ABSTRACT

Objectives: to analyze the screening for cervical cell atypias in women assisted in Primary Care. Methods: quantitative, retrospective and cross-sectional study, with analysis of 190 medical records of women who had atypical results from the cervical cytopathological exam collection from 2012 to 2014. Results: the most frequent atypias found were possibly Non-neoplastic squamous (ASC-US, 57.4%) and Low-grade intraepithelial lesion (LSIL, 23.2%). The time elapsed between the exam and the result was 24 days. The professional's conduct after the result of the last cervical cytopathology was adequate for 51.1% of women. Conclusions: there is a need to improve the cervical cancer screening program and correctly target the atypia identified, aiming at the access of the target population for the diagnostic investigation and treatment of precursor lesions of cervical cancer.

Descriptors: Cervical Intraepithelial Neoplasia; Mass Screening; Uterine Cervical Dysplasia; Primary Health Care; Health Promotion.

RESUMO

Objetivos: analisar o rastreamento das atipias celulares de colo de útero em mulheres assistidas na Atenção Primária. Métodos: estudo quantitativo, retrospectivo e transversal, com análise de 190 prontuários de mulheres que apresentaram atipias no resultado da coleta de exame citopatológico cervical no período de 2012 a 2014. Resultados: as atipias mais frequentes encontradas foram Escamosas possivelmente não neoplásicas (ASC-US, 57,4%) e Lesão intraepitelial de baixo grau (LSIL, 23,2%). O tempo transcorrido entre a realização do exame e a chegada do resultado foi de 24 dias. A conduta do profissional após o resultado da última citopatologia cervical foi adequada para 51,1% das mulheres. Conclusões: há necessidade de aprimorar o programa de rastreamento de câncer de colo do útero e de direcionar corretamente as atipias identificadas, visando ao acesso da população-alvo para a investigação diagnóstica e tratamento das lesões precursoras do câncer de colo uterino. Descritores: Neoplasia Intraepitelial de Colo do Útero; Programas de Deteccao; Displasia do Colo do Útero; Atenção Primária de Saúde; Promoção da Saúde.

RESUMEN

Objetivos: analizar la detección de las atipias celulares del cuello uterino en mujeres asistidas en la Atención Primaria. Métodos: estudio cuantitativo, retrospectivo y transversal, con análisis de 190 historias clínicas de mujeres que presentaron atipias en el resultado de la recogida de examen histopatológico cervical en el periodo de 2012 a 2014. Resultados: las atipias más frecuentes encontradas han sido Escamosas posiblemente no neoplásicas (ASC-US, 57,4%) y Lesión intraepitelial de bajo grado (LSIL, 23,2%). El tiempo transcurrido entre la realización del examen y la llegada del resultado ha sido de 24 días. La conducta del profesional después del resultado de la última citopatología cervical ha sido adecuada para 51,1% de las mujeres. Conclusiones: hay necesidad de perfeccionar el programa de detección del cáncer del cuello uterino y de orientar correctamente las atipias identificadas, visando al acceso de la población objetivo para la investigación diagnóstica y tratamiento de las lesiones precursoras del cáncer de cuello uterino.

Descriptores: Neoplasia Intraepitelial de Cuello Uterino; Programas de Detección; Displasia del Cuello Uterino; Atención Primaria de Salud; Promoción de la Salud.
INTRODUCTION

Cancer is a leading cause of death worldwide\(^1\). In Brazil, in the 2018-2019 biennium, it was estimated that 600 thousand new cases of cancer occur each year\(^2\). Cervical cancer is one of the most serious threats to women’s lives. About a million women suffer from the disease in the world, and most of them are in underdeveloped and developing countries\(^3\).

In general, cervical cancer (CC) starts from the age of 30, increasing its risk quickly until reaching its peak age, between 50 and 60 years. In our country, this pathology has progressively affected a larger number of women in increasingly younger age groups and with an increasing mortality rate\(^4\).

