

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

06 Jun 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

Name

Mahdi Mohseni

##### Name of organization / entity

Lorestan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 66 1620 0140

##### Email address

mohseni\_m1989@yahoo.com

##### 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

#### Street address

Lorestan University of Medical Sciences, School of Nursing and Midwifery

#### City

Khorramabad.

#### Postal code

#### Phone

+98 66 1620 0140

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#### Email

akbari.5008@yahoo.com

#### Web page address

### Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

Lorestan University of Medical Sciences

##### Full name of responsible person

Shahin Raufi

##### Position

masterscience

##### Other areas of specialty/work

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### Person responsible for updating data

#### Contact

##### Name of organization / entity

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##### Position

Master of Nursing Student-Critical care Field

##### Other areas of specialty/work

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##### City

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**Email**

akbari.5008@yahoo.com

**Web page address**

**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*