

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The effect of local heat therapy on chest pain in patients with acute coronary syndrome

Protocol summary

Summary

The purpose of this study is to investigate the effect of local heat therapy on chest pain and cardiovascular function. Inclusion criteria are the existence of absolute diagnosis of acute coronary syndrome by the specialist physician and having a stable physiological condition for answering to the questions. Exclusion criterion is any type of clinical condition that requires a special diagnosis and treatment that makes local heat therapy impossible for the patient. The population is the patients with acute coronary syndrome who have referred to Gonabad 22 Bahman Hospital. The sample size is 140 patients (70 patients in the control group and 70 patients in intervention group). In the intervention group, local heat therapy with the temperature of 50°C for 23 minutes in the left anterior chest, two times a day for 2 days is used and during this period, the effect of local heat therapy will be measured on chest pain.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013033112878N1**

Registration date: **2013-05-01, 1392/02/11**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-05-01, 1392/02/11

Registrant information

Name

Batol Mohammadian

Name of organization / entity

Gonabad University of Medical Sciences

Country

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Phone

+98 53 3725 4435

Email address

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Recruitment status

Recruitment complete

Funding source

Gonabad University of Medical Sciences

Expected recruitment start date

2013-04-30, 1392/02/10

Expected recruitment end date

2013-07-23, 1392/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of local heat therapy on chest pain in patients with acute coronary syndrome

Public title

The effect of local heat therapy on chest pain

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: The existence of absolute diagnosis of acute coronary syndrome by the specialist physician, having a stable physiological condition for answering to questions, age range from 18 to 100, non addiction to alcohol and narcotics, having no diabet or musculoskeletal disease of chest or digestive diseases at the time of the disease, non-existence of inflammation, wound, scratching and redness in the area of chest. Exclusion criteria: Lack of tendency to participate in the study, worsening the patients condition and lack of a stable condition for answering the questions and every type of

clinical condition that requires a special diagnosis and treatment that local heat therapy for the patient be impossible.

Age

From **18 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **140**

Randomization (investigator's opinion)

Randomized

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 Gonabad University of Medical Sciences

Street address

Gonabad University of Medical Sciences

City

Gonabad

Postal code

Approval date

2013-03-03, 1391/12/13

Ethics committee reference number

91/5/6/ک الف

Health conditions studied

1

Description of health condition studied

Acute coronary syndrom

ICD-10 code

I20-I25

ICD-10 code description

Ischaemic heart diseases

Primary outcomes

1

Description

chest pain

Timepoint

Before and after intervention

Method of measurement

McGill pain questionnaire

Secondary outcomes

1

Description

Heart rate

Timepoint

Before and after intervention

Method of measurement

Heart rate (beats/min) will be measured with cardiac monitor

2

Description

Systolic pressure

Timepoint

Before and after intervention

Method of measurement

Systolic pressure (mmhg) will be measured with cardiac monitor

3

Description

Diastolic pressure

Timepoint

Before and after intervention

Method of measurement

Diastolic pressure (mmhg) will be measured with cardiac monitor

Intervention groups

1

Description

Intervention group: local heat therapy left anterior chest with hot pack with the temperature of 50°C for 23 min two times a day for 2 days.

Category

Other

2

Description

control group: without intervention

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

22 Bahman Hospital of Gonabad

Full name of responsible person

Dr. Mahmod Nematollahi

Street address

22 Bahman Hospital, Naserkhosro Street, Gonabad,
Iran

City

Gonabad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Gonabad University of Medical Sciences

Full name of responsible person

Dr. Shahla Khosravan

Street address

Gonabad University of Medical Sciences, Next to the
Asian Road, Gonabad, Iran

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Gonabad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Gonabad 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

Gonabad University of Medical Sciences

Full name of responsible person

Mahdi Basiri

Position

Instructor, Gonabad University of Medical Sciences,
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Person responsible for scientific inquiries

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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