Considered as a progressive disease, the CC is characterized by cervical intraepithelial changes, which can develop to an invasive stage over one to two decades. Its characteristic is the disordered replication of the organ lining epithelium, compromising the underlying tissue (stroma), which can invade contiguous or distant structures and organs\(^5\).

There are two main categories of invasive carcinomas of the cervix, depending on the origin of the compromised epithelium: squamous cell carcinoma, the most incident type and affecting the squamous epithelium, which represents about 80% of the cases; and adenocarcinoma, a rarer type that affects the glandular epithelium. Because of its well-defined and slow evolution stages, cervical cancer allows its interruption from an early diagnosis and timely treatment at reduced costs\(^6\).

Currently, 44% of cases are precursor lesions of cancer, called in situ, considered localized. Women diagnosed early, with proper treatment, have almost 100% chance of being cured\(^7\).

For the screening of cervical cancer, Brazil adopts the Pap smear technique, offered in the public and private service to women who have active and non-active sex lives, as well as women in menopause, those who have undergone partial hysterectomy and are pregnant\(^8\).

Despite primary and secondary prevention measures, cervical cancer continues to have high rates of incidence and mortality, especially in countries with low and medium income per capita\(^9\).

Considering the importance of CC prevention to reduce its incidence and mortality among women in our country, it is essential that health and operational actions are directed to a screening program capable of guaranteeing access and treatment whenever necessary.

OBJECTIVES

To analyze the screening for cervical cell atypias in women assisted in Primary Care.

METHODS

Ethical aspects

The development of the study complied with national standards for research involving human beings, since, prior to data collection, it was submitted to the Municipal Health Secretariat of São Paulo, at the Regional Health Coordination North, and to the Research Ethics Committee of the university to which it is related.

Study type and location

Quantitative, retrospective and cross-sectional study prepared according to the guidelines of the Strengthening the Reporting of Observational Studies in Epidemiology (STROBE)\(^9\), carried out in a Basic Health Unit (BHU) located in the northern region of the city of São Paulo. It is a mixed unit consisting of two distinct assistance models, called traditional BHU and BHU Family Health Strategy (FHS).

Women registered in the traditional BHU assistance model are assisted by specialist doctors in the area of obstetrics and gynecology and by nurses who provide free-demand care from the user’s demand for assistance; and those registered in the FHS assistance model are assisted by general practitioners and a family health nurse, in medical and/or nursing consultation. The FHS model aims to be proactive in identifying the problems in the health-disease process, through the registration and continuous and comprehensive monitoring of users and their families inserted in a community defined by territorial limits.

Population, sample, period, eligibility criteria

The population consisted of 5,996 records of women assisted in the referred BHU, with 2,675 (44.6%) records of the traditional care model and 3,321 (55.4%) of the FHS care model, from February 2012 to December 2014.

The study included women aged 14 years and over who resided in the area covered by the Technical Health Supervision of the northern region of the city of São Paulo and who underwent cytological screening by means of a smear stained by the Pap smear during that period. The choice for age was solely due to the fact that, from the age of 14 onwards, the search for health care services for women arising from gynecological complaints begins. No exclusion criteria were used. The option to cut time was based on the availability of medical records by BHU management. The sample was obtained after analyzing the reports present in the 5,996 medical records. Thus, it was composed of 190 medical records of women assisted at BHU who presented a record of cell atypias, corresponding to 3.2% of the assisted population. Of these, 91 belonged to the Traditional model and 99 to the FHS, with cervical cell atypias as a result of the cervical cytological exam collection during the studied period.

Study variables

The studied variables were stratified in sociodemographic and related to the collection of the cytological exam; time between taking the exam and the result and consultation; cytological examination results. The atypias were evaluated and classified according to the Brazilian Nomenclature for Cervical Cytopathological Reports of the National Cancer Institute (INCA)/Ministry of Health (MS)\(^10\), such as: Atypical Cells of Undetermined Significance (Possibly Non-Neoplastic Squamous [ASC-US]), High-Grade Squamous Intraepithelial Lesion cannot be ruled out [ASC-H], Glandular Possibly Non-Neoplastic and Glandular...
in which High-Grade Intraepithelial Lesion cannot be ruled out (AGC), Atypias in Squamous Cells (Low-Grade Intraepithelial Lesion, comprising HPV and NIC grade I LSIL cytopathic effect and High-Grade Intraepithelial Lesion including NIC grades II and III HSIL) and Atypias in Glandular Cells.

