Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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

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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
Pasdaran Blv
City
Sanandaj
Postal code
Approval date
2008-07-01, 1387/04/11
Ethics committee reference number
3755پ14پ

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 chateter 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
Pasdaran 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

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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