

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jun 2026

Effectiveness of oral tranexamic acid administration on blood loss after knee arthroplasty

Protocol summary

Summary

Some studies have been shown that administration of tranexamic acid during knee arthroplasty in patients without history of thromboembolic events decreases the bleeding and transfusion and also decreases the numbers of units transfused after surgery. In this double blind clinical trial study, 54 patients with knee arthroplasty are divided randomly in two groups including intervention and control group. We will only prescribe oral tranexamic acid to the first group before surgery but we will not prescribe anything for the control group. We will measure bleeding rate after 12 and 24 hour of surgery in the 2 groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201009204780N1**

Registration date: **2012-02-04, 1390/11/15**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-02-04, 1390/11/15

Registrant information

Name

Mohammad Alipour

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

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alipourm@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Research vice chancellor of Mashhad University of Medical Sciences

Expected recruitment start date

2012-01-31, 1390/11/11

Expected recruitment end date

2012-03-19, 1390/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effectiveness of oral tranexamic acid administration on blood loss after knee arthroplasty

Public title

Effect of tranexamic acid on blood loss after knee arthroplasty

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: adults' patients undergoing knee arthroplasty. Exclusion criteria: patients with history of ischemic heart diseases, renal failure, cirrhosis, bleeding disorders and consumption of NSAID or anticoagulants.

Age

From **20 years** old to **90 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **54**

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

Mashhad University of medical sciences

Street address

Research vice chancellor of Mashhad University of
Medical Sciences, Daneshgah st.

City

Mashhad

Postal code

Approval date

2009-12-30, 1388/10/09

Ethics committee reference number

88483

Health conditions studied

1

Description of health condition studied

knee artherosis

ICD-10 code

M15-M19

ICD-10 code description

Arthrosis

Primary outcomes

1

Description

bleeding

Timepoint

12 and 24 hours after surgery

Method of measurement

bleeding in drain in milliliters

Secondary outcomes

empty

Intervention groups

1

Description

control: without a drug or placebo prescription

Category

N/A

2

Description

intervention: Prescription of oral tranexamic acid two
hours before surgery and every 6 hours until 18 hours
after surgery

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ghaem hospital

Full name of responsible person

Street address

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research vice chancellor of Mashhad University of
medical sciences

Full name of responsible person

Dr. Tvakol Afshar

Street address

Research vice chancellor, Ghoreishy building,
University street

City

Mashhad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research vice chancellor of Mashhad 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

Mashhad University of medical sciences

Full name of responsible person

Azam Moradi Zarmehri

Position

resident of anesthesiology

Other areas of specialty/work

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Mashhad University of medical sciences

Full name of responsible person

Mohammad Ali Alipour

Position

anesthesiologist

Other areas of specialty/work

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City

Mashhad

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