

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jul 2026

Effect of 25 and 100 mg spironolactone on quality of life, ejection fraction and readmission in systolic heart failure patients with reduced ejection fraction in Imam Khomeini hospital in Ahvaz

Protocol summary

Study aim

Effect of 25 and 100 mg spironolactone on quality of life, ejection fraction and readmission in systolic heart failure patients with reduced ejection fraction in Imam Khomeini hospital in Ahvaz

Design

Clinical trial, parallel group trial with blinded, randomised outcome assessment, a phase 3 trial on 94 patients

Settings and conduct

The aim of the present study was to evaluate the effect of 25 and 100 mg spironolactone on quality of life, ejection fraction and readmission in systolic heart failure patients with reduced ejection fraction referred to Imam Khomeini Hospital in Ahvaz. Therapeutic effectiveness is measured by echocardiography, Minnesota Questionnaire and 6-MIN Walk test. This triple blind clinical trial is based on the protocol in which neither the participants, nor the researcher nor the data analyzer knows which treatment nor intervention participants are receiving until the clinical trial is over.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Acute systolic heart failure (EF <40) A history of hospitalization in the last 6 months Exclusion criteria: Known contraindications for spironolactone or prior documented intolerance to an aldosterone receptor antagonist Significant laboratory abnormalities (potassium \geq 5.1 mmol) Mental disorders suspected to interact with study outcome Pregnant or nursing women Significant renal dysfunction Significant hypotension (lower than 90 mm Hg systolic or 60 mm Hg diastolic) CRT or ICD

Intervention groups

1- 25 mg spironolactone group daily for 6 months 2- 100 mg spironolactone group daily for 6 months

Main outcome variables

Quality of life; Ejection fraction; Readmission

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220404054403N1**

Registration date: **2022-05-30, 1401/03/09**

Registration timing: **prospective**

Last update: **2022-05-30, 1401/03/09**

Update count: **0**

Registration date

2022-05-30, 1401/03/09

Registrant information

Name

hossein lalvand

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3222 8037

Email address

hosseinlalvand69@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-07-02, 1401/04/11

Expected recruitment end date

2022-10-08, 1401/07/16

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of 25 and 100 mg spironolactone on quality of life, ejection fraction and readmission in systolic heart failure patients with reduced ejection fraction in Imam Khomeini hospital in Ahvaz

Public title

Effect of 25 and 100 mg spironolactone on quality of life, ejection fraction and readmission in systolic heart failure patients with reduced ejection fraction

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Acute systolic heart failure (EF <40) A history of hospitalization in the last 6 months

Exclusion criteria:

Known contraindications for spironolactone or prior documented intolerance to an aldosterone receptor antagonist Significant laboratory abnormalities (potassium \geq 5.1 mmol) Mental disorders suspected to interact with study outcome Pregnant or nursing women Significant renal dysfunction Significant hypotension (lower than 90 mm Hg systolic or 60 mm Hg diastolic) CRT or ICD

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator
- Data analyser

Sample size

Target sample size: **94**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple, individual randomization with table of random numbers. Permuted randomization, Triple blind

Blinding (investigator's opinion)

Triple blinded

Blinding description

Blinding is based on the protocol in in which neither the participants, nor researcher nor the data analyzer knows which treatment or intervention participants are receiving until the clinical trial is over.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Golestan hospital

Street address

Farvardin Ave., Ahvaz., Iran

City

Ahvaz

Province

Khuzestan

Postal code

6135715794

Approval date

2022-03-08, 1400/12/17

Ethics committee reference number

IR.AJUMS.HGOLESTAN.REC.1401.003

Health conditions studied

1

Description of health condition studied

Systolic heart failure

ICD-10 code

I50.2

ICD-10 code description

Systolic (congestive) heart failure

Primary outcomes

1

Description

Ejection fraction

Timepoint

Before the intervention and 6 months after drug administration

Method of measurement

Echocardiography

2

Description

Quality of life

Timepoint

Before the intervention and 6 months after drug administration

Method of measurement

Minnesota Questionnaire

3

Description

Readmission

Timepoint

Before the intervention and 6 months after drug administration

Method of measurement

6 MIN Walk test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: 25 mg spironolactone group daily for 6 months

Category

Treatment - Drugs

2

Description

Intervention group: 100 mg spironolactone group daily for 6 months

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini hospital

Full name of responsible person

Hossein Lalvand

Street address

Azadegan Ave., Ahvaz., Iran

City

Ahvaz

Province

Khouzestan

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6193673166

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2

Recruitment center

Name of recruitment center

Golestan hospital

Full name of responsible person

Hossein Lalvand

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golestanjpspital@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Deputy of research and technology

Street address

Esfand Ave., Golestan Blvd., Ahvaz., Iran

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Khouzestan

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+98 61 3336 2414

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itc@ajums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ahvaz 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

Ahvaz University of Medical Sciences

Full name of responsible person

Hossein Lalvand

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Cardiology

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Hossein Lalvand

Position

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Latest degree

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Other areas of specialty/work

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Person responsible for updating data

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Email

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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