

Knowledge of the breast self-examination technique and associated factors in women from rural communities in Guerrero, Mexico

Submission date	Recruitment status	<input checked="" type="checkbox"/> Prospectively registered
31/01/2025	No longer recruiting	<input type="checkbox"/> Protocol
Registration date	Overall study status	<input type="checkbox"/> Statistical analysis plan
06/02/2025	Completed	<input type="checkbox"/> Results
Last Edited	Condition category	<input type="checkbox"/> Individual participant data
06/02/2025	Cancer	<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

Breast cancer is a public health problem and is the main cause of death and disability among women. There is evidence that training in the technique of breast self-examination significantly increases the practice and favours the early detection of cancer. The aim of this study is to measure the impact of an educational intervention about breast self-examination in women from five rural communities in the mountains of Guerrero, Mexico.

Who can participate?

Women from 20 to 59 years of age

What does the study involve?

Participants attend an educational workshop on breast self-examination. The same study group will serve as a control group (before) and an intervention group (after). An initial survey will serve as a baseline as a reference for the impact on knowledge about breast self-examination. Follow-up of all participants (final survey) will measure the change in knowledge about breast self-examination.

What are the possible benefits and risks of participating?

To the extent that the improvement in knowledge is applied to practice, this research will benefit the early detection of breast cancer in women in rural areas. This research does not present any risk to the study population.

Where is the study run from?

Autonomous University of Guerrero (Mexico)

When is the study starting and how long is it expected to run for?

March 2024 to September 2025

Who is funding the study?

Autonomous University of Guerrero (Mexico)

Who is the main contact?
Belén Madeline Sánchez Gervacio, madegervacio@uagro.mx

Contact information

Type(s)

Public

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Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

ClinicalTrials.gov (NCT)

Nil known

Protocol serial number

CISSG-016-2024

Study information

Scientific Title

Impact of an educational intervention on breast self-examination in women from rural communities in Guerrero, Mexico: before-after study

Acronym

IEIBSE-UAGro

Study objectives

An educational intervention improves knowledge about the breast self-examination technique in women from rural communities in the mountains of Guerrero, Mexico

Ethics approval required

Ethics approval required

Ethics approval(s)

approved 22/07/2024, Research Committee of Guerrero State Health Services, COFEPRIS Register 18 CI 12 001 048 (Avenida Ruffo Figueroa, No. 6, Colonia Burócratas, Chilpancingo, 39090, Mexico; +52 (0)7474943100; deptoinvestigaciongro@gmail.com), ref: CISSG-016-2024

Study design

Community-based before-after trial

Primary study design

Interventional

Study type(s)

Screening

Health condition(s) or problem(s) studied

Breast cancer

Interventions

This is an educational intervention in five rural communities in the mountains of the state of Guerrero, Mexico. An initial measurement will be made to determine the level of knowledge about breast self-examination in these women. This includes having them participate in a short survey and give their opinion on the content of the educational workshop. After a baseline (before) all women will receive the intervention and a second measurement (after) will evaluate the impact of the educational intervention.

Intervention Type

Behavioural

Primary outcome(s)

Knowledge about the breast self-examination technique. This variable will be measured by the response to 13 questions based on the technique recommended by the Clinical Practice Guide of the Mexican Social Security Institute for the prevention, screening and timely referral of suspected cases of breast cancer at the first level of care. It evaluates three areas: observation (4 items), palpation (7 items) and periodicity (2 items). It uses a Likert-type response scale where

the option always gives 3 points, almost always 2 points, rarely 1 point and never 0 points. It obtains a maximum score of 39 and a minimum of 0. A high level of knowledge corresponds to a score equal to or greater than 26, a medium score of 13 to 25 points and a low score less than or equal to 12 points. This variable will be measured at baseline and 2 months after the end of the intervention in the impact measurement.

Key secondary outcome(s)

Frequency of breast self-examination. This variable will be measured by the response to the question "In the last month, did you self-examine your breasts to detect any health problems?" This variable will be measured at baseline and 2 months after the end of the intervention in the impact measurement.

Completion date

13/09/2025

Eligibility

Key inclusion criteria

1. Women aged 20 to 59 years
2. Give their consent to participate
3. Residents of the participating communities

Participant type(s)

All

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

20 years

Upper age limit

59 years

Sex

Female

Key exclusion criteria

1. Women diagnosed with breast cancer
2. Women with visual, hearing or motor disabilities that prevent them from answering the survey
3. Women with bilateral mastectomies
4. Women who are breastfeeding
5. Pregnant women

Date of first enrolment

15/03/2025

Date of final enrolment

17/05/2025

Locations

Countries of recruitment

Mexico

Study participating centre

Santa Bárbara

Municipality of Chilpancigo

Mexico

39110

Study participating centre

San Crstobal

Municipality of Chilpancigo

Mexico

39110

Study participating centre

Santa Rita

Municipality of Chilpancigo

Mexico

39110

Study participating centre

San Miguel

Municipality of Chilpancigo

Mexico

39110

Study participating centre

Santa Rosa

Municipality of Coyuca de Benítez

Mexico

40992

Sponsor information

Organisation

Universidad Autónoma de Guerrero

ROR

<https://ror.org/054tbkd46>

Funder(s)

Funder type

University/education

Funder Name

Universidad Autónoma de Guerrero

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be available upon request from Dr Belén Madeline Sánchez Gervacio (madegervacio@uagro.mx).

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes