Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Jul 2026

The effect of lidocaine in preventing propofol injection pain in patients who taking general anesthesia with propofol induction- A ranomized clinical trial

Protocol summary

Summary

The goal of this study was the study of alleviating effect of lidocaine on the propofol injection pain. 144 patients who were candidate for general anesthesia with propofol induction enrolled in the study. Patients with positive history of central neurologic, cardiac, renal and hepatic disease were excluded. Patients devoted into 6 groups randomly group 1: received lidocaine 0.1 mg/kg while a tourniquet had been applied 10 cm above the injection site and after 30 seconds tourniquet was released and propofol injected through a vain an the forearm Group 2: the same as group 1 but propofol injected through a vain on the dorsum of the hand. Group3: 0.1 mg/kg lidocaine administered without tourniquet application after 30 seconds propofol injected through a vain on the forearm. Group 4: the same as group 3 but propofol injected through a vain on the dorsum of the hand. Group 5 and 6 were control groupswhen the propofol was injected without pre injection of lidocain through a vain on the forearm and dorsum of the hand respectively. The pain of proposal propofol injection was scored by verbal response scoring system (VRS) for adult patient and Children's Hospital of Eastern Ontario Pain Scale (CHEOPS) for patient under 12 years old.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201208227093N3**
Registration date: **2012-12-25, 1391/10/05**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2012-12-25, 1391/10/05

Registrant information

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North khorasan University of Medical Sciences
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Recruitment status

Recruitment complete

Funding source

North khorasan University Of Medical Science-Student Research Committee

Expected recruitment start date

2012-07-22, 1391/05/01

Expected recruitment end date

2012-12-21, 1391/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of lidocaine in preventing propofol injection pain in patients who taking general anesthesia with propofol induction- A ranomized clinical trial

Public title

The effect of lidocaine in prevention of pain from propofol injection

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion Criteria:ASA Class 1,2;Candidate Of General Anesthesia With Propofol Injection Exclusion Criteria : Epilepsy;Known Cardiovascular Disease; Known Neurological Disease;GCS<15;Sensitivity History;Opioid And Sedative Drug As Premedication

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **144**

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 Comittee Of North Khorasan University Of Medical Sciences

Street address
Deputy Of Research And Technology, Berenji Line, South Shariati,Bojnurd, Iran

City
Bojnurd

Postal code

Approval date
2012-07-22, 1391/05/01

Ethics committee reference number
90366پ

Health conditions studied

1

Description of health condition studied
propofol injection pain

ICD-10 code
Y48.1

ICD-10 code description
Parenteral anaesthetics

Primary outcomes

1

Description
propofol injection pain

Timepoint
DURING DRUG INJECTION

Method of measurement
VERBAL RESPONSE SCALE

Secondary outcomes

empty

Intervention groups

1

Description
Received lidocaine 0.1 mg/kg while a tourniquet had been applied 10 cm above the injection site and after 30 seconds tourniquet was released and propofol injected through a vein an the forearm.

Category
Prevention

2

Description
received lidocaine 0.1 mg/kg while a tourniquet had been applied 10 cm above the injection site and after 30 seconds tourniquet was released and propofol injected through a vein on the dorsum of the hand .

Category
Treatment - Drugs

3

Description
0.1 mg/kg lidocaine administered without tourniquet application after 30 seconds propofol injected through a vein on the forearm.

Category
Treatment - Drugs

4

Description
0.1 mg/kg lidocaine administered without tourniquet application after 30 seconds propofol injected through a vein on the dorsum of the hand.

Category
Prevention

5

Description
propofol injected without pre injection of lidocain through a vein on the forearm.

Category
Other

6

Description
propofol injected without pre injection of lidocain through a vein on the dorsum of the hand.
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Imam Ali Hospital
Full name of responsible person
Dr Sabermoghadam
Street address
Shahriar Street - Imam Ali Hospital
City
Bojnourd

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
North Khorasan University Of Medical Sciences
Full name of responsible person
akaberi arash
Street address
Berenji Line, South Shariati
City
Bojnourd
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
North Khorasan 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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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