

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jul 2026

Clinical outcome comparison between short-stem and standard-stem prosthesis of total hip arthroplasty

Protocol summary

Summary

The aim of this study was to compare short-stem with standard-stem prosthesis outcomes in total hip arthroplasty. This study was performed as a randomized clinical trial. 84 patients were selected among cases referred to Sina University Hospital, Tehran, Iran between April 2010 and April 2012 with severe hip osteodegeneration. Total hip arthroplasty were performed with short-stem or standard-stem prostheses after obtaining written informed consent from patients. Balanced Block Randomization method was used to do a random allocation. Clinical outcomes were evaluated based on Harris Hip Score (HHS). Patients were followed up for at least one year. All patients were examined at 2 weeks, 6 weeks, 3 months, 6 months and one year after surgery. In each visit, Control X-Ray was obtained and bone and prosthetic position were assessed. Also, the symptoms such as infection, pain, claudication, ability to climb stairs, using crutches and weight bearing were rechecked.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013022611560N4**

Registration date: **2013-03-27, 1392/01/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-03-27, 1392/01/07

Registrant information

Name

Tayeb Ramim

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Deputy of Research, Tehran University of Medical
Sciences

Expected recruitment start date

2010-03-21, 1389/01/01

Expected recruitment end date

2012-03-20, 1391/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical outcome comparison between short-stem and
standard-stem prosthesis of total hip arthroplasty

Public title

Total hip displacment with two difference prostesis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: underlying disease such as non-inflammatory degenerative disease of hip; Osteoarthritis; Avascular necrosis of hip; skeletal system maturity; good condition; no history of surgery; no congenital dysplasia of hip; no bone metabolic disease; no Osteoprosis; no history of bone infection; no history of prostesis sensitivity; no pregnancy. Exclusion

criteria: not follow up, post-surgery infection;
preprosthetics fracture during or after surgery; patient death.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 84

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

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1169452874

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

1352165190

Health conditions studied**1****Description of health condition studied**

Total Hip Arthroplasty

ICD-10 code

Z96.6

ICD-10 code description

Hip-joint replacement (partial)(total)

Primary outcomes**1****Description**

The improvement of joint function

Timepoint

pre-operation, 2th week, 6th week, 3th month, 6th month, 12th month

Method of measurement

Harris Hip Score

Secondary outcomes**1****Description**

Bleeding peri operation

Timepoint

during operation

Method of measurement

volume (cc)

Intervention groups**1****Description**

Total hip arthroplasty (short-stem prostheses)

Category

Treatment - Surgery

2**Description**

Total Hip Arthroplasty (standard-stem prostheses)

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

Sina Hospital

Full name of responsible person

Dr. Mojgan Seifi

Street address

Sina Hospital, Hasan Abad Sq, Imam khomeni Ave

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Deputy of Research, Tehran University of Medical Sciences

Full name of responsible person

Dr. Akbar Fotouhi

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Center Office, Teharn University of Medical Sciences,
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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, Teharn 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**

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Position

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Web page address**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