Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of pain on propofol injection by propofol diluted with patient blood, propofol mixed with 0.05lidocaine and propofol diluted with normal saline in patients undergoing surgery

Protocol summary

Summary

Propofol is one of the ideal drugs for anesthesia in most patients undergoing surgery. One of its complications is the pain produced at the time of injection. The aim of this study is to comparison of pain on propofol injection by propofol diluted with patient blood, propofol mixed with 0.05 lidocaine and propofol diluted with normal saline in patients undergoing surgery. This study is a randomized double-blind clinical trial, in which 120 patients undergoing elective surgery with ASA class one and two will enrolled. Three groups of patients had injections as follows: In the first group Propofol will diluted with patient blood, in second group, propofol mixed with 0.05 lidocaine, and in third group, propofol diluted with normal saline and will injecte. Venous catheter 14 gauge will used in all cases for injection, then BP, P, and pain intensity will measured by VRS (Verbal Rating Scale) criteria.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201401013912N6**
Registration date: **2015-08-17, 1394/05/26**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-08-17, 1394/05/26

Registrant information

Name

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Name of organization / entity

Sharekord University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Shahrekord University of Medical Sciences

Expected recruitment start date

2014-09-23, 1393/07/01

Expected recruitment end date

2015-09-23, 1394/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of pain on propofol injection by propofol diluted with patient blood, propofol mixed with 0.05lidocaine and propofol diluted with normal saline in patients undergoing surgery

Public title

pain during Propofol injection

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: The patients aged 20 to 60 years who are candidate for elective surgery; ASA class one and two. Exclusion criteria: use of Hypnotic, narcotics or analgesic drugs before surgery; addicted to opioids; alcoholism; hypersensitivity to xylocaine, propofol and eggs; patients with chronic pain syndrome;

Thrombophlebitis; sedated and not being able to communicate verbally.

Age
From **20 years** old to **60 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **120**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Shahrekord University of Medical Sciences

Street address
Shahrekord University of Medical Sciences, Kashani Street

City
Shahrekord

Postal code

Approval date
2014-09-06, 1393/06/15

Ethics committee reference number
1053

Health conditions studied

1

Description of health condition studied
pain of propofol injection

ICD-10 code
Y48.2

ICD-10 code description
Other and unspecified general anaesthetics

Primary outcomes

1

Description
Blood Pressure

Timepoint
Just before, after injection, and after record of pain

Method of measurement
mmhg by sphegmomanometer

2

Description
Pulse

Timepoint
Just before, after injection, and after record of pain

Method of measurement
beat per minute/Radial artery

3

Description
Pain

Timepoint
Just before, and after injection, and after record of pain

Method of measurement
VRS

Secondary outcomes

empty

Intervention groups

1

Description
In the first group Propofol will be diluted with patient blood, and then will be injected.

Category
Treatment - Drugs

2

Description
In second group, propofol mixed with 0.05 lidocaine, and then will be injected.

Category
Treatment - Drugs

3

Description
In third group, propofol diluted with normal saline, and then will be injected.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Kashani Hospital
Full name of responsible person
Kobra Noorian
Street address
Kashani Haspital,Parastar Street.
City
Shahrekord

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Shahrekord University of Medical Sciences
Full name of responsible person
Dr Mohammad Mobasheri
Street address
Vice chancellor for research & technology, Kashani Street.
City
Shahrekord
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Shahrekord 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
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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*