Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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

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Name of organization / entity

Kerman University of Medical Sciences

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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 Ŝciences
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

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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