

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Oct 2026

Comparison the effect of dill seeds and oxytocin infusion on the duration of labor and labor pain in primiparous women and pregnant women who experience second delivery : a clinical trial

Protocol summary

Summary

The aim of this study is to compare the effects of infusion of oxytocin and oral brewed dill seeds on labor duration and intensity of labor pain. In this study, 100 primiparous women and pregnant women who experience second delivery and will attend the hospital due to labor pain will be entered. The randomization technique is as the following: cards in which the letters A and B are written on will be placed in a container and the samples are asked to pick one. If the card is labelled A, the participant will enter in the intervention group (dill seed), and if the card is labeled B, the participant will enter in the control group (oxytocin). The person who will conduct the test is unaware of the grouping. Participants in both groups are at the beginning of the active phase of labor and do not have regular pain. In the intervention group, 10 g dill seeds will add to 100 cc boiled water and will be stewed for 5 minutes and will be consumed orally by the women at the beginning of the active phase of the labor. In the control group, 10 units of oxytocin in 1000 ml of Ringer will be infused. The infusion will be start by 5 drops per minute and will increase until the beginning of regular uterine contractions and then the number of droplets will get fixed. Inclusion criteria: being at 37-40 weeks of gestational age; 5-3 cm cervical dilatation; cephalic presentation of fetus; absence of chronic diseases; intact membranes. The exclusion criteria: any contraindication for vaginal delivery; hemorrhage; indication for cesarean section. Fetal heart rate will be checked every quarter of an hour in all participants. 20-minute non-stress test will be done on patients during labor. Vaginal examination will be performed every hour. Pain intensity will be measured each hour using the pain scale. The main outcomes of the study: labor pain intensity and length of three delivery stages

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201607177065N2**

Registration date: **2017-03-20, 1395/12/30**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-03-20, 1395/12/30

Registrant information

Name

Seyedeh Fatemeh Hekmatzadeh

Name of organization / entity

Yasuj University of Medical Science

Country

Iran (Islamic Republic of)

Phone

+98 74 1333 2276

Email address

hekmatzadeh.f@yums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Yasuj University of Medical Sciences

Expected recruitment start date

2016-02-20, 1394/12/01

Expected recruitment end date

2017-02-18, 1395/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of dill seeds and oxytocin infusion on the duration of labor and labor pain in primiparous women and pregnant women who experience second delivery : a clinical trial

Public title

Comparison the effects of oxytocin and dill seed on delivery

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria: being at 37-40 weeks of gestational age; 5-3 cm cervical dilatation; cephalic presentation of fetus; absence of chronic diseases; intact membranes. The exclusion criteria: any contraindication for vaginal delivery; hemorrhage; indication for cesarean section.

Age

From **18 years** old to **35 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

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**

Ethics committee of Yasuj University of Medical Sciences

Street address

Beside Imam Sajad Hospital, Shahid Doctor Jalil Street

City

Yasuj

Postal code**Approval date**

2013-02-16, 1391/11/28

Ethics committee reference number

93.12.25.5

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

delivery

ICD-10 code

080-084

ICD-10 code description

delivery

Primary outcomes**1****Description**

Duration of first stage of labor

Timepoint

During labor

Method of measurement

Questionnaire

2**Description**

Duration of second stage of labor

Timepoint

During labor

Method of measurement

Questionnaire

3**Description**

Duration of third stage of labor

Timepoint

During labor

Method of measurement

Questionnaire

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

Labor pain

Timepoint

During labor

Method of measurement

Visual Analog Scale (VAS)

Intervention groups**1****Description**

Intervention group: 10 g dill seeds will add to 100 cc boiled water and will be stewed for 5 minutes and will be consumed orally by the women at the beginning of the

active phase of the labor.

Category

Treatment - Drugs

2

Description

Control group: 10 units of oxytocin in 1000 ml of Ringer will be infused. The infusion will be start by 5 drops per minute and will increase until the beginning of regular uterine contractions and then the number of droplets will get fixed.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Maternity ward of Imam Sajjad Hospital of Yasuj

Full name of responsible person

Seyedeh Fatemeh Hekmatzadeh

Street address

Yasuj Univesity of Medical Sciences, Nursing and Midwifery School.

City

Yasuj

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research of Yasuj University of Medical Sciences

Full name of responsible person

Seyedeh Fatemeh Hekmatzadeh

Street address

Nursing And Midwifery School of Yasuj University of Medical Sciences ,

City

Yasuj

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 of Yasuj 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

Name of organization / entity

Nursing and Midwifery School, Yasuj University Medical of Scinces

Full name of responsible person

Seyedeh Fatemah Hekmatzadeh

Position

Master

Other areas of specialty/work

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Person responsible for updating data

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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