Clinical Trial Protocol
Iranian Registry of Clinical Trials

06 Jul 2026

The Evaluation of Effect of Addition of Different Doses of Verapamil to 1.5% Lidocaine on Sensory and Motor Axillary Block

Protocol summary

Summary

Background and Objectives: Studies showed that Verapamil as a Calcium channel blocker potentiates the analgesic effects of local anesthesia. In this study, we evaluated two doses of Verapamil (5 and 10 mg) in combination with Lidocaine on quality of local axillary blockage in comparison with placebo. Methods: Present study was a double blind randomized controlled clinical trial. Ninety two patients candidate for upper limb orthopedic and plastic surgery with axillary block will enroll the study and divide in three groups randomly. In group A, The patients will receive only Lidocaine 1.5%; in group B, The patients will receive Verapamil 5 mg plus Lidocaine 1.5%; and in group C, The patients will receive Verapamil 10mg plus Lidocaine 1.5%.Time of onset and duration of analgesia, sympathetic, sensory and motor blocks as well as hemodynamic changes will be evaluated in these three groups

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138903094050N1**
Registration date: **2010-06-13, 1389/03/23**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2010-06-13, 1389/03/23

Registrant information

Name

Kambiz Sadegi

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 7798 5238

Email address

fsadegi@put.ac.ir

Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2008-10-22, 1387/08/01

Expected recruitment end date

2009-10-23, 1388/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Evaluation of Effect of Addition of Different Doses of Verapamil to 1.5% Lidocaine on Sensory and Motor Axillary Block

Public title

The Evaluation of Effect of Addition of Different Doses of Verapamil to 1.5% Lidocaine on Sensory and Motor Axillary Block

Purpose

Treatment

Inclusion/Exclusion criteria

INCLUSION CRITERIA: 1) Upper extrimities surgery including: Hand, Wrist & Forearm 2) Age upper than 18 & lower than 45 3) ASA I & II (American Society of Anesthesia 1 & 2) 4) Patient's consent to enter the studyEXCLUSION CRITERIA: 1) Underlying diseases (Hypertension, Diabetes mellitus, Liver diseases, Renal diseases, Coagulopathy) 2) Addiction (opioids & Alcohol) 3)Not consent to enter the study 4) Morbid obesity

(weight more than 115 kg) 5)Allergy to local anesthetic drugs 6) Peripheral neuropathy 7) Local infection at injection site 8) Pregnancy

Age

From **18 years** old to **45 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **92**

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

Iran University of Medical Sciences

Street address

Shahid Hemmat highway

City

Tehran

Postal code

Approval date

2009-09-01, 1388/06/10

Ethics committee reference number

45106

Health conditions studied

1

Description of health condition studied

regional anesthesia

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Evaluation the time of onset & duration of sympathetic block

Timepoint

Interval time: 0,5,10,15,20,30,45,60,75 minutes & every 15 minutes thereafter after blocking

Method of measurement

Sympathetic block: Alcohol test

2

Description

Evaluation the time of onset & duration of sensory & motor block

Timepoint

Interval time: 0,5,10,15,20,30,45,60,75 minutes & every 15 minutes thereafterafter blocking

Method of measurement

Sensory block: Pin prick test/ Motor block: Fingers movement

3

Description

Evaluation the duration & quality of analgesia

Timepoint

Interval time: 0,5,10,15,20,30,45,60,75 minutes & every 15 minutes thereafter after blocking and for analgesia 2,4,6,12 ,24 houres in recovery and thereafter

Method of measurement

Analgesia: VAS score

Secondary outcomes

1

Description

Blood pressure (systolic, disatolic)

Timepoint

Just before & after & 15, 30, 45, 60 minutes after axillary block & at the end of surgery and in recovery

Method of measurement

Non invasive blood pressuer automatic monitoring

2

Description

mean arterial pressure

Timepoint

Just before & after & 15, 30, 45, 60 minutes after axillary block & at the end of surgery and in recovery

Method of measurement

Non invasive blood pressuer automatic monitoring

3

Description

Heart Rate

Timepoint

Just before & after & 15, 30, 45, 60 minutes after axillary block & at the end of surgery and in recovery

Method of measurement

Non invasive blood pressuer & Heart rate automatic monitoring

Intervention groups

1

Description
Group A, The patients will receive only 34cc Lidocaine 1.5%
Category
Treatment - Other

2

Description
Group C, The patients will receive Verapamil 10 mg plus 34cc Lidocaine 1.5%
Category
Treatment - Drugs

3

Description
Group B, The patients will receive Verapamil 5mg plus 34cc lidocaine 1.5%.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Hazrate Fatemeh Hospital
Full name of responsible person
Street address
Seied Jamaledine Asad Abadi St. - Tehran
City
Tehran

2

Recruitment center
Name of recruitment center
Hazrat Rasool Akram Hospital
Full name of responsible person
Street address
Sattar Khan St. - Niaiesh St.- Tehran
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Iran University of Medical Sciences
Full name of responsible person
Street address
Shahid Hemmat highway
City
Tehran

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Iran 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
Hazrat Rasool Akram Hospital
Full name of responsible person
Kambiz Sadegi
Position
Anesthesiology resident
Other areas of specialty/work
Street address
No.144 - BouAli St. - Tehran nou - Tehran
City
Tehran
Postal code
Phone
+98 21 7798 5238
Fax
Email
kamsadegi@yahoo.co.uk; fsadegi@put.ac.ir
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Hazrat Rasool Akram Hospital
Full name of responsible person
Kambiz Sadegi
Position
Anesthesiology resident
Other areas of specialty/work
Street address
No.144 - BouAli St. - Tehran nou - Tehran
City
Tehran
Postal code
Phone
+98 21 7798 5238
Fax
Email
kamsadegi@yahoo.co.uk; fsadegi@put.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity
Hazrat Rasool Akram Hospital

Full name of responsible person
Kambiz Sadegi

Position
Anesthesiology resident

Other areas of specialty/work

Street address
No.144 - BouAli St. - Tehran nou - Tehran

City
Tehran

Postal code

Phone
+98 21 7798 5238

Fax

Email
kamsadegi@yahoo.co.uk

Web page address

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