

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jun 2026

Hemodynamic responses to intubation in hypertensive patients: Comparison of two methods: direct laryngoscopy by macintosh blade and indirect laryngoscopy by glydioscope

Protocol summary

Summary

Objectives: this study has been designed to evaluate hemodynamic responses of tracheal intubation by two different methods in hypertensive patients. Design: single blinded randomized clinical trial Inclusion criteria: diagnosed hypertension with at least two weeks of treatment before surgery; BP less than 180/110 mmHg before surgery; no ischemic heart diseases; no renal or neurologic involvement. Exclusion criteria: obesity over 30% above ideal body weight; difficult airway; history of gastrointestinal disease; functional class III, IV according to American Heart Association classification. Main outcome measures: heart rate and blood pressure variations during first five minutes of intubation. Methods: All patients will be fasted from overnight and will receive antihypertensive drugs till 2 hours before surgery. Midazolam 0.1 mg/kg will be administered intramuscularly one hour before surgery. In operating room peripheral venous cannula will be inserted and non invasive monitoring of BP, heart rate, ECG, pulseoxymetry and capnography will be stabilized. Tracheal intubation by PVC tubes sizes 7-7.5 for females and 8-8.5 for males will be done by an expert anesthesiologist. Choosing of intubation method will be according to computer generated random numbers. Anesthesiologists who will intubate the patients have at least 10 years of experience and over 100 cases of videolaryngoscopic intubation.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138903033915N2**
Registration date: **2011-06-08, 1390/03/18**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-06-08, 1390/03/18

Registrant information

Name

Manizheh Mostafa Gharehbaghi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

peirovifara@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

vice chancellor for research, Tabriz university of medical sciences

Expected recruitment start date

2010-10-23, 1389/08/01

Expected recruitment end date

2011-07-21, 1390/04/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Hemodynamic responses to intubation in hypertensive patients: Comparison of two methods: direct laryngoscopy by macintosh blade and indirect laryngoscopy by glydioscope

Public title

Hemodynamic responses to intubation in hypertensive patients

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: diagnosed hypertension; drug treatment for at least 2 weeks before surgery; BP less than 180/110 before surgery; no ischemic heart disease; no renal or neurologic involvement. Exclusion criteria: obesity over 30% above ideal body weight; difficult airway patients; history of gastrointestinal disease; functional class III, IV according to American Heart Association classification.

Age

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

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **160**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Single 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, Tabriz university of medical sciences

Street address

Gholghasht street

City

Tabriz

Postal code**Approval date**

2010-07-01, 1389/04/10

Ethics committee reference number

2515/4/5

Health conditions studied**1****Description of health condition studied**

hypertension

ICD-10 code

I10

ICD-10 code description

Essential (primary) hypertension

Primary outcomes**1****Description**

blood pressure

Timepoint

every minute till 5 minute after intubation

Method of measurement

non invasive monitoring

2**Description**

heart rate

Timepoint

every minute till 5 minute after intubation

Method of measurement

non invasive monitoring

Secondary outcomes

empty

Intervention groups**1****Description**

After stabilization of standard monitoring and administration of isotonic crystalloid 3-5 ml/kg, all patients will pre oxygenated with 100% oxygen for five minutes. Same induction of anesthesia with fentanyl 2mcg/kg, propofol 2mg/kg and cisatracurium 0.15mg/kg will be induced for all patients. For intervention group specific gladioscope stylet will be lubricated and inserted inside endotracheal tube. Indirect laryngoscopy and tracheal intubation will be done by video laryngoscope.

Category

Other

2**Description**

For control group standard direct laryngoscopy by Macintosh with appropriate blade size will be done .

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza Hospital

Full name of responsible person

Ali Peirovifar

Street address

Operatin Room, Emam Reza Hospital, Ghoghasht street

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research,Tabriz University of Medical Sciences

Full name of responsible person

Dr Rashidi

Street address

Vice chancellor for research,Tabriz University of Medical Sciences, Gholghash street

City

Tabriz

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,Tabriz 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

Tabriz University of Medical Sciences

Full name of responsible person

Ali Peirovifar

Position

Associate Professor

Other areas of specialty/work

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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