

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Sep 2026

The effect of Tamsulosin, an alpha-1 receptor antagonist in ureteroscopic lithotripsy (URSL) success rate

Protocol summary

Summary

Our aim in this study was the assessing of Tamsulosin efficacy as an α -1A-specific Blocker in improving the success rate in ureteroscopic lithotripsy for lower ureteral stones. we included 102 patients with lower uerter single opaque stone in 5-10 milimeters sizes. All patients with multiple, mid or upper ueter stones excluded from study. The patients were randomly divided into 2 groups: study (52 patients) received tamsulosin with our traditional treatment (hydration and analgesic when required), while control (50 patients) received placebo with traditional treatment,all of patients underwent urteroscopic lithotripsy by one urologist. The number of colic episodes, lower urinary tract symptoms, analgesic dosage, and days for spontaneous passage of the stones through the ureter were recorded after lithotripsy by diary. The results of this study showed that administration of α -1A-specific blockers will reduce analgesic dosage and colic episodes and rate of adverse effects after ureteroscopic lithotripsy of lower ureteral stones and decrease gravel expulsion time after ureteroscopic lithotripsy.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201212261981N2**

Registration date: **2013-03-13, 1391/12/23**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-03-13, 1391/12/23

Registrant information

Name

Ali Asghar Ketabchi

Name of organization / entity

Kerman University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Physiology Research Center ,Kerman University of Medical Science

Expected recruitment start date

2008-06-01, 1387/03/12

Expected recruitment end date

2010-12-01, 1389/09/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Tamsulosin, an alpha-1 receptor antagonist in ureteroscopic lithotripsy (URSL) success rate

Public title

The effect of Tamsulosin in facilitation of gravel expulsion after ureteroscopic lithotripsy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:lower ureter stone ; single stone ; radio opaque stone ; 5-10 mm diameter stone Exclusion criteria: urinary tract infections;high-grade hydronephrosis; diabetes;hypersensitivity to α -blockers; ureteral stricture;pregnant women

Age
From **17 years** old to **36 years** old
Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **102**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kerman University of Medical Science Research
Center

Street address

Kerman University of Medical Science

City

Kerman

Postal code

Approval date

2013-01-06, 1391/10/17

Ethics committee reference number

Ka/91/285

Health conditions studied

1

Description of health condition studied

Distal ureter stones

ICD-10 code

N20-N23

ICD-10 code description

Urolithiasis

Primary outcomes

1

Description

success rate of ureteroscopic lithotripsy(stone

clearance)

Timepoint

2 weeks

Method of measurement

imaging methods

Secondary outcomes

1

Description

complications

Timepoint

from start of procedure until 2 weeks

Method of measurement

by questinerie and imaging

Intervention groups

1

Description

In control group one 0.4 mg placebo capsule daily (like
tamsulosin) orally for 2 weeks

Category

Treatment - Drugs

2

Description

In study group one 0.4 mg tamsulosin capsule daily
orally for 2 weeks

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shafa Hospital (urology department)

Full name of responsible person

Dr.Ali Asghar Ketabchi

Street address

Bahonar Hospital (urology department)

City

Kerman

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Physiology Research Center , Kerman University of
Medical Sciences

Full name of responsible person

Dr. Hamid Najafi

Street address

Research Building, Somaie Square

City
Kerman

Grant name

Grant code / Reference number

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

Title of funding source
Physiology Research Center , Kerman 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
Kerman University of Medical Science

Full name of responsible person
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Position
Urology Associate Professor

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Person responsible for updating data

Contact

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