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Strategies used by Primary Care Nurses in the prevention of cervical cancer: integrative review

Estratégias utilizadas por Enfermeiros da Atenção Primária na prevenção do câncer de colo do útero: revisão integrativa

Marcia Caroline Nascimento Sá Ewerton Martins^{1,*} , Adriana Gomes Nogueira Ferreira¹, Layane Mota de Souza de Jesus¹, Ana Cristina Pereira de Jesus Costa¹, Ariadne Siqueira de Araújo Gordon¹, Maria da Conceição Nascimento Pinheiro²

¹Federal University of Maranhão, Imperatriz, Maranhão, Brazil.

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KEYWORDS

Health education Nursing Cervical cancer prevention Women's health

ABSTRACT

Objective: to identify, in the scientific literature, the strategies used by primary care nurses to prevent cervical cancer.

Methods: An integrative review of the EMBASE, LILACS (BVS), SCOPUS, and Web of Science databases between March and April 2023. After the search, the selected articles were read in full, and the data were extracted for analysis. The final sample consisted of 5 studies.

Results: the main strategies used were educational interventions, with a predominance of lectures and subsequent invitations or collection of material to carry out the preventive exam. Conversation circles (culture circles), telephone guidance, and the provision of a self-completed clinical form during the nursing consultation were also used.

Conclusions: the studies made it possible to identify positive strategies for preventing cervical cancer, which could direct nurses to increasingly invest in methodologies aimed at increasing women's autonomy.

PALAVRAS-CHAVE

Educação em saúde Enfermagem Prevenção de câncer de colo do útero Saúde da mulher

RESUMO

Objetivo: identificar, na literatura científica, as estratégias utilizadas por enfermeiros da Atenção Primária para a prevenção do câncer de colo do útero.

Métodos: revisão integrativa nas bases de dados EMBASE, LILACS (BVS), SCOPUS e *Web of Science*, entre março e abril de 2023. Após a busca, seguiu-se com leitura na íntegra dos artigos selecionados e extração dos dados para análise. A amostra final foi constituída por 5 estudos.

Resultados: as principais estratégias utilizadas foram intervenções educativas, com predominância de palestras e posterior convite ou coleta de material para a realização do exame preventivo. Também foram utilizadas rodas de conversa (círculo de cultura), orientações por contato telefônico e oferta de ficha clínica auto preenchível na consulta de enfermagem.

Conclusões: os estudos possibilitaram identificar estratégias positivas na prevenção do câncer de colo do útero, podendo direcionar enfermeiros a investir cada vez mais em metodologias voltadas a uma maior autonomia das mulheres.

Departamento de Enfermagem, Universidade Federal do Maranhão.

Addr.: Avenida da Universidade - Bairro: Dom Afonso Felipe Gregory. Imperatriz, MA, Brasil | CEP: 65.915-240

Phone: (99) 3529-6055 E-mail: enfermagemimperatriz@ufma.br (Martins MCNSE)

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²Federal University of Pará, Belém, Pará, Brazil.

^{*}Corresponding author:

INTRODUCTION

Cervical cancer remains one of the most common tumors in the world, being the fourth most prevalent type of cancer among women and responsible for the fourth cause of cancer-related mortality in this population, with 310 thousand deaths per year¹. When diagnosed early and with adequate treatment, cervical cancer is preventable and curable ².

Infection caused by high-risk human papillomavirus (HPV) is one of the leading causes of cervical cancer development, particularly infections associated with HPV-16 and HPV-18 (70%)³. In Brazil, the estimated number of new cases from 2023 to 2025 is 17,010, corresponding to a risk of 15.38 cases per thousand women⁴.

Primary health care (PHC) is one of the pillars of the Brazilian Unified Health System (SUS), which approaches the daily lives of people and the community. Activities to prevent cervical cancer are developed in the SUS, mainly aimed at interventions to combat risk factors for the development of cancer, screening, and early detection of the disease⁵.

