Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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

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Masoume Pirhadi

Name of organization / entity

Isfahan University of Medical Sciences

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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 weaks gestation; singele 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; regullar 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
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Isfahan University of Medical Sciences, Isfahan, Iran.
Full name of responsible person
Maryam Kianpour
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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
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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