

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jun 2026

Comparison of effect of Lavender essential oil and Povidone Iodine in wound healing of episiotomy

Protocol summary

Summary

The objective of this study was to compare routine wound care with Povidone Iodine with using Lavender essential oil in episiotomy. 120 primiparous mothers with singleton pregnancy for whom episiotomy had been done after uncomplicated normal vaginal delivery were randomly allocated into either intervention or control group. Subjects with any acute or chronic systemic diseases, hypersensitivity, severe wound infection at fifth day after delivery or allergy to lavender derivatives were excluded. Intervention under study was using Lavender essential oil (5-7 drops in 4 liter water two times per day) as sit bath. Patients in control group received routine episiotomy wound care with Povidone Iodine. Main outcome measures were pain on wound site, wound site edema, wound infection, suppurative secretion, number of remained sutures at tenth day, and wound dehiscence.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138710281557N1**

Registration date: **2009-05-16, 1388/02/26**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2009-05-16, 1388/02/26

Registrant information

Name

Katayon Vakilian

Name of organization / entity

Arak University of Medical Sciences and Health Services

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Recruitment status

Recruitment complete

Funding source

Arak University of Medical Science and Health Services and Barij Essence Pharmacology Company

Expected recruitment start date

2007-06-08, 1386/03/18

Expected recruitment end date

2007-09-21, 1386/06/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of effect of Lavender essential oil and Povidone Iodine in wound healing of episiotomy

Public title

Comparison of effect of Lavender essential oil and Povidone Iodine in wound healing of episiotomy

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria : singleton pregnancy, primiparous, episiotomy Exclusion criteria : severe infection in 5th day after episiotomy, any acute or chronic diseases or allergy to Lavender oil

Age

From **15 years** old to **50 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 120

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Arak University of Medical Sciences and Health Services

Street address

Alamolhoda St.

City

Arak

Postal code

Approval date

2007-04-08, 1386/01/19

Ethics committee reference number

227

Health conditions studied

1

Description of health condition studied

Disruption of perineal obstetric wound

ICD-10 code

O90.1

ICD-10 code description

Disruption of perineal obstetric wound. episiotomy

Primary outcomes

1

Description

Edema

Timepoint

5 and 10 days after repair

Method of measurement

Diameter of edema on wound site in Centimeter

2

Description

Remained sutures

Timepoint

10th day after repair

Method of measurement

number of remained sutures

3

Description

Pain

Timepoint

5th and 10th day after episiotomy

Method of measurement

visual analogue scale

4

Description

Redness

Timepoint

5 and 10 days after repair

Method of measurement

Diameter of redness in millimeter

5

Description

Discharge

Timepoint

5 and 10 after repair

Method of measurement

Presence of suppurative vaginal discharge

6

Description

Dehiscence

Timepoint

10th day after repair

Method of measurement

Incidence of wound dehiscence

Secondary outcomes

1

Description

Infection

Timepoint

5th and 10th day after child birth

Method of measurement

Presence of infective discharge and dehiscence of wound

Intervention groups

1

Description

Essential oil of Lavender 5-7 drops in 4 liter of water as sit bath two times a day for 2 weeks

Category

Prevention

2**Description**

Povidon Iodine 4 spoon in 4 litter of water as sit bath for 2 weeks

Category

Prevention

Recruitment centers**1****Recruitment center****Name of recruitment center**

Arak University of Medical Sciences and Health Services

Full name of responsible person

Katayon Vakilian

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Arak University of Medical sciences and Health Services

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Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Arak University of Medical sciences and Health Services

Proportion provided by this source**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***2****Sponsor****Name of organization / entity**

Pharmacol Company of Barij Essence

Full name of responsible person

dr. Reza Bekhradi

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Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Pharmacol Company of Barij Essence

Proportion provided by this source**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**

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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*