

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

The Comparison of Clinical Efficacy of Intravenous Morphine with Acetaminophen in Renal Colic

Protocol summary

Summary

Study objective: To compare the clinical effectiveness of intravenous morphine and acetaminophen on renal colic in Golestan Hospital, Ahwaz, Iran. Design of study: randomized, double blind, non-placebo controlled, single center trial. Inclusion criteria: patients 18-55 years old; known case of kidney stone. Exclusion criteria: any drug allergy to morphine and acetaminophen; hemodynamic instability; fever more than 38°C; any evidence of peritoneal inflammation; pregnancy or suspected pregnancy; aortic aneurysm or proven or suspected Dissection. Sample size: 108. Intervention: 1 gram of intravenous acetaminophen in the intervention group vs. injection of 1mg/kg of morphine in control group. The effect of two drugs is evaluated based on pain intensity VAS system in minutes 0, 15, 30, 45 and 60.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202279150N1**

Registration date: **2012-03-21, 1391/01/02**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2012-03-21, 1391/01/02

Registrant information

Name

Mohammad Manouchehri Far

Name of organization / entity

Ahvaz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 1374 3079

Email address

manouchehrifar-m@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Ahwaz Jundishapur university of medical sciences

Expected recruitment start date

2012-04-20, 1391/02/01

Expected recruitment end date

2012-10-22, 1391/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Comparison of Clinical Efficacy of Intravenous Morphine with Acetaminophen in Renal Colic

Public title

Acetaminophen compared with morphine in renal colic

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients 18-55 years old; known case of kidney stone. Exclusion criteria: Any drug sensitivity to morphine and Acetaminophen; hemodynamic instability; fever more than 38°C; any evidence of peritoneal inflammation; pregnancy or suspected pregnancy; aortic aneurysm or proven or suspected Dissection; the use of any drug for pain up to 6 hours prior to the emergency room; patients with heart failure, kidney and lung disease; patients with liver failure and kidney transplant patients and patients with drug addiction.

Age

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

Gender

Both

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **108**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ahwaz Jundishapur university of medical sciences

Street address
Ahwaz Jundishapur university of medical sciences

City
Ahwaz

Postal code

Approval date
2012-01-09, 1390/10/19

Ethics committee reference number
ETH-368

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
pain

Timepoint
minutes 0, 15, 30, 45 and 60.

Method of measurement
visual analog scale

Secondary outcomes

empty

Intervention groups

1

Description
Intervention 1 : intravenous of 1 g of acetaminophen in 100 cc of saline

Category
Treatment - Drugs

2

Description
Intervention 2 : 0.1 mg/kg of morphine

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Golestan hospital

Full name of responsible person

Street address

City
Ahwaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Ahwaz Jundishapur university of medical sciences

Full name of responsible person
Mohammad Alavi M.D.

Street address
Ahwaz Jundishapur university of medical sciences

City
Ahwaz

Grant name

Grant code / Reference number

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

Title of funding source
Ahwaz Jundishapur 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

Ahvaz University of Medical Sciences

Full name of responsible person

Dr. Ali Khavanin

Position

Resident of Emergency Medicine

Other areas of specialty/work

Street address

No. 76, West Esfand, Kianpars

City

Ahwaz

Postal code

Phone

+98 61 1374 3079

Fax

+98 61 1374 3079

Email

akhavanin@gmail.com

Web page address

Phone

+98 61 1374 3079

Fax

Email

manouchehrifar-m@ajums.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Manouchehri Far

Position

Specialist in emergency medicine

Other areas of specialty/work

Street address

Office of Emergency Medicine, Golestan Hospital

City

Ahwaz

Postal code

Phone

Fax

Email

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Manouchehri Far

Position

Specialist in emergency medicine

Other areas of specialty/work

Street address

Office of Emergency Medicine, Golestan Hospital

City

Ahwaz

Postal code

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