

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparing the effects of two blood taking methods namely, venipuncture and saline lock, on the results of routine blood tests obtained from the CCU hospitalized patients in Ali Ibn Abi Talib Hospital of Zahedan University of Medical Sciences in 2015.

Protocol summary

Summary

This study aimed at comparing the effect of two blood taking methods namely venipuncture and saline lock on the results of blood routine tests obtained from the CCU hospitalized patients conducted non randomly and unicentral without control group on a number of 80 CCU hospitalized patients in pedagogical hospital in Zahedan. The criteria for entering the study included that the patients age must range from 35 to 70, they are required to do CCU routine tests according to the physicians' order. They should not have any deformity on upper limbs. The exclusion criteria included lack of having suitable vein for catheter insertion and saline lock fixation and failure in taking blood from saline lock for the first time sampling. The intended interventions were conducted after the physician's visit from 8 to 11 in the morning through blocking a tourniquet and after removing 0.5 ml of blood in the dead space of saline lock. The amount of five ml of blood was considered for the intended test. The same amount of blood was taken ordinarily from the opposite hand simultaneously as a control. The amount of CBC , ESR , CRP, BUN, Cr, Na, K, TG, Cholesterol, FBS , CPK, CKmb, LDH, PT, PT were compared

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016030126858N1**
Registration date: **2016-03-22, 1395/01/03**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-03-22, 1395/01/03

Registrant information

Name

Toktam Kianian

Name of organization / entity

Zahedan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 54 3344 1415

Email address

drnm@zaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Zahedan University of Medical Sciences

Expected recruitment start date

2015-01-26, 1393/11/06

Expected recruitment end date

2015-04-26, 1394/02/06

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effects of two blood taking methods namely, venipuncture and saline lock, on the results of routine blood tests obtained from the CCU hospitalized patients in Ali Ibn Abi Talib Hospital of Zahedan University of Medical Sciences in 2015.

Public title

The Effect of taking blood from a venipuncture and saline lock on the blood tests		Zahedan University of Medical Sciences	
Purpose		Street address	
Health service research		Mashahir Square, School of Nursing and Midwifery	
Inclusion/Exclusion criteria		City	
Inclusion criteria: The patient's age must range from 35 to 70. They are required to do routine tests of CCU based on the physicians' order. There should be lack of clinical jaundice and lack of massive hemorrhage such as gastrointestinal tract bleeding. There should exists Stable hemodynamic status and no sign of pregnancy in female patients. Lack of deformity in both upper limbs (as hemodialysis patients have shunts or Fistula or have mastectomy) is required as well. Exclusion criteria: Hematocrit (less than 25% or more than 60%); Anemia (Hemoglobin less than 12 gm/dl in females and less than 14 gm./dl in males; Coagulating disorders such as thrombocytopenia; Not having safe and healthy suitable vein for catheter insertion and Saline lock fixation; Failure in taking blood from saline lock for first time sampling.		Zahedan	
Age		Postal code	
From 34 years old to 69 years old		9816913396	
Gender		Approval date	
Both		2014-01-29, 1392/11/09	
Phase		Ethics committee reference number	
N/A		6234	
Groups that have been masked		Health conditions studied	
No information		1	
Sample size		Description of health condition studied	
Target sample size: 80		cardiovascular patients	
Randomization (investigator's opinion)		ICD-10 code	
N/A		I20, I21,	
Randomization description		ICD-10 code description	
Blinding (investigator's opinion)		Angina pectoris, Acute myocardial infarction, Subsequent myocardial infarction, Certain current complications following acute myocardial infarction, Other acute ischaemic heart diseases, Chronic ischaemic heart disease, Heart failure, Chronic Ischaemic He	
Not blinded		Primary outcomes	
Blinding description		1	
Placebo		Description	
Not used		BUN	
Assignment		Timepoint	
Parallel		Taking blood from Saline Lock and immediately from vein	
Other design features		Method of measurement	
-		Laboratory experiment	
Secondary Ids		2	
1		Description	
Registry name		CBC	
-		Timepoint	
Secondary trial Id		Taking blood from Saline Lock and immediately from vein	
-		Method of measurement	
Registration date		Laboratory experiment	
empty		3	
Ethics committees		Description	
1		CRP	
Ethics committee		Timepoint	
Name of ethics committee		Taking blood from Saline Lock and immediately from vein	
		4	
		Description	
		ESR	
		Timepoint	
		Taking blood from Saline Lock and immediately from vein	

Method of measurement

Laboratory experiment

5**Description**

Na

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

6**Description**

Cr

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

7**Description**

K

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

8**Description**

TG

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

9**Description**

Cholesterol

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

10**Description**

FBS

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

11**Description**

CPK

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

12**Description**

CKmb

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

13**Description**

LDH

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

14**Description**

PT

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

15**Description**

PTT

Timepoint

Taking blood from Saline Lock and immediately from vein

Method of measurement

Laboratory experiment

Secondary outcomes**1****Description**

-

Timepoint

-

Method of measurement

-

Intervention groups**1****Description**

Control group: Taking 5 cc blood from the patient's opposite hand vein

Category

Other

2**Description**

Intervention group: Taking 5 cc blood from the patients'

saline lock
Category
Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Ali ibn Abi Talib Hospital
Full name of responsible person
Hamide Samadzade
Street address
Hesabi Square, Zahedan University of Medical Sciences
City
Zahedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Zahedan University of Medical Sciences
Full name of responsible person
Fatihe Kerman Saravi
Street address
School of Nursing and Midwifery
City
Zahedan
Grant name
1
Grant code / Reference number
6234
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Zahedan 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
University of Medical Sciences
Full name of responsible person
Zahra Piashkarmofrad
Position
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Other areas of specialty/work

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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