

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Intravenous Acetaminophen versus Morphine Sulfate in Pain Management of Acute Renal Colic; a Randomized Clinical Trial

Protocol summary

Summary

The main purpose in the treatment of renal colic patients in emergency department is pain management. This study aimed to compare the analgesic effect of intravenous (IV) acetaminophen and morphine sulfate in this regard. This double blind clinical trial was renal colic patients in need of pain management in emergency department. The pain severity before and 15, 30, 60, and 120 minutes after injection as well as side effects were compared between IV acetaminophen and morphine sulfate groups using SPSS 16. In this study, doctors and patients were not aware of the type of medication used.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017080835565N1**

Registration date: **2017-08-14, 1396/05/23**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-08-14, 1396/05/23

Registrant information

Name

hossein montazer

Name of organization / entity

Mazandaran university of medical sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 3448 4859

Email address

hmontazer@mazums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Mazandaran University of Medical Sciences

Expected recruitment start date

2015-04-04, 1394/01/15

Expected recruitment end date

2016-03-05, 1394/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Intravenous Acetaminophen versus Morphine Sulfate in Pain Management of Acute Renal Colic; a Randomized Clinical Trial

Public title

Intravenous Acetaminophen versus Morphine Sulfate in Pain Management of Acute Renal Colic; a Randomized Clinical Trial

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patient with renal colic , age between 18 -55 years old Exclusion criteria: allergy to morphine and paracetamol , fever , pregnant , history of addiction , instability of vital signs , liver function disease , renal function disease , renal transplant

Age

From **18 years** old to **55 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 355

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Available sampling

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Mazandaran University of Medical Sciences

Street address

Mazandaran University of Medical Sciences, Jooybar treeway, Imam Square

City

Sari

Postal code

4815724971

Approval date

2015-02-28, 1393/12/09

Ethics committee reference number

13/12/1393

Health conditions studied

1

Description of health condition studied

renal colic

ICD-10 code

N23

ICD-10 code description

Unspecified renal colic

Primary outcomes

1

Description

analgesia after drug infusion

Timepoint

0,15,30,60,120 after intervention

Method of measurement

visual analog scale device

Secondary outcomes

1

Description

vertigo,vomiting

Timepoint

0,15,30,60,120 after intervention

Method of measurement

Observation

Intervention groups

1

Description

intervention group: 1gr of IV acetaminophen manufactured by Exir Company, Iran in 100 ml of normal saline and duration of infusion is15 minutes control group:0.1mg/kg intravenous (IV) morphine, manufactured by Darou Paksh Company, Iran, in 100ml of normal saline and duration of infusion is15 minutes

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Khomeni Hospital

Full name of responsible person

hossein montazer

Street address

Amir mazandarani Bolivard

City

Sari

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for researche, Mazandaran University of Medical Siences

Full name of responsible person

Ahmadali Enayati

Street address

Vice chancellor for researche, Mazandaran University of Medical Siences, Moallem Square

City

Sari

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for researche, Mazandaran 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
Mazandaran University of Medical Sciences
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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