The preventive cervical cancer test (Papanicolaou or Pap smear) is effective for the early detection of changes that could develop into cancer and is one of the best prevention strategies⁶. Other prevention measures can be implemented to reduce the incidence and mortality caused by cervical cancer, such as vaccination against HPV, smoking control, and tests that detect the disease early⁷.

Nurses working in PHC are essential in raising awareness of the need to conduct preventive screening for cervical cancer and in looking for and monitoring women⁸. These professionals must be trained to perform the cytopathological examination and to develop and apply strategies that aim to strengthen the professional-user bond, favoring increased adherence to the examination⁹. In this context, it is crucial to know the strategies to prevent cervical cancer adopted by nursing in PHC.

In this sense, the study was based on the following research question: "What are the strategies used by PHC nurses to promote cervical cancer prevention?" Thus, this study aimed to identify, in the scientific literature, the strategies used by PHC nurses to prevent cervical

cancer.

METHODS

This is an integrative review of the literature conducted by elaborating on the research question, choosing databases and inclusion and exclusion criteria, choosing the information to be used from the selected articles, evaluating the studies, interpreting the results, and presenting the review¹⁰.

A question that outlined the search was developed using the PICo strategy (population, interest, and context): P, cervical cancer; I, strategies; Co, prevention. This acronym allowed a more reliable search based on an evident research question, guiding the study according to the objectives¹¹.

Due to their relevance and scope, the databases chosen were EMBASE, LILACS (BVS), SCOPUS, and Web of Science, which were accessed from March to April 2023. The inclusion criteria were original studies that already answered the guiding question in the abstract and were available in full text in Portuguese, English, and Spanish. Reviews, theses, dissertations, manuals, protocols, experience reports, notes, and editorials were excluded, as well as duplicate articles in the databases that were selected only once.

The controlled descriptors were taken from the Medical Subject Headings (MeSH) and its Portuguese counterpart Descritores em Ciências da Saúde (DeSC): enfermagem; nursing; enfermería; enfermeiro; nurse; enfermeros; neoplasias do colo do útero; uterine cervical neoplasms; neoplasias del cuello uterino; atenção primária à saúde; primary health care; atención primaria de salud. Boolean operators AND and OR were used to perform the crossings, as shown in Table 1.

The files from each database were imported into the RAYYAN application¹² for the title and abstract to be read by two independent reviewers, considering the eligibility criteria. A third reviewer decided on the differences. Next, a form created in Google Forms and previously tested by the researchers was applied to assist in data extraction. The following information was collected from the studies: publication title, author(s),

Table 1 – Search strategies according to the databases used in the study.

Base/database	Crossing
Web of Science -	((ALL=("Enfermagem" OR "Nursing" OR "Enfermería" OR "Enfermeiro" OR "Nurse" OR "Enfermeros"))
core collection	AND ALL=("Neoplasias do Colo do Útero" OR "Uterine Cervical Neoplasms" OR "Neoplasias del Cuello
	Uterino")) AND ALL=("Atenção Primária à Saúde" OR "Primary Health Care" OR "Atención Primaria de
	Salud")
Scopus	(ALL ('enfermagem' OR 'nursing' OR 'enfermería' OR 'enfermeiro' OR 'nurse' OR 'enfermeros') AND
	ALL ('neoplasias AND dog AND colo AND dog AND útero' OR 'uterine AND cervical AND neoplasms' OR
	'neoplasias AND del AND cello AND uterino') AND ALL ('Atenção primordia à Saúde' OR 'Primary
	Health Care' OR 'Atención primarily due Salud'))
LILACS via BVS	((enfermagem OR nursing OR enfermería OR enfermeiro OR nurse OR enfermeros)) AND ((neoplasias
	do colo do útero OR uterine cervical neoplasms OR neoplasias del cuello uterino)) AND ((atenção
	primária à saúde OR primary health care' OR 'atención primaria de salud)) AND (db:("LILACS"))
Embase	('enfermagem' OR 'nursing' OR 'enfermería' OR 'enfermeiro' OR 'nurse' OR 'enfermeros') AND ('neoplasias
	do colo do útero' OR 'uterine cervical neoplasms' OR 'neoplasias del cuello uterino') AND ('atenção
	primária à saúde' OR 'primary health care' OR 'atención primaria de salud') AND [embase]/lim

year of publication, country, journal, type of study, strategies adopted, and main results. The selected studies were read and analyzed in depth by the researchers to answer the review's guiding question. A descriptive analysis of the studies was conducted in full, with the preparation of a summary table that summarized the main findings and contributions of the studies.

