

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jun 2026

The effect of Equisetum arvense (Horse tail) on perineal trauma in primiparous women with striae gravidarum

Protocol summary

Study aim

Determine the effect of Equisetum arvense (Horse tail) on perineal trauma in primiparous women with striae gravidarum

Design

A Randomized clinical trial with a control group, parallel groups, triple blind

Settings and conduct

The present clinical trial will be performed on 60 pregnant women referred to obstetric clinic of Mashhad Omolbanin hospital. Sampling will be performed in convenience method and individuals who meet the inclusion criteria will be entered the study, then the research units will be randomly allocated into intervention and control groups based on the sequence created by a simple randomization online. Coding of medicinal and placebo creams is performed by the pharmacy consultant professor and by the end of the study, research units, the researcher, the statistical analyzer and delivery agent will not know the codes of Equisetum arvense and placebo cream.

Participants/Inclusion and exclusion criteria

Inclusion criteria: primiparous women, 18 to 35 years, gestational age 37 to 38 weeks, Total striae score higher than 9 (Moderate to Severe Striae), Body mass index 18.5 to 30; Exclusion criteria: medical and obstetric problems, vaginal infection, previous vaginal or perineal surgery, vegetarian diet, perineal massage

Intervention groups

Individuals in the intervention group will use Equisetum arvense cream (3%) from the 37-38 week of gestation until delivery, once a night before sleeping, and in the placebo group will use moisturizing cream (both creams are made in Pharmacological research center of medicinal plants in Mashhad university of medical sciences) in the perineum and beginning part of vagina. Also at delivery time episiotomy will be performed according to national guidelines and the discretion of delivery agent in both groups if indicated.

Main outcome variables

Degree, length and depth of perineal laceration

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200224046605N1**

Registration date: **2020-04-10, 1399/01/22**

Registration timing: **prospective**

Last update: **2020-04-10, 1399/01/22**

Update count: **0**

Registration date

2020-04-10, 1399/01/22

Registrant information

Name

Fatemeh Khademolkhamseh

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 51 3228 0125

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-05-20, 1399/02/31

Expected recruitment end date

2020-10-21, 1399/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Equisetum arvense (Horse tail) on perineal trauma in primiparous women with striae gravidarum

Public title

The effect of Equisetum arvense (Horse tail) on perineal trauma

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

primiparous women 18 to 35 years gestational age 37 to 38 weeks informed consent to participate in the study Iranian nationality living in Mashhad literacy for reading and writing single pregnancy cephalic presentation Total striae score higher than 9 (Moderate to Severe Striae) Body mass index 18.5 to 30 having Desire To give birth at Omolbanin Hospital

Exclusion criteria:

medical and obstetric problems vaginal infection previous vaginal or perineal surgery drug or alcohol abuse vegetarian diet perineal massage having a history of allergy to herbal medicines

Age

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

Gender

Female

Phase

3

Groups that have been masked

- Participant
- Investigator
- Data analyser

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Sampling is performed at the obstetric clinic of Omolbanin hospital in Convenience Sampling method based on inclusion and exclusion criteria. Research units are allocated into two intervention and control groups using simple randomization online, by the sequence created at www.graphpad.com/quickcalcs; The Equisetum arvense (horse tail) and placebo cream, prepared and packaged by a pharmacy advisor professor at the Pharmacological Research Center of Medicinal Plants of Mashhad University of Medical Sciences. the pharmacy advisor professor has assigned a code to each group(only the Pharmacy Advisor professor knows it). Based on the A and B codes assigned to the two groups, the sequence is exemplified AABAB... . In order to allocation concealment, opaque, sealed and in sequentially numbered envelopes will be used that are kept by the secretary of obstetric clinic.

Blinding (investigator's opinion)

Triple blinded

Blinding description

In order to blinding, the Equisetum arvense (horse tail) and placebo cream are provided to the researcher in similar shapes and identical tubes. Each tube has a code that only the pharmacy consultant professor knows about it. Individuals with inclusion criteria are grouped into intervention and control groups according to the sequence based on the codes; and by the end of the study, research units, the researcher, the statistical analyzer and delivery agent will not know about the codes of Equisetum arvense and placebo cream.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics committee of Mashhad University of Medical Sciences

Street address

Assistance of Research and Technology of Mashhad University of Medical Sciences, Qurashi building, Daneshgah avenue

City

Mashhad

Province

Razavi Khorasan

Postal code

91388-13944

Approval date

2020-01-27, 1398/11/07

Ethics committee reference number

IR.MUMS.NURSE.REC.1398.101

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

Perineal laceration during delivery

ICD-10 code

O70

ICD-10 code description

Perineal laceration during delivery

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

Perineal laceration degree

Timepoint

Immediately after delivery

Method of measurement

Observation

2

Description

perineal laceration length

Timepoint

Immediately after delivery

Method of measurement

Measuring with sterile swap and ruler

3

Description

perineal laceration depth

Timepoint

Immediately after delivery

Method of measurement

Measuring with sterile swap and ruler

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Individuals in intervention group will apply a knuckle of equisetum arvense cream 3%(which is made in Pharmacological Research Center of Medicinal Plants of Mashhad University of Medical Sciences) in the perineum and the beginning part of vagina by the thumb and forefinger with a reciprocal movement,once at night before sleeping, from the beginning of 37-38 weeks of gestation. This group will receive routine midwifery care until delivery; episiotomy will be performed at delivery time, if indicated, on the discretion of the delivery agent.

Category

Prevention

2

Description

Control group: Individuals in control group will apply a knuckle of cold cream (moisturizing cream, which is made in Pharmacological Research Center of Medicinal Plants of Mashhad University of Medical Sciences) in the perineum and the beginning part of vagina by the thumb and forefinger with a reciprocal movement,once at night before sleeping, from the beginning of 37-38 weeks of gestation. This group will receive routine midwifery care until delivery; episiotomy will be performed at delivery time, if indicated, on the discretion of the delivery agent.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Omolbanin hospital

Full name of responsible person

Farideh Akhlaghi

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

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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

Mashhad 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

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Person responsible for general inquiries

Contact

Name of organization / entity
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Person responsible for updating data

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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

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be 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

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available