Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Effects of intravenous infusion of lidocaine on the sedation of patient after percutaneous nephrolithotomy surgery

Protocol summary

Summary

Objective: To assess the effect of intravenous infusion of lidocaine in the comfort of the patient in the recovery room after surgery, PCNL Design: Randomized, double-blind, single-center, phase II clinical trial. Performance: Group of intravenous lidocaine infusion to the patient mg / kg / h 1.5 until the end of the operation received an IV infusion. The control group received lidocaine infusion. Inclusion criteria included: patients ASA1 (without any medical conditions or mental), age between 20 years to 60 years. Exclusion criteria included: age less than 20 years and more than 60 years, ASAII and higher sensitivity to lidocaine, kidney surgery, drug addiction, dependence on various drugs. Interventions: The first group of mg / kg / h 1.5 until the end of the operation received an IV infusion, the second group received lidocaine infusion. The main outcome variables: quality of sedation is intravenous infusion of lidocaine.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017011732017N1**
Registration date: **2017-03-24, 1396/01/04**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-03-24, 1396/01/04

Registrant information

Name

Mahmoud Reza Mohaghegh Dolat Abadi

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Iran University of Medical Sciences

Expected recruitment start date

2017-03-21, 1396/01/01

Expected recruitment end date

2017-05-22, 1396/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of intravenous infusion of lidocaine on the sedation of patient after percutaneous nephrolithotomy surgery

Public title

Effects of intravenous infusion of lidocaine in the sedation of patient in recovery after percutaneous nephrolithotomy surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria included: Patients under percutaneous nephrolithotomy surgery. Exclusion criteria included: Age less than 20 years and more than 60 years; ASAII and higher; sensitivity to lidocaine and kidney surgery.

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: **60**
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
Ethics Committee of Iran University of Medical Sciences
Street address
Fifth floor, Central staff, Iran University of Medical Sciences, Hemmat Highway
City
Tehran
Postal code
Approval date
2015-07-04, 1394/04/13
Ethics committee reference number
IR.IUMS.rec.1394.921117418

Health conditions studied

1

Description of health condition studied
Urinary stone
ICD-10 code
N21.0
ICD-10 code description
Urinary bladder stone

Primary outcomes

1

Description
Quality of sedation
Timepoint
After treatment
Method of measurement
Based on Richmond Scale

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Patients received an lidocaine IV infusion 1.5 mg/kg /h until the end of the operation.
Category
Treatment - Drugs

2

Description
Control group: Patients not received an lidocaine IV infusion.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Hashemi Nejad Hospital
Full name of responsible person
Dr. Mahmudreza Mohaghegh
Street address
Vali nezhad Ave, Hashemi Nejad Hospital
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Iran University of Medical Sciences
Full name of responsible person
Dr Morteza Naserbakht
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Fifth floor, Central staff, Iran University of Medical Sciences, Hemmat Highway
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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
Vice chancellor for research, 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
Iran University of Medical Sciences
Full name of responsible person
Dr. Mahmudreza Mohaghegh
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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