The analysis of the conduct of the professionals responsible for the collection is performed after atypia evaluation in the cytological exam. For that, the recommended Guidelines for Cervical Cancer Screening of the MS and INCA were considered, which considers the repetition of the exam in six months in the Atypias of Undetermined Significance in Possibly Non-Neoplastic Squamous Cells (ASC-US) or Low-Grade Intraepithelial Lesion (LSIL); colposcopy request in Atypias of Undetermined Significance in High-Grade Epithelial Lesion, Squamous Cells in which High-Grade Lesion cannot be ruled out (ASC-H), Glandular Cells (AGC), as well as in High-Grade Intraepithelial Lesion (HSIL). As not adequate, it considers any and all conduct that is different from those recommended by the Guidelines for the Screening of Cervical Cancer[11].

Data analysis

To simultaneously assess the effects of potential factors associated with the type of conduct received by the service user according to the “adequate” or “not adequate” guidelines, logistic regression was used. The existence of associations between two categorical variables was verified using the chi-square test or, alternatively, in cases of small samples, of Fisher’s exact test. The comparison of means between two groups was performed using the Student’s t test for independent samples. For the analysis of all statistical tests, a significance level of 5% was considered, with the computational support of the software IBM SPSS 20.0 Statistical Package for the Social Sciences, Stata 12 and Excel 2016 (Microsoft Office).

RESULTS

It was observed that women were also assisted by the traditional BHU and the FHS model (p = 0.320). It was found that, at least once a year, 33.7% of them had a medical consultation; and 30.5%, nursing consultation on women’s health. Additionally, 65.3% had one year between the Pap smear exams, 61.6% of which were performed by nurses.

The results revealed that 57.4% of women with some cervical cell atypia were of Undetermined Significance in Possibly Non-Neoplastic Squamous Cells (ASC-US) and 23.2%, Low-Grade Squamous Intraepithelial Lesion (LSIL). However, Atypias of Undetermined Significance in Squamous Cells (ASC-H) and Atypias of Undetermined Significance in Glandular Cells (AGC) in which High-Grade Lesion cannot be ruled out and High-Grade Squamous Intraepithelial Lesion (HSIL) were low, lower at 5% (Table 1).

As for the conduct of the professional responsible for the collection, it was observed that 51.1% of women received adequate conduct after the result of the last cervical cytopathology. However, 41% received inappropriate conduct and 7.9% did not receive any conduct. It was found that, on average, women who received adequate conduct had a shorter time between the examination and the arrival of the result at BHU (average of 25 days) compared to those who received inappropriate conduct (average of 29 days). However, there was no statistically significant difference (p = 0.046) (Table 2).

After knowledge of the altered examination result, the adequacy of the conduct received by the women regarding the recommendations of the MS was assessed. Among the appropriate conducts, it was considered, in 67.9%, to repeat the exam in six months in Atypias of Undetermined Significance in Possibly Non-Neoplastic Squamous Cells (ASC-US) and in 13.6% in cases of Low-Grade Intraepithelial Lesion (LSIL). The results found also reveal that, in 50% of the Atypia of Undetermined Significance in High-Grade Epithelial Lesion, Squamous Cells in which High-Grade Lesion cannot be ruled out (ASC-H) and in 45.5% of Glandular Cells (AGC), there was a conduct considered adequate, related to the request for the colposcopy exam (Table 3).

