

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

26 Jun 2026

### comparison of different doses of remifentanyl with the combination of propofol and meperidine on endotracheal intubation without muscle relaxant

#### Protocol summary

##### Summary

Background & Purpose: Using muscle relaxants for endotracheal intubation is not always possible, therefore we can use short-acting opioids along with propofol. Design: double-blind clinical trial method: patients are allocated randomly into 2 30-person groups. The doctor and the patients were unaware of the injected dose of the drug. Inclusion criteri: 60 patients aged between 18-35; orthopedic operation; ASA class I,II exclusion criteria: hypertention; cardiovascular problems; difficult and irritant air-way; drug abuse; BMI above 30 interventions: after initial assessment and standard monitoring, 10cc/Kg Ringer's solution is infused. 0.03mg/Kg midazolam and 1mg/Kg meperidine is administered to all of them. After 5 minutes, 1µg/Kg and 1.5µg/Kg remifentanyl is administered to the first and the second group, respectively. Moreover, 2mg/Kg propofol is infused over 60 seconds for both groups. Primary consequences : changes in patient's blood pressure and heart rate in specific time intervals are recorded

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201310234923N4**

Registration date: **2013-12-12, 1392/09/21**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2013-12-12, 1392/09/21

##### Registrant information

##### Name

Bahman Hasannasab

##### Name of organization / entity

Babol University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 11 1223 8296

##### Email address

bahmanh2002@mubabol.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice-chancellor Of Research Babol University Of Medical Sciences

##### Expected recruitment start date

2009-10-23, 1388/08/01

##### Expected recruitment end date

2011-09-21, 1390/06/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

comparison of different doses of remifentanyl with the combination of propofol and meperidine on endotracheal intubation without muscle relaxant

##### Public title

comparison of different doses of remifentanyl with the combination of propofol and meperidine on endotracheal intubation without muscle relaxant

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

inclusion criteria : patients aged between 18-35 , ASA: class I and II , general anesthesia ,undergoing orthopedic

surgery exclusion criteria : The patients with hypertension, cardiovascular problems, irritable air way, drug abuse, BMI above 30, addiction and possibility of difficult airway

#### Age

From **18 years** old to **35 years** old

#### Gender

Both

#### Phase

N/A

#### Groups that have been masked

*No information*

#### Sample size

Target sample size: **60**

#### 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

Ethics committee of Babol University Of Medical Sciences

##### Street address

Daneshgah Square, Ganjafrooz Avenue

##### City

Babol

##### Postal code

#### Approval date

2009-07-04, 1388/04/13

#### Ethics committee reference number

3823/30/پ/ز

## Health conditions studied

### 1

#### Description of health condition studied

endotracheal intubation

#### ICD-10 code

Y45.0

#### ICD-10 code description

Opioids and related analgesics

## Primary outcomes

### 1

#### Description

endotracheal intubation

#### Timepoint

60 seconds after drug injection

#### Method of measurement

evaluation of jaw relaxation ; laryngoscopy status ,vocal cord ,and coughing

## Secondary outcomes

### 1

#### Description

blood pressure

#### Timepoint

before intubation, after drug injection, in one, three and five minutes after endotracheal intubation.

#### Method of measurement

cuff manometer

### 2

#### Description

heart rate

#### Timepoint

before intubation, after drug injection, in one, three and five minutes after endotracheal intubation.

#### Method of measurement

, puls oximetry

## Intervention groups

### 1

#### Description

1µg/Kg remifentanil injection

#### Category

Treatment - Drugs

### 2

#### Description

1.5µg/Kg remifentanil injection

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Shahid beheshti Hospital

##### Full name of responsible person

Dr Bahman Hasannasab

##### Street address

Shahid Ghasemi Avenue

##### City

Babol

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Vice-chancellor Of Research Babol University Of Medical Sciences

**Full name of responsible person**

Dr Amrolah Mostafazadeh

**Street address**

Vice-chancellor Of Research, Daneshgah Square, Ganjafrooz Avenue

**City**

Babol

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Vice-chancellor Of Research Babol 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**

Babol University Of Medical Sciences

**Full name of responsible person**

Dr Bahman Hasannasab

**Position**

Assistant Professor of Anesthesiology

**Other areas of specialty/work**

**Street address**

Anesthesiology Department, Ruhani Hospital, Daneshgah Square, Ganjafrooz Avenue

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**Web page address**

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

Babol University Of Medical Sciences

**Full name of responsible person**

1-Dr Bahman Hasannasab , 2-Dr mohammad ali ropani

**Position**

Assistant Professor of Anesthesiology

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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*