

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Jun 2026

The effect of web-based education on self-care in cardiovascular patients undergoing angioplasty treatment after discharge planning implementation: application of Health Promotion Model

Protocol summary

Summary

The purpose of this study: Determine the effect of a web-based education based on Health Promotion Model constructs on self-care behaviors of cardiovascular patients undergoing angioplasty treatment after discharge implementation. Inclusion criteria: over 18 years and less than 70 years old, having coronary artery disease and being in the first-degree angioplasty treatment (angina, acute coronary syndrome, myocardial infarction), not having a recommended special diet, no need for surgery, and access to the internet. Exclusion criteria: developing new physical problems, unwillingness to continue participation in the study at any time, not viewing the web-based educational content. This study is a randomized control trial on 152 patient (76 patient in the web-based group and 76 patient in the control group). The intervention group will receive a web-based education based on Health Promotion Model constructs and in control group patients receive routine training of the ward. Participants in both groups will complete questionnaires included demographic, health promotion model constructs (perceived benefits and barriers, perceived self-efficacy, perceived social support) awareness and self-care, before starting education. Two weeks after training and 3 months after the end of the program, both groups will be questioned and the results will be compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017080635429N2**
Registration date: **2017-09-03, 1396/06/12**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-09-03, 1396/06/12

Registrant information

Name

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Name of organization / entity

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Country

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Recruitment status

Recruitment complete

Funding source

Bushehr University of Medical Sciences

Expected recruitment start date

2017-08-23, 1396/06/01

Expected recruitment end date

2017-12-22, 1396/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of web-based education on self-care in cardiovascular patients undergoing angioplasty treatment after discharge planning implementation: application of Health Promotion Model

Public title

effect of web-based education on self-care in

cardiovascular patients undergoing angioplasty treatment

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: over 18 years and less than 70 years old: having coronary artery disease and being in the first-degree angioplasty treatment (angina, acute coronary syndrome, myocardial infarction): not having cognitive problems based on medical records: not participating in another self-care program: a specific diet for the patient is not recommended : left ventricular drainage fraction $40\% \geq$: no need for surgery and access to the internet. Exclusion criteria: developing new physical problems: unwillingness to continue participation in the study at any time: not seeing web-based educational content.

Age

From **78 years** old to **27 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **152**

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 Bushehr University of Medical Sciences

Street address

Salman Farsi Street, Bahmani, Bushehr, Iran

City

Bushehr

Postal code

Approval date

2017-07-17, 1396/04/26

Ethics committee reference number

IR.BPUMS.REC.1396.56

Health conditions studied

1

Description of health condition studied

Cardiovascular patients undergoing angioplasty

ICD-10 code

Z95.5

ICD-10 code description

Presence of coronary angioplasty implant and graft

Primary outcomes

1

Description

Self-care behaviors

Timepoint

Before the intervention, two week after the intervention and 3 months after intervention

Method of measurement

Self-care behaviors questionnaire (researcher provided)

Secondary outcomes

1

Description

Awareness

Timepoint

Before the intervention, two week after the intervention and 3 months after intervention

Method of measurement

Questionnaire awareness (researcher provided)

2

Description

Perceived benefits

Timepoint

Before the intervention, two week after the intervention and 3 months after intervention

Method of measurement

Perceived benefits questionnaire (researcher provided)

3

Description

Perceived barriers

Timepoint

Before the intervention, two week after the intervention and 3 months after intervention

Method of measurement

Perceived barriers questionnaire (researcher provided)

4

Description

Perceived Self-efficacy

Timepoint

Before the intervention, two week after the intervention and 3 months after intervention

Method of measurement

Perceived Self-efficacy questionnaire (researcher provided)

5

Description

Perceived social support

Timepoint

Before the intervention, two week after the intervention and 3 months after intervention

Method of measurement

Perceived social support questionnaire (researcher provided)

Intervention groups

1

Description

Intervention group: In the intervention group, at first, a how to use website guidance pamphlet and a card containing username and password to login the website will be given. in the next step, patients could watch the Health Promotion Model constructs-based training course on the website in a two week period. In addition, at the end of the training program up to 3 months after, will receive reminder messages to encourage to view the educational content uploaded on the website once a week via SMS. Evaluating will be done through questionnaire before the intervention, two weeks and 3 months after intervention.

Category

Lifestyle

2

Description

Control group: the control group patients receive routine training of the ward. Evaluating will be done through questionnaire before the intervention, two weeks and 3 months after the end of the intervention. After doing the final measurement, participants in the control group will receive a Website's pamphlet guidance and a card containing username and password to view educational content.

Category

Lifestyle

Recruitment centers

1

Recruitment center

Name of recruitment center

Heart Therapeutic Center Hospital

Full name of responsible person

Dr Farhad Abbasi

Street address

Iran, Bushehr Province, Bushehr, Dadgosteri Crossroads, Heart Center Hospital.

City

Bushehr

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy of research of Bushehr University of Medical Sciences

Full name of responsible person

Dr. Gholamreza khamisipour

Street address

Iran, Bushehr Province, Bushehr, Bahmani, Salman Farsi st, Bushehr University of Medical Sciences.

City

Bushehr

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Deputy of research of Bushehr 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

Bushehr University of Medical Sciences

Full name of responsible person

Homamodin Javadzadeh

Position

Assistant Professor / PhD

Other areas of specialty/work

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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