RESULTS

The study selection process resulted in five articles being included in the final sample. Figure 1

describes the article selection flow following the PRISMA recommendations¹¹.

Fifty-two articles were identified, and after observing the title, summary, and application of the inclusion and exclusion criteria, 48 articles were preselected for full reading, and only 5 were included in the final sample of this review. The 5 articles included were published between 2015 and 2021 in English and Portuguese and were conducted in Brazil. The types of study were: randomized controlled experimental (1), exploratory descriptive with a qualitative approach (2), interpretative with a qualitative approach (1), and quasi-experimental (1). Table 2 summarizes the title, authorship, year of publication, country, journal, type of study, strategies used, and main results.

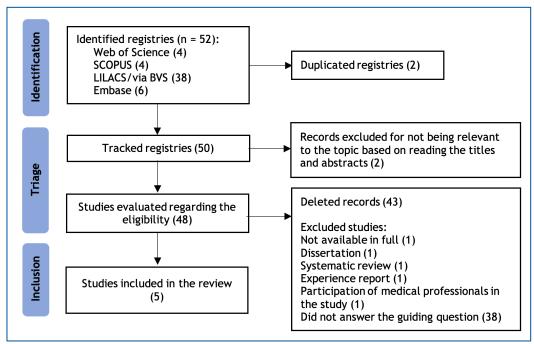


Figure 1 - Flow diagram of articles included in the review.

DISCUSSION

Based on the selected studies, the tracking and follow-up of women with results in the preventive examination for cervical cancer declined in 2020, in addition to delays in starting treatment in the North, Northeast, and South regions. The need to improve early detection strategies and establish ways to evaluate and monitor the actions developed becomes clear¹⁸.

The studies included in this review¹³⁻¹⁷ presented educational interventions, with a predominance of lectures, with a subsequent invitation or the carrying out of the preventive exam and guidance during the nursing consultation as strategies most used by PHC nurses to prevent uterine cervical cancer. Conversation circles¹⁶, telephone contact^{14,} and the provision of a self-completed clinical form¹⁵ were also used during the nursing consultation to prevent cervical cancer.

The nurse's role in the Family Health Strategy, part of PHC, is fundamental. From the point of view of preventing cervical cancer, alongside the health team

and the population, nurses perform essential activities, including nursing consultations, Pap smears, and educational activities¹⁹.

Cytopathological examination, known as Pap smear, is part of the cervical cancer prevention program. It is safe, accessible, and effective, reducing mortality from cervical cancer by up to $80\%^{20}$.

Many women still do not undergo preventive examinations, even though they are offered in PHC, which can lead to the progression of the disease and limit the chances of a cure²¹. Raising awareness about performing the exam is necessary, which can increase adherence. Hence, the importance of health education.

Health education is an essential strategy in the PHC²², and this strategy has undergone changes in conceptions over time. It is considered that it has already taken place from an authoritarian process to a positivist aspect to shed light on the impact of the social determinants of health, suggesting ways to modify reality. From a traditional viewpoint, it correlates the field of public health with health promotion and disease

Table 2 — Description of articles included by title, authorship, year of publication, country, and journal.

