Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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 occuring 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

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Name of organization / entity

Kasahan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kashan Univercity 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 critria : pregnant women; ASA-1; elective cesarean section exclusion critria: hypertention; diabet; renal disease; cardiovascular disease; preeclampsy; allergy of clonidine or magnesiom sulfate; using of antiepileptic drug; difficult intubation; depression or

other psycological 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 Magnesiom 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
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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

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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