

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jul 2026

Entonox take effect on the duration of the active phase of labor and delivery in pregnant women who referred to Ahvaz Imam Khomeini hospital for termination of pregnancy

Protocol summary

Summary

This clinical trial was performed on 200 pregnant women who were referred for termination of pregnancy to delivery. In study group, Entonox gas was used in delivery. In control group delivery was done without anaesthesia. Mothers from the beginning of the active phase of the study came to study. Pregnant women with systemic disease - women who had narcotics within eight hours - multiple pregnancies - a non-cephalic presentation - head and pelvic disproportion - Poly Alygvhydramnyvs - meconium - fetal distress and ... and those who had complications during labor and induction of labor or cesarean delivery were excluded from the study were required. During the active phase of the second stage of labor and the newborn Apgar score were measured. Entonox adverse events per hour of labor pain and delivery phase and were asked to decrease. Maternal satisfaction was assessed at the end of the delivery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201204079407N1**
Registration date: **2012-09-29, 1391/07/08**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-09-29, 1391/07/08

Registrant information

Name

Vahide alsadat Torabzade Bafghi

Name of organization / entity

Ahvaz University of Medical Sciences

Country

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Phone

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Recruitment status

Recruitment complete

Funding source

Ahvaz University of Medical Sciences

Expected recruitment start date

2011-11-21, 1390/08/30

Expected recruitment end date

2012-02-19, 1390/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Entonox take effect on the duration of the active phase of labor and delivery in pregnant women who referred to Ahvaz Imam Khomeini hospital for termination of pregnancy

Public title

Entonox effect on the duration of the active phase and the delivery

Purpose

Health service research

Inclusion/Exclusion criteria

Pregnant women hospitalized in Imam Khomeini hospital after termination of pregnancy and stabilize their situation, receive and record demographic data and information about the state of pregnancy, pregnant

women are literate (in the sense of numbers), the active phase of labor (cervical dilatation 4 having at least 2 to 3 cm and uterine contractions within 10 minutes) were under a gas anesthetic Entonox. Pregnant women with systemic disease - women who had narcotics within eight hours - multiple pregnancies - a non-cephalic presentation - head and pelvic disproportion - Poly Ahygvyhydramnyvs - meconium - fetal distress and ... Were not enrolled. And those who had complications during labor and induction of labor or cesarean delivery were required, were excluded from the study

Age

From **15 years** old to **45 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **200**

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

Ahvaz university of medical science

Street address

Goolestan-ahvaz

City

Ahvaz

Postal code

61335

Approval date

2011-11-12, 1390/08/21

Ethics committee reference number

Eth-316

Health conditions studied

1

Description of health condition studied

Pain and course delivery

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Duration the active phase of labor

Timepoint

During the intervention

Method of measurement

Hour

Secondary outcomes

1

Description

Labor pain

Timepoint

During the intervention

Method of measurement

Visual Pain Scale

Intervention groups

1

Description

In the active phase of labor in the study group, Entonox combined with 50% O2 and 50% N2O was given to mothers with usage of Restraint method. so the mothers said to put their hand on their abdomen and Upon tightening the abdominal, soon about 30-40 seconds before the pain begins, Breathe deep and slow the gas and the inhalation continued until the end of pain. inhalation of gas through a mask was with PCA method.

Category

Other

2

Description

In control group, delivery was without Entonox gas or any kind of anesthesia

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Khomeini Hospital of ahvaz

Full name of responsible person

Street address

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

research unit of Ahvaz University of Medical Sciences

Full name of responsible person

Dr Mostafa Fegghi

Street address

Vice Chancellor for Research and Technology
Development-Ahvaz university of medical science-
Goolestan-Ahvaz

City

Ahvaz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

research unit of Ahvaz 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**

Ahvaz University of Medical Sciences

Full name of responsible person

Vahide alsadat Torabzade

Position

MD

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

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Person responsible for scientific inquiries

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Razie Mohammad Jafari

Position

Specialist of genicology

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Position

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Fax**Email****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