

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Study of the effect of electrocautery versus suture ligation of the iliac lymphatic on the fluid accumulation around the transplant kidney

Protocol summary

Summary

This study was performed on all patients diagnosed with chronic renal failure that underwent kidney transplant surgery at Babol Shahid Beheshti hospital. After obtaining informed consent, patients were enrolled in census and were divided randomly into two groups. Group one and two operated by electrocautery and suture ligation of iliac lymphatic vessels respectively. Patients with history of pelvic radiotherapy and extensive surgery on lymphatics and patients with history of ipsilateral kidney transplant accompanying with contralateral pelvic surgery was excluded. All study cases was admitted in the transplant ward of Shahid Beheshti hospital before surgery, and exact paraclinical investigation including CBC, urine analysis, BUN, Cr, sonography of the kidney and urinary system by radiologist was done. All operations was done by one surgery team. Operation time and lymphatic closure time (both electrocautery and suture ligation) was documented by trained personnel. Patients was examined 2 to 7 days after surgery by a physician, and any signs of surgical site infection (erythema, swelling, discharge and pain) was noted and documented. Patients follow up for demonstration of fluid collection around the transplant kidney by ultra sonography was done one week, one month and three months post operatively. patient's data including gender, age, preoperative clinical and paraclinical data was collected. Other information of the patient's condition during admission such as vital signs, laboratory data and any change or complication (hydronephrosis, fluid collection, urinary tract infection,...) was collected and analysed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016092129901N1**

Registration date: **2017-05-16, 1396/02/26**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-05-16, 1396/02/26

Registrant information

Name

Abdolrahi Gholizadehpasha

Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 3225 6285

Email address

a.gholizadehpasha@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research Babol University of Medical Sciences

Expected recruitment start date

2015-08-23, 1394/06/01

Expected recruitment end date

2017-02-19, 1395/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study of the effect of electrocautery versus suture ligation of the iliac lymphatic on the fluid accumulation around the transplant kidney

Public title

comparing the effect of electrocautery versus suture ligation of the iliac lymphatic on the fluid accumulation around the transplant kidney

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: All patients with diagnosed of chronic renal failure that underwent kidney transplant surgery; with informed Consent. Exclusion criteria: patient with history of pelvic radiotherapy and extensive surgery on the pelvic lymphatics and patient with history of ipsilateral kidney transplant transplant accompanying with contralateral pelvic surgery.

Age

From **15 years** old to **75 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

60 patients of this study was divided two groups (case and control) using randomly assigned.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Babol University of Medical Sciences

Street address

Babol University of Medical Sciences- Ganjafrooz Street- Babol-Mazandaran- Iran

City

Babol

Postal code

Approval date

2016-07-10, 1395/04/20

Ethics committee reference number

MUBABOL.REC.1395.101

Health conditions studied

1

Description of health condition studied

Chronic renal failure

ICD-10 code

N18.5

ICD-10 code description

End stage kidney disease: on dialysis

Primary outcomes

1

Description

Accumulation of fluid around the kidney transplant (Collection)

Timepoint

One week, one month and three months after surgery.

Method of measurement

Using Ultrasound

Secondary outcomes

1

Description

The need for drainage of the Collection

Timepoint

One week, one month and three months after surgery.

Method of measurement

Using Ultrasound

Intervention groups

1

Description

group one: Iliac lymphatic closure by using suture ligation with string

Category

Treatment - Surgery

2

Description

Group two: iliac lymphatics closure by using electrocautery

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Babol Shahid Beheshti Hospital

Full name of responsible person

Dr. Abdolrahim Gholizadehpasha- Dr Abazar

Akbarzadehpasha

Street address

Babol University of Medical sciences- Ganjafrooz
street- Babol- Iran

City

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Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Dr. Abdolrahim Gholizadehpasha

Position

Associate Professor of Surgery

Other areas of specialty/work

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor of research , Babol University of
Medical Sciences

Full name of responsible person

Dr.Aliakbar Moghaddamnia

Street address

Babol University of Medical Sciences- Ganjafrooz
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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice Chancellor of research , Babol 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

Babol University of Medical Sciences

Full name of responsible person

Dr. Mehraban Faraji

Position

Resident of General Surgery

Other areas of specialty/work

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Web page address

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