

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

04 Jun 2026

### Effectiveness of intravenous Lidocaine versus Morphine for patient with Renal Colic in the Emergency Department in Imam REZA Hospital ,Tabriz University of Medical Sciences

#### Protocol summary

##### Summary

A prospective double blind randomized clinical trial was performed in Imam Reza teaching hospital in Tabriz-Iran. Two hundred forty patients presenting to ED with renal colic (age= 18-65 years old) were enrolled in two equal groups (I,II). In group I, we used parenteral lidocaine (approximately 1.5 mg/kg) slowly and in group II, we used morphine (approximately 0.1 mg/kg) slowly. Our exclusion criteria were lidocaine or morphine sensitivity, renal failure, ischemic heart disease, abnormal ECG, Liver insufficiency and pregnancy. Pain explained by patients, based on VAS (Visual Analogue Scale) was recorded at the time of entrance to Emergency medicine Department, and in 5, 10, 15 and 30 minutes after injection.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138901042496N3**

Registration date: **2010-03-24, 1389/01/04**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2010-03-24, 1389/01/04

##### Registrant information

###### Name

Hassan Soleimanpour

###### Name of organization / entity

Tabriz University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 41 1329 1286

###### Email address

soleimanpourh@tbzmed.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Research Vice chancellor of Tabriz University of Medical Sciences

##### Expected recruitment start date

2009-09-23, 1388/07/01

##### Expected recruitment end date

2010-07-23, 1389/05/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effectiveness of intravenous Lidocaine versus Morphine for patient with Renal Colic in the Emergency Department in Imam REZA Hospital ,Tabriz University of Medical Sciences

##### Public title

Effectiveness of intravenous Lidocaine versus Morphine for patient with Renal Colic in the Emergency Department in Imam REZA Hospital ,Tabriz University of Medical Sciences

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: patients with renal colic (age= 18-65 years old) Exclusion criteria: Lidocaine or morphine sensitivity, renal failure, ischemic heart disease, abnormal ECG, Liver insufficiency, pregnancy.

##### Age

From **18 years** old to **65 years** old

**Gender**

Both

**Phase**

2

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **240**

**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**

Research Vice chancellor of Tabriz University of Medical Sciences

**Street address**

Research Vice chancellor of Tabriz University of Medical Sciences ,Tabriz University of Medical Sciences, Daneshgah Street, Tabriz-51664, I.R IRAN

**City**

Tabriz

**Postal code**

51664

**Approval date**

2009-12-01, 1388/09/10

**Ethics committee reference number**

8712

**Health conditions studied**

1

**Description of health condition studied**

Renal Colic

**ICD-10 code**

N20.0

**ICD-10 code description**

Stone in kidney

**Primary outcomes**

1

**Description**

Pain

**Timepoint**

On arrival to Emergency room and at 5, 10,15, and 30th minutes following intervention

**Method of measurement**

Visual Analogue Scale

**Secondary outcomes**

empty

**Intervention groups**

1

**Description**

Intravenous lidocaine

**Category**

Treatment - Drugs

2

**Description**

Intravenous morphine

**Category**

Treatment - Drugs

**Recruitment centers**

1

**Recruitment center**

**Name of recruitment center**

Imam reza hospital

**Full name of responsible person**

Dr.Hassan Soleimanpour

**Street address**

Emergency Medicine Department, Tabriz University of Medical Sciences, Daneshgah Street, Tabriz-51664, I.R IRAN.

**City**

Tabriz

**Sponsors / Funding sources**

1

**Sponsor**

**Name of organization / entity**

Research Vice chancellor of Tabriz University of Medical Sciences

**Full name of responsible person**

Dr. Mir Ali Eteraf Oskouei

**Street address**

Research Vice chancellor of Tabriz University of Medical Sciences ,Tabriz University of Medical Sciences, Daneshgah Street, Tabriz-51664, I.R IRAN.

**City**

Tabriz

**Grant name**  
**Grant code / Reference number**  
**Is the source of funding the same sponsor organization/entity?**  
Yes  
**Title of funding source**  
Research Vice chancellor of Tabriz 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**

Tabriz University of Medical Sciences

**Full name of responsible person**

Hassan Soleimanpour

**Position**

Anesthesiologist/Assistant professor of Anesthesiology, MD

**Other areas of specialty/work**

**Street address**

Emergency Medicine Department, Tabriz University of Medical Sciences, Daneshgah Street, Tabriz-51664, I.R IRAN.

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## Person responsible for scientific inquiries

### Contact

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**Full name of responsible person**

Hassan Soleimanpour

**Position**

Anesthesiologist/Assistant professor of Anesthesiology, MD

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## Person responsible for updating data

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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*