# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

17 Sep 2026

## Comparison of the effect of heparin saline and normal saline on keeping open the pathway of peripheral or peripheral venous catheters in cancer patients

## Protocol summary

**Study aim**
Comparison of the effect of heparin saline and normal saline on keeping open the pathway of peripheral or peripheral venous catheters in cancer patients

**Design**
Clinical trials with control group, with parallel, single blind, randomized clinical trials

**Settings and conduct**
5000 heparin units dissolved in one liter of normal saline solution, thereby diluting heparin. Then three cc of normal saline heparin and three cc of normal saline will be poured into niche bottles in perfectly similar bottles. After sampling and dividing the samples into two groups of normal saline (group A) and normal heparin saline (group B), randomized intervention will be started. When nurse prescribes, the nurse will put three cc of the solution given with a 5 cc syringe into the catheter.The study will be conducted at Imam Reza Hospital in Tabriz, and the researcher will be blind to intervention groups.

**Participants/Inclusion and exclusion criteria**
Having cancer Needed insertion of intravenous catheters

**Intervention groups**
5000 heparin units dissolved in one liter of normal saline solution, thereby diluting heparin. Then 3cc of normal saline heparin and 3cc of normal saline will be poured into niche bottles in perfectly similar bottles. When nurse prescribes, the nurse will put 3cc of the solution given with a 5 cc syringe into the catheter.

**Main outcome variables**
Phlebitis

## General information

**Reason for update**

**Acronym**

**IRCT registration information**
IRCT registration number: **IRCT20190325043107N4**
Registration date: **2019-05-21, 1398/02/31**
Registration timing: **prospective**

Last update: **2019-05-21, 1398/02/31**
Update count: **0**

**Registration date**
2019-05-21, 1398/02/31

**Registrant information**

**Name**
Mehdi Khanbabayi Gol

**Name of organization / entity**

**Country**
Iran (Islamic Republic of)

**Phone**
+98 41 3334 7054

**Email address**
khanbabayimehdi69@gmail.com

**Recruitment status**
**Recruitment complete**

**Funding source**

**Expected recruitment start date**
2019-06-05, 1398/03/15

**Expected recruitment end date**
2019-09-06, 1398/06/15

**Actual recruitment start date**
empty

**Actual recruitment end date**
empty

**Trial completion date**
empty

**Scientific title**
Comparison of the effect of heparin saline and normal saline on keeping open the pathway of peripheral or peripheral venous catheters in cancer patients

**Public title**

Methods of keeping the path of intravenous catheters open

**Purpose**

Prevention

**Inclusion/Exclusion criteria**

**Inclusion criteria:**

Having cancer Need to receive drugs through intravenous catheters

**Exclusion criteria:**

Patients with severe infectious disease

**Age**

No age limit

**Gender**

Both

**Phase**

3

**Groups that have been masked**

- Investigator

**Sample size**

Target sample size: **60**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

The patients are simply randomized to two groups , through random number table; received a special code and are treated with own group

**Blinding (investigator's opinion)**

Single blinded

**Blinding description**

The researcher will be unaware of how the patients are grouped and the type of intervention performed for each group.

**Placebo**

Used

**Assignment**

Parallel

**Other design features**

## Secondary Ids

empty

## Ethics committees

### 1

**Ethics committee**

**Name of ethics committee**

Ethics committee of Tabriz University of Medical Sciences

**Street address**

Imam Reza Hospital, Azadi Ave

**City**

Tabriz

**Province**

East Azarbaijan

**Postal code**

5165665631

**Approval date**

2019-04-08, 1398/01/19

**Ethics committee reference number**

IR.TBZMED.REC.1398.009

## Health conditions studied

### 1

**Description of health condition studied**

Phlebitis

**ICD-10 code**

K75.1

**ICD-10 code description**

Phlebitis of portal vein

## Primary outcomes

### 1

**Description**

Phlebitis

**Timepoint**

Every day at 12 o'clock

**Method of measurement**

Phlebite questionnaire

## Secondary outcomes

empty

## Intervention groups

### 1

**Description**

Intervention group: Before the nurse will administer the medicine, the nurse will put 3cc of the heparin saline solution into the catheter with a 5-cc syringe and then record the symptoms.

**Category**

Prevention

### 2

**Description**

Control group: Before the nurse will administer the medicine, the nurse will put 3cc of the normal saline solution into the catheter with a 5-cc syringe and then record the symptoms.

**Category**

Placebo

## Recruitment centers

### 1

**Recruitment center**

**Name of recruitment center**

Imam Reza Hospital

**Full name of responsible person**

Dara Alvandfar

**Street address**

Imam Reza Hospital, Azadi Ave

**City**
Tabriz
**Province**
East Azarbaijan
**Postal code**
6165665631
**Phone**
+98 21 3335 5921
**Email**
mkhanbabayi@yahoo.com

## Sponsors / Funding sources

**1**

**Sponsor**
**Name of organization / entity**
Tabriz University of Medical Sciences
**Full name of responsible person**
Abolghasem Jouyban
**Street address**
Imam Reza Hospital, Azadi Ave
**City**
Tabriz
**Province**
East Azarbaijan
**Postal code**
5165665631
**Phone**
+98 41 3335 7310
**Email**
Ajouyban@hotmail.com
**Grant name**
**Grant code / Reference number**
**Is the source of funding the same sponsor organization/entity?**
Yes
**Title of funding source**
Tabriz University of Medical Sciences
**Proportion provided by this source**
100
**Public or private sector**
Public
**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**
Tabriz University of Medical Sciences
**Full name of responsible person**
Mehdi Khanbabayi Gol
**Position**
MSc in Nursing Education
**Latest degree**
Master
**Other areas of specialty/work**
Nursery
**Street address**
Imam Reza Hospital, Azadi Ave
**City**
Tabriz
**Province**
East Azarbaijan
**Postal code**
5981764863
**Phone**
+98 41 3334 7054
**Fax**
**Email**
Khanbabayimehdi69@gmail.com

## Person responsible for scientific inquiries

**Contact**
**Name of organization / entity**
Tabriz University of Medical Sciences
**Full name of responsible person**
Mehdi Khanbabayi Gol
**Position**
MSc in Nursing Education
**Latest degree**
Master
**Other areas of specialty/work**
Nursery
**Street address**
Imam Reza Hospital, Azadi Ave
**City**
Tabriz
**Province**
East Azarbaijan
**Postal code**
5981764863
**Phone**
+98 41 3334 7054
**Fax**
**Email**
Khanbabayimehdi69@gmail.com

## Person responsible for updating data

**Contact**
**Name of organization / entity**
Tabriz University of Medical Sciences
**Full name of responsible person**
Mehdi Khanbabayi Gol
**Position**
MSc in Nursing Education
**Latest degree**
Master
**Other areas of specialty/work**
Nursery
**Street address**
Imam Reza Hospital, Azadi Ave
**City**
Tabriz
**Province**

East Azarbaijan
**Postal code**
5981764863
**Phone**
+98 41 3334 7054
**Fax**
**Email**
Khanbabayimehdi69@gmail.com

## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**
Undecided - It is not yet known if there will be a plan to make this available
**Study Protocol**
Undecided - It is not yet known if there will be 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