Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Nov 2026

Comparison of the Effect of Educational Intervention based on Web and Manual on Mammography Use in Women: An Application of Health Belief Model

Protocol summary

Study aim

Comparison of the Effect of Educational Intervention based on Web and Manual on Mammography Use in Women Covered by Bushehr Health Services Centers: An Application of Health Belief Mode

Design

Semi-experimental study; It has two intervention groups and one control group; random sampling; With parallel groups; The sample size is 126 women aged 40 years and older.

Settings and conduct

The study is carried out at Bushehr Health Care Centers, 2 centers are as an intervention group and 1 center as control group. Blinding is impossible but to avoid interruptions in the study (information bias between groups) the centers selected as an intervention group are separate from the control group.

Participants/Inclusion and exclusion criteria

Information recorded in Health Care centers,Having reading and writing skills & the ability to communicate verbally,Age 40 and over,Suitable physical conditions to answer questions and participate in the study, having access to the internet and the knowledge to use it,Having computer and smartphone ,Inclination to participate in the research,Failure to do mammograms in the last two years,Having breast cancer,Pregnancy,Lactation,Having chest disease history,A history of breast cancer in a first degree family,Drop out of the study

Intervention groups

One intervention group will view the Health Belief model-based education program for one week. Additionally, from the interval between the completion of the education program till two weeks later, Reminder messages will be sent once a week to persuade learners to view the educational content uploaded on the website. The next intervention group will receive a booklet. The control group will receive routine care. The assessment will be done by the questionnaire, before intervention, and two months after the intervention.

Main outcome variables

Awareness, Barriers, Benefits, Susceptibility, Severity,Health Motivation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190708044157N1**
Registration date: **2019-08-09, 1398/05/18**
Registration timing: **prospective**

Last update: **2019-08-09, 1398/05/18**
Update count: **0**

Registration date

2019-08-09, 1398/05/18

Registrant information

Name

Zeynab Mansouri

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 77 3344 1695

Email address

z.mansoori@bpums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-08-21, 1398/05/30

Expected recruitment end date

2019-10-22, 1398/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the Effect of Educational Intervention based on Web and Manual on Mammography Use in Women: An Application of Health Belief Model

Public title

The effect of the training program on mammography behavior

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Information recorded in Health Care centers Having reading and writing skills & the ability to communicate verbally Age 40 and over Suitable physical conditions to answer questions and participate in the study having access to the internet and the knowledge to use it Having computer and smartphone Inclination to participate in the research Failure to do mammograms in the last two years

Exclusion criteria:

Having breast cancer Pregnancy Lactation Having chest disease history A history of breast cancer in a first degree family Drop out of the study

Age

From **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **126**

Randomization (investigator's opinion)

Randomized

Randomization description

From all the centers, three are selected via simple random sampling, one center as a web-based intervention group and one center as an intervention group receiving booklet and one center as a control group. In the next step, based on the electronic file in the SIB system individuals having inclusion criteria matches the study sample size are selected randomly.

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

. Boushehr University of medical sciences and health services,Salman Farsi St.Bahmani,Bushehr ,

City

Bushehr

Province

Boushehr

Postal code

7556194917

Approval date

2019-07-24, 1398/05/02

Ethics committee reference number

IR.BPUMS.REC.1398.087

Health conditions studied

1

Description of health condition studied

Breast cancer screening

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Breast cancer screening behavior

