

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Jul 2026

The effect of education of foetal movement counting on maternal-fetal attachment in primiparous women

Protocol summary

Summary

Objectives: The aim of this study was to determine the effect of fetal movement counting education on maternal fetal attachment in Iranian primigravida women. Study design: This clinical trial study was conducted in two intervention and control groups. Setting and conduct: Selective sampling was done on the base of major inclusion criteria in Isfahan selected health care centers. Then selected subjects were randomly assigned into control and intervention groups. Intervention: In addition to prenatal care, Intervention group was taught to count their fetal movement after consuming breakfast for 30 minutes in left lateral position for 1 month from 24 weeks of pregnancy. In the control group, the usual education about prenatal care and fetal movements were done. Main outcome measure: At the beginning and end of the study, both groups completed the fetal attachment questionnaire. The main outcome of this study was the maternal fetal attachment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201610183936N2**

Registration date: **2016-11-27, 1395/09/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-11-27, 1395/09/07

Registrant information

Name

Kobra Salehi

Name of organization / entity

Isfahan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 33 4243 2929

Email address

k_salehi@nm.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Isfahan University of Medical Sciences, Vice chancellor for research

Expected recruitment start date

2014-04-29, 1393/02/09

Expected recruitment end date

2014-09-01, 1393/06/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of education of foetal movement counting on maternal-fetal attachment in primiparous women

Public title

The effect of education of foetal movement counting on maternal-fetal attachment

Purpose

Supportive

Inclusion/Exclusion criteria

Major eligibility criteria: Iranian women; first time pregnancy; being 18-35 years old; Having Literacy; having no medical problem during pregnancy or a history of mental disorders; normal pregnancy without use of ART; singleton pregnancy and gestational age between 22-20 weeks Major exclusion criteria: life threatening event during last 6 months; pregnancy with assisted reproductive treatment; multiple pregnancy; substances

abuse before and during pregnancy

Age

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

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Isfahan University of Medical Sciences, Ethics Committee

Street address

Hezar Jerib St, Isfahan

City

Isfahan

Postal code

Approval date

2014-09-23, 1393/07/01

Ethics committee reference number

293259

Health conditions studied

1

Description of health condition studied

emotional relationship between mother and fetus

ICD-10 code

O99.3

ICD-10 code description

Mental disorders and diseases of the nervous system complicating pregnancy, childbirth and the puerperium

Primary outcomes

1

Description

Maternal fetal attachment

Timepoint

before and after intervention

Method of measurement

Cranly Maternal fetal attachment questionnaire

Secondary outcomes

1

Description

Effect of fetal movement counting education on receiving prenatal care

Timepoint

Before and After intervention

Method of measurement

Assessment of prenatal care folder

Intervention groups

1

Description

Control: In the control group, the usual education about prenatal care and fetal movements were done.

Category

N/A

2

Description

Intervention: In addition to prenatal care, Intervention group was taught to count their fetal movement after consuming breakfast for 30 minutes in left lateral position for 1 month from 24 weeks of pregnancy.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Amirieh Health Care Center

Full name of responsible person

Kobra Salehi

Street address

Amirieh Health Care Center, 4 th St, Amirieh Valley, Isfahan

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Isfahan University of Medical Sciences, Vice Council of Research

Full name of responsible person

Dr Nematbakhsh M.

Street address

Isfahan University of Medical Sciences, Vice Council of Research, Hezar Jerib St, Isfahan

City

Isfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Isfahan University of Medical Sciences, Vice Council of Research

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

Isfahan University of Medical Sciences, Nursing and Midwifery School, Midwifery and Reproductive Health

Full name of responsible person

Kobra Salehi

Position

PHD student of Reproductive Health

Other areas of specialty/work

Street address

Hezar Jerib St, Isfahan

City

Isfahan

Postal code

Phone

+98 31 5243 2929

Fax

Email

k_salehi@nm.mui.ac.ir; salehik1364@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Isfahan University of Medical Sciences, Nursing and Midwifery School, Midwifery and Reproductive Health

Full name of responsible person

Kobra Salehi

Position

PHD student of Reproductive Health

Other areas of specialty/work

Street address

Hezar Jerib St, Isfahan

City

Isfahan

Postal code

Phone

+98 31 5243 2929

Fax

Email

k_salehi@nm.mui.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Isfahan University of Medical Sciences, Nursing and Midwifery School, Midwifery and Reproductive Health

Full name of responsible person

Kobra Salehi

Position

PHD student of reproductive health

Other areas of specialty/work

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City

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Fax

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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