Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Effect of Lidocaine volume and concentration on preventing incidence and severity of propofol injection pain

Protocol summary

Summary

Pretreatment with lidocaine can reduce propofol injection pain. The aim of the present study was to assess and compare the efficiency of lidocaine 0.4% and 2% in reducing the incidence and severity of propofol injection pain. The inclusion criteria were 4-8-years-old children, ASA class I and II, and candidates for elective surgery. The exclusion criteria were contraindication to use propofol or lidocaine, patients with thrombophlebitis, and analgesics administration 24 hours prior to the operation. This was a prospective clinical trial on children 4-8 years old candidates for elective surgery in Dr Sheikh Hospital. 100 children's werein this study, they were injected with lidocaine solutions 2% and 4% befor propofol injection. Imئdiately after propofol injection ,patient's pain evaluation based on VSD (verbal descriptor scale) and NRS (Numeric Rating Scale) using patient's verbal reaction and behavior namely fretting.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111208143N1**
Registration date: **2013-10-26, 1392/08/04**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2013-10-26, 1392/08/04

Registrant information

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Recruitment status

Recruitment complete

Funding source
Researchers and Vice Chancellor for Mashhad Uneversity of Medical Sciences

Expected recruitment start date

2012-10-13, 1391/07/22

Expected recruitment end date

2013-04-11, 1392/01/22

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Lidocaine volume and concentration on preventing incidence and severity of propofol injection pain

Public title

Effect of Lidocaine on preventing propofol injection pain

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria : 4-8-years-old childrencandidates for elective surgery; American Society of Anesthesia class I and II exclusion criteria : contraindication to use propofol or lidocaine; patients with thrombophlebitis; analgesics administration 24 hours prior to the operation.

Age

From **4 years** old to **8 years** old

Gender

Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **100**
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
Mashhad University of Medical Sciences
Street address
zakaria bulding, between al shahidi and shahid javan square , fakouri aven.zip code9177899191
City
Mashhad
Postal code
9177899191
Approval date
2012-10-13, 1391/07/22
Ethics committee reference number
910155

Health conditions studied

1

Description of health condition studied
injection pain
ICD-10 code
R52.9
ICD-10 code description
Pain, unspecified

Primary outcomes

1

Description
pain
Timepoint
Immediately
Method of measurement
VSD (verbal descriptor scale) and NRS (Numeric Rating Scale)

Secondary outcomes

empty

Intervention groups

1

Description
Increasing the volume and decreasing drug fixed-dose lidocaine
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Dr sheikh hospital
Full name of responsible person
Dr Alireza Sabzevari
Street address
City
Mashhad

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Mashhad Uneversity of Medical Sciences
Full name of responsible person
Dr Alireza Sabzevari
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Department of Anesthesiology ,Emam Reza Hospital
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Mashhad Uneversity 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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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