

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jun 2026

Evaluating the results of treatment in unstable femoral neck fractures with method of augmentation cannulated screw with medial buttress plate.

Protocol summary

Study aim

Increase level of success in surgery of unstable femoral neck fracture in young patients. Reduce of re-operation

Design

A clinical trial with no parallel group with no randomization. enrolled between 2018 and 2021. and followed for 6 months.

Settings and conduct

Mashhad kamyab hospital and Emam reza hospital. After inability to Close reduction, open reduction was done with smith peterson approach and apply cannulated screw and then apply medial buttress plate.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Inability to close reduction in type 2 and 3 of the Pauwels classification of femoral neck fracture in patient between 18-60 years old. Exclusion criteria: ability to close reduction, ipsilateral fracture, type 1

Intervention groups

Application of buttress medial plate in a patient with unstable femoral neck fracture(type 2,3) after open reduction and fixation with a cannulated screw.

Main outcome variables

The rate of the union in femoral neck fracture surgery
The need for re-operation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20201108049314N1**

Registration date: **2020-12-13, 1399/09/23**

Registration timing: **retrospective**

Last update: **2020-12-13, 1399/09/23**

Update count: **0**

Registration date

2020-12-13, 1399/09/23

Registrant information

Name

Ghasem Zamani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3713 1292

Email address

ghasem.zamani92@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-08-23, 1398/06/01

Expected recruitment end date

2020-11-05, 1399/08/15

Actual recruitment start date

2019-08-23, 1398/06/01

Actual recruitment end date

2020-11-05, 1399/08/15

Trial completion date

2021-03-19, 1399/12/29

Scientific title

Evaluating the results of treatment in unstable femoral neck fractures with method of augmentation cannulated screw with medial buttress plate.

Public title

Evaluating the result of medial buttress plate in unstable femoral neck fracture.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Unstable femoral neck fractures in which close reduction is not applicable Type 2, 3 in pauwels classification

Exclusion criteria:

Possibility of close reduction, Type 1 in pauwels classification

Age

From **18 years** old to **60 months** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **8**

Actual sample size reached: **8**

Randomization (investigator's opinion)

N/A

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

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

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

Ethics Committee of Mashhad University of Medical Sciences

Street address

No 342.Kolahdouz 17/1 Blvd.

City

Mashhad

Province

Razavi Khorasan

Postal code

9184944111

Approval date

2020-10-12, 1399/07/21

Ethics committee reference number

IR.MUMS.MEDICAL.REC.1399.398

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

Unstable femoral neck fracture

ICD-10 code

S72.00

ICD-10 code description

Fracture of unspecified part of neck of femur

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

Union

Timepoint

2 weeks , 6weeks, 12 weeks, 6 months

Method of measurement

Pelvic x-ray, History and physical examination

Secondary outcomes

empty

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

Intervention group: application of buttress medial plate in a patient with unstable femoral neck fracture(type 2,3) after open reduction and fixation with a cannulated screw.

Category

Treatment - Surgery

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

Kamyab hospital, Mashhad

Full name of responsible person

Ghasem Zamani

Street address

Fadaeeyan Eslam.

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+98 51 3880 0280

Email

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

Mashhad University of Medical Sciences

Full name of responsible person

Mohsen Tafaghodi

Street address

Knowledge and Health City, Shahid Fakouri 94 Ave.,
Shahid Fakouri Blvd., Mashhad ,Iran

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Email

Mds.research@mums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mashhad University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Ghasem Zamani

Position

Resident

Latest degree

Specialist

Other areas of specialty/work

Orthopedics

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Person responsible for scientific

inquiries

Contact

Name of organization / entity

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Full name of responsible person

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Position

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Person responsible for updating data

Contact

Name of organization / entity

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Position

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Pelvic x-ray Physical examinations according to Harris hip score and Merle Questionnaires

When the data will become available and for how long

Access at the end of study

To whom data/document is available

Academic and industry Researchers

Under which criteria data/document could be used

Any researcher can access information by having a letter of introduction from the relevant organization, including industry and academia.

From where data/document is obtainable

Ghasem Zamani Ghasem.zamani92@gmail.com
00989153062925

What processes are involved for a request to access data/document

Sending a request with a letter of introduction from the relevant organization to the phone number or email

Comments