

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

The survey of treatment outcome of intraarticular fractures of distal radius (type C) with the locking-volar plate method as an alternative to Percutaneous pinning (PCP) with Short Forearm plaster

Protocol summary

Study aim

Comparison of the outcomes of treatment of intraarticular fractures of distal radius by the locking-volar plate method with Percutaneous pinning with Short Forearm plaster

Design

A clinical trial with a parallel group design of 60 patients, enrolled between April 2015 and April 2017, and followed for one year

Settings and conduct

60 patients with a fracture of distal radius that referred to Kerman Bahonar hospital after informed consent were enrolled to study and two methods locking-volar plate and a Percutaneous pinning with Short Forearm plaster is performed.

Participants/Inclusion and exclusion criteria

Included criteria: Intraarticular fractures of distal radius, age 17-80 years Exclusion criteria: Age below 17 years

Intervention groups

Performance of locking-volar plate method in fractures of distal radius, Performance of Percutaneous pinning with Short Forearm plaster in fractures of distal radius

Main outcome variables

amount of daily activities: domain of joint movement, radiologic finding

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20150317021497N4**

Registration date: **2019-02-11, 1397/11/22**

Registration timing: **retrospective**

Last update: **2019-02-11, 1397/11/22**

Update count: **0**

Registration date

2019-02-11, 1397/11/22

Registrant information

Name

Mohammadreza Mokhtaree

Name of organization / entity

Rafsanjan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 34260081

Email address

mrmokhtaree@rums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2015-04-21, 1394/02/01

Expected recruitment end date

2017-04-20, 1396/01/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The survey of treatment outcome of intraarticular fractures of distal radius (type C) with the locking-volar plate method as an alternative to Percutaneous pinning (PCP) with Short Forearm plaster

Public title

Study of the effect and comparison of locking-volar plate and Percutaneous pinning in improving intraarticular fractures of distal radius

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

The patients with fractures of distal radius Age 17-80 years

Exclusion criteria:

Distal radial epiphysis opening Ulnar opening Open fracture Fracture in third Ulnar distal Involvement of arterial and nerve together

Age

From **17 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

N/A

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 Kerman University of Medical Sciences

Street address

Haft bagh-e alavi, Pardis of Kerman University of medical sciences

City

Kerman

Province

Kerman

Postal code

7616913555

Approval date

2018-07-25, 1397/05/03

Ethics committee reference number

IR.KMU.REC.1397.168

Health conditions studied

1

Description of health condition studied

Intraarticular fractures of distal radius

ICD-10 code

S52.5

ICD-10 code description

Fracture of lower end of radius

Primary outcomes

1

Description

Amount of daily activities

Timepoint

3 months and 12 months after surgery

Method of measurement

Based on self-report questionnaire

2

Description

Domain of movements

Timepoint

3 months and 12 months after surgery

Method of measurement

Observe and measure with goniometer

3

Description

Degenerative changes

Timepoint

3 months and 12 months after surgery

Method of measurement

Radiography

Secondary outcomes

empty

Intervention groups

1

Description

First intervention group: the locking-volar plate method

Category

Treatment - Devices

2

Description

Second intervention group: percutaneous pinning with Short Forearm plaster

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Bahonar hospital

Full name of responsible person

Mahdi Ahmadinejad

Street address

Gharani

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Province

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Postal code

7613747181

Phone

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Email

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Web page address

<http://www.kmu.ac.ir/fa/bh/page/23113/%D8%B1%DB%8C%D8%A7%D8%B3%D8%AA-%D8%A8%DB%8C%D9%85%D8%A7%D8%B1%D8%B3%D8%AA%D8%A7%D9%86>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Abbas Pardakhty

Street address

Ebn-e sina ST, Vice-chancellor for research, Medical Sciences University

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Phone

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Email

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Web page address

<http://kmu.ac.ir/fa/vcrt/page/23215/%D9%85%D8%B9%D8%A7%D9%88%D9%86-%D8%AA%D8%AD%D9%82%DB%8C%D9%82%D8%A7%D8%AA-%D9%88-%D9%81%D9%86%D8%A7%D9%88%D8%B1%DB%8C>

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Kerman 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**

Kerman University of Medical Sciences

Full name of responsible person

Mohsen Absalan

Position

Orthopedic surgery residency

Latest degree

Medical doctor

Other areas of specialty/work

Orthopedics

Street address

Shahid Bahonar hospital, Gharani ST

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Province

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Postal code

7613747181

Phone

+98 34 3223 5011

Email

mohsenabsalan56@gmail.com

Person responsible for scientific inquiries

Contact**Name of organization / entity**

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Full name of responsible person

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Person responsible for updating data

Contact

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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 of data is shared after coding.

When the data will become available and for how long

6 months after results publication

To whom data/document is available

Academic researchers

Under which criteria data/document could be used

The data will be sent to further research for better treatment.

From where data/document is obtainable

Sending of formal request to Mohsen Absalan

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

Get a license from the supervisor

Comments