

# 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

##### Street address

Gavazang, School of Medicine Zanjan University of  
Medical Sciences Zanjan

**City**

Zanjan

**Province**

Zanjan

**Postal code**

43333

**Phone**

+98 24 3400 0000

**Email**

Farshaddaylami@gmail.com

## Sponsors / Funding sources

### 1

**Sponsor**

**Name of organization / entity**

Zanjan University of Medical Sciences

**Full name of responsible person**

DR ALIREZA SHOGHLI

**Street address**

AZADI BLV, School of Medicine Zanjan University of  
Medical Sciences

**City**

ZANJAN

**Province**

Zanjan

**Postal code**

45154

**Phone**

+98 24 3342 0677

**Email**

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

**Street address**

No 350, third east ave, ghods, zanjan

**City**

Zanjan

**Province**

Zanjan

**Postal code**

475847564

**Phone**

+98 24 3347 0753

**Fax**

**Email**

Farshaddaylami@gmail.com

## Person responsible for scientific 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**

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Farshaddaylami@gmail.com

## Person responsible for updating data

**Contact**

**Name of organization / entity**

Zanjan University of Medical Sciences

**Full name of responsible person**

farshad deilami

**Position**

Emergency medicine Resident

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Emergency Medicine

**Street address**

qods

**City**

Zanjan

**Province**

Zanjan

**Postal code**

4733130000

**Phone**

+98 24 3313 0000

**Email**

farshaddaylami@gmail.com

**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