Timepoint

Before intervention and two months after intervention

Method of measurement

Questionnaire

Secondary outcomes

1

Description

Awareness

Timepoint

Before intervention and two months after intervention

Method of measurement

Questionnaire

2

Description

Perceived Benefits

Timepoint

Before intervention and two months after intervention

Method of measurement

Questionnaire

3

Description

Perceived Barriers

Timepoint

Before intervention and two months after intervention

Method of measurement

Questionnaire

4

Description

Perceived Susceptibility

Timepoint

Before intervention and two months after intervention

Method of measurement

Questionnaire

5

Description

Perceived Severity

Timepoint

Before intervention and two months after intervention

Method of measurement

Questionnaire

6

Description

Health Motivation

Timepoint

Before intervention and two months after intervention

Method of measurement

Questionnaire

Intervention groups

1

Description

Intervention group: After extracting the names of women aged 40 years and over, the electronic records are reviewed to evaluate some of the criteria for entering the study. For the web-based model-based intervention group there is a description of how to access and use the content of the educational content, including: videos, images and educational texts (multimedia) through the site to individuals. The multimedia educational content is based on the health belief model. The educational package is uploaded to the website after compilation and individuals are asked to view the instructions within a maximum of 1 week. After three days the individuals who have not yet visited the website are contacted and encouraged to use the site's content. And for the individuals who have not yet seen the content of the instructions, the will be given an additional three days to receive the instructions. For the intervention groups in the first month, two reminder messages will be sent within two weeks by SMS. Before and up to two months after the training program, the questionnaires will be completed for each of the three groups.

Category

Prevention

2

Description

Intervention group: After extracting the names of women aged 40 years and over, the electronic records are reviewed to evaluate some of the criteria for entering the study. For the intervention group, the (educational) content will be model-based and in the form of a booklet. Before and up to two months after the training program, the questionnaires will be completed for each of the three groups.

Category

Prevention

3

Description

Control group: Get routine care. At the end of the training program, the control group will be provided with the educational content.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Shohada health care center

Full name of responsible person

Zahra Hozhbari

Street address

Shohada health care center,Behesht Sadegh St.Boushehr,

City

Boushehr

Province

Boushehr

Postal code

7514633341

Phone

+98 77 3334 0547

Fax

Email

Hojabri.a@gmail.com

Web page address

2

Recruitment center

Name of recruitment center

Shahid Beheshti health care center

Full name of responsible person

Katayoun Alibashi

Street address

Shahid Beheshti health care center,Khajeh

Ha,Boushehr
City
Boushehr
Province
Boushehr
Postal code
7514633341
Phone
+98 77 3344 0547
Fax
Email
Alibashi.k@gmail.com
Web page address

3

Recruitment center
Name of recruitment center
Hazrat Zainab health care center
Full name of responsible person
Farzaneh Agha
Street address
Hazrat Zainab health care center ,end of E'temadiyeh St. Davvas,Boushehr
City
Boushehr
Province
Boushehr
Postal code
7514633341
Phone
+98 77 3344 0805
Email
f.agha@gmail.com
Web page address

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Boushehr University of Medical Sciences
Full name of responsible person
Gholamreza Khamesipour
Street address
Boushehr University of medical sciences and health services,Salman Farsi St.Bahmani, Boushehr
City
Boushehr
Province
Boushehr
Postal code
7514633341
Phone
+98 77 3332 2081
Email
khamisipoor@Bpums.ac.ir
Web page address
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Boushehr 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
Boushehr University of Medical Sciences
Full name of responsible person
Hemameddin Javadzade
Position
Assistant Professor
Latest degree
Ph.D.
Other areas of specialty/work
Health Promotion
Street address
. Boushehr University of medical sciences and health services,Salman Farsi St.Bahmani, Boushehr
City
Boushehr
Province
Boushehr
Postal code
7514633341
Phone
+98 77 3345 0084
Email
sh.javadzadeh@bpums.ac.ir
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Boushehr University of Medical Sciences
Full name of responsible person
Hemameddin Javadzade
Position
Assistant Professor
Latest degree
Ph.D.
Other areas of specialty/work
Health Promotion
Street address
Boushehr University of medical sciences and health services,Salman Farsi St.Bahmani, Boushehr
City

Boushehr

Province

Boushehr

Postal code

7514633341

Phone

+98 77 3345 0084

Email

sh.javadzadeh@bpums.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Boushehr University of Medical Sciences

Full name of responsible person

Zeynab Mansouri

Position

Masters student of health education and health promotion

Latest degree

Bachelor

Other areas of specialty/work

Health Promotion

Street address

Boushehr University of medical sciences and health services,Salman Farsi St.Bahmani, Boushehr

City

Boushehr

Province

Boushehr

Postal code

7514633341

Phone

+98 33441695

Email

Zeynabmansouri96@gmail.com

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be 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

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Not applicable

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available