When considering as final outcome the association between the conduct and the result of the last cervical cytopathology as the final outcome, it was observed that women diagnosed with ASC-US had a higher percentage of follow-up through the annual gynecological routine (51.3%) compared to women with ASC-H (0%) and HSIL (0%). In the semi-annual gynecological routine, women with ASC-H had a higher percentage of follow-up (75.0%). However, the number of women who abandoned follow-up is noteworthy (Table 4).

The association between the professional’s conduct and the result of the last cervical cytopathology was verified (p < 0.001). Thus, it was identified that the group of users with ASC-US had a higher percentage of adequate referrals performed by the professional who assisted them (67.9%) (Table 5).

Table 1 - Distribution of women as a result of the last cervical cytopathology and respective 95% confidence intervals, São Paulo, São Paulo, Brazil, 2014

| Variable | n (%) | 95% confidence interval |
|----------|-------|-------------------------|
| Total | 190 (100.0%) | - |
| ASC-US: Atypical cells of undetermined significance, possibly non-neoplastic, squamous | 109 (57.4%) | (50.0% - 64.5%) |
| ASC-H: Atypical cells of undetermined significance, squamous in which a high-grade lesion cannot be ruled out | 8 (4.2%) | (1.8% - 8.1%) |
| AGC: Atypical cells of undetermined significance, possibly non-neoplastic glandular cells | 22 (11.6%) | (7.4% - 17.0%) |
| AGC: Atypical cells of undetermined significance, glandular in which a high-grade lesion cannot be ruled out | 1 (0.5%) | (0.0% - 2.9%) |
| LSIL: Squamous cell atypias, low-grade intraepithelial lesion (comprising HPV cytopathic effect and grade I cervical intraepithelial neoplasia) | 44 (23.2%) | (17.4% - 29.8%) |
| HSIL: Atypias in squamous cells, high-grade intraepithelial lesion (comprising grade II and III cervical intraepithelial neoplasms) | 6 (3.1%) | (1.2% - 6.7%) |
Table 2 – Time between collection and result and time between collection and consultation by type of conduct, São Paulo, São Paulo, Brazil, 2014

| Variable | Mean | Standard deviation | Minimum | Maximum | 1st Quartile | Median | 3rd Quartile | n | p |
|----------|------|--------------------|---------|---------|--------------|--------|--------------|---|----|
| Time between taking the exam and arriving at BHU (days) | 27.5 | 12.9 | 11.0 | 89.0 | 20.0 | 25.0 | 30.0 | 175 | 0.046 |
| Adequate | 25.7 | 11.2 | 11.0 | 80.0 | 19.0 | 23.0 | 28.5 | 97 | |
| Not adequate | 29.7 | 14.6 | 13.0 | 89.0 | 20.0 | 27.0 | 33.0 | 78 | |
| Time between taking the exam and consulting at BHU (months) | 2.9 | 2.1 | 1.0 | 12.0 | 2.0 | 2.0 | 3.0 | 175 | 0.124 |
| Adequate | 2.5 | 2.4 | 1.0 | 12.0 | 2.0 | 2.0 | 4.0 | 97 | |
| Not adequate | 2.6 | 1.7 | 1.0 | 9.0 | 2.0 | 2.0 | 3.0 | 78 | |

Note: p – Descriptive level of Student’s t-test; BHU - Basic Health Unit.

Table 3 – Adequacy of medical management after evaluation of cervical cytopathology results, São Paulo, São Paulo, Brazil, 2014

