

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Comparing assessment of dynamic hip screw and cannulated screws fixation for femoral neck fracture

#### Protocol summary

##### Summary

The aim of this study is comparing of two prosthesis include short-stem and long stem. 70 cases of that refer to Sina hospital, Tehran, Iran due to femoral neck fracture will participate in each groups. The first we perform preparation before operation, for example, lab test, blood group, blood reserve, cardiology and analgesic consultation. After obtaining written informed consent for the surgery, patients will be randomly assigned in study groups. The Patients will be visited at the weeks 2 and 6 and months 3, 6 and 12 after surgery. Early complications include wound infection, early failure and late complications include avascular necrosis, loss of fixation, bread Union will be assessed. The frequency of treatment to track effects of setup time, setup quality time union attain acceptable levels of pain relief, patient satisfaction with the surgery will be measured. Clinical outcome and patients satisfaction will be evaluated with Harris Hip Score and SF-12, respectively.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013030911560N5**

Registration date: **2013-09-10, 1392/06/19**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2013-09-10, 1392/06/19

##### Registrant information

##### Name

Tayeb Ramim

##### Name of organization / entity

Sina Trauma and Surgery Research Center, Tehran

University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

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##### Email address

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##### Recruitment status

**Recruitment complete**

##### Funding source

Deputy of Research in Tehran University of Medical Sciences

##### Expected recruitment start date

2013-03-21, 1392/01/01

##### Expected recruitment end date

2015-03-21, 1394/01/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparing assessment of dynamic hip screw and cannulated screws fixation for femoral neck fracture

##### Public title

Surgery treatment in hip fracture

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: femoral neck fracture (with digital radiography); age < 60 years old; acute traumatic fracture (< 72 hour after trauma); independence motion; no history of mental disorders; full consciousness; no concordance fracture that influence fixation of fracture. Exclusion criterion: patients without cooperation and no follow up

##### Age

To **60 years** old

**Gender**

Both

**Phase**

1

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **140**

**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**

Tehran University of Medical Sciences

**Street address**

Hemat gateway, Central division of Tehran University of Medical Sciences

**City**

Tehran

**Postal code**

**Approval date**

2013-02-19, 1391/12/01

**Ethics committee reference number**

1391/05/14211

**Health conditions studied**

1

**Description of health condition studied**

Femoral neck fracture

**ICD-10 code**

S72.0

**ICD-10 code description**

Fracture of neck of femur

**Primary outcomes**

1

**Description**

Union time

**Timepoint**

At the weeks 2 and 6 and months 3, 6 and 12 after surgery

**Method of measurement**

Radiological study

**Secondary outcomes**

1

**Description**

Function

**Timepoint**

At the weeks 2 and 6 and months 3, 6 and 12 after surgery

**Method of measurement**

Harris Hip Score

**Intervention groups**

1

**Description**

The use of dynamic hip screw for repairing of femoral neck fracture.

**Category**

Treatment - Surgery

2

**Description**

The use of cannulated screw for repairing of femoral neck fracture.

**Category**

Treatment - Drugs

**Recruitment centers**

1

**Recruitment center**

**Name of recruitment center**

Sina Hospital

**Full name of responsible person**

Arash Ali Rezaii

**Street address**

Sina Hospital, Imam Khomeini St, Hasan Abad Sq

**City**

Tehran

**Sponsors / Funding sources**

1

**Sponsor**

**Name of organization / entity**

Deputy of Research, Tehran University of Medical Sciences

**Full name of responsible person**

Akbar Fotouhi

**Street address**

Central building of Tehran University of Medical

sciences, Ghods st., Keshavarz blv.

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**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Deputy of Research, Tehran 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**

Sina Hospital, Tehran University of Medical Sciences

**Full name of responsible person**

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**Position**

Clinical Assistant

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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*