

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Aug 2026

Comparison of clobetasol with nitroglycerin ointment on prevention of superficial phlebitis in patients admitted to the man surgical ward

Protocol summary

Summary

The aim of this study was to compare the effect of nitroglycerin ointment with clobetasol ointment in the prevention of phlebitis is catheter place. This study is a clinical trial, randomized, double-blinded on 145 men patients admitted to the surgical ward of Vali-asr hospital of Arak city ,that inclusion criteria (age between 20 and 60 years, patients with upper limb is health; requires 72 hours IV catheter; lack of phlebitis at the site of venipuncture, etc.) , is done. patients are divided in three group: A (clobetasol), B (NTG) and C (control). Data collection included demographic and medical questionnaire and degree of phlebitis checklist. Based on the amount of 2 grams of drugs for patients in the study group after venipuncture in the area of 2 × 4 cm distal of catheter then rubbed with gauze coated with hypoallergenic adhesive. According phlebitis symptoms include redness, warmth, pain, swelling and venous cording at 24,48 and 72 hours after venipuncture checked. If patients early discharge from hospital , acute infection or lack of full cooperation with researchers of the study, is eliminated..

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013051313301N2**

Registration date: **2013-12-02, 1392/09/11**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-12-02, 1392/09/11

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Lorestan University of Medical Sciences and Health Services

Expected recruitment start date

2013-11-12, 1392/08/21

Expected recruitment end date

2014-01-11, 1392/10/21

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of clobetasol with nitroglycerin ointment on prevention of superficial phlebitis in patients admitted to the man surgical ward

Public title

Effect of Clobetasol and nitroglycerin ointment on inflammation caused by venipuncture

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria : Age between 20 and 60 years ; patients with upper limb is health ; the patient will require at least 72 hours to catheter venous; The patient has no previous phlebitis at the IV insertion site ; IV

placement must be used catheter ;alcohol as a disinfectant before use catheter for disinfectant; catheter intravenous is not connected heparin lock, the patient is not allergic to the medication and adhesives ; patients with acute or chronic infectious diseases ; patients with personal history of vascular disease systemic disease, diabetes , skin disease, severe anemia , glaucoma , hypotension (systolic pressure less than 100 mm Hg); Patients with impaired immune systems; patients not taking anticoagulant medication . Exclusion criteria : early discharge from hospital; acute infection , lack of full cooperation with investigators .

Age

From **20 years** old to **60 years** old

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **145**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Arak University of Medical Sciences

Street address

Department of Education and Research, Educational Complex campus, Basij Square, Sardasht.

City

arak

Postal code

381481-7-6941

Approval date

2013-11-11, 1392/08/20

Ethics committee reference number

92-154-2

Health conditions studied

1

Description of health condition studied

phlebitis

ICD-10 code

I80.8

ICD-10 code description

Phlebitis and thrombophlebitis of other sites

Primary outcomes

1

Description

Phlebitis

Timepoint

After Intervention every 24 hours for three days

Method of measurement

check list

Secondary outcomes

1

Description

Prevention of phlebitis

Timepoint

post and every 24 hours for three days

Method of measurement

check list

Intervention groups

1

Description

The intervention group clobetasol Ointment 0.05%): After selecting the desired vein and disinfected with 70% Ethanol , the catheter was fixed to the skin. The distal portion of the catheter by clobetasol Ointment and dressings are impregnated century . cathter portion was assessed each 24 hour and In the absence of previous phlebitis and clean again with the ointment clobetasol ointment and a bandage is applied in the same area.

Category

Treatment - Drugs

2

Description

The intervention group Nitroglycerin Ointment): After selecting the desired vein and disinfected with 70% Ethanol and paste the catheter was fixed to the skin. The distal portion of the catheter by Nitroglycerin Ointment and dressings are impregnated century . cathter portion was assessed each 24 hour and In the absence of previous phlebitis and clean again with the nitroglycerin ointment and a bandage is applied in the same area .

Category

Treatment - Drugs

3

Description

The control group c: After selecting the desired vein and disinfected with 70%Ethanol and paste the catheter was fixed to the skin.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Vali Asr Hospital

Full name of responsible person

Hamid akbari

Street address

Imam Khomeini Ave, Vali Asr Square

City

arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Lorestan University of Medical Sciences,Research

Full name of responsible person

Dr. Mohamed Hossein Kaiedi

Street address

Lorestan University of Medical Sciences

City

Khorramabad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Lorestan University of Medical Sciences,Research

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

Lorestan University of Medical Sciences

Full name of responsible person

Hamid Akbari

Position

Masters Student-Critical Care

Other areas of specialty/work

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masterscience

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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