

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Determination of the low dose ephedrine and lidocaine effect on pain and hemodynamic changes due to propofol injection

Protocol summary

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Summary

The aim of this study was to compare pretreatment with ephedrine and lidocaine on intensity of pain on injection of propofol and hemodynamic changes. This study was done as a randomized double blind clinical trial in 2009 in Shahid Rajaee hospital. 99 patients, ASA physical status I and II, were randomly assigned into three groups to receive intravenous (IV) lidocaine 40mg, ephedrine 30µg/kg or 2ml saline. After one minute, propofol, 2mg/kg, was injected into a dorsal hand vein. Pain, assessed through face pain scale (FPS), arterial blood pressure, and heart rate were recorded before induction, just before intubation, and one minute after intubation.

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Qazvin University of Medical Sciences

Expected recruitment start date

2009-04-21, 1388/02/01

Expected recruitment end date

2009-07-23, 1388/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138812053423N1**

Registration date: **2010-06-12, 1389/03/22**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-06-12, 1389/03/22

Registrant information

Name

Hamideh Yari

Name of organization / entity

Qazvin University of Medical Sciences & Health Services

Country

Iran (Islamic Republic of)

Phone

+98 28 1368 5495

Email address

Scientific title

Determination of the low dose ephedrine and lidocaine effect on pain and hemodynamic changes due to propofol injection

Public title

Comparison of ephedrine and lidocaine effects on pain and blood pressure changes due to propofol injection

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: undergone elective surgery, absence of heart disease, cardiovascular, and neurological and allergic disease, age 20-50. Exclusion criteria: receiving tranquilizer, opiate or analgesic during 24 hours prior to the intervention, difficulty in communicating with patients, wheal after induction despite no history of allergies, multiple intubation attempts

Age

From **20 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 99

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Qazvin University of Medical Sciences & Health Services

Street address

Shahid Bahonar Blvd. Qazvin

City

Qazvin

Postal code

Approval date

empty

Ethics committee reference number

28/20/2766

Health conditions studied

1

Description of health condition studied

the advantage effects of efedrine on reducing Side effects of propofol

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

pain

Timepoint

one Minute before Intervention,one and three after Intervention

Method of measurement

face pain scale

2

Description

blood pressure chnges

Timepoint

one Minute before Intervention,one and three after Intervention

Method of measurement

blood pressure on the scale mmHg

3

Description

Heart rate

Timepoint

one Minute before Intervention, one and three after the intervention

Method of measurement

Measured by pulse oximetry device on the scale beat per minute

Secondary outcomes

empty

Intervention groups

1

Description

Injection of saline (0/9%) 2 cc , intravenous (dorsal hand vein) one minute before induction with propofol

Category

Prevention

2

Description

Injection of lidocaine (2%)2 cc , intravenous (dorsal hand vein) one minute before induction with propofol

Category

Prevention

3

Description

Injection of efedrine, 30 microgram per kilogram, intravenous (dorsal hand vein) one minute before induction with propofol

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Rajaei hospital, Qazvin

Full name of responsible person

Dr. Hamideh Yari

Street address

Padegan st., Qazvin

City
Qazvin

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor for research, Qazvin University of Medical Sciences

Full name of responsible person
Dr. Saeed Asefzadeh

Street address
Shahid Bahonar Blvd. Qazvin

City
Qazvin

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, 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 & Health Services

Full name of responsible person
Dr. Hamideh Yari

Position
Resident of anesthesia

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

Name of organization / entity
Qazvin University of Medical Sciences & Health Services

Full name of responsible person
Dr Marzieh Beigom Khezri

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Resident of anesthesia

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Web page address

Person responsible for updating data

Contact

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