

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

Comparison of proximal radial artery to brachial artery in creation of arteriovenous fistula for hemodialysis

Protocol summary

Summary

Radiocephalic arteriovenous fistula (AVF) at wrist is the vascular access of choice for dialysis. In the absence of a suitable vein at the wrist, a brachiocephalic fistula at elbow is usually constructed. We in this study according to position and excellency of utilization of Proximal Radial Artery, we in this study 124 patient who candidate for creation of arteriovenous fistula in the antecubital region divided in two group, and in one group use brachial artery and in another group use proximal radial artery then compare this two artery in creation of vascular access for dialysis according to incidence of primary failure, complication and time of maturation.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013041012973N1**

Registration date: **2013-09-04, 1392/06/13**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-09-04, 1392/06/13

Registrant information

Name

Amirreza Naimi

Name of organization / entity

Arak university of medical sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

sina trauma&surgery research center, sina hospital, hasan abad Sq., Tehran, Iran

Expected recruitment start date

2013-08-20, 1392/05/29

Expected recruitment end date

2014-05-31, 1393/03/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of proximal radial artery to brachial artery in creation of arteriovenous fistula for hemodialysis

Public title

method of creation of arterio venous fistula for dialyse

Purpose

Treatment

Inclusion/Exclusion criteria

chronic renal failure patient who candidate for creation of arteriovenous fistula in the antecubital area

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **124**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

sina trauma&surgery research center

Street address

sina hospital,hasan abad Sq.,Tehran,Iran

City

tehran

Postal code**Approval date**

2011-10-12, 1390/07/20

Ethics committee reference number

421/10600187

Health conditions studied**1****Description of health condition studied**

vascular access in cronic renal failure

ICD-10 code

Z49

ICD-10 code description

Care involving dialysis

Primary outcomes**1****Description**

incidence of complication after creation of arteriovenouse fistula as steal syndrom,primary dysfunction

Timepoint

evry 2 week until 3month

Method of measurement

physical examination

2**Description**

period of maturation of fistula after creation

Timepoint

evry 2 week until maturation

Method of measurement

physical examination

Secondary outcomes**1****Description**

steal syndrom,failure

Timepoint

evry 2 week until 3 month

Method of measurement

physical examination

Intervention groups**1****Description**

Brachial artery (rotine metod) choosed for creation of arteriovenouse fistula

Category

Treatment - Surgery

2**Description**

proximal radial artery choosed for creation of arteriovenouse fistula

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

sina hospital

Full name of responsible person

amirreza naimi

Street address

emam khomeyni st. sina H.

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

SinaTtrauma&Surgery research center

Full name of responsible person

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Sina Hospital, Emam khomeyni St.

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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
SinaTrauma&Surgery research center
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
sina trauma&surgery research center
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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