Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison between group and multimedia education based on Health Belief Model on mammography in teachers of Bushehr

Protocol summary

Summary

Breast cancer is the most common cancer in women worldwide and the second cause of death among women with 35-55 years old. A way to early detection is mammography. This study compared the effectiveness of two different educational methods based on Health Belief Model on teachers' Mammography. This study is a random clinical trial which has been carried out since December to March, 2015 in 21 elementary schools in Bushehr, a southwestern province in Iran. The study sample includes 180 female elementary school teachers. The inclusion criteria were women older than 40 years old, not having breast cancer or other types of cancers, not having family history of breast cancer, not having breast biopsy experience and mammography in the past three years. Since participants in three groups can flaw educational effectiveness's on each groups with receive information through educational method, it chose some schools for each of three groups (group education, multimedia education and control) through random allocation with lottery of elementary schools to provide sixty people for each group. People were divided to multimedia education, group education and control group. Both multimedia and group education received education based on Health Belief Model (HBM). The control group received no education. The people completed the Champion questionnaire that containing demographic questions, knowledge and constructs of HBM, before, immediate and three months after educational and performance question was completed before beginning the training and three months later.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014112620105N1**
Registration date: **2015-08-17, 1394/05/26**
Registration timing: **retrospective**
Last update:
Update count: **0**

Registration date

2015-08-17, 1394/05/26

Registrant information

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Recruitment status

Recruitment complete

Funding source

Bushehr University of Medical Sciences, Bushehr, Iran

Expected recruitment start date

2014-12-22, 1393/10/01

Expected recruitment end date

2015-03-19, 1393/12/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison between group and multimedia education based on Health Belief Model on mammography in teachers of Bushehr

Public title

The impact of training for Mammography to detect early breast cancer

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion Criteria: They should not have breast or other types of cancers; their first degree relatives do not have breast cancer; they should not have breast biopsy experience; they should not have mammography experience in the past three years.

Age

From **40 years** old to **65 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **180**

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

Bushehr University of Medical Sciences, Salman Farsi St, Bahmani, Bushehr, Iran

City

Bushehr

Postal code

7514633341

Approval date

2014-11-17, 1393/08/26

Ethics committee reference number

B-93-16-12

Health conditions studied

1

Description of health condition studied

Breast Cancer

ICD-10 code

C50

ICD-10 code description

Malignant neoplasm of breast

Primary outcomes

1

Description

Mammography

Timepoint

Before education and 3 months later

Method of measurement

Champion Standard Questionnaire

Secondary outcomes

1

Description

Knowledge of Breast Cancer

Timepoint

Before, immediately and after three months education

Method of measurement

Champion Standard Questionnaire

2

Description

Perceived Susceptibility

Timepoint

Before, immediately and after three months education

Method of measurement

Champion Standard Questionnaire

3

Description

Perceived Severity

Timepoint

Before, immediately and after three months education

Method of measurement

Champion Standard Questionnaire

4

Description

Health Motivation

Timepoint

Before, immediately and after three months education

Method of measurement

Champion Standard Questionnaire

5

Description

Perceived Benefits

Timepoint

Before, immediately and after three months education

Method of measurement

Champion Standard Questionnaire

6

Description
Perceived Barriers
Timepoint
Before, immediately and after three months education
Method of measurement
Champion Standard Questionnaire

Intervention groups

1

Description
The people of group education received two 1-hour group education sessions were based on Health Belief Model
Category
Prevention

2

Description
Education was presented through designed booklet, educational messages and multimedia based on Health Belief Model for using at home in multimedia education group
Category
Prevention

3

Description
The control group received no education
Category
Prevention

Recruitment centers

1

Recruitment center
Name of recruitment center
Education organization of Bushehr City
Full name of responsible person
Faramarz Salimi
Street address
Management 0f Bushehr City Education, Transmission Crossroads, Bushehr, Iran
City
Bushehr

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research of Bushehr University of Medical Sciences
Full name of responsible person
Afshin Ostovar
Street address
Bushehr University of Medical Sciences, Salman Farsi St, Bahmani, Bushehr, Iran
City
Bushehr
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 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, Bushehr, Iran
Full name of responsible person
Azita Noroozi
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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