

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jun 2026

Comparison of the anesthesia induced by local injection of lidocaine with and without morphine in digital nerve block in patients with acute hand injury

Protocol summary

Study aim

The aim of this study is comparison of the influence of lidocaine with and without morphine on digital nerve block.

Design

In this open-labeled controlled clinical trial with the parallel group, one hundred twenty-eight (128) patients will be allocated in one of two groups, with the non-randomized method.

Settings and conduct

Patients referring to Department of Emergency Medicine, Imam Khomeini Hospital, Ahvaz with acute injury (less than 6 hours) of fingers requiring digital nerve block will be allocated in one of two groups based on non-randomization method. The intervention group receives the single dose of subcutaneous injection of lidocaine 1% (2.5 ml) plus morphine (2.5 ml) and control group receives the single dose of subcutaneous injection of lidocaine 2% (5 ml). The success of anesthesia, onset of anesthesia, duration of anesthesia will be measured at 0, 5, 15, 30, 60 minutes after drug administration.

Participants/Inclusion and exclusion criteria

Inclusion criteria: patients 15 to 50 years old with acute injury (less than 6 hours) requiring the digital nerve block. Exclusion criteria: arterial bleeding; infected wounds; the presence of the foreign body at the wound site; multiple trauma and mentally retarded patients.

Intervention groups

The intervention group receives the single dose of subcutaneous injection of lidocaine 1% (2.5 ml) plus morphine (2.5 ml) and control group receives the single dose of subcutaneous injection of lidocaine 2% (5 ml).

Main outcome variables

The success of anesthesia; onset of anesthesia; duration of anesthesia

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170307032933N2**

Registration date: **2018-07-10, 1397/04/19**

Registration timing: **retrospective**

Last update: **2018-07-10, 1397/04/19**

Update count: **0**

Registration date

2018-07-10, 1397/04/19

Registrant information

Name

Pedram Nazari

Name of organization / entity

Ahvaz Jundishapur University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2015-07-23, 1394/05/01

Expected recruitment end date

2016-07-22, 1395/05/01

Actual recruitment start date

2015-07-23, 1394/05/01

Actual recruitment end date

2016-07-22, 1395/05/01

Trial completion date

empty

Scientific title

Comparison of the anesthesia induced by local injection of lidocaine with and without morphine in digital nerve block in patients with acute hand injury

Public title

Effect of lidocaine anesthesia with and without morphine on the digital nerve block

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients 15 to 50 years old candidate for digital nerve block Acute injury (less than 6 hours) of fingers

Exclusion criteria:

Arterial bleeding Infected wounds and foreign body in the wound site Multiple trauma patients Mentally retarded patients

Age

From **15 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **128**

Actual sample size reached: **128**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not 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 Ahvaz Jundishapur University of Medical Sciences

Street address

Ahvaz Jundishapur University of Medical Sciences, Golestan Blvd

City

Ahvaz

Province

Khouzestan

Postal code

15794-61357

Approval date

2014-12-06, 1393/09/15

Ethics committee reference number

ajums.REC.1393.306

Health conditions studied

1

Description of health condition studied

Figure injury

ICD-10 code

S64.4

ICD-10 code description

Injury of digital nerve of other finger

Primary outcomes

1

Description

The success of anesthesia

Timepoint

At 0, 5, 15, 30 and 60 minutes after drug administration

Method of measurement

Clinical observations

2

Description

Onset of anesthesia

Timepoint

At 0, 5, 15, 30 and 60 minutes after drug administration

Method of measurement

Clinical observations

3

Description

Duration of anesthesia

Timepoint

At 0, 5, 15, 30 and 60 minutes after drug administration

Method of measurement

Clinical observations

Secondary outcomes

1

Description

Side effects

Timepoint

At 0, 5, 15, 30 and 60 minutes after drug administration

Method of measurement

Clinical observations

Intervention groups

1

Description

Intervention group: Single dose of subcutaneous injection of lidocaine 1% (2.5 ml) plus morphine (2.5 ml)

Category

Treatment - Drugs

2

Description

Control group: Single dose of subcutaneous injection of lidocaine 2% (5 ml)

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Mofid Hoseinzadeh

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Sponsors / Funding sources

1

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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

Ahvaz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Mofid Hoseinzadeh

Position

Assistant Professor Of Emergency Medicine

Latest degree

Specialist

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available