Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

The effect of multimedia education on anxiety and physiological indexes in patients candidate for cerebrovascular angiography

Protocol summary

Summary

1.Objectives: The object of study is determining the effect of multimedia education on the anxiety and physiological indexes of patients who candidate for cerebral angiography. 2.Design: The study design is randomized controlled trial. 3.Setting and conduct: The intervention group will receive multimedia education on the angiography, and the control group routine care only (of course the intervention group will also receive routine care) in Firouzgar hospital located in Tehran. Physiological indexes for all patients will be measured every two hours before and after the intervention. Also, the anxiety with state anxiety questionnaire before and after the intervention will be investigated. 4.Participants: 88 patients who are candidates for cerebral angiography or angioplasty and have including criteria will form the study sample. If they do not want to continue their research, Loss of consciousness or death will be excluded. 5.Intervention: The intervention is multimedia education that will include educational movie (video), educational pamphlets (booklet), verbal education, and answers to asked questions by patients. These educations provide information on pre-angiography readiness, the conditions and equipment needed in the angiographic room, how to perform angiography, post-angiography care, and home care tips. A multimedia education will be conducted by one of the researchers for at least 30 minutes for patients and at a place which consider for patients education. 6.Main outcome variables: Physiological indexes and the anxiety are the main outcome measures of this study.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017080335479N1**
Registration date: **2017-10-04, 1396/07/12**
Registration timing: **registered_while_recruiting**
Last update:
Update count: **0**

Registration date

2017-10-04, 1396/07/12

Registrant information

Name
Leila Sayadi
Name of organization / entity
Country
Iran (Islamic Republic of)
Phone
+98 21 6105 4322
Email address
l-sayadi@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences (TUMS)

Expected recruitment start date

2017-09-23, 1396/07/01

Expected recruitment end date

2018-03-20, 1396/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of multimedia education on anxiety and physiological indexes in patients candidate for cerebrovascular angiography

Public title

The effect of multimedia education on anxiety and physiological indexes

Purpose

Other

Inclusion/Exclusion criteria

Patients participating in the study will have the following characteristics: • For the first time candidates for vascular catheterization, • At least 16 years of age, • Speak in Persian. • Ability to read and write and able to complete the questionnaire; • Satisfy the study; • During cerebral angiography; they have not received sedative medications; • They are not part of the hospital staff and are not familiar with cerebrovascular angiography; • Emergency needs; Do not have a catheterization of the cerebrospinal• Have no previous history of brain or cardiac catheterization; • Have no cognitive impairment; • Do not receive drugs for psychiatric disorders / benzodiazepines or anxiolytic drugs; • Steroids and substances Drugs do not consume; • Do not have blindness and severe hearing / hearing impairment; • Do not have chronic or life-threatening illnesses (such as cancer); •Do not require admission to specialized care because of their conditions; • Pre-admission patients have special training in no association with cerebral angiography • There are no hormonal disorders associated with thyroid, adrenal gland, and pituitary. Exclusion criteria: Do not wish to continue research. The patient dies during or after angiography. The patient has a loss of consciousness.

Age

From **16 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **88**

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

School of Nursing & Midwifery, Tehran University of Medical Sciences, Nursing Ethics Committee

Street address

Mirkhani St (East Nosrat), Tohid Sq

City

Tehran

Postal code

141973317

Approval date

2017-07-30, 1396/05/08

Ethics committee reference number

IR.TUMS.FNM.REC.1396.2995

Health conditions studied

1

Description of health condition studied

cerebrovascular angiography

ICD-10 code

G46

ICD-10 code description

Vascular syndromes of brain in cerebrovascular diseases

Primary outcomes

1

Description

anxiety

Timepoint

before and after intervention

Method of measurement

Spielberger State Anxiety Inventory (SAI)

2

Description

blood pressure (Systolic, diastolic)

Timepoint

before and after intervention - from admission to discharge- q2hours

Method of measurement

mmHg - monitoring blood pressure

3

Description

heart rate

Timepoint

before and after intervention - from admission to discharge- q2hours

Method of measurement

beats per minute in the monitoring that is attached to patient

4

Description

respiratory rate

Timepoint

before and after intervention - from admission to discharge- q2hours

Method of measurement

breaths per minute in the monitoring that is attached to patient

5

Description
tempreture
Timepoint
before and after intervention - from admission to discharge- q2hours
Method of measurement
Centigrade - °C- Temperature is shown by thermometer

