Clinical Trial Protocol
Iranian Registry of Clinical Trials

15 Jul 2026

A comparison of effect of succinylcholine and remifentanil on intubating conditions in elective cesarean section

Protocol summary

Summary

1- Objectives: Many of mothers need to do cesarean under general anesthesia. The main goal in this study is comparison of intubating conditions in remifentanil group versus succinylcholine group. 2- Design: Due to sux side effects investigators have searched to find a drug that has sux characters: "Remifentanil" an ultrshort opioid was used in number of studies in place of sux. It had not any bad effect even in 34 hours infusion before delivery. 3- Setting and conduct: We divide patients in two groups: Intervention group: For induction 1mic/kg remifentanil in 30 seconds and 5mg/kg thiopental in 10 seconds and N/S 5 cc are administered. After 1 min intubation is done. Control group or sux group: For induction 5mg/kg thiopental in 10 seconds and 1.5 mg/kg sux are administered. After 30 seconds intubation is done. Then we compare intubating conditions and APGAR in these two groups. 4- Participants including major eligibility criteria: Iranian pregnant females; ASA class1 and 2; 18-35 years old; BMI 18.5-24.9; without common cold; elective cesarean. Mothers with difficult airway and ASA class 3 to 6; and fetal distress are excluded from study. 5- Intervention: Remifentanil is used instead of sux. 6- Main outcome measures variable: Intubating conditions and APGAR

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013010612035N1**
Registration date: **2013-07-29, 1392/05/07**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-07-29, 1392/05/07

Registrant information

Name
Hamed Abdollahi
Name of organization / entity
Tehran University of Medical Sciences
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2013-05-22, 1392/03/01

Expected recruitment end date

2013-08-23, 1392/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparison of effect of succinylcholine and remifentanil on intubating conditions in elective cesarean section

Public title

Replacement of sux by remifentanil in intubation (GA) in cesarean

Purpose

Health service research

Inclusion/Exclusion criteria

Major inclusion criteria: Iranian pregnant female; ASA class1 and 2; 18-35 years old; BMI 18.5-24.9; without common cold; elective cesarean. Major exclusion criteria:

difficult airway; significant respiratory disease; severe asthma; GERD; neurologic and neuromuscular disease; cardiovascular disease; HTN; DM; allergy to drugs used in this study; organ failure; pregnancy intoxication; GDM; Placental abruption; oligo and polyhydramnious; placental abnormalities; coagulation and fetal abnormalities; opium and alcohol abuse.

Age
From **18 years** old to **35 years** old

Gender
Female

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **100**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Zahdan University of Medical Sciences

Street address
Pardis, Hesabi square, Zahedan

City
Zahedan

Postal code
98167-43463

Approval date
2012-08-14, 1391/05/24

Ethics committee reference number
91-932

Health conditions studied

1

Description of health condition studied
muscle relaxant in cesarean intubation

ICD-10 code
T88.4

ICD-10 code description
Failed or difficult intubation

Primary outcomes

1

Description
intubation conditions

Timepoint
soon after intervention

Method of measurement
upon 5 Primary outcome is devided to 3 groups as well, intermediate and bad.

2

Description
APGAR

Timepoint
at min. 1 and 5 after delivery

Method of measurement
upon APGAR standard scale

Secondary outcomes

1

Description
jaw relaxation

Timepoint
soon after intervention

Method of measurement
upon numeric scale of jaw relaxation

2

Description
laryngoscopy

Timepoint
1 min. after intervention

Method of measurement
upon numeric scale of laryngoscopy

3

Description
vocal cords

Timepoint
1 min. after intervention

Method of measurement
upon numeric scale of vocal cords movement

4

Description
bucking after intubation

Timepoint
1 min after intervention

Method of measurement
upon numeric scale of bucking after intubation

5

Description
limbs movement
Timepoint
soon after intervention
Method of measurement
upon numeric scale of limbs movement after intubation

Intervention groups

1

Description
Intervention group: For induction 1mic/kg remifentanil in 30 seconds and 5mg/kg sodium thiopental in 10 seconds and N/S 5 cc are administered. After 1 min intubation is done.
Category
Treatment - Drugs

2

Description
Control group or sux group: For induction 5mg/kg thiopental in 10 seconds and 1.5 mg/kg sux are administered. After 30 seconds intubation is done.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Ali Ebne Abitaleb hospital
Full name of responsible person
Hamed Abdollahi Murchekhorti
Street address
Khatam hospital, Khatam square, Zahedan
City
Zahedan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Zahedan University of Medical Sciences
Full name of responsible person
Hamid Reza Mahmudzade Sagheb
Street address
Pardis, Hesabi square, Zahedan
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, 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
Zahedan University of Medical Sciences
Full name of responsible person
Hamed Abdollahi Murchekhort
Position
Anesthesiology resident
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Person responsible for updating data

Contact
Name of organization / entity
Zahedan University of Medical Sciences
Full name of responsible person
Hamed Abdollahi Murchekhorti
Position
Anesthesiology resident
Other areas of specialty/work
Street address
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habdollahi@rocketmail.com

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