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

Submission date
31/01/2025

Recruitment status
No longer recruiting

Registration date
06/02/2025

Overall study status
Completed

Last Edited
06/02/2025

Condition category
Cancer

[X] Prospectively registered
[_] Protocol
[_] Statistical analysis plan
[_] Results
[_] Individual participant data
[_] 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

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Additional identifiers

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

Primary study design
Interventional

Study design
Community-based before-after trial

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