Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

A comparative study of two dressing techniques the sterile gauze dressing and the routine dressing method (leucoplast) in incidence and intensity of phlebitis associated with peripheral intravenous catheter site.

Protocol summary

Summary

The purpose of this research is the study of the comparison between sterile gauze dressing method and the routine dressing method (leucoplast) in incidence and intensity of phlebitis associated with peripheral intravenous catheter site.80 bedridden patients in internal sections heart, CCU and PCCU in Imam Ali Cardiovascular center in Kermanshah put in two sampling groups of sterile gauze dressing or leucoplast based on blind randomizing. Place dressing in both groups is in the same way. After catheter placement, every 24 hours in a maximum of 72 hours period, the Status area phlebitis checked by using check list examination and observed by a researcher who does not know the patient groups. All of the samples of research trained in a same way for catheter care. Also there are reported a fixed instruction about dilution and constant infusion rate of intravenous drugs in patient's card and nurse report. After gathering information, it will be analyzed by 16th version of SPSS software and inferential statistics test cases

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201101085564N1**
Registration date: **2011-04-10, 1390/01/21**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2011-04-10, 1390/01/21

Registrant information

Name

fateme Hadadian Chaqayy

Name of organization / entity

Kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice – Chancellery of Research & Technology Affairs of Kermanshah University of Medical Sciences

Expected recruitment start date

2010-09-11, 1389/06/20

Expected recruitment end date

2011-01-20, 1389/10/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparative study of two dressing techniques the sterile gauze dressing and the routine dressing method (leucoplast) in incidence and intensity of phlebitis associated with peripheral intravenous catheter site.

Public title

A comparative study of two dressing techniques the sterile gauze dressing and the routine dressing method (leucoplast) in incidence and intensity of phlebitis

associated with peripheral intravenous catheter site.

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Having serum or IV medicine; Having no sensitivity to Leucoplast, Iodine or other medicines; Having no blood transfusion; having normal skin in the site that insert intravenous catheter; having no IV infusion of Hypertonic serum, having Systolic blood pressure upper 90 mm/Hg. Exclusion criteria: The patient discharging or expiring, before 72 hours insert intravenous catheter

Age

From **20 years** old to **90 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

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kermanshah University of Medical Sciences, Vice – Chancellery of Research & Technology Affairs

Street address

Medical Science building No.2, In front of Imam Ali cardiovascular center, Shahid Beheshti Blvd., Kermanshah, Iran

City

Kermanshah

Postal code

Approval date

2010-10-05, 1389/07/13

Ethics committee reference number

6966

Health conditions studied

1

Description of health condition studied

phlebitis

ICD-10 code

Z45.2

ICD-10 code description

Adjustment and management of vascular access device

Primary outcomes

1

Description

incidence of phlebitis

Timepoint

24,48,72 hourse after catheter placement

Method of measurement

phlebitis scale

2

Description

intensity of phlebitis

Timepoint

24,48,72 hourse after catheter placement

Method of measurement

phlebitis scale

Secondary outcomes

empty

Intervention groups

1

Description

In the intervention group after putting a new catheter, 5 × 5 cm sterile gauze is placed in the place of catheter and then will be fixed by leucoplast. If we made a mistake to put the catheter more than one time, we select a new location for injecting a new catheter. After catheter placement, for knowing the place of phlebitis symptoms, every 24 hours in a 72 hours period, the Status area is checked by a nurse who is unaware about patient group

Category

Treatment - Drugs

2

Description

In the control group after putting a new catheter the place will be fixed only by Leucoplast (Which typically used in Iran’s/Kermanshah’s hospitals now). In this group, like intervention group, if we made a mistake to put the catheter more than one time, we select a new location for injecting a new catheter. After catheter placement, for knowing the place of phlebitis symptoms, every 24 hours in a 72 hours period, the Status area is checked by a nurse who is unaware about patient group

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
Imam Ali cardiovascular center in Kermanshah – Iran

Full name of responsible person
Kadivar Sakeine

Street address
Imam Ali cardiovascular center, Shahid Beheshti Blvd. Kermanshah

City
Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Kermanshah University of Medical Sciences, Vice – Chancellery of Research & Technology Affairs

Full name of responsible person
Doctor Farid Najafi

Street address
Kermanshah University of Medical Sciences,Vice – Chancellery of Research & Technology Affairs

City
Kermanshah

Grant name

Grant code / Reference number

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

Title of funding source
Kermanshah University of Medical Sciences, Vice – Chancellery of Research & Technology Affairs

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
Kermanshah University of Medical Sciences

Full name of responsible person
F.Hadadian chaqayy

Position
MS in Medical Surgical Nursing / faculty mentor

Other areas of specialty/work

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Nursing Midwifery school, Kermanshah University of Medical Sciences, kermanshah - Iran

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Person responsible for scientific inquiries

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Full name of responsible person
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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