

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

05 Jun 2026

### Comparing the effects of three different additional doses of propofol infusion on intubation condition and hemodynamic changes during general anesthesia under elective surgery

#### Protocol summary

##### Summary

Laryngoscopy and endotracheal intubation can induce unfavorable hemodynamic changes as propofol itself can induce hypotension. The aim of this study was to compare the effects of three different additional doses of propofol infusion on intubation conditions and hemodynamic changes occurred after intubation. This double-blinded prospective study was performed on 140 patients aged 18-60 who received different additional doses of propofol and were randomly allocated into 4 groups as follows: A: received additional dose of propofol 0.5 mg/kg infused after an initial dose 1.5 mg/kg .B: received additional dose of propofol 1mg/kg infused after an initial dose 1mg/kg. C:received additional dose of propofol 1.5 mg/kg after an initial dose 1mg/kg. D:received propofol 2mg/kg as a bolus with no additional dose.Heart rate and mean arterial pressure were examined and recorded at preinduction, immediately prior to laryngoscopy, one , three ,five and ten minutes after laryngoscopy.Intubation conditions were examined and categorized by Magorian et al.scoring system .

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201307145362N6**

Registration date: **2013-08-01, 1392/05/10**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2013-08-01, 1392/05/10

##### Registrant information

Name

Mohammadreza Safavi

##### Name of organization / entity

Anesthesiology and Critical Care Research Center,  
Isfahan University of Medical Sciences, Isfahan

##### Country

Iran (Islamic Republic of)

##### Phone

+98 31 1273 2659

##### Email address

safavi@med.mui.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Isfahan University of Medical Sciences

##### Expected recruitment start date

2011-03-20, 1389/12/29

##### Expected recruitment end date

2012-03-19, 1390/12/29

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparing the effects of three different additional doses of propofol infusion on intubation condition and hemodynamic changes during general anesthesia under elective surgery

##### Public title

Comparing the effects of three different additional doses of propofol infusion on intubation condition and hemodynamic changes during general anesthesia under elective surgery

##### Purpose

Prevention

## Inclusion/Exclusion criteria

Inclusion criteria: American Society of Anesthesiologists (ASA) physical status I and II patients ; aged 18 to 60 years ; with normal airway; Body Mass Index less than 27.5 kg/m<sup>2</sup> and more than 18.5 kg/m<sup>2</sup> . Exclusion criteria : sensitivity to protocol ; anesthesia with techniques, different from the protocol of this study.

## Age

From **18 years** old to **60 years** old

## Gender

Both

## Phase

N/A

## Groups that have been masked

*No information*

## Sample size

Target sample size: **140**

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Double blinded

## Blinding description

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Isfahan University of Medical Sciences

##### Street address

Isfahan University of Medical Sciences, Isfahan,Iran

##### City

Isfahan

##### Postal code

#### Approval date

2011-09-23, 1390/07/01

#### Ethics committee reference number

390172

## Health conditions studied

### 1

#### Description of health condition studied

complications of tracheal intubation

#### ICD-10 code

T88.4

#### ICD-10 code description

failed or difficult intubation

## Primary outcomes

### 1

#### Description

Intubation conditions

#### Timepoint

at the time of intubation

#### Method of measurement

Magorian et al scoring system

### 2

#### Description

hemodynamic changes

#### Timepoint

at preinduction, immediately prior to laryngoscopy, one , three ,five and ten minutes after laryngoscopy

#### Method of measurement

blood pressure (mmHg) and pulse(bpm) measured by heart monitoring device

## Secondary outcomes

### 1

#### Description

bronchospasm,laryngospasmand cyanosis

#### Timepoint

after laryngoscopy and intubation

#### Method of measurement

observation

## Intervention groups

### 1

#### Description

Group A received additional dose of propofol 0.5 mg/kg infused after an initial dose 1.5 mg/kg .additional dose of propofol was infused within 90 seconds by infusion pump.

#### Category

Prevention

### 2

#### Description

Group B received additional dose of propofol 1mg/kg infused after an initial dose 1mg/kg. additional dose of propofol was infused within 90 seconds by infusion pump.

#### Category

Prevention

### 3

#### Description

Group C received additional dose of propofol 1.5 mg/kg after an initial dose 1mg/kg. additional dose of propofol was infused within 90 seconds by infusion pump.

#### Category

Prevention

**4**

**Description**

Group D received propofol 2mg/kg as a bolus with no additional dose.

**Category**

Prevention

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Anesthesiology and Critical Care Research Center, Isfahan University of Medical Sciences, Isfahan, I

**Full name of responsible person**

Mohammadreza Safavi ,MD

**Street address**

Anesthesiology and Critical Care Research Center, Isfahan University of Medical Sciences, Isfahan, Iran

**City**

Isfahan

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Anesthesiology and Critical Care Research Center, Isfahan University of Medical Sciences

**Full name of responsible person**

Peyman Adibi ,MD

**Street address**

Anesthesiology and Critical Care Research Center , Isfahan University of Medical Sciences, Iran

**City**

Isfahan

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Anesthesiology and Critical Care Research Center, Isfahan 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**

Anesthesiology and Critical Care Research Center, Isfahan University of Medical Sciences

**Full name of responsible person**

Mohammadreza Safavi,MD

**Position**

Associate professor of anesthesia

**Other areas of specialty/work**

**Street address**

Anesthesiology and Critical Care Research Center, Isfahan University of Medical Sciences

**City**

Isfahan

**Postal code**

**Phone**

+98 311625555

**Fax**

**Email**

safavi@med.mui.ac.ir; honarmand@med.mui.ac.ir

**Web page address**

www.mui.ac.ir

**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

Anesthesiology and Critical Care Research Center, Isfahan University of Medical Sciences

**Full name of responsible person**

Azim Honarmand,MD

**Position**

Associate professor of anesthesia

**Other areas of specialty/work**

**Street address**

Anesthesiology and Critical Care Research Center, Isfahan University of Medical Sciences

**City**

Isfahan

**Postal code**

**Phone**

+98 913 110 2327

**Fax**

**Email**

honarmand@med.mui.ac.ir

**Web page address**

**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Anesthesiology and Critical Care Research Center, Isfahan University of Medical Sciences

**Full name of responsible person**

Mohammadreza Safavi, MD

**Position**

Associate professor of anesthesia

**Other areas of specialty/work**

**Street address**

Isfahan University of Medical Sciences

**City**

Ifahan

**Postal code**

**Phone**

00

**Fax**

**Email**

safavi@med.mui.ac.ir

**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*