

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

comparison Spinal and epidural anesthesia with bupivacaine and pethidine in Painless Childbirth

Protocol summary

Summary

Objective: To compare the effect of the spinal pethidine with epidural bupivacaine in relief of labor pain.
Population: patients were randomly divided into two groups. The first group of were consists of 25 patients who received spinal anesthesia and the second group were 25 patients that received an epidural one. Sample size: 25 pregnant women who were candidates for vaginal delivery with epidural bupivacaine and 25 cases with spinal anesthesia with pethidine. Methods and materials: at first about 500-1000cc serum(ringer) were infused for all the patients of pethidine group In the first group for prevention of nausea and vomiting metoclopramide (mg100) dexamethasone(8mg) was injected intravenously. The patient was placed in a sitting position and a 25-gauge needle with the tip bent(Aspanyal)were used , 25 mg pethidine +1/5 mgdextrose 10% of the total volume 2cc (hyper time being) was injected into the subarachnoid space. In the second group (epidural anesthesia) epidural catheter 20 in the L3 - L4 space were used when the cervix is 4cm.The bolus dose 0/125 percent (15cc) of bupivacaine and fentanyl3/12 microgram/cc in three divided dose every 5 minutes were used. The dose was repeated if the effect of drug were disappeared before delivery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013060312701N5**
Registration date: **2013-06-13, 1392/03/23**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-06-13, 1392/03/23

Registrant information

Name

Mohammad Forozeshfard

Name of organization / entity

Semnan University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Semnan University of Medical Sciences

Expected recruitment start date

2013-01-03, 1391/10/14

Expected recruitment end date

2013-07-05, 1392/04/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

comparison Spinal and epidural anesthesia with bupivacaine and pethidine in Painless Childbirth

Public title

Spinal and epidural anesthesia with bupivacaine and pethidine in Painless Childbirth

Purpose

Supportive

Inclusion/Exclusion criteria

The study group were all pregnant women who were candidate for the normal vaginal delivery and they had no underlying disease consists of heart disease and asthma.

Age
No age limit
Gender
Female

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: 50

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

Semnan University of Medical Services

Street address

Semnan University of Medical Services

City

semnan

Postal code

Approval date

2012-08-07, 1391/05/17

Ethics committee reference number

5845/16/91

Health conditions studied

1

Description of health condition studied

Single spontaneous delivery

ICD-10 code

O80

ICD-10 code description

Single spontaneous delivery

Primary outcomes

1

Description

Analgesia

Timepoint

Before and after the intervention to end delivery process

Method of measurement

Numeric Rating Pain Scale

Secondary outcomes

1

Description

Changes in blood pressure

Timepoint

From start to finish the process of intervention delivery

Method of measurement

Pressure gauge

2

Description

Nausea and vomiting

Timepoint

From start to finish the process of intervention delivery

Method of measurement

Nausea, and stomach contents during delivery

3

Description

Respiratory depression

Timepoint

From start to finish the process of intervention delivery

Method of measurement

Observational

Intervention groups

1

Description

The first group of 25 patients who received spinal anesthesia.

Category

Treatment - Drugs

2

Description

The second group of 25 patients who received an epidural.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Amiralmomenin hospital

Full name of responsible person

Forozeshfard Mohammad

Street address

Semnan University of Medical Sciences

City
Semnan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Semnan University of Medical Sciences
Full name of responsible person
Raheb Ghorbany
Street address
Semnan University of Medical Sciences
City
semnan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Semnan 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

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Person responsible for updating data

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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