

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jul 2026

Evaluating the effect of Dill (*Anethum graveolens* L.) seed essence on pain after cesarean delivery: a clinical trial

Protocol summary

Summary

In this study we studied the effect of Dill (*Anethum graveolens* L.) seed on pain intensity after cesarean section in patients undergoing spinal anesthesia. This study was a double-blind clinical trial conducted on pregnant women who were referred to the Hajar hospital and were eligible for the study, in 2015. The patients were selected by convenience sampling method and divided randomly into two groups. For randomization, 51 letter A and 51 letter B, written on separate cards were put in a bag and each patient picked up a card from the bag. Patients in intervention group received 10 cc Dill (*Anethum graveolens* L.) seed syrup, produced by Goldaroo company, one hour before and 30 minutes before spinal anesthesia and 30 minutes, one hour and two hours after spinal anesthesia. Patients in control group received 10 cc placebo syrup, produced by Goldaroo company one hour before and 30 minutes before spinal anesthesia and 30 minutes, one hour and two hours after spinal anesthesia. The placebo syrup contained all the components of syrup without any pharmaceutical composition or herbal extract. Inclusion criteria: Pregnant women undergoing caesarean section with ASA class I and II. Exclusion criteria: Any changes in anesthetic drugs; Complicated pregnancy; History of gastrointestinal and hemorrhagic disease; Type I and type II diabetes mellitus; Renal insufficiency; Hypertension; Drug allergy and allergy to Dill (*Anethum graveolens* L.) seed. Pain and vital signs including blood pressure, nausea and vomiting, heart rate, blood and narcotic use and any extra drugs (such as atropine and ephedrine) during surgery and at 30 minutes after spinal anesthesia, an hour, 4 hours and 12 hours after cesarean section were recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016110112101N2**

Registration date: **2017-03-21, 1396/01/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-03-21, 1396/01/01

Registrant information

Name

Parastoo Yarmohammadi

Name of organization / entity

Shahrekord University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 38 3352 4328

Email address

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Recruitment status

Recruitment complete

Funding source

Deputy of Research and Technology, Shahrekord University of Medical Sciences

Expected recruitment start date

2015-04-01, 1394/01/12

Expected recruitment end date

2016-03-30, 1395/01/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating the effect of Dill (*Anethum graveolens* L.) seed essence on pain after cesarean delivery: a clinical

trial

Public title
Effect of Dill (Anethum graveolens L.) seed essence on pain after cesarean delivery

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria: Pregnant women undergoing caesarean section with ASA class I and II. Exclusion criteria: Any changes in anesthetic drugs; Complicated pregnancy; History of gastrointestinal and hemorrhagic disease; Type I and type II diabetes mellitus; Renal insufficiency; Hypertension; Drug allergy and allergy to Dill (Anethum graveolens L.) seed

Age
From **19 years** old to **43 years** old

Gender
Female

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **102**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features
For randomization, 51 letter A and 51 letter B, written on separate cards were put in a bag and each patient picked up a card from the bag.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Shahrekord University Of Medical Science

Street address

Vice President of Research, Shahrekord University of Medical Sciences, Ayatollah Kashani Boulevard, Shahrekord , Chahar Mahal and Bakhtiari

City

Shahrekord

Postal code

8815713471

Approval date

2015-12-06, 1394/09/15

Ethics committee reference number

IR.SKUMS.REC.1394.159

Health conditions studied

1

Description of health condition studied

Pain after cesarean section

ICD-10 code

O29.5

ICD-10 code description

Other complications of spinal and epidural anaesthesia during pregnancy

Primary outcomes

1

Description

Pain

Timepoint

2 hours after anesthesia

Method of measurement

VAS (Visual analog Scale)

Secondary outcomes

empty

Intervention groups

1

Description

Control group: patients in this group received 10 cc placebo syrup, produced by Goldaroo company one hour before and 30 minutes before spinal anesthesia and 30 minutes, one hour and two hours after spinal anesthesia. The placebo syrup contained all the components of syrup without any pharmaceutical composition or herbal extract.

Category

Treatment - Drugs

2

Description

Intervention group: patients in this group received 10 cc Dill (Anethum graveolens L.) seed syrup, produced by Goldaroo company, one hour before and 30 minutes before spinal anesthesia and 30 minutes, one hour and two hours after spinal anesthesia.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Hajar hospital in Shahrekord
Full name of responsible person
Saeideh Shakeri
Street address
Hajar hospital, Parastar Street.
City
Shahrekord

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor for research, Shahrekord University of Medical Sciences
Full name of responsible person
Fatemeh Rafiei
Street address
Research Department, Shahrekord University of Medical Sciences, Ayatollah Kashani Boulevard, Shahrekord, Chahar Mahal and Bakhtiari
City
Shahrekord

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, Shahrekord University of Medical Sciences

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

Person responsible for scientific inquiries

Contact

Name of organization / entity
Shahrekord University of Medical Sciences
Full name of responsible person
Gholamreza Shabanian

Position

Assistant Professor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Shahrekord University of Medical Sciences

Full name of responsible person

Parastoo Yarmohammadi

Position

MSc

Other areas of specialty/work

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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