

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

Assessment of Vasopressin effect on reduction of bleeding in patients under Total Hip Arthroplasty surgery

Protocol summary

Summary

The purpose of this double blind randomized clinical trial is assessment of Vasopressin effect on reduction of bleeding in patients under Total Hip Arthroplasty surgery. In this study, 80 patients who are eligible will be allocated in one of the intervention or control groups. Patients in the intervention group will receive Vasopressin 1% unit/minute during operation and in the control group will receive placebo in the similar appearance and dosage. The number of blood packages (transfusion) during operation, Hemoglobin, platelet, Prothrombin time (Pt), Partial thromboplastin time (Ptt), International Normalized Ratio (INR) will be measure and compared before and after operation in groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201108173773N4**

Registration date: **2011-09-02, 1390/06/11**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-09-02, 1390/06/11

Registrant information

Name

Farsad Imani

Name of organization / entity

Tehran University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

+98 21 4469 0816

Email address

imanifar@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences, Medical school

Expected recruitment start date

2011-03-21, 1390/01/01

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

Assessment of Vasopressin effect on reduction of bleeding in patients under Total Hip Arthroplasty surgery

Public title

Assessment of Vasopressin effect on reduction of bleeding

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: A.S.A class 1&2, Age: 20-80, undergoing Total Hip Arthroplasty under Regional Anesthesia Exclusion criteria: Bleeding disorders, Previous Total Hip Arthroplasty

Age

From **20 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 80

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Vice-chancellor for research, Tehran University of Medical Sciences

Street address

Ghods cross, Keshavarz Blvd.

City

Tehran

Postal code

Approval date

2011-07-28, 1390/05/06

Ethics committee reference number

663/130/90/s

Health conditions studied

1

Description of health condition studied

Vasopressin

ICD-10 code

Y42.9

ICD-10 code description

Other and unspecified hormone antagonists

Primary outcomes

1

Description

transfusion

Timepoint

during operation

Method of measurement

Number of Blood package

Secondary outcomes

1

Description

Hemoglobin

Timepoint

After operation

Method of measurement

Labratory instrument (scale g/dL)

2

Description

platelet

Timepoint

After operation

Method of measurement

Labratory instrument

3

Description

Prothrombin time = Pt

Timepoint

After operation

Method of measurement

Labratory instrument

4

Description

Partial thromboplastin time = Ptt

Timepoint

After operation

Method of measurement

Labratory instrument

5

Description

International Normalized Ratio = INR

Timepoint

After operation

Method of measurement

Labratory instrument

Intervention groups

1

Description

Intervention group patients receive Vasopressin 1% unit/minute during operation.

Category

Treatment - Drugs

2

Description

Control group patients receive placebo during operation.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Sina Hospital

Full name of responsible person

Farsad Imani, Anesthesiologist, Assistant professor

Street address

Sina Hospital, Hasanabad Sq., Imam Khomeini St.

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences and Health Services

Full name of responsible person

Farsad Imani, Anesthesiologist, Assistant Professor

Street address

Sina Hospital, Hasanabad Sq., Imam Khomeini St.

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehran University of Medical Sciences and Health Services

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

Anesthesia Group, Tehran University of Medical Sciences

Full name of responsible person

Farsad Imani, Anesthesiologist, Assistant Professor

Position

Assistant Professor of Anesthesiology

Other areas of specialty/work

Street address

Sina Hospital, Hasanabad Sq., Imam Khomeini St.

City

Tehran

Postal code

1136746911

Phone

+98 66 3485 0010

Fax

Email

imanifar@tums.ac.ir

Web page address

www.tums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Anesthesia Group, Tehran University of Medical Sciences

Full name of responsible person

Farsad Imani M.D.

Position

Assistant Professor of Anesthesiology

Other areas of specialty/work

Street address

Sina Hospital, Hasanabad Sq., Imam Khomeini St.

City

Tehran

Postal code

1136746911

Phone

+98 66348500

Fax

Email

imanifar@tums.ac.ir

Web page address

www.tums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Farsad Imani M.D.

Position

Assistant Professor of Anesthesiology

Other areas of specialty/work

Street address

Sina Hospital, Hasanabad Sq., Imam Khomeini St.

City

Tehran

Postal code

1136746911

Phone

+98 66348500

Fax

Email

imanifar@tums.ac.ir

Web page address

www.tums.ac.ir

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