

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The comparison of Clonidine and magnesium sulfate on depth of anesthesia during cesarean section under general anesthesia

Protocol summary

Summary

The objective of this study is to compare clonidine and magnesium sulfate on depth of anesthesia during cesarean section under general anesthesia. In this clinical trial, 120 patients with ASA I who are candidate for cesarean section, are randomly allocated into 3 groups. In the first group, the samples are required to take one clonidine tablet 0.2 milligram one- hour prior to induction of anesthesia. In the second group, samples will be given magnesium sulfate 30mg per kg solved in 100 milliliter normal saline during 10 minutes prior to induction of anesthesia. The first and third (control) groups will be given 100 milliliter normal saline (placebo) during 10 minutes prior to induction of anesthesia. Then, the depth of anesthesia, blood pressure and heart rate of the patients are measured and recorded after anesthesia induction, after intubation and after the delivery of neonate. Also, postoperative recall of events occurring during anesthesia is recorded with 24 hours after operation.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013021112425N1**

Registration date: **2014-03-12, 1392/12/21**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-03-12, 1392/12/21

Registrant information

Name

Maryam Hamidi shad

Name of organization / entity

Kasahan University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kashan University of Medical Sciences

Expected recruitment start date

2012-12-21, 1391/10/01

Expected recruitment end date

2013-12-22, 1392/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The comparison of Clonidine and magnesium sulfate on depth of anesthesia during cesarean section under general anesthesia

Public title

The comparison of Clonidine and magnesium sulfate on depth of anesthesia during cesarean section under general anesthesia

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria : pregnant women; ASA-1; elective cesarean section exclusion criteria: hypertension; diabetes; renal disease; cardiovascular disease; preeclampsy; allergy of clonidine or magnesium sulfate; using of antiepileptic drug; difficult intubation; depression or

other psychological disease.

Age

No age limit

Gender

Female

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 120

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Kashan University of Medical Sciences

Street address

5th Km of Ghotbe Ravandi Bulv.

City

Kashan

Postal code**Approval date**

2012-11-22, 1391/09/02

Ethics committee reference number

3159/1/5/29/پ

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

Depth of anesthesia

ICD-10 code

Y84

ICD-10 code description

Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure

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

Depth of anesthesia

Timepoint

After induction,after intubation,after delivery

Method of measurement

With cerebral state monitoring device

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

Awareness

Timepoint

The day after surgery

Method of measurement

Question

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

Group 1:tab clonidine 0/2 mg ,1hour befor induction and infusion of 100 cc normal saline(placebo) ,during 10 minutes befor induction of anesthesia

Category

Treatment - Drugs

2**Description**

Group 2:Sulfate Magnesium 30 mg/kg that is solued in 100 cc normal saline will be given during 10 minutes

Category

Treatment - Drugs

3**Description**

Group 3:control group,that will be given 100 cc normal saline(placebo) during 10 minutes befor induction of anesthesia

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Shabihkhani Hospital

Full name of responsible person**Street address****City**

Kashan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor of Research, Kashan University of Medical Sciences

Full name of responsible person

Dr. Gholam Ali Hamidi

Street address

5th Kilometer Ghotbe Ravandi Bulv.Kashan University of Medical Sciences

City

kashan

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

Yes

Title of funding source

Vice Chancellor of Research, Kashan 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**

kashan University of Medical Sciences

Full name of responsible person

Maryam Hamidi Shad

Position

Assistant of anesthesiology

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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