| Variable | n | % |
|----------|---|---|
| ASC-US: Atypical cells of undetermined significance, possibly non-neoplastic squamous | 109 | 100.0 |
| Adequate | 74 | 67.8 |
| Repeat the exam in six months | | |
| Not adequate | 35 | 25.0 |
| Priority referral for medical consultation | 3 | 2.8 |
| Colposcopy request | 18 | 16.5 |
| Was not conducted | | |
| Was not conducted, as the patient left the BHU area | 3 | 2.8 |
| Was not conducted, because the patient did not come to get the result of the OC | 11 | 10.1 |
| ASC-H: Atypical cells of undetermined significance, squamous in which a high-grade lesion cannot be ruled out | 8 | 100.0 |
| Adequate | 4 | 50.0 |
| Colposcopy request | | |
| Not adequate | 2 | 25.0 |
| Priority referral for medical consultation | 2 | 25.0 |
| Repeat the exam in six months | | |
| AGC: Atypical cells of undetermined significance, possibly non-neoplastic glandular cells | 22 | 100.0 |
| Adequate | 10 | 45.5 |
| Colposcopy request | | |
| Not adequate | 11 | 50.0 |
| Repeat the exam in six months | | |
| Was not conducted | 1 | 4.5 |
| Patient abandoned BHU area | | |
| AGC: Atypical cells of undetermined significance, glandular in which a high-grade lesion cannot be ruled out | 1 | 100.0 |
| Not adequate | 1 | 100.0 |
| Priority referral for medical consultation | | |
| LSIL: Squamous cell atypia, low-grade intraepithelial lesion (comprising HPV cytopathic effect and grade I cervical intraepithelial neoplasia) | 44 | 100.0 |
| Adequate | 6 | 13.6 |
| Repeat the exam in six months | | |
| Not adequate | 35 | 79.6 |
| Priority referral for medical consultation | 3 | 6.8 |
| Colposcopy request | | |
| HSIL: Atypia in squamous cells, high-grade intraepithelial lesion (comprising grade II and III cervical intraepithelial neoplasms) | 6 | 100.0 |
| Adequate | 3 | 50.0 |
| Colposcopy request | | |
| Not adequate | 3 | 50.0 |
| Priority referral for medical consultation | | |

Note: BHU - Basic Health Unit; OC - Oncotic Cytopathology.

Table 4 – Final conduct, according to the result of the last cervical cytopathology, São Paulo, São Paulo, Brazil, 2014

| Variable | Annual gynecological routine | Semi-annual Semester gynecological routine | In high-risk treatment | Abandonment of treatment | Total |
|----------|-------------------------------|------------------------------------------|-----------------------|-------------------------|-------|
| | n | % | n | % | n | % | n | % | n | % |
| Result of the last cervical cytopathology | 76 | 40.0% | 66 | 34.7% | 10 | 5.3% | 38 | 20.0% | 190 | 100.0% |
| ASC-US: Atypical cells of undetermined significance, possibly non-neoplastic, squamous | 56 | 51.3% | 26 | 23.9% | 3 | 2.8% | 24 | 22.0% | 109 | 100.0% |

To be continued
Table 5 – Professional conduct according to the result of the last cervical cytopathology, São Paulo, São Paulo, Brazil, 2014

| Variable                                                                 | Conduct                      | Adequate | Not adequate | There was no conduct | Total |
|-------------------------------------------------------------------------|------------------------------|----------|--------------|----------------------|-------|
|                                                                           | Annual gynecological routine | n        | %            | n        | %            | n       | %    |
| ASC-H: Atypical cells of undetermined significance, squamous in which a high-grade lesion cannot be ruled out | 0                             | 0.0%     |              | 6        | 75.0%        | 25%     | 0.0%  | 8 100.0% |
| AGC: Atypical cells of undetermined significance, possibly non-neoplastic glandular cells | 8                             | 36.4%    |              | 7        | 31.8%        | 0%      | 0.0%  | 22 100.0% |
| AGC: Atypical cells of undetermined significance, glandular in which a high-grade lesion cannot be ruled out | 0                             | 0.0%     |              | 0        | 0.0%         | 100.0%  | 0.0%  | 1 100.0% |
| LSIL: Atypia in squamous cells, low-grade intraepithelial lesion (comprising HPV cytopathic effect and grade I cervical intraepithelial neoplasia) | 12                            | 27.3%    |              | 26       | 59.0%        | 1%      | 2.3%  | 44 100.0% |
| HSIL: Atypia in squamous cells, high-grade intraepithelial lesion (comprising grade II and III cervical intraepithelial neoplasms) | 0                             | 0.0%     |              | 1        | 16.7%        | 3%      | 50.0% | 6 100.0% |

Note: Fisher’s exact test (p < 0.001).

