

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Percutaneous nephrolithotomy with ultrasonography-guided renal access in the lateral decubitus flank position.

Protocol summary

Summary

Our aim was to evaluate the safety and efficacy of percutaneous nephrolithotomy (PCNL) with ultrasonography (US)-guided renal access in the lateral decubitus flank position in comparison with prone position. 80 patients of Shohadaye Tajrish hospital who were candidates of PCNL and had renal stone larger than 2 centimeter and had not uncontrolled coagulopathy were randomly allocated to undergo Percutaneous nephrolithotomy with US-guided renal access in lateral decubitus flank position or in prone position. Surgery time, anesthesia complications, ABG results, bleeding and damage to kidney were compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138803131267N10**

Registration date: **2009-08-17, 1388/05/26**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2009-08-17, 1388/05/26

Registrant information

Name

Mojgan Borgheie

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Urology and Nephrology Research Center (UNRC),
Shahid Beheshti University, M.C.(SBMU), Tehran, I.R.
Iran

Expected recruitment start date

2007-02-20, 1385/12/01

Expected recruitment end date

2008-02-20, 1386/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Percutaneous nephrolithotomy with ultrasonography-guided renal access in the lateral decubitus flank position.

Public title

Percutaneous nephrolithotomy with ultrasonography-guided renal access in the lateral decubitus flank position.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Presence of kidney stone greater than 2 cm, candidate for Percutaneous nephrolithotomy (PCNL), Exclusion criteria: kidney anomalous, uncontrolled coagulopathy, history of previous PCNL or open renal stone surgery

Age

No age limit

Gender

Both

Phase	Duration of surgery in minutes
N/A	
Groups that have been masked	2
No information	Description
Sample size	Complications of anesthesia
Target sample size: 80	Timepoint
Randomization (investigator's opinion)	during and after surgery
Randomized	Method of measurement
Randomization description	physical exam
Blinding (investigator's opinion)	
Single blinded	Secondary outcomes
Blinding description	
Placebo	1
Not used	Description
Assignment	Arterial hypoxia
Parallel	Timepoint
Other design features	after surgery
	Method of measurement
Secondary Ids	Arterial Blood Gas tests
empty	
Ethics committees	2
1	Description
Ethics committee	Bleeding
Name of ethics committee	Timepoint
Urology and Nephrology Research Center (UNRC), Shahid Beheshti University, M.C.(SBMU), Tehran, I.	during surgery
Street address	Method of measurement
UNRC, No.101, 9th Boostan St., Pasdaran Ave., Tehran, I.R. Iran	Volume of blood lost in cc
City	3
Tehran	Description
Postal code	Damage to kidney
1666677951	Timepoint
Approval date	during surgery
2007-01-28, 1385/11/08	Method of measurement
Ethics committee reference number	physical examination
75	
Health conditions studied	Intervention groups
1	1
Description of health condition studied	Description
kidney stone	PCNL in lateral decubitus position
ICD-10 code	Category
N20.1	Treatment - Surgery
ICD-10 code description	
Ureteric stone	2
Primary outcomes	Description
1	PCNL with guide of fluoroscopy in prone position
Description	Category
duration of surgery	Treatment - Surgery
Timepoint	
during surgery	Recruitment centers
Method of measurement	1
	Recruitment center
	Name of recruitment center

Shohadaye Tajrish Hospital
Full name of responsible person
Street address
Shohadaye Tajrish Hospital, Shriati Ave, Tajrish Sq.
City
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Sponsors / Funding sources

1

Sponsor

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Shahid Beheshti University,
Full name of responsible person
Shabnam Golshan
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UNRC, No.101, 9th Boostan St., Pasdaran Ave.,
Tehran, I.R. Iran
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Urology and Nephrology Research Center (UNRC), Shahid
Beheshti University,
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

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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