

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

13 Jun 2026

### The Effect of Distribution of Educational Materials via Electronic Method on the Price of Services, Usability and Information Satisfaction of Patients with Coronary Artery Disease

#### Protocol summary

##### Study aim

Determining The Effect of Distribution of Educational Materials via Electronic Method on the Price of Services, Usability and Information Satisfaction of Patients with Coronary Artery Disease

##### Design

Phase II feasibility study in a two-group interventional study with post-test design. Sampling will be done in a convenient manner and then samples will be divided into two groups by block allocation

##### Settings and conduct

CAD patients hospitalized in the heart department and patients referred to the health education clinic of Ghaem hospital in Mashhad

##### Participants/Inclusion and exclusion criteria

Informed Consent to participate in the study At least the reading and writing skills Aged 18-60 Having spoken, audible, visual and cognitive health and having a smart phone (the patient or their primary caregiver) Admitted to the heart section for at least 24 hours Stable hemodynamic status (patients who do not have an Indication for hemodynamic monitoring due to cardiac-respiratory instability)

##### Intervention groups

Educational materials including photos, animated pictures, written explanations and spoken explanations, electronically and via Wi-Fi, will be provided to the intervention group in the hospital at the time of admission for at least 24 hours and will be in an outpatient clinic. The educational content is identical with the intervention group in the form of a pamphlet to the supervisor of the educational hospital to provide the units of research in the control group at the time of admission for at least 24 hours and to be in the clinic as an outpatient

##### Main outcome variables

Price of Services Usability Information Satisfaction

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20180903040938N1**

Registration date: **2018-10-31, 1397/08/09**

Registration timing: **prospective**

Last update: **2018-10-31, 1397/08/09**

Update count: **0**

##### Registration date

2018-10-31, 1397/08/09

##### Registrant information

##### Name

Fahimeh Nikraftar

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 51 3859 1511

##### Email address

nikraftarf961@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2018-12-22, 1397/10/01

##### Expected recruitment end date

2019-03-21, 1398/01/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

## Scientific title

The Effect of Distribution of Educational Materials via Electronic Method on the Price of Services, Usability and Information Satisfaction of Patients with Coronary Artery Disease

## Public title

The Effect of Distribution of Educational Materials via Electronic Method with coronary artery disease

## Purpose

Education/Guidance

## Inclusion/Exclusion criteria

### Inclusion criteria:

Informed consent to participate in the study At least the reading and writing skills Aged 18-60 Having spoken, audible, visual and cognitive health and having a smart phone (the patient or his primary caregiver) Admitted to the heart section for at least 24 hours

### Exclusion criteria:

Unstable hemodynamic status (Patients who have monitoring indication due to instability of hemodynamic status)

## Age

From **18 years** old to **60 years** old

## Gender

Both

## Phase

N/A

## Groups that have been masked

*No information*

## Sample size

Target sample size: **104**

## Randomization (investigator's opinion)

Randomized

## Randomization description

Randomization method: time blocking Randomization tool: SPSS statistical software

## 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

کمیته اخلاق دانشگاه علوم پزشکی مشهد

##### Street address

خیابان دانشگاه، چهارراه دکتر، خیابان ابن سینا، دانشکده پرستاری و مامایی

##### City

mashhad

## Province

Razavi Khorasan

## Postal code

9137913199

## Approval date

2017-10-06, 1396/07/14

## Ethics committee reference number

IR.MUMS.NURSE.REC.1397.045

## Health conditions studied

### 1

#### Description of health condition studied

Coronary artery disease

#### ICD-10 code

I20-I25

#### ICD-10 code description

Disease of circulatory system : Ischemic Heart Disease

## Primary outcomes

### 1

#### Description

The cost of educational services provided to patients with coronary artery disease

#### Timepoint

During the intervention

#### Method of measurement

Researcher checklist

### 2

#### Description

The Usability by Patients with Coronary Artery Disease

#### Timepoint

24 hours after receiving educational materials

#### Method of measurement

Brooke's System Usability Scale (1996)

### 3

#### Description

Satisfaction with the information received in patients with coronary artery disease

#### Timepoint

24 hours after receiving educational materials

#### Method of measurement

Thomas & Associates Information Satisfaction Questionnaire (2004)

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: Educational materials including

photos, animated pictures, written explanations and spoken explanations, electronically and via Wi-Fi, will be provided to the intervention group in the hospital at the time of admission for at least 24 hours and will be in an outpatient clinic.

**Category**

Other

**2****Description**

Control group: The educational content is identical with the intervention group in the form of a pamphlet to the supervisor of the educational hospital to provide the units of research in the control group at the time of admission for at least 24 hours and to be in the clinic as an outpatient

**Category**

Other

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

Ghaem Hospital in Mashhad

**Full name of responsible person**

Fahimeh Nikraftar

**Street address**

Mashhad, Dr Ali Shariati Square, Beginning of Ahmadabad Street

**City**

Mashhad

**Province**

Razavi Khorasan

**Postal code**

99199-91766

**Phone**

+98 51 3840 0000

**Email**

nikraftarf961@mums.ac.ir

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

فاطمه حشمتی نبوی

**Street address**

مشهد، خیابان ابن سینا، دانشکده پرستاری و مامایی

**City**

Mashhad

**Province**

Razavi Khorasan

**Postal code**

9137913199

**Phone**

+98 51 1853 9775

**Email**

heshmatinf@mums.ac.ir

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

Yes

**Title of funding source**

Mashhad 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**

Mashhad University of Medical Sciences

**Full name of responsible person**

Fahimeh Nikraftar

**Position**

Masters student of Medical-Surgical Nursing

**Latest degree**

Bachelor

**Other areas of specialty/work**

Nursery

**Street address**

Ibn Sina Street, Faculty of Nursing and Midwifery, Mashhad

**City**

Mashhad

**Province**

Razavi Khorasan

**Postal code**

9137913199

**Phone**

+98 51 3859 1511

**Fax****Email**

nikraftarf961@mums.ac.ir

**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Fatemeh Heshmati Nabavi

**Position**

استادیار

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Nursery  
**Street address**  
Ibn Sina Street, Faculty of Nursing and Midwifery,  
Mashhad  
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Mashhad  
**Province**  
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+98 51 1853 9775  
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heshmatinf@mums.ac.ir

## Person responsible for updating data

**Contact**  
**Name of organization / entity**  
Mashhad University of Medical Sciences  
**Full name of responsible person**  
Fahimeh Nikraftar  
**Position**  
Masters student of Medical-Surgical Nursing  
**Latest degree**  
Bachelor  
**Other areas of specialty/work**  
Nursery  
**Street address**  
Ebne- Sina Street, Faculty of Nursing and Midwifery,  
Mashad, Iran  
**City**  
Mashhad  
**Province**  
Razavi Khorasan  
**Postal code**  
9137913199  
**Phone**  
+98 51 3859 1511  
**Email**  
nikraftarf961@mums.ac.ir

## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

Yes - There is 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

### Title and more details about the data/document

The total potential data can be shared after unidentifiable people

### When the data will become available and for how long

Start the access period 6 months after printing the results

### To whom data/document is available

Only for researchers working in academic and scientific institutions

### Under which criteria data/document could be used

Health Centers

### From where data/document is obtainable

Faculty of Nursing and Midwifery of Mashhad

### What processes are involved for a request to access data/document

Immediately by visiting the Faculty of Nursing and Midwifery Faculty of Mashhad

### Comments