Title	Author, year	Journal	Type of study	Strategies used	Main results
Controle do câncer do colo do útero: ações desenvolvidas pelo enfermeiro à luz do discurso do sujeito coletivo	Correio et al., 2015 ¹³	Revista de Pesquisa Cuidado é Fundamental Online	Interpretive study with a qualitative approach	Health education activities (lecture). Verbal invitation to carry out preventive care during daily care	It characterized the situational diagnosis of the region and encouraged reflections on the assistance provided by the ESF nurse
Intervenções por telefone para adesão ao exame colpocitológico	Lima et al., 2015 ¹⁴	Revista Latino- Americana de Enfermagem	Quasi- experimental study	Educational intervention by telephone and scheduling of preventive examination	Efficacy in women's adherence to colpocytological examination
Autopreenchimento da ficha clínica no rastreamento do câncer de colo de útero: percepções da mulher	Nepomuceno et al, 2015 ¹⁵	Revista de Enfermagem do Centro Oeste Mineiro	Qualitative descriptive study	Offer of a self- filling clinical form at the nursing consultation	Reduction in negative feelings related to cervical and breast cancer screening and prevention consultations; potential strategy to increase adherence to screening appointments
Comparison among the efficacy of interventions for the return rate to receive the Pap test report: randomized controlled clinical trial	Vasconcelos et al., 2017	Revista Latino- Americana de Enfermagem	Randomized controlled experimental study	Educational intervention based on the principles of Paulo Freire (Culture Circle)	Increased the proportion of return visits to receive the Pap smear test report
Atuação do enfermeiro na prevenção do câncer do colo de útero em Unidades de Saúde	Dias et al., 2021 ¹⁷	Journal of Health & Biological Sciences	Exploratory, descriptive study with a qualitative approach	Health education actions and collection of cytopathological material to carry out the exam	Described and discussed the role of Primary Care nurses in preventing cervical cancer, seeking to give new meaning to prevention actions

prevention^{23,24}.

The present study follows the conception adopted by Fittipaldi, O'Dwyer, and Henriques²⁵, where health education constitutes an instrument for the dialogic construction of knowledge and stimulates autonomy, popular participation, and the protagonism of subjects in your own care.

Another strategy observed in the studies of this review was health education carried out over the telephone, with subsequent scheduling of a preventive examination for cervical cancer¹⁴. In this sense, technologies are important for education and health promotion, facilitating the teaching-learning process by providing educational and technological resources in a structured manner²⁶.

Nursing care has benefited from these technologies, using diverse materials and making patient health education more attractive²⁷. Telephone support has been increasingly used as an appropriate way to support healthcare²⁸.

A systematic review²⁹ demonstrated, for example, that using telephones is a viable technology for

promoting breastfeeding, thus becoming an alternative to improving the care offered.

A previous study³⁰ with patients undergoing oncological and outpatient chemotherapy demonstrated that monitoring patients by telephone, carried out by nurses, is a possible and practical strategy, especially concerning self-efficacy, with positive impacts on the emotional support provided to patients, strengthening the bond.

Another study³¹ also points out the importance of follow-up carried out via telephone by nurses to provide continuity of care for patients at home. To this end, health professionals need training to achieve the expected results when using technologies to promote care, thus supporting the harmony between human and technological progress³².

An exciting intervention identified among the studies was the offer to self-complete the clinical form in the nursing consultation to control cervical cancer¹⁵. The above-mentioned study demonstrated that this strategy was adhered to by most participating women and became a way of encouraging the provision of care.

This study clarifies the preference for writing rather than verbalizing more intimate health information¹⁵.

Feelings of fear and shame associated with preventive screening can contribute to low adherence to cervical cancer screening³³. In this way, providing more information to women in the nursing consultation improves communication with the professional, maximizes trust, allows the sharing of fears and doubts related to the exam, and allows a better choice of actions to be developed ³³.

This review also identified health education based on Paulo Freire's principles as a prevention strategy against cervical cancer. The theories of Paulo Freire, a Brazilian educator and philosopher, are suitable not only for education but also for health. A concept he created is that the culture circle is a dynamic space for collaborative learning, construction of knowledge, and new perspectives. In these circles, people come together for an educational process to investigate topics that interest the group itself³⁴.

Previous work³⁵ identified that health promotion combined with Paulo Freire's thinking showed promise in producing and identifying themes that help in overcoming problems in the Family Health Strategy. Furthermore, it improved the work process between members of the healthcare team and communication between everyone (professionals, users, and leaders) and clarified the difference between promoting health and preventing diseases. They also emphasize that empowering the community can reduce disparities between professionals and users, positively bringing them closer together.

