

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effects of growth hormone (GH) on the results of echocardiography in patients with heart failure (HF) four weeks after myocardial infarction (MI)

Protocol summary

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Summary

The aim of this study is to assess the effects of growth hormone on echocardiographic findings in 32 patients with heart failure, 4 weeks after myocardial infarction (MI). These patients after going through different stages and checking out inclusion criteria, will be divided into two groups of 16. One group for three months, every other day, and each patient will receive 5.0 mg of growth hormone and the second group received placebo in the same way. Echocardiography was undertaken three months later and was repeated again after three month. Then collected data will be analyzed by SPSS software.

Recruitment status

Recruitment complete

Funding source

Governmental

Expected recruitment start date

2017-01-20, 1395/11/01

Expected recruitment end date

2017-04-21, 1396/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201704083035N1**

Registration date: **2017-07-05, 1396/04/14**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-07-05, 1396/04/14

Registrant information

Name

Masoumeh Sadeghi

Name of organization / entity

Cardiovascular Research Institute, Isfahan University of Medical Sciences

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Email address

Scientific title

The effects of growth hormone (GH) on the results of echocardiography in patients with heart failure (HF) four weeks after myocardial infarction (MI)

Public title

The effects of growth hormone (GH) on the results of echocardiography in patients with heart failure (HF) four weeks after myocardial infarction (MI)

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Male; first-time MI; Ejection Fraction (EF) < 45% at discharge. Exclusion criteria: Patients with insulin-dependent diabetes mellitus (IDDM); Failure to control blood pressure (BP) in patients within 4 weeks after discharge from hospital; History of pulmonary disease other than asthma; Known chronic hepatic disease; Cr $\geq$ 2.5 or GFR $\leq$ 60; Systemic disease of all types; History of active infection or intake of antibiotics after discharge from hospital; HIV positive; Intake of corticosteroids within the last 4 weeks; Regularly intake

of alcohol within 4 weeks after discharge. 11. Any history or evidence from examination for malignant condition 12. Any history indicating malignant condition in patient or his/her first degree relatives 13. Any blood problems (even iron deficiency or anemia) 14. Any skeletal (bone) problems (except osteoporosis) 15. any history of peripheral vascular disease (PVD) 16. Any evidence of severe (Aortic) Valve Stenosis or heart valve failure 17. Any severe valve failure 18. Moderate and severe ventricular hypertrophy 19. Any type of heart block 20. Retinopathy for any reason 21. Any type of thyroid disorder

Age

From **40 years** old to **70 years** old

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **32**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

1

Registry name

-

Secondary trial Id

-

Registration date

empty

2

Registry name

-

Secondary trial Id

-

Registration date

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Isfahan University of Medical

Sciences

Street address

Isfahan University of Medical Sciences, Hezarjereb Ave, Isfahan, Iran

City

Isfahan

Postal code

Approval date

2016-09-22, 1395/07/01

Ethics committee reference number

IR.MUI.REC.1395.8.74

Health conditions studied

1

Description of health condition studied

Heart failure

ICD-10 code

I20-I25

ICD-10 code description

I24.8

Primary outcomes

1

Description

Ejection Fraction (EF)

Timepoint

Immediately after injection, and three months later

Method of measurement

3-Dimentional Echocardiography

2

Description

Ventricular septum and left ventricular wall thickness

Timepoint

Immediately after injection, and three months later

Method of measurement

2-Dimentional Echocardiography

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: Receiving growth hormone a dose of 5 mg, every other day for 3 months through subcutaneous injection

Category

Treatment - Drugs

2

Description

Control group : Receiving placebo

Category

Placebo

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

Shahid Chamran Heart hospital

Full name of responsible person

Masoumeh Sadeghi MD

Street address

Moshtagh sevom Ave, Shahid Chamran Heart hospital

City

Isfahan

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**Vice chancellor for research, School of Medicine,
Isfahan University of Medical Sciences**Full name of responsible person**

Behzad Yavari MD

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

Yes

Title of funding sourceVice chancellor for research, School of Medicine, Isfahan
University of Medical Sciences**Proportion provided by this source**

100

Public or private sector*empty***Domestic or foreign origin***empty***Category of foreign source of funding***empty***Country of origin****Type of organization providing the funding***empty***Person responsible for general inquiries****Contact****Name of organization / entity**

Isfahan Cardiovascular Research Institute

Full name of responsible person

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty