Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

The effect of multi-modal education on anxiety in patients undergoing coronary angiography

Protocol summary

Summary

The aim of this study is to determine the effect of multi-modal education on anxiety in patients undergoing coronary angiography. This study is double-blind clinical trial with a sample size of 120 patients undergoing coronary angiography referred to educational and treatment centers in Urmia, which were selected by a convenience sampling method and are divided into one of three intervention groups (30) or control group (30). Random assignment of subjects will be, through the 120 number written on a small slip of paper located within an envelope and Specified that number between 1-30 to the control group, 31-60 to the peer education, 61-90 to the video education group, 91-120 to multi-modal education group is assigned. The day before angiography after informed consent by patients and a random selection of numbers in the envelope and allocation of patients to the target group, spielberger anxiety questionnaire and demographic characteristics will be completed. In a Peer education group, the experiences of two people who have been angiography at the center is used to reduce patients anxiety. In video-traning group educational videos of real environment angiography of the center is displayed. In multi-modal education group Measures taken in both video and peer education will be provided. The control group will be received standard measures. On the morning of angiography anxiety of patients are assessed in intervention and control groups. Data will be analyzed by statistical tests.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016072429052N1**
Registration date: **2016-09-14, 1395/06/24**
Registration timing: **retrospective**
Last update:
Update count: **0**

Registration date

2016-09-14, 1395/06/24

Registrant information

Name
Zahra Dalayi Milan
Name of organization / entity
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Recruitment status

Recruitment complete

Funding source

The Office of the Vice Chancellor for Research, Urmia University of Medical Sciences

Expected recruitment start date

2016-05-04, 1395/02/15

Expected recruitment end date

2016-09-05, 1395/06/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of multi-modal education on anxiety in patients undergoing coronary angiography

Public title

The effect of multi-modal education on anxiety in patients undergoing angiography

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: Age between 18-80 years; Can read and right; Not be healthcare provider; Lack of Previous angiography; Lack of Participation in the previous similar research project; Lack of mental illness and chronic physical and cognitive disorders; hearing and vision; Lack of using drugs and psychotropic substances; Lack of experience stressful events except current disease during the last 3 months. Exclusion criteria: Reception anti-anxiety medication over a week ago.

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Blinding of study this means that, Both patients as well as researcher from which patients will be assigned to which group do not have any information.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Urmia University of Medical Sciences

Street address

Emergency district, Resalat Blvd, Urmia

City

Urmia

Postal code

5714783734

Approval date

2016-05-04, 1395/02/15

Ethics committee reference number

IR.umsu.rec.1395.21

Health conditions studied

1

Description of health condition studied

anxiety

ICD-10 code

F06.4

ICD-10 code description

A disorder characterized by the essential descriptive features of a generalized anxiety disorder (F41.1), a panic disorder (F41.0), or a combination of both, but arising as a consequence of an organic disorder

Primary outcomes

1

Description

Anxiety

Timepoint

before and after intervention

Method of measurement

Spielberger State anxiety inventory

Secondary outcomes

empty

Intervention groups

1

Description

Multi-modal education: This program includes actions on both video and peer education that compilation is two 30-minute session in evening shift of the day before angiography is done in the hospital. In the first step video education offered, after taking 15 minutes rest, the second meeting of the peer education will be conducted under the supervision and coordination of the researcher.

Category

Behavior

2

Description

Peer education: This program is a 30-minute session in evening shift of the day before angiography is done in the hospital. Two people who have recently been at the center angiography and have a positive experience of this effort, after receiving the necessary training, about their feelings and experiences in the period before, during and after coronary angiography talk with 4-6-member groups of patients in order to reduce their anxiety.

Category

Behavior

3

Description

Video education: This program is a 30-minute session in evening shift of the day before angiography is done in

the hospital. Educational video about actions before, during and after coronary angiography for 5 minutes and films made from the actual environment of the center for 15 minutes will be presented for patients.

Category

Behavior

4

Description

Control group: Routine training will be conducted in the control group

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Ayatollah Taleghani Hospital

Full name of responsible person

Iraj Mohebi

Street address

Ayatollah Taleghani hospital, Opposite the Takhti sports complex, Kashani street, Urmia

City

Urmia

2

Recruitment center

Name of recruitment center

Seyedolshohada Hospital

Full name of responsible person

Iraj Mohebi

Street address

Seyedolshohada Hospital,17 Shahrivar Blvd, Urmia.

City

urmia

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Urmia University of Medical Sciences

Full name of responsible person

Iraj Mohebi

Street address

Emergency district, Resalat Blvd, Urmia.

City

Urmia

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, Urmia 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

Urmia University of Medical Sciences

Full name of responsible person

Iraj Mohebi

Position

Associate professor, Vice chancellor for research, Urmia University of Medical Sciences

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Urmia School of Nursing and Midwifery

Full name of responsible person

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Position

Associate Professor

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