

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jun 2026

### Comparison of the effect of intravenous labetalol administration with intravenous lidocaine on hemodynamic variables during laryngoscopy and endotracheal intubation and postoperative nausea and vomiting in female patients undergoing abdominal surgery

#### Protocol summary

##### Study aim

Comparison of the effect of intravenous labetalol administration with intravenous lidocaine on hemodynamic variables during laryngoscopy and endotracheal intubation and postoperative nausea and vomiting in female patients undergoing abdominal surgery

##### Design

This study is a one-blind randomized clinical trial, without control group, with parallel group and phase 2-3, in which 64 patients are randomly divided into 2 groups of 32 using a random number table.

##### Settings and conduct

This trial is performed by a researcher in the Kowsar operating room of Shahid Sadoughi Hospital in Yazd, in 2 groups of 32 people. Patients do not know the type of drug, In the first group, Labetalol and the second group, lidocaine is injected intravenously. The mentioned hemodynamic variables are measured in the times; immediately before the injection of drug and laryngoscopy, immediately after endotracheal intubation, immediately after skin incision and the result is recorded in the questionnaire. side effects; Bradycardia, hypotension, nausea and vomiting are evaluated and recorded in a questionnaire. Finally, the results are analyzed by SPSS software and relevant statistical tests

##### Participants/Inclusion and exclusion criteria

Inclusion: All women Who candidate for abdominal surgery, American Society of Anesthesiologists(ASA class1&2) Exclusion: patients with arterial hypertension, ischemic heart disease, sever heart disease pulmonary, liver and renal disease and addiction

##### Intervention groups

Intervention group1: Intravenous infusion labetalol 10mg immediately before general anesthesia Intervention group2: Intravenous infusion lidocaine at a dose of

1.5mg/kg immediately before general anesthesia

##### Main outcome variables

Changes in mean arterial, diastolic, systolic blood pressure and heart rate; Determining and comparing the incidence of side effects: bradycardia and hypotension;And incidence of vomiting and nausea

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20100102002963N30**

Registration date: **2021-04-24, 1400/02/04**

Registration timing: **prospective**

Last update: **2021-04-24, 1400/02/04**

Update count: **0**

##### Registration date

2021-04-24, 1400/02/04

##### Registrant information

##### Name

Shekoufeh Behdad

##### Name of organization / entity

Shahid Sadoughi University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 35 1822 1386

##### Email address

drbehdad@ssu.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

**Expected recruitment start date**

2021-05-10, 1400/02/20

**Expected recruitment end date**

2021-07-11, 1400/04/20

**Actual recruitment start date**

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Comparison of the effect of intravenous labetalol administration with intravenous lidocaine on hemodynamic variables during laryngoscopy and endotracheal intubation and postoperative nausea and vomiting in female patients undergoing abdominal surgery

**Public title**

Comparison of the effect of intravenous labetalol administration with intravenous lidocaine on hemodynamic variables and postoperative nausea and vomiting

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

All women candidates for abdominal surgery All women between the ages of 25 and 65 years All women with systolic blood pressure between 90 mm hg and 160 mm Hg All women with normal body mass index All women with diastolic blood pressure between 70 and 100 mm Hg American Society of Anesthesiologists (ASA) class 1 : a normal healthy patient ,for Example: Fit, nonobese (BMI under 30), a nonsmoking patient with good exercise tolerance. American Society of Anesthesiologists (ASA) class 2 : a patient with a mild systemic disease ,for Example: Patients with no functional limitations and a well-controlled disease (for example treated hypertension, obesity with BMI under 35, frequent social drinker or a cigarette smoker)

**Exclusion criteria:**

Arterial hypertension Ischemic heart disease Heart failure Pulmonary disease Addiction Renal disease Liver disease

**Age**

From **25 years** old to **65 years** old

**Gender**

Female

**Phase**

2-3

**Groups that have been masked**

- Participant

**Sample size**

Target sample size: **64**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

In order to randomly allocate 64 eligible applicants, we randomly divide them into two groups of 32 people. For

this purpose, we use Random allocation software version 1.0 under Windows to create a sequence, and by using this software we make A list which is specified from 1 to 64 with group A or B treatment By Using this list, we give the first person who is eligible to enter the study, number one and the last person the number 64, then based on the random allocation list and by the software, it is determined which group A or B each person is in.

**Blinding (investigator's opinion)**

Single blinded

**Blinding description**

This study is a single-blind randomized clinical trial in which patients are unaware of the type of drug being prescribed, so that the two drugs are prepared and coded in two identical syringes. And according to random numbers, the specified code is given to the patients

**Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics Committee of Ali Ibn Abi Talib Medical School (AS), Islamic Azad University, Yazd Branch

**Street address**

Safaieh, Boulevard of the Shohadaie Gomnam

**City**

Yazd

**Province**

Yazd

**Postal code**

8915813135

**Approval date**

2020-06-29, 1399/04/09

**Ethics committee reference number**

IR.IAU.YAZD.REC.1399.028

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

Comparison of the effect of intravenous labetalol with intravenous lidocaine on hemodynamic variables during laryngoscopy and endotracheal intubation and postoperative nausea and vomiting in patients undergoing abdominal surgery

**ICD-10 code****ICD-10 code description**

## Primary outcomes

### 1

#### **Description**

Changes in systolic blood pressure

#### **Timepoint**

Immediately before drug injection Immediately before laryngoscopy Immediately after intubation Immediately after skin incision

