

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.

City

Tehran

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

Arash Ali Rezaii

Position

Clinical Assistant

Other areas of specialty/work

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Name of organization / entity

Sina Trauma and Surgery Research Center

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Researcher

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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