Clinical Trial Protocol
Iranian Registry of Clinical Trials

19 Sep 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

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Name of organization / entity

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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 | and || patients ; aged 18 to 60 years ; with normal airway; Body Mass Index less than 27.5 kg/m2 and more than 18.5 kg/m2 . 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 divice

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