

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 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

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6165665631
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
Abolghasem Jouyban
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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
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Position
MSc in Nursing Education
Latest degree
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Person responsible for updating data

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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