

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

11 Jun 2026

### Survey Efficacy of Intravenous Ibuprofen Compared to Intravenous Ketorolac for Pain Control in Patient with renal colic pain

#### Protocol summary

##### Study aim

Efficacy of Intravenous Ibuprofen Compared to Intravenous Ketorolac for Pain Control in renal colic patients.

##### Design

In this study, all patients who have the criteria for entering the study. First, their pain levels are measured by the VAS index. After the injection of the drug for 20 minutes, the patient's pain again is record. All data such as demographic information such as age, sex, and clinical information such as renal colic history, post-injection drug complications are collected using a pre-designed questionnaire, and then analyzed by the spss21 program..

##### Settings and conduct

The location of the educational hospitals of Iran University of Medical Sciences and patients and analysts are blind to prescription drugs.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: age between 18 to 80 Inadequate IV access. History of allergy or hypersensitivity to any component of ibuprofen, ketorolac, Less than 18 years of age or over 80years Use of analgesics less than 8 hours prior to admission in ED. Pregnant. Recent history of chronic opioid use.

##### Intervention groups

consist of Ibuprofen group that Compared to Intravenous Ketorolac for Pain Control in renal colic patients.

##### Main outcome variables

How is Efficacy of Intravenous Ibuprofen Compared to Intravenous Ketorolac for Pain Control in renal colic patients?

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20180108038276N1**

Registration date: **2018-02-22, 1396/12/03**

Registration timing: **registered\_while\_recruiting**

Last update: **2018-02-22, 1396/12/03**

Update count: **0**

##### Registration date

2018-02-22, 1396/12/03

##### Registrant information

###### Name

amir noyani

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 13 3336 2186

###### Email address

a.noyani@shmu.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2017-12-22, 1396/10/01

##### Expected recruitment end date

2018-07-23, 1397/05/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Survey Efficacy of Intravenous Ibuprofen Compared to Intravenous Ketorolac for Pain Control in Patient with renal colic pain

##### Public title

Efficacy of Pain Relief of Ketorolac Compared to

Ibuprofen  
**Purpose**  
Treatment  
**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
Over 18 years old and under 80 year s old Renal colic pain  
**Exclusion criteria:**  
Sensitivity to drug No IV access Pregnant woman Opium user Analgestic drug use  
**Age**  
From **18 years** old to **80 years** old  
**Gender**  
Both  
**Phase**  
N/A

**Groups that have been masked**

- Participant
- Data analyser

**Sample size**

Target sample size: **70**  
More than 1 sample in each individual  
Number of samples in each individual: **35**  
The population of each group is 35, 35 of whom are in the therapeutic group of intravenous ketorolac and 35 are Intraintravenous Ibuprophen

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Patients are divided into two groups based on the number of paired cases and the case file

**Blinding (investigator's opinion)**

Double blinded

**Blinding description**

Both the patients and data analyst blind to type of drug and data analyst take data as group A and B

**Placebo**

Not 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**

Hemmat

**City**

Tehran

**Province**

Tehran

**Postal code**

354-14665

**Approval date**

2017-11-14, 1396/08/23

**Ethics committee reference number**

IR.IUMS.FMDREC1396.9411307007

**Health conditions studied**

**1**

**Description of health condition studied**

RENAL COLIC

**ICD-10 code**

N22

**ICD-10 code description**

Calculus of urinary tract in diseases classified elsewhere

**Primary outcomes**

**1**

**Description**

Renal colic pain score

**Timepoint**

At first and after 20 minutes of injection

**Method of measurement**

VAS score

**Secondary outcomes**

empty

**Intervention groups**

**1**

**Description**

Intervention group: In this group, patients undergoing injection of intravenous Ibuprophen with a single dose of 75mgr

**Category**

Treatment - Drugs

**2**

**Description**

Control group: In this group, patients undergoing injection of intravenous Ketorolac with a single dose of 40mgr

**Category**

Treatment - Drugs

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Hazrat Rasool Hospital

**Full name of responsible person**

Seyyed Ahmad Borghey

**Street address**

Sattarkhan

**City**

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**Province**

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**Postal code**

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**Phone**

+98 21 6651 6001

**Email**

a.noyani@shmu.ac.ir

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Emergency Medicine

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**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Iran University of Medical Sciences

**Full name of responsible person**

Hasan Shaker

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**Email**

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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**

Iran University of Medical Sciences

**Proportion provided by this source**

20

**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**

Iran University of Medical Sciences

**Full name of responsible person**

Seyyed Ahmad Borghey

**Position**

Resident of Emergency Medicine

**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Iran University of Medical Sciences

**Full name of responsible person**

Ahmad borgheey

**Position**

Resident of Emergency Medicine

**Latest degree**

Medical doctor

**Other areas of specialty/work**

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**Person responsible for updating data****Contact****Name of organization / entity**

Shahroud University of Medical Sciences

**Full name of responsible person**

Amir Noyani

**Position**

Assistant Professor

**Latest degree**

Specialist

**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