

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Sep 2026

Comparison of Vibro-Acoustic stimulation, music and Acupressure effects in Non-stress test results and its parameters in pregnant women

Protocol summary

Summary

Objective: To evaluate the effect of Vibro-Acoustic stimulation, Music and Acupressure on the non-stress test results and its parameters (fetal heart rate, the number of acceleration, the time of the first acceleration, results of the test and finally the time of second acceleration). Normal pregnant women in the 32-36 week of gestation that carrying healthy fetuses were included and in the event of any disruption in the health status of the fetus were excluded. The 96 pregnant women (32-36 weeks) in prenatal care unit were selected by randomize sampling for Vibro-Acoustic stimulation (n= 32), Music (n=32) and acupressure (n= 32) during second NST. At first all mothers were taken non-stress test. After a short break, while doing the second non-stress test, intervention done. In Vibro-Acoustic group, with a Diapason stimulate fetuses at the start of the record. In Music group, music was playing through headphones for the mother all the time doing the test. In acupressure group, researcher stimulated BL67 point for 2 minutes and after 5 min repeats it, immediately after the stimulations, carries out the test.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012092310913N1**

Registration date: **2012-10-02, 1391/07/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-10-02, 1391/07/11

Registrant information

Name

Masoume Pirhadi

Name of organization / entity

Isfahan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 31 1357 9577

Email address

pirhadi@nm.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Isfahan University of Medical Sciences

Expected recruitment start date

2011-10-23, 1390/08/01

Expected recruitment end date

2012-05-21, 1391/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Vibro-Acoustic stimulation, music and Acupressure effects in Non-stress test results and its parameters in pregnant women

Public title

Effects of Vibro-Acoustic stimulation, music and Acupressure in Non-stress test

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria: 18-35 years old women; primigravide women; 32-36 weeks gestation; single pregnancy; having no history of infertility; did not pregnant with ART methods; women with no complications during pregnancy; no smoking woman; using any drugs; feeding

atleast 2 houres before sampling; regular prenatal care; having 50 min free exclusion criteria: having no interest to countinue the study; accure any problem with mothers or their fetuses; record any unexplained result

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: **96**

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, Isfahan, Iran

Street address

Hezar Jarib Ave

City

Isfahan

Postal code

Approval date

2011-08-11, 1390/05/20

Ethics committee reference number

390336

Health conditions studied

1

Description of health condition studied

Fetal health

ICD-10 code

O35

ICD-10 code description

Maternal care for known or suspected fetal abnormality and damage

2

Description of health condition studied

Fetal health

ICD-10 code

O36

ICD-10 code description

Maternal care for other known or suspected fetal problems

Primary outcomes

1

Description

fetal heart rate baseline

Timepoint

20 min first, after 5 minutes interval, take second test in 20 min

Method of measurement

with fetal monitoring

2

Description

time of the first acceleration

Timepoint

20 min first, after 5 minutes interval, take second test in 20 min

Method of measurement

fetal monitoring

3

Description

number of acceleration

Timepoint

20 min first, after 5 minutes interval, take second test in 20 min

Method of measurement

fetal monitoring

4

Description

result of non stress test

Timepoint

20 min first, after 5 minutes interval, take second test in 20 min

Method of measurement

fetal monitoring

5

Description

time of second acceleration

Timepoint

20 min first, after 5 minutes interval, take second test in 20 min

Method of measurement

fetal monitoring

Secondary outcomes

empty

Intervention groups

1

Description

Vibro-Acoustic stimulation after first non stress test, with a Diapason stimulate fetuses at the start of the record of second non stress test.

Category

Diagnosis

2

Description

Music after the first non stress test, music was playing through headphones for the mother all the time doing the second non stress test

Category

Diagnosis

3

Description

Acupressure researcher stimulated BL67 point for 2 minutes and after 5 min repeats it, immediately after the stimulations, carries out the test.

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital

Full name of responsible person

Shahshahan Zahra, Department of Obstetric & Gynecology, Faculty Member of Medicine School, Isfahan

Street address

Beheshti hospital- Motahari Ave.

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Isfahan University of Medical Sciences, Isfahan, Iran.

Full name of responsible person

Maryam Kianpour

Street address

Isfahan University of Medical Sciences, Isfahan, Iran.

City

Isfahan

Grant name

Grant code / Reference number

390336

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

Yes

Title of funding source

Isfahan University of Medical Sciences, Isfahan, Iran.

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

Full name of responsible person

Valiani Mahboubeh

Position

MSc, Department of Midwifery, Faculty Member, School of Nursing and Midwifery, Isfahan University of

Other areas of specialty/work

Street address

Isfahan University of Medical Sciences

City

Isfahan University of Medical Sciences

Postal code

Phone

+98 31 1792 2918

Fax

Email

valiani@nm.mui.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Isfahan University of Medical Sciences, Isfahan, Iran.

Full name of responsible person

Valiani Mahboubeh

Position

MSc

Other areas of specialty/work

Street address

Isfahan

City

Isfahan

Postal code

Phone

+98 31 1792 2918

Fax

Email

valiani@nm.mui.ac.ir

Web page address**Fax**

+98 31 1357 9577

Email

pirhadi@nm.mui.ac.ir

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Isfahan University of Medical Sciences

Full name of responsible person

Masoumeh Pirhadi

Position

MSc Student

Other areas of specialty/work**Street address**

No 37, Golriz st., Shahid Rajaei Ave

City

Khomeini Shahr

Postal code

8414764361

Phone

+98 31 1357 9577

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