Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Effect of Pethedin on duration of labor and type of delivery in nulliparous women

Protocol summary

Summary

Pethidine increases the contraction of the uterus and possibly accelerate the delivery.The purpose of this study was evaluation the effect of Pethedin on duration of labor and type of delivery in nulliparous women. Material and Methods: In a double blind randomized controlled trial 90 nulliparous women participated in the study. After accurate determination of pregnancy age, participants were classified into two groups Pethedine and Placebo (Normal Saline) . The first group (Pethedine group=45 cases) received 50 mg Pethedin Intra Muscular. In the Placebo group (Normal Saline=45 cases) , an equal volume of Normal Saline was prescripted Intra Venous. The mean duration first and second stages, type of delivery and Apgar scour was recorded

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201407016575N5**
Registration date: **2015-02-15, 1393/11/26**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-02-15, 1393/11/26

Registrant information

Name

Ashraf Direkvand-Moghadam

Name of organization / entity

Ilam University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Ilam University of Medical Sciences

Expected recruitment start date

2013-04-14, 1392/01/25

Expected recruitment end date

2015-03-20, 1393/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Pethedin on duration of labor and type of delivery in nulliparous women

Public title

Effect of Pethedin on duration of labor and type of delivery in nulliparous women

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:18-35 years of old; nulliparous; singleton pregnancy; gestational age 38-40; without CPD; optimal care during pregnancy; blood pressure less than 140/90 mmHg; pulse 60-110; Body Mass Index 19/8-26 (kg/m) before pregnancy; intact of membrane; estimated fetal weight less than 4000 grams; exclusion criteria: Polyhydramnios; abnormal presentation; Preeclampsia; history of medical problems during and before pregnancy such as Asthma; Cardiovascular and Metabolic disease at the admission time

Age

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

Gender

Female

Phase
2-3
Groups that have been masked
No information
Sample size
Target sample size: **90**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ilam University of Medical Sciences
Street address
Ilam University of Medical Sciences
City
Ilam
Postal code
Approval date
2010-08-20, 1389/05/29
Ethics committee reference number
(EC/91/H/102)

Health conditions studied

1

Description of health condition studied
The relationship between Pethedin with the duration of labor and type of delivery in nulliparous women
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Duration of labor in nulliparus women
Timepoint
Start of admission to delivery
Method of measurement
Duration of labor according to minute

2

Description
Type of delivery in nulliparous women
Timepoint
Start of admission to delivery
Method of measurement
Divided into two groups normal vaginal deliveries and cesarean section

Secondary outcomes

empty

Intervention groups

1

Description
The Pethedin group received 50 mg Pethedin Intra Muscular.
Category
Treatment - Drugs

2

Description
The Placebo group received an equal volume of Normal Slaine Intra Venous.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Mustafa Khomeini hospital, Ilam University of Medical Sciences
Full name of responsible person
Ashraf Direkvand-Moghadam
Street address
Ilam University of Medical Sciences
City
Ilam

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Ilam University of Medical Sciences
Full name of responsible person
Dr Iraj Pakzad
Street address
Ilam University of Medical Sciences
City
Ilam
Grant name
Grant code / Reference number

Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Ilam 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
Ilam 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