

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jun 2026

Evaluation of clinical results of latissimus dorsi tendon transfer to humeral head for irreparable massive rotator cuff tear

Protocol summary

Study aim

Evaluation of clinical results of latissimus dorsi tendon transfer to humeral head for irreparable massive rotator cuff tear

Design

This study is clinical trial is before and after. A total of 25 patients with extensive and irreparable rupture of the rotator cuff are enrolled.

Settings and conduct

The study is clinical trial is before and after. A total of 25 patients with extensive and irreparable rupture of the rotator cuff are enrolled. This study is clinical trial. Outcome evaluator and analyzer are blind. Outcome evaluator and analyzer don't aware from grouping.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Age less than 70 years, absence of osteoarthritis of the shoulder joint, patients with irreversible anterior or posterior superior rupture, extensive and irreparable rupture of the rotator cuff

Exclusion criteria: Dissatisfaction

Intervention groups

All patients undergo shoulder surgery and transfer of the latissimus dorsi tendon to the humerus.

Main outcome variables

Shoulder rise from the front, external shoulder rotation, internal shoulder rotation, pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20141209020258N152**

Registration date: **2021-02-27, 1399/12/09**

Registration timing: **registered_while_recruiting**

Last update: **2021-02-27, 1399/12/09**

Update count: **0**

Registration date

2021-02-27, 1399/12/09

Registrant information

Name

Fariba Farokhi

Name of organization / entity

Arak University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 86 3222 2003

Email address

f.farokhi@arakmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-07-31, 1399/05/10

Expected recruitment end date

2021-08-01, 1400/05/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of clinical results of latissimus dorsi tendon transfer to humeral head for irreparable massive rotator cuff tear

Public title

Evaluation of clinical results of latissimus dorsi tendon transfer to humeral head for irreparable massive rotator cuff tear

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Age less than 70 years
Absence of osteoarthritis of the shoulder joint
Patients with irreversible anthrosoprior or posterior superior rupture
Extensive and irreparable rupture of the rotator cuff

Exclusion criteria:

Dissatisfaction

Age

To 70 years old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 25

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 Committe Hamedan University Of Medical Sciences

Street address

Research Center,The beginning of Ayatollah Kashani Boulevard, Shariati Crossroad., Hamadan

City

Hamedan

Province

Hamadan

Postal code

65176-19657

Approval date

2020-07-25, 1399/05/04

Ethics committee reference number

lr.umsha.rec.1399.411

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

irreparable massive rotator cuff tear

ICD-10 code

M75.1

ICD-10 code description

Rotator cuff tear or rupture, not specified as traumatic

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

Shoulder rise from the front

Timepoint

3 and 6 months after surgery

Method of measurement

Oblique

2**Description**

External shoulder rotation

Timepoint

3 and 6 months after surgery

Method of measurement

Oblique

3**Description**

Internal shoulder rotation

Timepoint

3 and 6 months after surgery

Method of measurement

Observation

4**Description**

Pain

Timepoint

3 and 6 months after surgery

Method of measurement

Constant-Murley Shoulder Outcome Score

Secondary outcomes

empty

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

Intervention group: All patients undergo shoulder surgery and transfer of the latissimus dorsi tendon to the humerus. In a semi-sitting position under general anesthesia with a lattice dorsopectomy approach, the dorsum shaft is detached from the front of the head to a small tuberosity with a 5-strand thread. It is then stretched. Abduction braces are taken.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Besat Hospital

Full name of responsible person

Dr Hossein Saremi

Street address

Research Center, The beginning of Ayatollah Kashani
Boulevard, Shariati Crossroad., Hamadan

City

Hamedan

Province

Hamadan

Postal code

65176-19657

Phone

+98 81 3252 0182

Email

hosseinsaremi.shoulder@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Vice President for Research and Technology

Street address

Research Center, The beginning of Ayatollah Kashani
Boulevard, Shariati Crossroad., Hamadan

City

Hamedan

Province

Hamadan

Postal code

65176-19657

Phone

+98 81 3252 0182

Email

hosseinsaremi.shoulder@gmail.com

Web page address

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Hamedan 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

Hamedan University of Medical Sciences

Full name of responsible person

Hossein Saremi

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

Orthopedics

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The beginning of Ayatollah Kashani Boulevard,
Shariati Crossroad., Hamadan

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Hamadan

Postal code

65176-19657

Phone

+98 81 3252 0182

Email

hosseinsaremi.shoulder@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Hossein Saremi

Position

Associate professor

Latest degree

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Other areas of specialty/work

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65176-19657

Phone

+98 81 3252 0182

Email

hosseinsaremi.shoulder@gmail.com

Person responsible for updating data

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Mohammad Amini

Position

medicine student

Latest degree

Medical doctor

Other areas of specialty/work

General Practitioner

Street address

The beginning of Ayatollah Kashani Boulevard,
Shariati Crossroad., Hamadan

City

Arak

Province

Hamadan

Postal code

65176-19657

Phone

+98 81 3252 0182

Fax

+98 81 3252 0182

Email

hosseinsaremi.shoulder@gmail.com

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