

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of intravenous acetaminophen in comparison with pethidine for pain relief in renal colic

#### Protocol summary

##### Summary

Renal colic or acute flank pain is caused by the passage of urinary tract stones. The most important task in emergency room is to control this pain. Therefore, the aim of this study is to investigate the effect of intravenous acetaminophen to control pain in comparison with pethidine in patients with renal colic who had been referred to the emergency department. This study in a randomized clinical trial and single blind in which a sample of 100 patients with colic pain, aged between 18 to 60 years were used. Patients were randomly divided into two control and interventions groups. The control group was received pethidine and the intervention group is infused with acetaminophen. After the injection pain was assessed using visual analogue scale immediately after intervention, and 5, 10, 20 and 30 minutes following intervention. t-test and chi-square were used for analysis.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2016090429690N1**  
Registration date: **2016-10-14, 1395/07/23**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2016-10-14, 1395/07/23

##### Registrant information

###### Name

Mehdi Dashti

###### Name of organization / entity

Ardabil university Medical of Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 45 3344 5861

###### Email address

m.dashti@arums.ac.ir

###### Recruitment status

**Recruitment complete**

###### Funding source

Ardabil university of Medical Sciences

###### Expected recruitment start date

2016-08-22, 1395/06/01

###### Expected recruitment end date

2016-09-22, 1395/07/01

###### Actual recruitment start date

empty

###### Actual recruitment end date

empty

###### Trial completion date

empty

###### Scientific title

The effect of intravenous acetaminophen in comparison with pethidine for pain relief in renal colic

###### Public title

Comparison of intravenous acetaminophen and pethidine in pain renal colic

###### Purpose

Treatment

###### Inclusion/Exclusion criteria

Inclusion criteria: age between 18 to 60 years old; pain score less than 8. Exclusion criteria: pregnant women; breast feeding; have used painkillers in 6 hours before; renal dysfunction; warfarin therapy; using opioids; bleeding disorders; people who are addicted to drugs.

###### Age

From **18 years** old to **60 years** old

###### Gender

Both

**Phase**  
N/A

**Groups that have been masked**  
*No information*

**Sample size**  
Target sample size: **100**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**

**Blinding (investigator's opinion)**  
Single blinded

**Blinding description**

**Placebo**  
Not used

**Assignment**  
Parallel

**Other design features**

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics committee of Ardabil University of Medical Sciences

##### Street address

End of University Avenue. Headquarters of Ardsbil University of medical sciences

##### City

Ardabil

##### Postal code

##### Approval date

2016-04-08, 1395/01/20

##### Ethics committee reference number

IR.ARUMS.REC.1395.46

## Health conditions studied

### 1

#### Description of health condition studied

Renal Colic

#### ICD-10 code

N20.0

#### ICD-10 code description

Calculus of kidney and ureter

## Primary outcomes

### 1

#### Description

Pain

#### Timepoint

Before intervention, 5, 10, 20 and 30 minuts after intervention

#### Method of measurement

Visual Analogous Scale (VAS)

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group : intravenous acetaminophen dose intravenous injections of acetaminophen 1 g in 100 ml of sodium chloride solution and the mixture was injected.

#### Category

Treatment - Drugs

### 2

#### Description

contorl group: 50 mg of pethedine intramuscularly was used.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Ardabil Fatemi Hospital

##### Full name of responsible person

Jafar Ghobadi

##### Street address

Fatemi hospital

##### City

Ardabil

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice chancellor for research, Ardabil University of Medical Sciences

##### Full name of responsible person

Shahram Habibzadeh

##### Street address

Deputy of research and technology . the headquarters of the Medical university of Ardabil .End of University Avenue . Ardabil

##### City

Ardabil

##### Grant name

##### Grant code / Reference number

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

Yes

##### Title of funding source

Vice chancellor for research, Ardabil 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**

Ardabil University of Medical Sciences

**Full name of responsible person**

Jafar Ghobadi

**Position**

Faculty member

**Other areas of specialty/work**

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**Name of organization / entity**

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**Full name of responsible person**

Jafar Ghobadi

**Position**

Emergency Medicine Specialist

**Other areas of specialty/work**

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Ardabil University of Medical Sciences

**Full name of responsible person**

Mehdi Dashti

**Position**

General Practitioner

**Other areas of specialty/work**

**Street address**

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Rizwan town , Ardabil

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Ardabil

**Postal code**

**Phone**

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**Email**

m.dashti@arums.ac.ir

**Web page address**

**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*