DISCUSSION

Currently, at Unified Health Services (SUS), cervical cancer prevention and control actions are structured at BHU and in the organized incorporation of cytopathology, histopathology and specialized hospitals. These actions are monitored by the Cervical Cancer Information System (SISCOLO), which still does not allow identification of the number of women examined, but only the number of tests performed and data on colposcopy and biopsy results(12).

The Cervical Cancer Care Line has the purpose of ensuring women humanized and integral access to qualified actions and services. These actions must be organized based on some guidelines, among them: Prevention and early detection, National Cytology Quality Program, Access to diagnostic confirmation, Adequate and timely treatment(13).

In Brazil, the distinct economic-cultural, regional and even intra-urban characteristics found are capable of generating a pattern in which factors related to poverty and development coexist(14).

A study by the State University of Campinas revealed that the marital status was the only variable that showed a significant association with the performance of oncotic cytology, similar to the findings of other studies according to which married women or partners have a higher prevalence in the examination compared to those without a partner. This result may indicate that women consider it necessary to have Pap smears only in situations of active sexual life(15).

It is noteworthy that women were equally assisted in both traditional and FHS models (p = 0.320). Thus, the study reveals...
that the fact that they were not assisted by a specialist doctor, a gynecologist, did not interfere with assistance in general, that is, general practitioners and nurses were able to provide equal care for women with changes in cytopathological examination.

It was shown that just over 30% of women attended medical and nursing consultations once a year; result below expectations, since, depending on the result of the atypia presented, this frequency should be higher. Thus, if the woman had atypia ASC-US and LSIL, she should return to the consultation in six months for a new collection of oncotic cytology. In the atypias ASC-H, AGC and HSIL, their return should occur in a maximum of three months for the evaluation of the colposcopy result, a fact that hardly occurred.

The Brazilian guidelines are clear when determining the period of three months for the referral to the unit where the cytopathological examination was performed, until the colposcopy was obtained by women up to 20 years old, with a report of high-grade intraepithelial lesion (HSIL) and of immediate colposcopy for cases of High-Grade Intraepithelial Lesion, which cannot exclude microinvasion or invasive squamous cell carcinoma (ASC-H). On the other hand, a three-year periodicity is recommended after two negative annual controls(11).

It is important to note that colposcopy is not a cervical cancer screening tool, but it is an essential test for clarifying abnormal Pap test results(11).

The time between the exam and the result at the BHU was 27.1 days. This interval is noticeable considering that it is similar in all basic health units in the city of São Paulo. The average time between the exam and the return visit to obtain the result was 10.5 months. This fact leads to the question that problems in the quality of the collection procedures, in the agility of the results and in the timely treatment of lesions, often resulting from deficiencies in the structure and work process of the Primary Care services, may have a negative impact on the occurrence of cervical cancer(17). In this sense, the interventions used to implement cervical cancer prevention programs include the use of a case manager, telephone contact, invitation letter, educational activities, dissemination in the media, community health agents and partnerships. All of these actions have positive results in increasing the participation of women and are of low financial cost(11).

The data revealed that, in 51.1% of women, the professional’s conduct was adequate after the result of the last cervical cytopathology. However, it still stands out that, in 41%, the conduct was not adequate, and 7.9% did not have any type of conduct. Considering that primary care assistance aims at the prevention and control of cervical cancer with the aim of early diagnosis and reduction of morbimortality, inappropriate conduct seeks to be revised, as they can cause inefficiency in the public health system and irrational use of resources with low resolution.

Such results are similar to those obtained in the cross-sectional study in the women's health care network focused on the diagnosis of cervical cancer in the health micro region of Nova Andradina, Mato Grosso do Sul, where there was non-conformity between test results and interventions. In 78% of low-grade non-neoplastic lesions, women were referred to Secondary Care services, and 21% of those with lesions that should be referred were treated at the primary level. This result demonstrates a lack of communication between points of care, such as Primary Care as a gateway, followed by medium and high complexity, equipment of different technological densities distributed spatially and absence of reference and counter-reference protocols(11).