#### **Method of measurement**

Operating room monitoring with Blood pressure cuff connected to the monitor and recording information in a questionnaire

### 2

#### **Description**

Determining and comparing the incidence of bradycardia (heart rate <50 )

#### **Timepoint**

Immediately after the operation in recovery room

#### **Method of measurement**

Monitoring in the recovery room with a blood pressure monitor connected to the monitor and recording information in a questionnaire

### 3

#### **Description**

Determining and comparing the incidence of vomiting and nausea

#### **Timepoint**

Immediately after the operation in recovery room

#### **Method of measurement**

Question from the patient and registration in the questionnaire

### 4

#### **Description**

Changes in diastolic blood pressure

#### **Timepoint**

Immediately before drug injection Immediately before laryngoscopy Immediately after intubation Immediately after skin incision

#### **Method of measurement**

Operating room monitoring with Blood pressure cuff connected to the monitor and recording information in a questionnaire

### 5

#### **Description**

Changes in mean arterial blood pressure

#### **Timepoint**

Immediately before drug injection Immediately before laryngoscopy Immediately after intubation Immediately after skin incision

#### **Method of measurement**

Operating room monitoring with Blood pressure cuff connected to the monitor and recording information in a questionnaire

### 6

#### **Description**

changes in heart rates

#### **Timepoint**

Immediately before drug injection Immediately before laryngoscopy Immediately after intubation Immediately after skin incision

#### **Method of measurement**

Operating room monitoring with Blood pressure cuff connected to the monitor and recording information in a questionnaire

### 7

#### **Description**

Determining and comparing the incidence of hypotension side effects (systolic blood pressure < 9 ) or a drop of more than 20% of the base rate

#### **Timepoint**

Immediately after the operation in recovery room

#### **Method of measurement**

Monitoring in the recovery room with a blood pressure monitor connected to the monitor and recording information in a questionnaire

## Secondary outcomes

empty

## Intervention groups

### 1

#### **Description**

Intervention group1: In this group, 10 mg of labetalol, from Kern pharma company is injected intravenously and once immediately before induction of general anesthesia to eligible patients.

#### **Category**

Treatment - Drugs

### 2

#### **Description**

Intervention group2: In this group, lidocaine 1.5 mg per kg body weight of the patient, from Caspian tamin company is injected intravenously and once immediately before induction of general anesthesia to eligible patients.

#### **Category**

Treatment - Drugs

## Recruitment centers

### 1

#### **Recruitment center**

##### **Name of recruitment center**

Shahid Sadoughi Hospital

##### **Full name of responsible person**

Dr Shekoufeh Behdad

##### **Street address**

Shahid Sadoughi Hospital, Ebnesina Blv, Safayieh,  
Yazd

**City**

Yazd

**Province**

Yazd

**Postal code**

8916886938

**Phone**

+98 35 3822 3598

**Email**

behdad90@gmail.com

## Sponsors / Funding sources

### 1

**Sponsor**

**Name of organization / entity**

Azad Islamic University Of Yazd

**Full name of responsible person**

Dr Seyed Mohammadreza Mortazavi Zade

**Street address**

Safaieh, Boulevard of the Shohadaie Gomnam

**City**

Yazd

**Province**

Yazd

**Postal code**

8915813135

**Phone**

+98 35 3187 2200

**Fax**

+98 35 3821 5034

**Email**

info@iauyazd.ac.ir

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Azad Islamic University Of Yazd

**Proportion provided by this source**

100

**Public or private sector**

Public

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding**

*empty*

**Country of origin**

**Type of organization providing the funding**

Academic

## Person responsible for general inquiries

**Contact**

**Name of organization / entity**

Yazd University of Medical Sciences

**Full name of responsible person**

Dr. Shekoufeh Behdad

**Position**

Professor, Depatment of anesthesiology

**Latest degree**

Specialist

**Other areas of specialty/work**

Anesthesiology

**Street address**

Shahid Sadoughi Hospital, Ebnesina Blv, Safayieh,  
Yazd

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**Province**

Yazd

**Postal code**

8916886938

**Phone**

+98 35 3822 4000

**Email**

drbehdad@ssu.ac.ir

## Person responsible for scientific inquiries

**Contact**

**Name of organization / entity**

Yazd University of Medical Sciences

**Full name of responsible person**

Dr Shekofeh Behdad

**Position**

Professor , Depatment of Anesthesiology

**Latest degree**

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**Other areas of specialty/work**

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8916886938

**Phone**

+98 35 3822 4000

**Email**

drbehdad@ssu.ac.ir

## Person responsible for updating data

**Contact**

**Name of organization / entity**

Yazd University of Medical Sciences

**Full name of responsible person**

Dr Shekofeh Behdad

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professor, Depatment of anesthesiology

**Latest degree**

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**Postal code**

8916886938

**Phone**

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**Email**

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## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

**Study Protocol**

Undecided - It is not yet known if there will be a plan to make this available

**Statistical Analysis Plan**

Undecided - It is not yet known if there will be a plan to make this available

**Informed Consent Form**

Undecided - It is not yet known if there will be a plan to make this available

**Clinical Study Report**

Undecided - It is not yet known if there will be a plan to make this available

**Analytic Code**

Undecided - It is not yet known if there will be a plan to make this available

**Data Dictionary**

Undecided - It is not yet known if there will be a plan to make this available