Encouraging different health education practices can positively affect people's lives. Therefore, knowing

the behavior of PHC nurses about the subject contributed to outlining a profile of the activities carried out by these professionals to prevent and combat cervical cancer and to highlight the need for reflection on the assistance offered by nurses.

As limitations identified in this review, the reduced number of articles included and the period during which they were published, until 2017, stand out. The COVID-19 pandemic may also have contributed to a decrease in the application of other interventions among the population, resulting in fewer studies. Another limitation to be considered is the nationality of the studies found, as they were all national. Therefore, interventions performed by primary care nurses in other countries may differ from those highlighted here.

As an extension of the results found in this review, it is proposed that, in the future, other findings regarding the topic can be identified so that there can be a better comparison of the strategies used by nurses in primary care in the prevention of cervical cancer, as well as how to identify their effects on the population of women assisted.

CONCLUSION

Health education was the primary cervical cancer prevention strategy used by PHC nurses. It is necessary to invest in the training of nursing professionals so that they can offer different educational strategies and technologies, considering the characteristics of local and population contexts to enable a better understanding of information.

REFERENCES

- International Agency for Research on Cancer (IARC). Cancer today [Internet]. Lyon: World Health Organization; 2020 [cited 2023 Mar 22]. Available from: https://gco.iarc.fr/today/home
- Cerqueira RS, Santos HLPC, Prado NMBL, Bittencourt RG, Biscarde DGDS, Santos AM. Controle do câncer do colo do útero na atenção primária à saúde em países sul-americanos: revisão sistemática. Rev Panam Salud Publica. 2022;46:e107. https://doi.org/10.26633/RPSP.2022.107 PMid:36016837 PMCid:PMC9395576
- Carvalho KF, Costa LMO, França RF. A relação entre HPV e Câncer de Colo de Útero: um panorama a partir da produção bibliográfica da área. Rev Saude Foco [Internet]. 2019 [cited 2023 Mar 20];11(5):264-78. Available from: https://bit.ly/48fQAqu
- 4. Instituto Nacional de Câncer José Alencar Gomes da Silva (INCA). Coordenação de Prevenção e Vigilância. Divisão de Vigilância e Análise de Situação. Estimativa 2023: incidência de câncer no Brasil [Internet]. Rio de Janeiro: INCA; 2023 [cited 2023 Jul 20]. Available from: https://bit.ly/3RCFal8
- Ministério da Saúde, Brasil. Recomendações do INCA para reduzir a mortalidade por câncer de mama no Brasil [Internet]. Brasília: Instituto Nacional do Câncer; 2023 [cited 2023 Jun 20]. Available from: https://bit.ly/3uS7uNz
- Silva LG, Andrade GO, Leonhardt V, Bezerra MLR. A importância da prevenção do câncer de colo do útero: revisão integrativa. Res Soc Dev. 2021;10(15):e533101523334. https://doi.org/10.33448/rsd-v10i15.23334
- Pecinato V, Jacobo A, Silva SG. Mortality trends of breast and cervical cancer in Passo Fundo, Rio Grande do Sul: an analysis by age and schooling, 1999-2019. Epidemiol Serv Saúde.

