

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Efficacy of lidocaine compared with lidocaine plus nitroglycerin in the reducing of propofol pain injection in anesthesia induction

Protocol summary

Summary

The aim of the study is comparing efficacy of the Lidocaine and Lidocaine with Nitroglycerin for reducing Propofol induced pain during induction of anesthesia. In a Clinical trial study Ninety Patients randomly were enrolled to study in three equal groups. Main Inclusion criteria are ASA Class I-II, range of 15-60 years of old and exclusion criteria are Heart block, previous analgesic consumption, psychopathic disorder, kidney and liver disorder. Before induction of anesthesia noninvasive blood presser cuff fastened around vein access arm and inflated to reach 200mmHg, then first group received intravenous Lidocaine 20 mg 2%, second group received Lidocaine 20 mg 2% in addition to Nitroglycerine 0.1mic/kg but third group did not received any drugs before injection of 20 percent of calculated Propofol dose. After one minute cuff deflated and 20 percent of calculated Propofol dose injected. Finally main outcome (pain) induced by Propofol injection recorded according visual analogue scale before overcoming unconsciousness .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201308274005N6**

Registration date: **2014-08-02, 1393/05/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-08-02, 1393/05/11

Registrant information

Name

Khosro Kolahdouzan

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2013-09-11, 1392/06/20

Expected recruitment end date

2014-05-22, 1393/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of lidocaine compared with lidocaine plus nitroglycerin in the reducing of propofol pain injection in anesthesia induction

Public title

pevention of propofol induced pain during anesthesia induction

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: ASA Class I-II; range of 15-60 years of old Exclusion criteria:Heart block; previous analgesic consumption; psychopathic disorder; kidney and liverdisorder

Age

From **15 years** old to **60 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 90

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 Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences, Golgasht street, Azadi avenue

City

Tabriz

Postal code**Approval date**

2013-07-07, 1392/04/16

Ethics committee reference number

9282

2**Ethics committee****Name of ethics committee**

Tabriz University of Medical Science

Street address

Deputy of Research and Technology, third floor, Central Building No 2, Tabriz University of Medical Science, Golgasht street, Tabriz

City

Tabriz

Postal code**Approval date**

2013-07-07, 1392/04/16

Ethics committee reference number

9282

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

Pain due to injection of propofol

ICD-10 code

T88.7

ICD-10 code description

Unspecified adverse effect of drug or medicament

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

Pain

Timepoint

Pain during Propofol injection

Method of measurement

Visual Analogue Scale

Secondary outcomes**1****Description**

Reducing of pain

Timepoint

After injection of lidocaine or lidocaine/nitroglycerine

Method of measurement

visual analogue scale

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

After inflation of blood pressure Cuff, in first group 20 mg Lidocaine before injection of Propofol injected. After one minute 20% of calculated Propofol injected and score of pain was measured

Category

Treatment - Drugs

2**Description**

After inflation of blood pressure Cuff, second group 20mg Lidocaine in addition to 0/1microgram/kg Nitroglycerine injected. After one minute 20% of calculated Propofol injected and score of pain was measured

Category

Treatment - Drugs

3**Description**

One minute after inflation of blood pressure Cuff in third group 20% of calculated Propofol injected and score of pain was measured

Category

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital/Tabriz

Full name of responsible person

Dawood Aghamohammadi

Street address

Tabriz Emam Reza hospital, Golgasht street, Azadi avenue

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 Mohammadreza Rashidi

Street address

Tabriz University of Medical Sciences, Golgasht street, Azadi avenue

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

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Full name of responsible person

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Position

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Other areas of specialty/work

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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