

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Comparison of the effect of intra-venous propofol versus ketorolac for creating analgesia in patient with renal colic

Protocol summary

Study aim

Comparison of the effect of propofol and ketorolac effect in renal colic

Design

Two arm parallel group randomised trial with blinded postoperative care and outcome assessment

Settings and conduct

A Comparative Study on Effect of Ketorolac and Propofol in Improvement of Patients with Renal Colic in Emergency Department of Ayatollah Mousavi Hospital in Zanjan

Participants/Inclusion and exclusion criteria

Inclusion criteria: All patients aged 18 to 65 suspected of acute renal colic referring to the emergency department of Ayatollah Mousavi Hospital in Zanjan, whose condition was confirmed by one of the methods of KUB, CT-Scan, IVP and ultrasound; Consent to participate in the scheme. Exclusion criteria: Dissatisfaction with the patient to participate in the study Age younger than 18 years old; age more than 65 years History of hypersensitivity to pofolum or ketorolac; History of allergy to eggs and soy; Pregnancy or doubt about it; Breastfeeding; History of receiving a home remedy in the last 4 hours; Heart failure; liver and kidney; Patients have a change in consciousness; Patients with mental disorder Drug addiction; Cancellation of the patient's participation in the study;

Intervention groups

Intervention group: Patients Receiving intravenous propofol with 0.8-mg/kg Control group: Patients receiving Ketorolac

Main outcome variables

Determine the analgesic effect of propofol in patients with renal colic

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180124038488N1**

Registration date: **2020-02-22, 1398/12/03**

Registration timing: **retrospective**

Last update: **2020-02-22, 1398/12/03**

Update count: **0**

Registration date

2020-02-22, 1398/12/03

Registrant information

Name

Farshad Deilami

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 24 3347 0753

Email address

farshaddaylami@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-02-19, 1396/11/30

Expected recruitment end date

2019-09-22, 1398/06/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of intra-venous propofol versus ketorolac for creating analgesia in patient with renal colic

Public title

Comparison effect of intra-venous propofol versus ketorolac for creating analgesia in patient with renal colic

IR.ZUMS.REC.1398.070

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

age between 18 to 65 y/o agreement to participate

Exclusion criteria:

pregnancy allergy to propofol or egg addiction

Unwillingness to participate in the study

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: **150**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be divided into the two group by table of random numbers.

Blinding (investigator's opinion)

Double blinded

Blinding description

Participant and researcher are blinded to the prescribed prescription

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of zanjan University of Medical Sciences

Street address

gavazang

City

zanjan

Province

Zanjan

Postal code

0

Approval date

2019-06-11, 1398/03/21

Ethics committee reference number

Health conditions studied

1

Description of health condition studied

Urolithiasis

ICD-10 code

N20

ICD-10 code description

Calculus of kidney and ureter

Primary outcomes

1

Description

Pain score in Visual Analogue Scale

Timepoint

BEFORE INJECTION AND 30 , 60 AFTER INJECTION

Method of measurement

Visual Analogue Scale

Secondary outcomes

1

Description

vital sign

Timepoint

each 15 min until one hour

Method of measurement

Visual Analogue Scale

Intervention groups

1

Description

Patient group receiving Propofol

Category

Treatment - Drugs

2

Description

Control group:patients receiving Ketorolac

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Mousavi hospital

Full name of responsible person

Dr farshad deilami

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Gavazang, School of Medicine Zanjan University of
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Zanjan University of Medical Sciences

Full name of responsible person

DR ALIREZA SHOGLI

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shoghli@zums.ac.ir

Grant name

Grant code / Reference number

**Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

Zanjan 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

Zanjan University of Medical Sciences

Full name of responsible person

Farshad Deilami

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Emergency Medicine

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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