Clinical Trial Protocol
Iranian Registry of Clinical Trials

02 Nov 2026

A comparative study of the effects of two different methods of anesthesia on Hs-CRP blood level in patients undergoing lower extremity surgery

Protocol summary

Summary

The main objective of this study is comparing Hs-CRP level in two method of anesthesia in patients undergoing lower extremity surgery. This is a clinical trial on 60 male patients aged 40 to 60 and BMI between 20 to 25 who are candidate for lower extremity surgery (plaque removal). Inclusion criteria: lower extremity surgery; age 40 to 60 year; male sex. Exclusion criteria: polymyositis; neurological disorders; hepatic failure; diabetes (DM); malignancies; pulmonary hypertension; serum Cr above 2 mg/dl; platelet under 150,000; INR under 1.1; steroids consumption within last 6 months; multiple trauma patients. The patients are divided into 2 groups randomly by means of draw. In group A general anesthesia and in group B spinal anesthesia is performed. Before fluid administration, a blood sample is taken for measuring Hs-CRP. During anesthesia they are monitored and their blood pressure is recorded every 10 minutes. In recovery room and 30 minutes after arrival, another blood sample is sent for analysis and third sample will be taken the next day in the morning. Finally the effects of these methods on Hs-CRP level will be evaluated.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202067488N2**
Registration date: **2015-06-01, 1394/03/11**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-06-01, 1394/03/11

Registrant information

Name

Mohammadali Haghbin

Name of organization / entity

Kerman University of MedicalSciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kerman University of Medical sciences

Expected recruitment start date

2015-01-01, 1393/10/11

Expected recruitment end date

2015-06-01, 1394/03/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparative study of the effects of two different methods of anesthesia on Hs-CRP blood level in patients undergoing lower extremity surgery

Public title

comparing the blood level of acute phase protein (Hs-CRP) in two methods of anesthesia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: lower extremity surgery; age 40 to 60 year; male sex. Exclusion criteria: polymyositis; neurologic disorders; hepatic failure; diabetes (DM); malignancies; pulmonary hypertension; serum Cr above

2 mg/dl; platelet under 150,000; INR under 1.1; steroids consumption within last 6 months; multiple trauma patients.

Age
From **40 years** old to **60 years** old

Gender
Male

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **60**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
The ethics committee of Kerman University of Medical Sciences

Street address
Shafa Square, Jomhoori Boulevard

City
Kerman

Postal code

Approval date
2015-01-21, 1393/11/01

Ethics committee reference number
k/93/536

Health conditions studied

1

Description of health condition studied
anaesthesia

ICD-10 code
T88.5

ICD-10 code description
Other complications of anaesthesia

Primary outcomes

1

Description
Hs-CRP blood level

Timepoint
before induction of anaesthesia, half an hour after admission to recovery room and next day

Method of measurement
blood anlysis

Secondary outcomes

1

Description
blood pressure

Timepoint
every 10 minutes

Method of measurement
automatic monitoring device

Intervention groups

1

Description
Performing lower extremity surgery under general anesthesia

Category
Treatment - Surgery

2

Description
Performing lower extremity surgery under spinal anesthesia

Category
Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center
Shafa hospital

Full name of responsible person
Mohamad Ali Haghbin

Street address
Farabi Street, Shafa hospital

City
Kerman

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor for research, Kerman University of Medical Sciences

Full name of responsible person

Fatemeh Hassani
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Tahmasbabad Square, Ebnesina Street
City
Kerman
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, Kerman 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