

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jun 2026

Compare the effect of general anesthesia and spinal anesthesia on hemoglobin concentration after cesarean section

Protocol summary

Summary

The purpose of this study was to compare the effect of general anesthesia and spinal anesthesia on hemoglobin concentration after cesarean section. The study randomized, double-blind, placebo be conduct without control. 220 pregnant women reffered to Khatamol anbia Hospital with gestational age 38 to 40 weeks of pregnancy with less than or equal to 5 that the operation time is less than 90 minute that have not medical and obstetric problems which may increase the risk of bleeding during labor were divided in two groups general anesthesia and spinal anesthesia. Hemoglobin and hematocrit 6 and 24 hours after cesarean section were measured in both groups will be compared with each other.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015110612642N21**

Registration date: **2015-11-17, 1394/08/26**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-11-17, 1394/08/26

Registrant information

Name

Majid Golestani Eraghi

Name of organization / entity

Shahid Beheshti University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 3336 0547

Email address

dr.golestani@arakmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Zahedan University of Medical Sciences

Expected recruitment start date

2015-05-22, 1394/03/01

Expected recruitment end date

2015-11-22, 1394/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Compare the effect of general anesthesia and spinal anesthesia on hemoglobin concentration after cesarean section

Public title

The effect of anesthesia on changes in hemoglobin after cesarean section

Purpose

Prevention

Inclusion/Exclusion criteria

inclusion criteria: Gestasional age between 38-40weeks; Single; gravidity less than or equal to 5; parity less than or equal to 4. exclusion criteria: Atonic uterus; preeclampsia; coagulation disorders; placental abruption; emergent caesarean; Birth weight over 4 kg; operation time over 90 minutes; heart problems; preterm labor; uterine myoma; Medical and obstetric problems which may increase the risk of bleeding during labor.

Age

No age limit

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **220**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double 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 Zahedan University of Medical Sciences

Street address

Dr Hesabi.Squ

City

Zahedan

Postal code

Approval date

2013-09-29, 1392/07/07

Ethics committee reference number

6004

Health conditions studied

1

Description of health condition studied

The effect of anesthesia on bleeding

ICD-10 code

O29.8

ICD-10 code description

Other complications of anaesthesia during pregnancy

Primary outcomes

1

Description

Hemoglobin

Timepoint

The day before and 6 hours and 24 hours after surgery

Method of measurement

According to the lab and on the basis grams per deciliter

2

Description

Hematocrit

Timepoint

The day before and 6 hours and 24 hours after surgery

Method of measurement

According to the lab and on the basis percent

3

Description

duration time of surgery

Timepoint

Intraoperative

Method of measurement

The time between cutting the skin with its restoration in minutes

Secondary outcomes

1

Description

patient's age

Timepoint

Before entering the scheme

Method of measurement

Basis on age

2

Description

Gestational age

Timepoint

Before entering the scheme

Method of measurement

According to the first ultrasonic by week

Intervention groups

1

Description

In the first group (general anesthesia) induction of anesthesia with 5 mg per killogram body weight sodium thiopental to perform endotracheal intubation direction of one and a half milligrams per kilogram of body weight is used succinylcholine

Category

Prevention

2

Description

In the second group (spinal anesthesia) ziro point five percentage bupivacaine in the sitting position by spinal needle is injected into the subarachnoid space.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center
Hazrat Ali ebne abitaleb Hospital
Full name of responsible person
Alireza Jahangirifard
Street address
Darabad Ave
City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice Chancellor for research of Zahedan University of Medical Sciences
Full name of responsible person
Hamidreza Mahmoodzadeh Sagheb
Street address
Dr Hesabi.Squ
City
Zahedan
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 of Zahedan 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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Department of Anesthesiology of Shahid Beheshti University Of Medical Science

Full name of responsible person

Alireza Jahangirifard

Position

Fellowship of Cardiac Anesthesia

Other areas of specialty/work

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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