

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

To compare the effect of intravenous Rapifen and Lidocaine to control hemodynamic responses in laryngoscopy and intubation

Protocol summary

Summary

The aim of this study is to compare the effect of intravenous Rapifen and Lidocaine to control hemodynamic responses in laryngoscopy and intubation. Its applied objective is to use a method that better controls blood pressure and heart rate in laryngoscopy and intubation. The main criterion for patients to include this study was age (15-60 years old). Also, the criteria to exclude this study are patients with narcotics addiction, cardiopulmonary diseases, hypertension (more than 140/90), chronic diseases using narcotics, and pregnant women. Sample population include 120 patients needing endotracheal intubation and surgery, admitting in Shahid Rajaei and Velayat hospitals of Qazvin. Patients divide into four groups (A, B, C, and D), randomly. Induction of anesthesia include; Fentanyl (1 microgram per kilogram) plus Midazolm (0/02 milligram per kilogram), and after two minutes, Nesdonal (5 milligram per kilogram) plus Atracurium (0/5 milligram per kilogram). In addition to induce the routine anesthesia; Group A, receive distilled water. Distilled water is placebo. Group B receive intravenous Lidocaine (1/5 milligram per kilogram), group C receive intravenous Rapifen (10 microgram per kilogram), and group D receive intravenous Lidocaine (1/5 milligram per kilogram) plus Rapifen (10 microgram per kilogram), 1/5 minutes before laryngoscopy and intubation. In each group, blood pressure and heart rate measure before sedation & induction, and 20 seconds & 5 minutes after laryngoscopy, respectively.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014042117373N1**

Registration date: **2014-10-20, 1393/07/28**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-10-20, 1393/07/28

Registrant information

Name

Kambiz Boroojli

Name of organization / entity

Qazvin University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Qazvin University of Medical Sciences, Shahid Rajaie and Velayat hospitals

Expected recruitment start date

2014-07-23, 1393/05/01

Expected recruitment end date

2014-10-23, 1393/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

To compare the effect of intravenous Rapifen and Lidocaine to control hemodynamic responses in laryngoscopy and intubation

Public title

To compare the effect of intravenous Rapifen and Lidocaine to control hemodynamic responses in

laryngoscopy and intubation

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: patients with 15 years old to 60 years old

Exclusion criteria: addiction : patients with heart disease : respiratory disease : hypertension(>140/90) : chronic disease with giving analgesic drugs : pregnancy

Age

From **15 years** old to **60 years** old

Gender

Both

Phase

4

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Used

Assignment

Factorial

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Qazvin University of Medical Sciences

Street address

Bahonar street , Qazvin University of Medical Sciences

City

Qazvin

Postal code

Approval date

2014-03-03, 1392/12/12

Ethics committee reference number

28/20/8498

Health conditions studied

1

Description of health condition studied

General anesthesia

ICD-10 code

T 88.5

ICD-10 code description

Other complications of anesthesia

Primary outcomes

1

Description

Blood pressure

Timepoint

Before sedation , before induction , 20 s after laryngoscopy , 5 minutes after laryngoscopy

Method of measurement

Blood pressure measurement device

2

Description

Heart rate

Timepoint

Before sedation , before induction , 20 s after laryngoscopy , 5 minutes after laryngoscopy

Method of measurement

Monitoring of heart rate device

Secondary outcomes

empty

Intervention groups

1

Description

In group A, patients receive routine anesthesia, and distilled water 1.5 minutes before laryngoscopy and intubation .Distilled water is placebo.

Category

Treatment - Drugs

2

Description

In addition to induce routine anesthesia; patients in group B receive intravenous Lidocaine (1.5 milligram per kilogram) 1.5 minutes before laryngoscopy and intubation

Category

Treatment - Drugs

3

Description

In addition to induce routine anesthesia; patients in group C receive intravenous Rapifen (10 microgram per kilogram) 1.5 minutes before laryngoscopy and intubation

Category

Treatment - Drugs

4

Description

In addition to induce routine anesthesia; patients in group D receive intravenous Lidocaine (1.5 milligram per kilogram) plus Rapifen (10 microgram per kilogram) 1.5

minutes before laryngoscopy and intubation

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Qazvin University of Medical Sciences , Velayat hospital

Full name of responsible person

Kambiz Boroojli

Street address

Elahieh street , 22 bahman street , Taavon square , Qazvin

City

Qazvin

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

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Street address

Elahieh street , 22 bahman street , Taavon square , Qazvin

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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

Qazvin 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

Qazvin University of Medical Sciences

Full name of responsible person

Kambiz Boroojli

Position

Anesthesia resident

Other areas of specialty/work

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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