

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jun 2026

Comparison of pain relief between aminophylline and hyoscine with morphine in patients with renal colic.

Protocol summary

Study aim

Comparison of the effect of aminophylline and hyoscine with morphine on the reduction of renal colic pain caused by urinary stones.

Design

This randomized, double blind trial was conducted with two parallel intervention groups on 128 patients with renal colic pain in 1397. Patients were divided into two groups by throwing coins..

Settings and conduct

This double blind randomized trial was conducted to compare pain relief in patients with renal colic in the two groups of aminophylline-hyoscine and morphine in the Peymreani Hospital of Jahrom. In this study, the systolic, diastolic and mean arterial blood pressure of the patient, along with the pain intensity of the patient before and after injection of drugs and after injection, were measured. The participant in the study, and the person collecting the information and the investigator, were unaware.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients with renal colic pain who were between 18 and 55 years of age. Exclusion criteria: Pregnancy; addiction; history of high blood pressure; kidney surgery; Get pain medication before intervention.

Intervention groups

In intervention group one, we injected a 20 mg muscle hyosmoon with aminophylline at a dose of 250 mg / 10 ml in normal saline, and in the second intervention group we injected 0.1 mg / kg of morphine intravenously.

Main outcome variables

Intensity of pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180805040712N1**

Registration date: **2019-03-04, 1397/12/13**

Registration timing: **retrospective**

Last update: **2019-03-04, 1397/12/13**

Update count: **0**

Registration date

2019-03-04, 1397/12/13

Registrant information

Name

Mohammad safaei saruei

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3620 9889

Email address

m.safaie@jums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-04-07, 1397/01/18

Expected recruitment end date

2018-04-14, 1397/01/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of pain relief between aminophylline and hyoscine with morphine in patients with renal colic.

Public title

Comparison of pain relief between aminophylline and hyoscine with morphine in renal colic.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients with renal colic pain caused by urinary stones
People between 18 and 55 years old

Exclusion criteria:

Pregnancy
Addiction
History of high blood pressure
The history of kidney surgery
Get pain medication before intervention

Age

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

Gender

Both

Phase

2-3

Groups that have been masked

- Participant
- Investigator
- Outcome assessor

Sample size

Target sample size: **128**

Actual sample size reached: **128**

Randomization (investigator's opinion)

Randomized

Randomization description

In this study, patients were divided into two groups by throwing coins. The first group received 20 mg muscle hyoscine plus 3 to 6 mg / kg of aminophylline in normal saline. The second group received 0.1 mg / kg of morphine intravenously.

Blinding (investigator's opinion)

Double blinded

Blinding description

In the present study, the patients in the study, the researcher and the person collecting data about who were in the group were unaware.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Jahrom University of Medical Science

Street address

Pardis Building, Motahari Blvd. ,Jahrom

City

Jahrom

Province

Fars

Postal code

74148-46199

Approval date

2017-09-19, 1396/06/28

Ethics committee reference number

IR.JUMS.REC.1396.054

Health conditions studied

1

Description of health condition studied

Renal colic pain caused by urinary stones.

ICD-10 code

N20.9

ICD-10 code description

Urinary calculus, unspecified

Primary outcomes

1

Description

Intensity of pain

Timepoint

Before the intervention and 5, 10, 15 and 30 minutes after the administration of the medication

Method of measurement

Visual Analogue Scale

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: received 20mg muscle hyoscine with aminophylline at a dose of 250mg / 10ml in normal saline.

Category

Treatment - Drugs

2

Description

Intervention group2: Morphine was given as an intravenous dose of 0.1mg / kg.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Peymaniye hospital

Full name of responsible person

Mohammad Safaei Sarouei

Street address

Peymaniye Hostpital,Valiye Asr St, Jahrom City, Fars Province

City

Jahrom

Province

Fars

Postal code

74148-46199

Phone

+98 71 5434 0409

Email

m.safaie@jums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Jahrom University of Medical Sciences

Full name of responsible person

Kavoos solhjoo

Street address

Pardis Building, Motahari Blvd. ,Jahrom

City

Jahrom

Province

Fars

Postal code

74148-46199

Phone

+98 71 5434 0409

Email

m.safaie@jums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Jahrom 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

Jahrom University of Medical Sciences

Full name of responsible person

Mohammad Safaei Sarouei

Position

student

Latest degree

A Level or less

Other areas of specialty/work

Urology

Street address

Pardis Building, Motahari Blvd. ,Jahrom

City

Jahrom

Province

Fars

Postal code

74148-46199

Phone

+98 71 5434 0409

Email

m.safaie@jums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Jahrom University of Medical Sciences

Full name of responsible person

Esmale rayat dust

Position

Emergency Medicine Specialist

Latest degree

Specialist

Other areas of specialty/work

Urology

Street address

Pardis Building, Motahari Blvd. ,Jahrom

City

Jahrom

Province

Fars

Postal code

74148-46199

Phone

+98 71 5423 0085

Fax

Email

m.safaie@jums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Jahrom University of Medical Sciences

Full name of responsible person

Mohammad Safaei saruei

Position

Student

Latest degree

A Level or less

Other areas of specialty/work

Urology

Street address

Pardis Building, Motahari Blvd. ,Jahrom

City

Jahrom

Province

Fars

Postal code

74148-46199

Phone

+98 71 3620 9889

Fax**Email**

m.safaie@jums.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