

# 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

**Street address**  
No.18, Iran 4 Alley, Iran Blvd., Janbazan square,  
Qazvin

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#### Postal code

**Phone**  
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**Fax**  
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**Email**  
hyari@qums.ac.ir

#### Web page address

## 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

**Position**  
Resident of anesthesia

#### Other areas of specialty/work

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No.18, Iran 4 Alley, Iran Blvd., Janbazan square,  
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hyari@qums.ac.ir

#### 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*