Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Comparative Survey of Left Ventricular Diastolic Function in CAD Patients Before and After PCI

Protocol summary

Summary

The aim of this study is to evaluate the effect of percutaneous coronary intervention (PCI) on diastolic function in patients with known coronary artery disease (CAD). 51 patients who have been candidates for PCI because of CAD; with left ventricular ejection fraction>30% and any degree of diastolic dysfunction (grade 1-4) and no left ventricular hypertrophy (LVH), uncontrolled hypertension (resting blood pressure>140/90 mm hg), Atrial fibrillation rhythm, hypertrophic cardiomyopathy, elevated Cr level, bundle branch or complete heart block, severe ventricular arrhythmias, severe valvular heart diseases, cardiac pacemakers and or prior coronary artery bypass graft surgery; preexamined by transthoracic echocardiography and diastolic indexes such as Isovolumic relaxation time (IVRT); Deceleration Time (DT); Transmitral flow velocity with atrial contraction duration/Flow from left atrium to pulmonary veins during atrial contraction duration (Mitral A duration/Pulmonary veins A duration); Early diastolic transmitral flow velocity/Velocity of early diastolic mitral annular motion(E/Ea); Pulmonary veins systolic flow/Pulmonary veins diastolic flow (PVs/PVd); Early diastolic transmitral flow velocity/Transmitral flow velocity with atrial contraction (E/A) were measured. Then patients underwent PCI. The diastolic indexes were reevaluated and recorded in forms three months after PCI and analyzed by statistic methods.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111238182N1**
Registration date: **2011-12-01, 1390/09/10**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2011-12-01, 1390/09/10

Registrant information

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Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences, Vice-chancellor for Research and technology

Expected recruitment start date

2011-11-16, 1390/08/25

Expected recruitment end date

2012-04-13, 1391/01/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative Survey of Left Ventricular Diastolic Function in CAD Patients Before and After PCI

Public title

The Efficacy Of percutaneous coronary intervention (PCI) on diastolic function in patients with coronary artery disease.

Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria: Pre PCI known CAD patients with any degree of diastolic dysfunction (grade 1 to 4) and LVEF>30% by echocardiography. Exclusion criteria: left ventricular hypertrophy (LVH) , uncontrolled hypertension (resting blood pressure>140/90 mm hg), Atrial fibrillation rhythm, hypertrophic cardiomyopathy, elevated Cr level, bundle branch or complete heart block, severe ventricular arrhythmias, severe valvular heart diseases, cardiac pacemakers and prior coronary artery bypass graft surgery
Age
No age limit
Gender
Both

Phase
0
Groups that have been masked
No information
Sample size
Target sample size: **51**
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
Kermanshah university of medical sciences and health services
Street address
Shahid Beheshti blvd
City
Kermanshah
Postal code
Approval date
2011-11-12, 1390/08/21
Ethics committee reference number
40236

Health conditions studied

1

Description of health condition studied
Heart diastolic dysfunction
ICD-10 code
I30-I52
ICD-10 code description
Other forms of heart disease

Primary outcomes

1

Description
Grade of diastolic dysfunction
Timepoint
before and three months after PCI
Method of measurement
By echocardiography

2

Description
DT
Timepoint
Before and three months after PCI
Method of measurement
By echocardiography

3

Description
IVRT
Timepoint
Before and three months after PCI
Method of measurement
By echocardiography

4

Description
E/A
Timepoint
Before and three months after PCI
Method of measurement
By echocardiography

5

Description
Mitral A duration /PVa duration
Timepoint
Before and three months after PCI
Method of measurement
By echocardiography

6

Description
PVs/PVd
Timepoint
Before and three months after PCI
Method of measurement

By echocardiography

7

Description
E/Ea
Timepoint
Before and three months after PCI
Method of measurement
By echocardiography

Secondary outcomes

1

Description
LVEF
Timepoint
Before And Three months after PCI
Method of measurement
By echocardiography

Intervention groups

1

Description
Percutaneous coronary intervention
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Imam Ali hospital
Full name of responsible person
Sayyid Mokhtar Javdan Nezhad
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Kermanshah university of medical sciences and health services
Full name of responsible person
Dr. Farid Najafi
Street address
Shahid beheshti blvd, Kermanshah university of medical sciences and health services
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Kermanshah
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice chancellor for research, Kermanshah university of medical sciences and health services
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

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Person responsible for updating data

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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