Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Impact of Health Education on Knowledge, Attitude and Perception Regarding Cervical Cancer and Screening Uptake among Women in Rural Areas of Punjab, Pakistan

Protocol summary

Study aim

The aim of the study is the use of the theory of planned behavior in prevention, promotion and maintenance of behaviors for cervical cancer prevention in rural areas after identification of women with poor knowledge, attitude and perception regarding cervical cancer and designing and implementing behavior modification educational strategies. Study also aims to measure the uptake of pap smear screening among intervention group and results will be shared with health care system in order to take appropriate action for cervical cancer prevention in rural areas of Pakistan.

Design

Randomised controlled trial consisting of two groups; Intervention and control group consisting of 145 sample in each group. Eligible women will be selected through simple random sampling.

Settings and conduct

Settings will be rural areas of Punjab. Pre-test will be done on a structured questionnaire and health education will be given to intervention group and finally post test will be conducted to measure the effectiveness.

Participants/Inclusion and exclusion criteria

Married females of 15-70 years, no prior hysterectomy and pap smear test. Women who already diagnosed with any type of cancer or with any other health condition will be excluded.

Intervention groups

Educational interventions will be given to intervention group. There will be lecture method and a video will be shown to the participants consisting of information regarding cervical cancer prevention.

Main outcome variables

Preventive behaviors and screening of cervical cancer.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200408046998N1**
Registration date: **2020-12-30, 1399/10/10**
Registration timing: **retrospective**

Last update: **2020-12-30, 1399/10/10**
Update count: **0**

Registration date

2020-12-30, 1399/10/10

Registrant information

Name

Farzana Iqbal

Name of organization / entity

The University of Lahore

Country

Pakistan

Phone

+92 42 32182632

Email address

farzana.iqbal@live.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-09-20, 1399/06/30

Expected recruitment end date

2020-12-15, 1399/09/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title
Impact of Health Education on Knowledge, Attitude and Perception Regarding Cervical Cancer and Screening Uptake among Women in Rural Areas of Punjab, Pakistan

Public title
Evaluate the effect of Health Education on Knowledge, Attitude and Perception Regarding Cervical Cancer and its Screening among Women of Rural Areas of Punjab

Purpose
Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:
Married, age from 15-70 years and they are willing to participate in the study. Women of rural community No prior hysterectomy No pap smear test within last three year

Exclusion criteria:
Already diagnosed with any type of cancer Any family member diagnosed with cancer All the woman who will be pregnant, hospitalized or diagnosed with any critical health situation HIV positive or on immunosuppressive treatments All those who refused to participate in this study

Age
From **15 years** old to **70 years** old

Gender
Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **290**

Randomization (investigator's opinion)
Randomized

Randomization description
Two districts of Punjab will be randomly selected on the basis of high literacy and low literacy rate. At first stage, the list of the tehsils will be prepared for all the rural areas of selected districts and then one tehsil will be selected through simple random sampling. Moreover, in next stage, a list will be prepared for all the union councils of selected tehsils. Then, 1/4th union councils will be selected through lottery method. One participant will be selected per house using simple random sampling by balloting from selected union councils. Eligible women will be divided equally in Intervention and control groups by using table of random numbers.

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 The University of Lahore

Street address
1 - KM Defence Road, Lahore

City
Lahore

Postal code
54000

Approval date
2020-03-02, 1398/12/12

Ethics committee reference number
IRB-UOL-FAHS/716/2020

Health conditions studied

1

Description of health condition studied
Cervical Cancer Prevention

ICD-10 code
D06

ICD-10 code description
Carcinoma in situ of cervix uteri

2

Description of health condition studied
Cervix Cancer Screening

ICD-10 code
Z01.4

ICD-10 code description
Encounter for gynecological examination

Primary outcomes

1

Description
Cervical cancer prevention

Timepoint
Before and after eight weeks of intervention

Method of measurement
Measurement will be done by using a questionnaire consisting of demographic variables, knowledge, attitude and perception variables

2

Description
Cervical Cancer Screening (Pap Smear)

Timepoint
Before and after 8 weeks of intervention

Method of measurement

By performing pap smear test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: A structured health education will be given to the intervention group respondents about cervical cancer awareness and its screening. There will be lecture method and a video will be shown to the participants. Education material will consist of: what is cervical cancer its sign symptoms and risk factors? How is HPV transmitted? HPV screening and prevention methods, what increases or decreases the risk of developing cervical cancer, what is a Pap test and how to schedule a Pap test and follow up on the results, and what does an abnormal Pap test result mean. The women will be educated in batches (29) each. Each batch will be trained for one day over a 2 hour period from 1000 to 1200 hours. Health Education sessions will last for 5 days.

Category

Prevention

2

Description

Control group: The control group will receive usual care. This group also receive health education on cervical cancer and its screening after post intervention activities.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center
Chief Executive Officer, District Health Authority, Sheikhupura

Full name of responsible person
Dr Saddique Ahmad

Street address
Lahore-Sargodha Rd, Nabipura, Civil Lines, Sheikhupura, Punjab

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Sheikhupura

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39350

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2

Recruitment center

Name of recruitment center
Chief Executive Officer, District Health Authority, Muzaffargarh

Full name of responsible person
Dr Faiz Kareem

Street address
Near Yadgar Chowk Alipur Road, Muzaffargarh, Punjab

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Muzaffargarh

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34200

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edohealth.mfg@punjab.gov.pk

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Faculty of Allied Health Sciences, The University of Lahore

Full name of responsible person
Prof. Dr. Saleem Rana

Street address
1-Km, Defence Road, Bhupatian Chowk, Off Raiwind Road, Lahore.

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Lahore

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smrmep@gmail.com

Web page address
https://www.uol.edu.pk

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?
Yes

Title of funding source
Faculty of Allied Health Sciences, The University of Lahore

Proportion provided by this source
100

Public or private sector
Private

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
The University of Lahore

Full name of responsible person
Farzana Iqbal

Position
PhD Scholar

Latest degree
Master

Other areas of specialty/work
Public Health

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Person responsible for scientific inquiries

Contact

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Full name of responsible person
Prof. Dr. M Saleem Rana

Position
Professor

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD
There is no further information

Study Protocol
No - There is not 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
Not applicable

Data Dictionary
Not applicable