

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison Effect of General and Spinal Anesthesia on Hemoglobin and Hematocrit Value in Women after Cesarean Section

Protocol summary

Summary

(1) Objectives, The aim of this study is comparison effect of general and spinal anesthesia on hemoglobin and hematocrit value after cesarean section. (2) Design, This study was performed in a clinical trial on two groups of general anesthesia and spinal anesthesia. (3) Setting and conduct, after talking written consent about type of anesthesia, all patients received 10 mg intravenous metoclopramide and 500 milliliters of Ringer lactate. In control group, 42 patients received spinal anesthesia with 12 mg of bupivacaine on lumbar 2 & 3 spaces. In intervention group forty six patients received general anesthesia with sodium thiopental 5 mg/kg, succinyl choline 1.5 mg/kg, Isoflorane 0.75, N2O 50% and O2. (4) Participants including major eligibility criteria, Inclusion criteria is American Society Anesthesiology class 1 pregnant women who were candidate for elective cesarean. Exclusion criteria were systemic disease, fetal distress, preterm pregnancy, multiparous pregnancy, decolman, atony. (5) Intervention, administration of sodium thiopental 5 mg/kg, succinyl choline 1.5 mg/kg, Isoflorane 0.75, N2O 50% and O2. (6) Main outcome measures (variables), 24 h Preoperative and 24 h postoperative hemoglobin and hematocrit values and Apgar score were recorded in two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201510087752N7**

Registration date: **2015-12-19, 1394/09/28**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-12-19, 1394/09/28

Registrant information

Name

Parviz Amri Maleh

Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 1223 8296

Email address

pamrimaleh@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellor for research, Babol University of Medical Sciences

Expected recruitment start date

2009-11-10, 1388/08/19

Expected recruitment end date

2011-08-23, 1390/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison Effect of General and Spinal Anesthesia on Hemoglobin and Hematocrit Value in Women after Cesarean Section

Public title

Comparison Effect of General and Spinal Anesthesia on Hemoglobin and Hematocrit after Cesarean Section

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Pregnant woman; elective cesarean ; ASA class =1 Exclusion criteria: Systemic disease

;Emergency cesarean; fetal distress;Preterm pregnancy;Multiparous pregnancy; Decolman; Atony;Surgical time greater than 1 hour .

Age

No age limit

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 88

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 Babol University of Medical Sciences

Street address

Babol University of Medical Sciences,Gangafrooz Street, Daneshgah Square, Babol, Mazandaran, Iran

City

Babol

Postal code

471764136

Approval date

2009-11-10, 1388/08/19

Ethics committee reference number

83/90/325

Health conditions studied**1****Description of health condition studied**

cesarean Section

ICD-10 code

089.2

ICD-10 code description

Delivery by caesarean section, unspecified

Primary outcomes**1****Description**

Hemoglobin

Timepoint

Preoperation,24 hours after surgery

Method of measurement

Miligram per desilitr

2**Description**

Hematocrit

Timepoint

Preoperation,24 hours after surgery

Method of measurement

Percent

Secondary outcomes**1****Description**

Blood Pressure

Timepoint

Basic,After incision,After skreen closure

Method of measurement

Millimeter per silver

2**Description**

APEGARE Score

Timepoint

1,5 minutes afer birth

Method of measurement

Number

Intervention groups**1****Description**

The intervention group received general anesthesia with Isoflorane 0. 75, N2O 50%and O2 .

Category

Treatment - Drugs

2**Description**

The control group received spinal anesthesia with 12 mg of bupivacaine.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Rohani Teaching Hospital

Full name of responsible person

Amri Maleh Parviz

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Rohany teaching Hospital, Ganjafrooz Street,
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Web page address

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for research, Babol University of
Medical Sciences

Full name of responsible person

Moghaddamnia Ali

Street address

Babol University of Medical Sciences, Gangafrroz St,
Daneshgah Square, Babol, Iran

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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, Babol 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

Vice-chancellor for research, Babol University of
Medical Sciences

Full name of responsible person

Amri Maleh Parviz

Position

Associated professor/Anesthesiologist

Other areas of specialty/work

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Person responsible for scientific inquiries

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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