

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparative Study Of Number Of Allogenic Blood Transfusion In Normovolemic Hemodilution Auto transfusion Versus Routine Method in open surgery of femor

Protocol summary

Summary

Purpose: Comparison of number of bank blood transfusion in autologous versus Allogenic blood transfusion with normovolemic hemodilution Patients who scheduled for elective open surgery of femur selected. Patients with hemoglobin less than 11 g/100; ASA more than 3; with coagulation disorder and who refuse to participate in study excluded. 50 patients selected and randomly allocated in two equal groups. In case group we took 450 cc bloods and simultaneously we injected three fold lactated ringer from other vein and stored blood in special bank blood bag. In case group if needed first infused autologous blood and if needed more we used allogenic blood. In control group if needed we used allogenic blood.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201012045313N1**

Registration date: **2012-03-25, 1391/01/06**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-03-25, 1391/01/06

Registrant information

Name

Ebrahim Khoshraftar

Name of organization / entity

Hamedan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 81 1824 1334

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor For Research And Technology; Hamedan University Of Medical Sciences

Expected recruitment start date

2008-04-03, 1387/01/15

Expected recruitment end date

2011-11-21, 1390/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative Study Of Number Of Allogenic Blood Transfusion In Normovolemic Hemodilution Auto transfusion Versus Routine Method in open surgery of femor

Public title

Comparison Of Allogenic Blood Transfusion Versus Routine Blood Transfusion

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: All patients with open femoral fracture who schedule for surgery, ASA less than 3, hemoglobin more than 11 Exclusion criteria were Cardiac disease, impaired renal function, baseline hemoglobin <11 g/dl, low concentrations of coagulation proteins, inadequate vascular access, and the absence of appropriate monitoring capability and refusal of participating in study

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 50

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**

Ethics committee of Hamedan University Of Medical Sciences

Street address

In Front Of Mardom Par; Hamedan

City

Hamedan

Postal code**Approval date**

2007-01-07, 1385/10/17

Ethics committee reference number

16/35/2455/پ

Health conditions studied**1****Description of health condition studied**

Blood Transfusion

ICD-10 code

Z51.3

ICD-10 code description

Blood Transfusion (without reported diagnosis)

Primary outcomes**1****Description**

need to blood transfusion

Timepoint

perioperative

Method of measurement

bloody gasses and suction blood

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

PT

Timepoint

before anesthesia

Method of measurement

laboratory tests

2**Description**

PT

Timepoint

after anesthesia

Method of measurement

laboratory tests

3**Description**

Hb

Timepoint

before anesthesia

Method of measurement

laboratory tests

4**Description**

Hb

Timepoint

after anesthesia

Method of measurement

laboratory tests

5**Description**

platelet

Timepoint

before anesthesia

Method of measurement

laboratory tests

6**Description**

platelet

Timepoint

after anesthesia

Method of measurement

laboratory tests

Intervention groups

1

Description

injection of maintenance serum, induction of anesthesia, assessment of blood loss, injection of bank blood if needed in control group

Category

Treatment - Other

2

Description

injection of maintenance serum, 450 cc blood sampling, injection of ringer three fold, induction of anesthesia, assessment of blood loss, injection of patients blood first if needed, injection of bank blood if patients needed more blood in case group

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Besat Hospital; Hamedan

Full name of responsible person

Bakhshai; Mohammad Hossein; Dr

Street address

Operating Room; Besat Hospital; Hamedan

City

Hamedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor For Research And Technology

Full name of responsible person

Vice Chancellor For Research And Technology

Street address

Vice Chancellor For Research And Technology-
Hamedan University Of Medical Sciences

City

Hamedan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice Chancellor For Research And Technology

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

Hamedan University Of Medical Sciences

Full name of responsible person

Dr.Mohammad Hossein Bakhshai

Position

Associated Professor

Other areas of specialty/work

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Web page address

Person responsible for updating data

Contact

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