

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparison of the results of fixation of Intertrochanteric fractures using Dynamic Hip Screw (DHS) and Dynamic Condylar Screw (DCS) after 6 months

Protocol summary

Study aim

Comparison of the results of fixation of Intertrochanteric fractures using Dynamic Hip Screw (DHS) and Dynamic Condylar Screw (DCS) after 6 months in patients of Aria Hospital in Mashhad in 2021-2022

Design

Single Blinded two arm parallel group randomized trial of 50 patients

Settings and conduct

Patients of Aria Hospital in Mashhad in 2021-2022

Participants/Inclusion and exclusion criteria

Inclusion criteria: - Patients with intertrochanteric fracture diagnosed with plain radiograph - Patients should at least be 18 years old
Exclusion criteria: - If needed data remains defective patients will be excluded along the study

Intervention groups

Patients above age of 18 years old with intertrochanteric fracture will be treated in 2 groups with DHS and DCS

Main outcome variables

Patients above age of 18 years old with intertrochanteric fracture will be treated in 2 groups with DHS and DCS. We'll follow up the patients in 6 months and they will be visited by an orthopedic surgeon.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220206053953N1**

Registration date: **2022-08-14, 1401/05/23**

Registration timing: **registered_while_recruiting**

Last update: **2022-08-14, 1401/05/23**

Update count: **0**

Registration date

2022-08-14, 1401/05/23

Registrant information

Name

Niloofar Attarian

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3728 1775

Email address

nil.at1997@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-01-01, 1399/10/12

Expected recruitment end date

2022-09-22, 1401/06/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the results of fixation of Intertrochanteric fractures using Dynamic Hip Screw (DHS) and Dynamic Condylar Screw (DCS) after 6 months

Public title

Comparison of the results of fixation of Intertrochanteric fractures using Dynamic Hip Screw (DHS) and Dynamic Condylar Screw (DCS) after 6 months

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients with intertrochanteric fracture diagnosed with plain radiograph Patients should at least be 18 years old

Exclusion criteria:

If needed data remains defective patients will be excluded along the study

Age

From **18 years** old

Gender

Both

Phase

3

Groups that have been masked

- Investigator

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Not randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description

In this trial investigator is single blinded

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of islamic azad university mashhad branch

Street address

13th floor, block A, ministry of health headquarters, Simaye Iran Ave, between South Falamak and Zarafshan, Qods Town, Tehran

City

Mashhad

Province

Razavi Khorasan

Postal code

1467674475

Approval date

2021-12-21, 1400/09/30

Ethics committee reference number

IR.IAU.MSHD.REC.1400.108

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

Intertrochanteric fracture of femur

ICD-10 code

S72.1

ICD-10 code description

Pertrochanteric fracture

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

results of fixation of Intertrochanteric fractures

Timepoint

6 months post operation

Method of measurement

Checklist - Patient records - Plain Radiograph - Physical examination

Secondary outcomes

empty

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

Intervention group: fixation of intertrochanteric fracture with DHS

Category

Treatment - Devices

2**Description**

Intervention group: fixation of intertrochanteric fracture with DCS

Category

Treatment - Devices

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

Aria Hospital

Full name of responsible person

Mohammad Mahdinejad Kashani

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8th Chamran Ave, Chamran Blvd, Mashhad

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91378-558-14

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drmahninejad@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
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Full name of responsible person
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Web page address
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
No
Title of funding source
Niloofer Attarian
Proportion provided by this source
100
Public or private sector
Private
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Other

Person responsible for general inquiries

Contact

Name of organization / entity
Islamic Azad University
Full name of responsible person
Mohammad Mahdinejad Kashani
Position
Assistant Professor
Latest degree
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available