

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 May 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't evaluate 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 Of 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

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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

Position

Ph.D. of Health Education

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