

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Comparative evaluation of preventive effects of ethanol, chlorhexidine-ethanol, and iodine -piodine on peripheral venous catheter induced phlebitis

Protocol summary

Summary

To study preventive effect of disinfectant solutions (alcohol, povidone - Iodine, and chlorhexidine - alcohol) on catheter insertion places in 123 patients who need IV line at internal wards of Beasat hospital, Sanandaj, Iran. Patients were randomly divided into 3 groups: alcohol, povidone - Iodine, and chlorhexidine - alcohol group. Catheter entry points were evaluated for phlebitis after 48 to 72 hours.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138901263726N1**
Registration date: **2008-08-16, 1387/05/26**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2008-08-16, 1387/05/26

Registrant information

Name

Shoaleh Shami

Name of organization / entity

Nursing school, Kurdistan University of Medical Sciences

Country

Iran (Islamic Republic of)

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Email address

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Recruitment status

Recruitment complete

Funding source

Kurdistan university of medical sciences

Expected recruitment start date

2008-08-16, 1387/05/26

Expected recruitment end date

2009-02-16, 1387/11/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative evaluation of preventive effects of ethanol, chlorhexidine-ethanol, and iodine -piodine on peripheral venous catheter induced phlebitis

Public title

Comparison the preventive effects of three different antiseptic agents on creation of phlebitis in peripheral catheter insertion site

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: age between 20-60, need to IV line, conscious patients, exact upper limb. Exclusion criteria: pregnancy, vascular disease, diabetes, severe anemia, headache, glaucoma, high intracranial pressure, hypotension, anticoagulant therapy, corticosteroid therapy.

Age

From **25 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 123

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kurdistan university of medical sciences

Street address

Pasdarán Blv

City

Sanandaj

Postal code

Approval date

2008-07-01, 1387/04/11

Ethics committee reference number

3755۲14۲

Health conditions studied

1

Description of health condition studied

phlebitis and infection of peripheral catheter insertion site following preparation the skin with various anti-septic agents

ICD-10 code

T81.6

ICD-10 code description

Acute reaction to foreign substance accidentally left during a procedure

Primary outcomes

1

Description

phlebitis

Timepoint

48 and 72 hour after catheter insertion

Method of measurement

0= absence of any clinical symptoms; 1= erythema, with or without pain; 2- pain, erythema, edema, or both

together; 3- pain, erythema, edema, or both together, clear palpable vessel; 4- pain, erythema, edema, or both together, clear palpable vessel, and infectious discharge.

Secondary outcomes

empty

Intervention groups

1

Description

Disinfect the entry site of peripheral catheters by alcohol

Category

Prevention

2

Description

Disinfect the entry site of peripheral catheters by povidone - iodine

Category

Prevention

3

Description

Disinfect the entry site of peripheral catheters by chlorhexidine - alcohol

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Beasat hospital

Full name of responsible person

Mohamadkhani

Street address

Kheshavarz street

City

Sanandaj

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kurdistan university of medical sciences

Full name of responsible person

Attaaollah Haidari

Street address

Pasdarán BLV

City

Sanandaj

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kurdistan university of medical sciences

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**

Nursing school

Full name of responsible person

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Master

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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