When considering the group of users with ASC-US, a low-severity disease for most women, a conservative, non-invasive approach is recommended. Factors such as the woman’s age and previous cytopathological screening should be considered in this decision. The Ministry of Health recommends starting screening for cervical cancer at age 25 for women who have already started sexual activity. After two negative exams with an annual break, the break between exams should be three years. They must continue until the age of 64 and be discontinued when, after that age, women have had at least two consecutive negative tests in the last five years(11).

On the other hand, the group of women who had LSIL received referrals, mostly (86.4%), classified as not suitable since these women were referred primarily to medical consultation or were asked to have colposcopy. In this sense, the initial recommendation of the Cervical Cancer Screening Guidelines recommended by the Ministry of Health is that women with a cytopathological diagnosis of LSIL should repeat the cytopathological examination in six months in the Primary Care unit. Understanding the natural history of HPV infection supports the postponement of the investigation, avoiding overdiagnosis or overtreatment induced by the approach to lesions that tend to spontaneous regression. If the repeat cytolgy is negative in two consecutive exams, the user must return to the triennial cytopathological screening routine in the Primary Care unit. If any subsequent cytolgy is positive, it should be referred to the colposcopy referral unit(11).

According to results obtained in the present study, of the 190 women with atypias, 44 (23.2%) had LSIL. Of these, 6 (13.6%) received proper conduct; and 38 (86.4%), not adequate - according to national guidelines. It was observed that, for 35 (92.1%) of these, there was a request for colposcopy, and 24 (68.6%) performed it. Regarding the final outcome after analyzing the results of these 44 women, 12 (27.3%) returned to the annual gynecological routine, 26 (59.0%) to the semester, only 1 (2.3%) was referred to high risk due to atypia complication and, finally, 5 (11.4%) abandoned the treatment (Tables 1 and 4).

Women with ASC-H or LSIL, on the other hand, had the highest percentage (above 59%) of follow-up of the semi-annual gynecological routine. Likewise, women with HSIL had the highest percentage (50%), compared to other women, of being referred for treatment at high risk (Table 4). Recalling that all women with ASC-H cytopathological report should be referred to the secondary unit for colposcopy, after which it should be considered whether it is satisfactory or unsatisfactory. For women in whom the test is satisfactory and without colposcopic changes, a new cytology should be obtained in six months, in the secondary unit, and the return to the primary unit should occur after two consecutive negative cytologies(11).

It is known that all women who present cytology suggestive of a high-grade lesion (HSIL), in the Primary Care Unit, should be referred to the Secondary Reference Unit for colposcopy.
within three months after the result. The repetition of cytology is unacceptable as an initial conduct. It highlights the relevance of the Brazilian guideline for cervical cancer screening, which aims to disseminate evidence-based recommendations to guide health professionals' decision-making and promote the safety and quality of care offered to women. Thus, assistance in Primary Care, carried out by health professionals, doctors and nurses, can directly interfere with efficiency, resolving capacity and adequate use of resources destined to assistance programs and protocols in public health services based on the best scientific evidence.

**Study limitations**

The lack of previous research on the topic addressed presented itself as one of the limitations of the study, but it provided an opportunity to identify new gaps in the literature and, consequently, new investigations.

**Contributions to the field of Nursing**

The result of this study may serve as a basis for future studies in this area, as well as contributing to the promotion of safety and quality of care offered to women assisted in Primary Care.

**CONCLUSIONS**

The results of this study show the need to improve the screening program and correctly target cell atypias of the cervix, aiming to guarantee the referral and access of the target population for the diagnostic investigation and treatment of precursor lesions, when indicated, which contribute to the rational use of financial resources for health. The importance of humanized care by the professionals who perform the welcoming of women is emphasized, who should not be judged as passive social subjects, since they have unique values and have the power to decide on their respective bodies.

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