

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Aug 2026

Comparison of complications and outcomes in the two techniques of percutaneous nephrolithotomy using ultrasonography and fluoroscopy guidance in the patients referring to Razi hospital- 2009

Protocol summary

Summary

The purpose of this study was to compare complications and outcomes of the two techniques of percutaneous nephrolithotomy under ultrasonography and fluoroscopy guidance. In this survey, 50 patients with nephrolithiasis were randomly assigned in 2 different groups to be operated by PCNL. The PCNL were performed under guidance of sonography or fluoroscopy. After 2 weeks, all the patients were evaluated for the complications and stone residues and the results was compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138805251853N3**
Registration date: **2011-02-26, 1389/12/07**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-02-26, 1389/12/07

Registrant information

Name

Siavash Falahatkar

Name of organization / entity

Urology Research Center

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Research Assistant of Guilan University of Medical Sciences

Expected recruitment start date

2009-01-20, 1387/11/01

Expected recruitment end date

2010-01-21, 1388/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of complications and outcomes in the two techniques of percutaneous nephrolithotomy using ultrasonography and fluoroscopy guidance in the patients referring to Razi hospital- 2009

Public title

Comparison of complications and outcomes in the two techniques of percutaneous nephrolithotomy using ultrasonography and fluoroscopy guidance

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Presence of single pelvic stones, single calyceal stones, kidneys with stones in the pelvis and lower calyx, upper ureteral stones, kidneys with non-opaque stones, previous open surgery. Exclusion criteria: Presence of multiple stones, ectopic kidneys or opaque staghorn stones, stone in upper calyx, immunodeficiency

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 50

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

Guilan University of Medical Sciences

Street address

Guilan University of Medical Sciences

City

Rasht

Postal code

41448-95655

Approval date

2009-08-26, 1388/06/04

Ethics committee reference number

4091

Health conditions studied

1

Description of health condition studied

Urolithiasis

ICD-10 code

N20, N23

ICD-10 code description

Urolithiasis

Primary outcomes

1

Description

stone free rate

Timepoint

2 weeks

Method of measurement

sonography, KUB

2

Description

need to transfusion

Timepoint

during operation, 48 hours after operation

Method of measurement

measuring hemoglobin

3

Description

colon injury

Timepoint

during operation, 48 hours after operation

Method of measurement

inspection of stool at skin puncture, fistula formation at the skin puncture

4

Description

operation time

Timepoint

during operation

Method of measurement

minute

Secondary outcomes

1

Description

fever

Timepoint

24 hours after operation

Method of measurement

thermometer

Intervention groups

1

Description

Ultrasonic guided Percutaneous Nephrolithotomy

Category

Treatment - Surgery

2

Description

Fluoroscopic guided Percutaneous Nephrolithotomy

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Razi Hospital

Full name of responsible person

Dr Siavosh Falahatkar

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Sardar Jangal street, Razi Hospital

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Research Assistance of Guilan University of Medical Sciences

Full name of responsible person

Dr Abdolrasoul Sobhani, Research Assistant of Guilan University of Medical Sciences

Street address

Guilan University of Medical Sciences

City

Rasht

Grant name

معاونت پژوهشی دانشگاه علوم پزشکی و خدمات بهداشتی و درمانی گیلان

Grant code / Reference number

10506

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

Yes

Title of funding source

Research Assistance of Guilan 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**

Urology Research Center

Full name of responsible person

Dr Majid Kazemzadeh

Position

Co worker/Resident

Other areas of specialty/work**Street address**

Razi Hospital

City

Rasht

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41448-95655

Phone**Person responsible for scientific inquiries****Contact****Name of organization / entity**

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Position

Professor

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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