

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jul 2026

Monitoring and comparison of fluctuations in blood oxygen saturation in two methods of induction of anesthesia by priming and succinylcholine in patients undergoing appendectomy

Protocol summary

Study aim

comparison of fluctuations in blood oxygen saturation in two methods of induction of anesthesia by priming and succinylcholine in patients undergoing appendectomy

Design

This control trial had a control group, with parallel, double-blind, randomized groups. AND 50 patients

Settings and conduct

This study will be performed on 50 patientsr appendectomy at Sabzevar Hospital. as a two-way blind, in which the patient and the researcher are blinded to the group of patients. Background information will include age, sex. In this study, 0.02 mg / kg midazolam and 2 µg / kg fentanyl were given as pretreatment in both groups, and after three minutes in group A, 5 mg / kg sodium thiopental. And then scolin will be given at a dose of 1.5 mg / kg and after 30 seconds the patient is intubated and then atracurium 0.5 mg / kg is prescribed. And after 4 minutes sodium thiopental at a rate of 5 ml / kg and also the rest of the atracurium is administered and after 60 to 90 seconds of intubation is performed in both groups, anesthesia with isoflurane at a dose of 2.1% will be And every 45 minutes fentanyl at a dose of 1 µg / kg and atracurium will be repeated every 30 minutes at one-third the initial dose. In the sections before treatment and also immediately after intubation and during and after the end of surgery, recovery is recorded until transfer to the ward.

Participants/Inclusion and exclusion criteria

Inclusion : candidate for appendectomy with consent to participate in the evaluation between the ages of 20 and 60 years with ASA class 1 and 2 Exclusion : Reluctance to study Patients under 20 years and over 60 years Patients with ASA grade equal to or greater than 3 Patients with advanced heart and lung problems

Intervention groups

The intervention group uses choline succinate for

anesthesia.

Main outcome variables

dyspnea Drug Oxygen saturation Duration of surgery

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170404033202N9**

Registration date: **2022-03-12, 1400/12/21**

Registration timing: **registered_while_recruiting**

Last update: **2022-03-12, 1400/12/21**

Update count: **0**

Registration date

2022-03-12, 1400/12/21

Registrant information

Name

Atefeh Asadi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 4422 9180

Email address

a.asadi.mm.1384@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-11-21, 1400/08/30

Expected recruitment end date

2022-03-20, 1400/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Monitoring and comparison of fluctuations in blood oxygen saturation in two methods of induction of anesthesia by priming and succinylcholine in patients undergoing appendectomy

Public title

Monitoring and comparison of fluctuations in blood oxygen saturation in two methods of induction of anesthesia by priming and succinylcholine in patients undergoing appendectomy

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Diagnosed and designated appendicitis and a candidate for appendectomy consent to participate in the evaluation between the ages of 20 and 60 years with ASA class 1 and 2

Exclusion criteria:

Reluctance to study Patients under 20 years and over 60 years Patients with ASA grade equal to or greater than 3 Patients with advanced heart and lung problems

Age

From **20 years** old to **60 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Outcome assessor

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be selected at random using the most available people for the study. Each person was given a code A or B at random (sheet or envelope) and treatment was performed based on it (group A was intervention and group B was control).

Blinding (investigator's opinion)

Double blinded

Blinding description

This study will be performed as a two-way blind, in which the patient and the evaluating physician are blinded to the patient group so that the patient knows the plan but does not know in which group and the physician recording the variables does not know the patient group. Depending on whether the patient is in group A (intervention) or B (control), the drugs are different.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics committee of Sabzevar University of Medical Sciences

Street address

Campus of University of Medical Sciences

City

Sabzevar

Province

Razavi Khorasan

Postal code

9613885697

Approval date

2022-02-08, 1400/11/19

Ethics committee reference number

IR.MEDSAB.REC.1400.150

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

Comparison of fluctuations in blood oxygen levels in two methods of induction of anesthesia by priming and succinylcholine

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Measurement of blood oxygen

Timepoint

Before treatment and immediately after surgery, recovery is recorded at intervals of 10 minutes to 3 times until transfer to the ward.

Method of measurement

check list

Secondary outcomes

empty

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

Intervention group: The group receiving succinylcholine for anesthesia. Intervention group: The group receiving

succinylcholine for anesthesia in this study in both groups 0.02 mg / kg midazolam and 2 µg / kg fentanyl was given as a premedication and after three minutes in group A 5 mg / kg sodium Thiopental is given and then scolin is given at a dose of 1.5 mg / kg and after 30 seconds the patient is intubated and then atracurium 0.5 mg / kg is administered in both groups of anesthesia with isoflurane at a dose of 2.1%. And every 45 minutes fentanyl at a dose of 1 µg / kg and atracurium at 30% of the initial dose will be repeated every 30 minutes.

Category

Treatment - Drugs

2

Description

Control group: In this study, in both groups, 0.02 mg / kg midazolam and 2 µg / kg fentanyl were given as pre-medication and after three minutes in group B (control) after pre-medication, 10% dose of atracurium (half mg). / Kg) is prescribed for 4 minutes sodium thio pental at a rate of 5 ml / kg and the rest of the atracurium is administered and after 60 to 90 seconds of intubation is performed in both groups of anesthesia with isoflurane at a dose of 1/2 Will be and every 45 minutes fentanyl at a dose of 1 microgram / kg and atracurium will be repeated every 30 minutes at a rate of one third of the initial dose

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Hospital

Full name of responsible person

Mohammad Nematshahi

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Sabzevar University of Medical Sciences Campus

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Mohammad saghee

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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Sabzevar University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Mohammad Nematshahi

Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Person responsible for scientific inquiries

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available