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

Submission date	Recruitment status	[X] Prospectively registered
31/01/2025	No longer recruiting	Protocol
Registration date	Overall study status	Statistical analysis plan
06/02/2025	Completed	Results
Last Edited	Condition category	Individual participant data
06/02/2025	Cancer	[X] 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)

## Contact information

#### Type(s)

**Public** 

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#### Type(s)

Scientific, Principal investigator

#### Contact name

Dr Belén Madeline Sánchez Gervacio

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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