

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jul 2026

Evaluation and comparison of surgical results of pelvic fractures of APC type II and III by anterior pelvic plating method with anterior pelvic plating method and SI screw implantation in patients admitted to Ayatollah Kashani and Al-Zahra hospitals in Isfahan city

Protocol summary

Study aim

Evaluation and comparison of surgical results of pelvic fractures of APC type II and III by anterior pelvic plating method with anterior pelvic plating method and SI screw implantation

Design

This is a quasi-experimental study with two parallel groups, non-randomized, open-label.

Settings and conduct

This study is conducted in Ayatollah Kashani and Al-Zahra hospitals in Isfahan city. Patients with unstable pelvic fractures were included in the study based on the inclusion criteria and obtaining informed consent and will be treated non-randomly (based on clinical criteria and the specialist's decision) with one of the two usual methods. Finally, the process of response to treatment 2 weeks and 6 months after the operation will be compared by examining the amount of bone union.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Confirming informed consent, Age 18 to 80 years, unstable pelvic fracture. Exclusion criteria: Patients with the acetabulum, pubic ramus, and sacrum fracture.

Intervention groups

Intervention group 1: Patients who are candidates for elective surgery due to unstable pelvic fracture, in this group, undergo anterior pelvic plating surgery.
Intervention group 2: Patients who are candidates for elective surgery due to unstable pelvic fracture, in this group, undergo anterior pelvic plating surgery and SI screw implantation.

Main outcome variables

Union

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210614051574N15**

Registration date: **2022-11-15, 1401/08/24**

Registration timing: **retrospective**

Last update: **2022-11-15, 1401/08/24**

Update count: **0**

Registration date

2022-11-15, 1401/08/24

Registrant information

Name

Ghasem Mohammadsharifi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 3729 4005

Email address

mohammadsharifi.ghasem@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-11-03, 1400/08/12

Expected recruitment end date

2022-06-22, 1401/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title
Evaluation and comparison of surgical results of pelvic fractures of APC type II and III by anterior pelvic plating method with anterior pelvic plating method and SI screw implantation in patients admitted to Ayatollah Kashani and Al-Zahra hospitals in Isfahan city

Public title
Evaluation and comparison of anterior pelvic ring fixation

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Confirming informed consent Age 18 to 80 years
Unstable pelvic fracture
Exclusion criteria:
Patients with a fracture of the acetabulum, pubic ramus, and sacrum

Age
From **18 years** old to **80 years** old

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **30**

Randomization (investigator's opinion)
Not 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

Ethics committee of Esfahan University of Medical Sciences

Street address

Esfahan University of Medical Sciences, Hezar Jarib Ave., Esfahan

City

Isfahan

Province

Isfahan

Postal code

8174673461

Approval date

2021-09-13, 1400/06/22

Ethics committee reference number

IR.MUI.MED.REC.1400.469

Health conditions studied

1

Description of health condition studied

Pelvic fracture

ICD-10 code

S32.811A

ICD-10 code description

Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for closed fracture

Primary outcomes

1

Description

Union

Timepoint

2 weeks and 6 months after surgery

Method of measurement

Radiography

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: Patients who are candidates for elective surgery due to unstable pelvic fracture, in this group, undergo anterior pelvic plating surgery.

Category

Treatment - Surgery

2

Description

Intervention group: Patients who are candidates for elective surgery due to unstable pelvic fracture, in this group, undergo anterior pelvic plating surgery and SI screw implantation.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Ayatollah Kashani Hospital

Full name of responsible person

Mohammad Mirmiran
Street address
Kashani St., Isfahan
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8183983434
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+98 31 3233 0091
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mohammadsharifi.ghasem@gmail.com

2

Recruitment center

Name of recruitment center
Al-Zahra hospital
Full name of responsible person
Mohammad Mirmiran
Street address
No. 22, Roshd Ave., Daneshgah Blvd., Isfahan
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Esfahan University of Medical Sciences
Full name of responsible person
Shaghayegh Haghjoo
Street address
Isfahan University of Medical Sciences, Hezar Jarib Ave., Daneshgah Blvd, Isfahan
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haghjoo.sh@med.mui.ac.ir

Grant name

Grant code / Reference number

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

No

Title of funding source

Esfahan 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
Esfahan University of Medical Sciences
Full name of responsible person
Mohammad Mirmiran
Position
Specialist
Latest degree
Specialist
Other areas of specialty/work
Orthopedics
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Mohammad Mirmiran

Position

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Specialist

Other areas of specialty/work

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Fax**Email**

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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

All data can be shared after people have requested.

When the data will become available and for how long

Six months after publishing the results.

To whom data/document is available

Academic researchers

Under which criteria data/document could be used

Scientific uses

From where data/document is obtainable

Send a message to the mentioned e-mail address

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

E-mail the responsible person and if you accept the conditions, the information will be

Comments