6

Description
Oxygen saturation
Timepoint
before and after intervention - from admission to discharge- q2hours
Method of measurement
pulse oximeters-A finger pulse oximeter that is attached to patient

Secondary outcomes

empty

Intervention groups

1

Description
The intervention of this study will be multimedia education. Multimedia education in this study will consist of movie (video), educational pamphlet (booklet), oral education and answers to questions posed by patients. The following is an explanation of each component of multimedia learning. (A) Educational movie (video): The content of the video includes information on the pre-angiography readiness, the conditions and equipment needed in the angiographic room, the way angiography is performed, the care required after angiography. Also, the things that need to be considered after taking out hospital care are provided in this video tutorial. This video will be made using Adobe Premiere. The film begins providing information about the preparation for angiography and will end with the necessary care after discharge from the hospital and at home. The film will use images and animations related to angiography and will be called by one of the researchers. The contents of the educational and video materials will be based on the resources and standards related to the cerebrovascular angiography, and after the approval of the professors of the faculty of internal medicine and the neuroscience department will be used for training. B) Educational pamphlet (booklet): In the educational pamphlet, the content of the movie displayed to patients will be summarized in a written and color-coded form with pictures for patients. This booklet will be available to patients for reading. C) verbal education: verbal education will provide patients with information on cerebrovascular angiography, how to do it and its related care as a lecture and verbal to the candidate for cerebrovascular angiography. D) Answering patient questions: At the end, patients are requested to ask questions if they need additional information, as well as express their concerns. Their questions will be answered and the relevant information will be provided to them. Intervention in the intensive care unit will be performed on the cerebral angiography in Firoozgar Hospital. After admission to this section, patients will be prepared for brain angiography. Intervention at the time of hospitalization in patients and at least 30 minutes in a room designed to patients education. Since cerebrospinal angiography is performed in the morning and afternoon shifts and on non-holiday days, interventions will take place in the morning and evening shifts of non-holiday days.
Category
Other

2

Description
The control group will not receive any educational intervention. This group will receive only the routine method in the department. Routine measures include: a) informed consent of patients about performing angiography; b) cleaning the skin; insertion of the catheter; c) taking the peripheral vessel; d) administering the drug in accordance with the relevant physician's orders; c) monitoring the vital signs every two hours before and after cerebral angiography.
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Firoozgar Hospital
Full name of responsible person
zahra Ahmadkhani
Street address
Firoozgar Hospital, Beh Afarin St, karimkhan St, Valiasr Sq
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research and Technology, Tehran University of Medical Sciences
Full name of responsible person
Dr. Masud Yunesian
Street address
6 floor, Main University Building, Ghods St, Keshavarz Blvd
City
Tehran
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 and Technology, Tehran 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
School of Nursing & Midwifery, Tehran University of Medical Sciences

Full name of responsible person
Zahra Ahmadkhani

Position
MS nursing student

Other areas of specialty/work

Street address
Mirkhani St (East Nosrat), Tohid Sq

City
Tehran

Postal code
1419733171

Phone
+98 21 6105 4325

Fax
+98 21 6690 4252

Email
ahmadkhani.nrsz@gmail.com

Web page address
http://fnm.tums.ac.ir/default.aspx?lang=Fa

Person responsible for scientific inquiries

Contact

Name of organization / entity
School of Nursing & Midwifery, Tehran University of Medical Sciences

Full name of responsible person
Leila Sayadi

Position
Assistant Professor

Other areas of specialty/work

Street address
Mirkhani St (East Nosrat), Tohid Sq

City
Tehran

Postal code
1419733171

Phone
+98 21 6105 4322

Fax
+98 21 6690 4252

Email
l-sayadi@sina.tums.ac

Web page address
http://fnm.tums.ac.ir/default.aspx?lang=Fa

Person responsible for updating data

Contact

Name of organization / entity
School of Nursing & Midwifery, Tehran University of Medical Sciences

Full name of responsible person
Zahra Ahmadkhani

Position
Ms nursing student

Other areas of specialty/work

Street address
Mirkhani St (East Nosrat), Tohid Sq

City
Tehran

Postal code
1419733171

Phone
+98 21 6105 4322

Fax
+98 21 6690 4252

Email
ahmadkhani.nrsz@gmail.com

Web page address
http://fnm.tums.ac.ir/default.aspx?lang=Fa

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