Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

A Randomized controlled trial of comparison effect of acoustic stimulation test and nutrition on nonstress test (NST) results in pregnant women with nonreactive NST.

Protocol summary

Summary

The objective of this study is to compare the effect of acoustic stimulation test and maternal nutrition on nonreactive nonstress test (NST) in pregnant women. This randomized clinical trial has been carried out at Alzahra hospital of Tabriz. A total of 104 (52 in each group) pregnant women, who are at 32 - 42 weeks of gestation with singleton pregnancy who intended to participate in the study and also who have nonreactive NST, are randomly allocated in two groups. Randomization is done with Power and Sample Size software. In the first group, we give them one cake and fruit juice, and in another group we induce acoustic stimulation, which is caused by clapping hands about 1 cm above maternal abdomen over the fetal vertex. After 30 minutes NST is done in the same context in two groups. Then data will be analyzed with SPSS software.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201201148459N2**
Registration date: **2012-08-28, 1391/06/07**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2012-08-28, 1391/06/07

Registrant information

Name

Shirin Hasanpoor

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1479 6770

Email address

hasanpoorsh@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Expected recruitment start date

2012-06-10, 1391/03/21

Expected recruitment end date

2012-09-10, 1391/06/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A Randomized controlled trial of comparison effect of acoustic stimulation test and nutrition on nonstress test (NST) results in pregnant women with nonreactive NST.

Public title

Comparison of acoustic stimulation test and maternal nutrition on nonreactive nonstress test in pregnant women referring to Alzahra Hospital, 2012.

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria: 1- Intention to participate 2- Singleton pregnancy 3- Pregnancy age between 32-42 weeks 4- Nonreactive results of Non Stress Test 5- Without any pelvic diseases 6- Fetal heart rate between 120-160 beat per minute 7- No harmful habits such as cigarette and

alcohol Exclusion criteria: 1- Rupture of membrane 2- Labor pain 3- Fetal distress 4- Using opioids and tocolytics.

Age
From **15 years** old to **49 years** old

Gender
Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **104**

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
Ethics committee of Tabriz University of Medical Sciences

Street address
Golgasht Street

City
Tabriz

Postal code

Approval date
2011-11-11, 1390/08/20

Ethics committee reference number
6631/4/5

Health conditions studied

1

Description of health condition studied
fetal nonreactive NST

ICD-10 code
P20.0

ICD-10 code description
Intrauterine hypoxia first noted before onset of labor

Primary outcomes

1

Description
Non stress test

Timepoint
30 minutes after intervention

Method of measurement
Electronic monitoring device

Secondary outcomes

empty

Intervention groups

1

Description
Giving one cake and fruit juice in first intervention group

Category
Diagnosis

2

Description
Acoustic stimulation (3-5 time clapping hands about 1 cm above maternal abdomen near the fetal vertex) in second intervention group

Category
Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center
Alzahra Hospital

Full name of responsible person
Shirin Hasanpoor

Street address
Artesh Street

City
Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor for research, Tabriz University of Medical Sciences

Full name of responsible person
Dr Mohammad Reza Rashidi

Street address
Tabriz University of Medical Sciences, Golgasht Street

City
Tabriz

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, Tabriz 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
Tabriz University of Medical Sciences
Full name of responsible person
Shirin Hasanpoor
Position
Instructor
Other areas of specialty/work
Street address
Nursing and Midwifery Faculty, Shariaty Street
City
Tabriz
Postal code
Phone
+98 41 1479 6770
Fax
Email
shirinhasanpoor@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
Shirin Hasanpoor
Position
Master of Science in midwifery
Other areas of specialty/work
Street address
Nursing and Midwifery Faculty, Shariaty Street
City
Tabriz
Postal code
Phone
+98 41 1479 6770
Fax
Email
shirinhasanpoor@yahoo.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
Shirin Hasanpour
Position
Instructor
Other areas of specialty/work
Street address
Nursing and Midwifery Faculty, Shariaty Street
City
Tabriz
Postal code
Phone
+98 41 1479 6770
Fax
Email
shirinhasanpoor@yahoo.com
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