- 2022;31(3): e2022440. https://doi.org/10.1590/s2237-96222022000300021 PMid:36629594 PMCid:PMC9887960
- Anjos EF, Andrade KB, Martins PC, Paiva JAC, Prado NMBL, Santos AM. Professionals' practice and quality of actions to control cervical cancer: a cross-sectional study. Esc Anna Nery Rev Enferm. 2022;26:e20210137. https://doi.org/10.1590/2177-9465-ean-2021-0137
- Maciel NS, Luzia FJM, Ferreira DS, Ferreira LCC, Mendonça VM, Oliveira AWN, et al. Active search to increase adherence to the pap smear test. Rev Enferm UFPE on line. 2021;15:e245678. https://doi.org/10.5205/1981-8963.2021.245678
- Whittemore R, Knafl K. The integrative review: updated methodology. J Adv Nurs. 2005;52(5):546-53. https://doi.org/10.1111/j.1365-2648.2005.03621.x PMid:16268861
- Lockwood C, Porrit K, Munn Z, Rittenmeyer L, Salmond S, Bjerrum M, et al. Chapter 2: Systematic reviews of qualitative evidence. In: Aromataris E, Munn Z, editors. JBI Manual for Evidence Synthesis [Internet]. Adelaide: Joanna Briggs Institute; 2020 [cited 2021 Aug 6]. https://doi.org/10.46658/JBIRM-17-02
- 12. Ouzzani M, Hammady H, Fedorowicz Z, Elmagarmid A. Rayyan a web and mobile app for systematic reviews. Syst Rev. 2016;5(1):210. https://doi.org/10.1186/s13643-016-0384-4 PMid:27919275 PMCid:PMC5139140
- Correio KDL, Ramos AIG, Santos RLG, Bushatsky M, Correio MBSCB. Control of cervical cancer: actions taken by nurses based on collective subject discourse. Rev Pesqui (Univ Fed Estado Rio J Online). 2015;7(2):2425-39. https://doi.org/10.9789/2175-5361.2015.v7i2.2425-2439

- Lima TM, Nicolau AIO, Carvalho FHC, Vasconcelos CTM, Aquino PS, Pinheiro AKB. Telephone interventions for adherence to colpocytological examination. Rev Latinoam Enferm. 2017;25:e2844. https://doi.org/10.1590/1518-8345.1683.2844
- Nepomuceno CC, Fernandes BM, Almeida MIG, Freitas SC, Bertocchi FM. Auto preenchimento da ficha clínica no rastreamento do câncer de colo uterino: percepções da mulher. Rev Enferm Cent O Min. 2015 [cited 2023 Dec 12];5(1):1401-10. Available from: https://bit.ly/3GDwCdG
- Vasconcelos CTM, Pinheiro AKB, Nicolau AIO, Lima TM, Barbosa DFF. Comparison among the efficacy of interventions for the return rate to receive the pap test report: randomized controlled clinical trial. Rev Latinoam Enferm. 2017;25:e2857. https://doi.org/10.1590/1518-8345.1337.2857
- Dias EG, Carvalho BC, Alves NS, Caldeira MB, Teixeira JAL. Atuação do enfermeiro na prevenção do câncer do colo de útero em Unidades de Saúde. J Health Biol Sci. 2021;9(1):1-6. https://doi.org/10.12662/2317-3076jhbs.v9i1.3472.p1-6.2021
- Silva GA, Alcantara LLM, Tomazelli JG, Ribeiro CM, Girianelli VR, Santos ÉC, et al. Avaliação das ações de controle do câncer de colo do útero no Brasil e regiões a partir dos dados registrados no Sistema Único de Saúde. Cad Saude Publica. 2022;38(7): e00041722. https://doi.org/10.1590/0102-311xpt041722 PMid:35894365
- Oliveira RL, Lima LAS, Ramos LGA. A. Assistência do enfermeiro na educação em saúde, no câncer de colo do útero. RSD. 2021;10(4): e1210413728. https://doi.org/10.33448/rsd-v10i4.13728
- Ferreccio C. Nuevas estrategias de prevención y control de cáncer de cuello uterino en Chile. Salud Publica Mex. 2018;60(6):713-21. https://doi.org/10.21149/8577 PMid:30699276
- Melo EMF. A importância da realização do exame preventivo em mulheres acima dos 40 anos. Saude Colet. [Internet]. 2011 [cited 2023 Jan 10];8(54):249-52. Available from: www.redalyc.org/pdf/842/84221108006.pdf
- 22. Ministério da Saúde, Brasil. Portaria de Consolidação no 2, de 28 de setembro de 2017. Consolidação das normas sobre as políticas nacionais de saúde do Sistema Único de Saúde [Internet]. Brasília, DF; 2017 [cited 2020 May 10]. Available from:
 - https://bvsms.saude.gov.br/bvs/saudelegis/gm/2017/prc000 2_03_10_2017.html
- Reis TCR, Figueiredo MFS, Souza LPS, Silva JR, Amaral AKM, Messias RB, et al. Educação em saúde: aspectos históricos no Brasil. J Health Sci Inst [Internet]. 2013 [cited 2023 Mar 20];31(2):219-23. Available from: https://bit.ly/3RDYMeK
- Freire P. Pedagogia do oprimido. Rio de Janeiro: Paz e Terra;
 1978.

