

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

A comparison of effect of succinylcholine and remifentanyl 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 remifentanyl group versus succinylcholine group. 2- Design: Due to sux side effects investigators have searched to find a drug that has sux characters: "Remifentanyl" an ultrashort 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 remifentanyl 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: Remifentanyl 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

Country

Iran (Islamic Republic of)

Phone

+98 21 4422 6138

Email address

habdollahi@rocketmail.com

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 remifentanyl on intubating conditions in elective cesarean section

Public title

Replacement of sux by remifentanyl 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 polyhydramnios; 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 Zahedan 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 divided 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

Other areas of specialty/work

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Person responsible for updating data

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Name of organization / entity

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Full name of responsible person

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Position

Anesthesiology resident

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