

# 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)

##### Phone

+98 51 1801 2612

##### Email address

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**

**Street address**

Ghaem hospital

**City**

Mashhad

**Postal code**

**Phone**

+98 51 1881 8229

**Fax**

**Email**

moradia872@mums.ac.ir

**Web page address**

**Postal code**

**Phone**

+98 51 1801 2612

**Fax**

**Email**

alipourm@mums.ac.ir

**Web page address**

## Person responsible for updating data

### Contact

**Name of organization / entity**

**Full name of responsible person**

Azam Moradi Zarmehri

**Position**

**Other areas of specialty/work**

**Street address**

**City**

**Postal code**

**Phone**

**Fax**

**Email**

**Web page address**

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

Mashhad University of medical sciences

**Full name of responsible person**

Mohammad Ali Alipour

**Position**

anesthesiologist

**Other areas of specialty/work**

**Street address**

Ghaem hospital

**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*