- 25. Fittipaldi ALM, O'Dwyer G, Henriques P. Educação em saúde na atenção primária: as abordagens e estratégias contempladas nas políticas públicas de saúde. Interface (Botucatu, Online). 2021;25:e200806. https://doi.org/10.1590/interface.200806
- Souza ACC, Moreira TMM, Borges JWP. Educational technologies designed to promote cardiovascular health in adults: integrative review. Rev Esc Enferm USP. 2014;48(5):941-8. https://doi.org/10.1590/S0080-6234201400005000023 PMid:25493501
- 27. Silveira MS, Cogo ALP. The contributions of digital technologies in the teaching of nursing skills: an integrative review. Rev Gaúch Enferm. 2017;38(2):e66204. https://doi.org/10.1590/1983-1447.2017.02.66204 PMid:28723986
- Lavender T, Richens Y, Milan SJ, Smyth RMD, Dowswell T. Telephone support for women during pregnancy and the first six weeks postpartum. Cochrane Database Syst Rev. 2013;2013(7):CD009338. https://doi.org/10.1002/14651858.CD009338.pub2
 - https://doi.org/10.1002/14651858.CD009338.pub2 PMid:23881662 PMCid:PMC8078598
- Oriá MOB, Dodou HD, Chaves AFL, Santos LMDA, Ximenes LB, Vasconcelos CTM. Effectiveness of educational interventions conducted by telephone to promote breastfeeding: a systematic review of the literature. Rev Esc Enferm USP. 2018;52:e03333. https://doi.org/10.1590/s1980-220x2017024303333 PMid:30043928
- Moretto IG, Contim CLV, Espírito Santo FH. Telephone followup as a nursing intervention for patients receiving outpatient chemotherapy: integrative review. Rev. Gaúch. Enferm. 2019;40:e20190039. https://doi.org/10.1590/1983-1447.2019.20190039 PMid:31553375
- 31. Machado TMD, Santana RF, Hercules ABS. Telecare central: nursing intervention perspective. Cogitare Enferm. 2020;25:e66666. https://doi.org/10.5380/ce.v25i0.66666
- 32. Becker TAC. O acompanhamento por telefone como estratégia de intervenção de3 enfermagem no processo de aplicação de insulina no domicílio [Dissertação de Mestrado]. Ribeirão Preto: Universidade de São Paulo; 2010 [cited 2023 Mar 22]. Available from: https://bit.ly/3TmuYVd
- Santos JN, Gomes RS. Women's Feelings and Perceptions about Cervical Cancer Preventive Practices: Integrative Literature Review. Rev Bras Cancerol. 2022;68(2):e-031632. https://doi.org/10.32635/2176-9745.RBC.2022v68n2.1632
- 34. Freire P. À sombra desta mangueira. São Paulo: Olho d'Água;
- Heidemann ITSB, Almeida MCP. Freire's dialogic concept enables family health program teams to incorporate health promotion. Public Health Nurs. 2011;28(2):159-67. https://doi.org/10.1111/j.1525-1446.2010.00898.x PMid:21732970

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Study conception and design: MCNSEM, MCNP, AGNF Data analysis and interpretation: MCNSEM, MCNP, AGNF

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Critical review of the text: MCNSEM, AGNF, LMSJ, ACPJC, ASAG, MCNP Final approval of the manuscript*: MCNSEM, AGNF, LMSJ, ACPJC, ASAG, MCNP

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