will be prepared by the pharmacy department of Tabriz University of Medical Sciences in the laboratory of the Pharmacy School and it will be used by the participants three times a day in the amount of one fingertip at the episiotomy site without massage for a week.

### Category

Placebo

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Urmia Comprehensive Women's Hospital

#### Full name of responsible person

Afsaneh Alizadeh

#### Street address

Hassani Street

#### City

Urmia

#### Province

West Azarbaijan

#### Postal code

555751255

#### Phone

+98 44 3346 8815

#### Email

afsanehalizadeh@072gmail.com

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Tabriz University of Medical Sciences

#### Full name of responsible person

Dr. Parviz Shahabi

#### Street address

South Shariati Street

#### City

Tabriz

#### Province

East Azarbaijan

#### Postal code

5138947

#### Phone

+98 41 3479 6770

#### Email

afsanehalizadeh072@gmail.com

### Grant name

### Grant code / Reference number

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

Yes

### Title of funding source

Tabriz 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

Tabriz University of Medical Sciences

#### Full name of responsible person

Afsaneh Alizadeh

#### Position

Student

#### Latest degree

Bachelor

#### Other areas of specialty/work

Midwifery

#### Street address

Faculty of Nursing & Midwifery, South Shariati Street

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## Person responsible for scientific inquiries

**Contact**

**Name of organization / entity**

Tabriz University of Medical Sciences

**Full name of responsible person**

Dr. Mojgan Mirghafourvand

**Position**

PhD in Reproductive Health

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Midwifery

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## Person responsible for updating data

**Contact**

**Name of organization / entity**

Tabriz University of Medical Sciences

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**Position**

Student

**Latest degree**

Bachelor

**Other areas of specialty/work**

Midwifery

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afsanehalizadeh@072gmail.com

## 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**

No - There is not a plan to make this available

**Statistical Analysis Plan**

No - There is not a plan to make this available

**Informed Consent Form**

No - There is not 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**

No - There is not a plan to make this available

**Data Dictionary**

No - There is not a plan to make this available