

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 Ibubrphem goup 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

Tehran

Province

Tehran

Postal code

354-14665

Phone

+98 21 6651 6001

Email

a.noyani@shmu.ac.ir

Latest degree

Medical doctor

Other areas of specialty/work

Emergency Medicine

Street address

Sattarkhan

City

Tehran

Province

Tehran

Postal code

354-14665

Phone

+98 21 6651 6000

Email

a.noyani@shmu.ac.ir

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

Iran University of Medical Sciences

Full name of responsible person

Hasan Shaker

Street address

Sattarkhan

City

Tehran

Province

Tehran

Postal code

354-14665

Phone

+98 21 6651 6000

Email

a.noyani@shmu.ac.ir

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

Emergency Medicine

Street address

Tehran

City

Tehran

Province

Tehran

Postal code

354-14665

Phone

+98 216656001

Email

a.noyani@shmu.ac.ir

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

Street address

Emam Hosein

City

Shahrood

Province

Tehran

Postal code

354-14665

Phone

+98 23 3234 2000

Email

a.noyani@shmu.ac.ir

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