

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Hemostatic effectiveness of intranasal desmopressin for tunneled dialysis catheter placement

#### Protocol summary

##### Study aim

This study aims to determine the effectiveness of intranasal desmopressin in reducing the risk of bleeding after insertion of tunneled dialysis catheters.

##### Design

Two arm parallel group randomised trial without blinding

##### Settings and conduct

This study would be conducted on patients with end stage renal disease requiring tunneled dialysis catheters for haemodialysis. Patients would be selected using consecutive sampling from the dialysis unit. All of them would be asked to give consent. Patients would be randomized into 2 groups using sequences generated online (and concealed as described above). Patients in the intervention arm would receive intranasal desmopressin, 1 puff in each nostril, 30 minutes before the procedure. This step would be omitted in the control group. Tunneled dialysis catheters would be inserted in the Dialysis Unit Procedure Room under ultrasound guidance. Fluoroscopic guidance is not available, and would thus not be used. All catheters would be inserted using Seldinger technique. Patients would be observed in the hospital for 24 hours after the procedure to record bleeding from exit site.

##### Participants/Inclusion and exclusion criteria

We will include patients of either gender, aged 12 years or more, who require placement of tunneled dialysis catheters for maintenance haemodialysis. Exclusion criteria include uncontrolled blood pressure (>180/110 mmHg), previous catheter placement at the same time, coagulopathy, current use of anticoagulants and platelets count <50,000.ul.

##### Intervention groups

Patients in the intervention arm would receive intranasal desmopressin. This would be a single dose of 1 puff in each nostril administered 30 minutes before the catheter placement.

##### Main outcome variables

Primary outcome would be bleeding from the exit site.

Secondary outcome would be the requirement of some intervention (chiefly purse string suture) in case of bleeding

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20240215061017N2**

Registration date: **2025-02-12, 1403/11/24**

Registration timing: **prospective**

Last update: **2025-02-12, 1403/11/24**

Update count: **0**

##### Registration date

2025-02-12, 1403/11/24

##### Registrant information

##### Name

Abdul Rehman Arshad

##### Name of organization / entity

National University of Medical Sciences

##### Country

Pakistan

##### Phone

+92 345 6746747

##### Email address

maj.abdulrehman@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2025-02-25, 1403/12/07

##### Expected recruitment end date

2025-10-25, 1404/08/03

##### Actual recruitment start date

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Hemostatic effectiveness of intranasal desmopressin for tunneled dialysis catheter placement

**Public title**

Usefulness of desmopressin in reducing bleeding during insertion of tunneled dialysis catheters

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

End stage renal disease requiring insertion of tunneled dialysis catheter

**Exclusion criteria:**

Current use of anticoagulants Platelets count <50,000/ $\mu$ l  
Previous tunneled dialysis line insertions at the same site  
Blood pressure >180/110 mmHg Unwillingness

**Age**

From **12 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **80**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Individual patients would be randomized into two groups using sequences generated online before the patient enrollment gets started. This randomization list will be kept with the Principal Investigator. All doctors performing the catheter insertion procedures would contact him personally to check which arm each successive patient is to be randomized to.

**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**

Research Review Board, Combined Military Hospital

Lahore

**Street address**

Abdul Rehman Road, Lahore Cantonment

**City**

Lahore

**Postal code**

54810

**Approval date**

2025-02-06, 1403/11/18

**Ethics committee reference number**

603/2025

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

end stage renal disease

**ICD-10 code**

N18.6

**ICD-10 code description**

End stage renal disease

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

Bleeding from the catheter exit site

**Timepoint**

Within 24 hours of the intervention

**Method of measurement**

Visual inspection and reporting by the patients

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

Need for intervention to control bleeding from catheter exit site

**Timepoint**

Within 24 hours of the intervention

**Method of measurement**

Review of medical records

**2****Description**

New onset headache (side effect)

**Timepoint**

Within 24 hours of intervention

**Method of measurement**

Direct inquiry from the patient

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

Intervention group: Patients in this group would be given

a single puff of desmopressin in each nostril, 30 minutes before the insertion of tunneled dialysis catheters. After half an hour, catheters would be inserted in such patients.

**Category**

Treatment - Drugs

**2**

**Description**

Control group: Patients in this group will not receive any intervention. Catheters would be inserted straight away.

**Category**

Placebo

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Combined Military Hospital Lahore

**Full name of responsible person**

Abdul Rehman Arshad

**Street address**

Abdur Rehman Road, Lahore Cantt

**City**

Lahore

**Postal code**

54810

**Phone**

+92 335 6746747

**Email**

maj.abdulrehman@gmail.com

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

CMH Lahore Medical College

**Full name of responsible person**

Abdul Rehman Arshad

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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**

CMH Lahore Medical College

**Proportion provided by this source**

100

**Public or private sector**

Private

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding**

empty

**Country of origin**

**Type of organization providing the funding**

Academic

**Person responsible for general inquiries**

**Contact**

**Name of organization / entity**

CMH Lahore Medical College

**Full name of responsible person**

Abdul Rehman Arshad

**Position**

Associate Professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Nephrology

**Street address**

Abdur Rehman Road, Lahore Cantonment

**City**

Lahore

**Province**

Punjab

**Postal code**

54810

**Phone**

+92 335 6746747

**Email**

maj.abdulrehman@gmail.com

**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

CMH Lahore Medical College

**Full name of responsible person**

Abdul Rehman Arshad

**Position**

Associate Professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Internal Medicine

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**Province**

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## Person responsible for updating data

### Contact

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## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

**Study Protocol**

No - There is not a plan to make this available

**Statistical Analysis Plan**

Undecided - It is not yet known if there will be a plan to make this available

**Informed Consent Form**

Undecided - It is not yet known if there will be a plan to make this available

**Clinical Study Report**

Undecided - It is not yet known if there will be a plan to make this available

**Analytic Code**

Undecided - It is not yet known if there will be a plan to make this available

**Data Dictionary**

Undecided - It is not yet known if there will be a plan to make this available

**Title and more details about the data/document**

Individual patient data would be shared on Harvard Dataverse once the study is published in a biomedical journal

**When the data will become available and for how long**

After publication of paper in a biomedical journal

**To whom data/document is available**

For anyone who may be interested

**Under which criteria data/document could be used**

No restrictions

**From where data/document is obtainable**

By emailing the PI

**What processes are involved for a request to access data/document**

Request forwarded by email

**Comments**