

Short Communication

Validation of the colposcopic report for screening intraepithelial lesions and cervical cancer

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ABSTRACT

For optimal cervical cancer care pathway, effective communication among colposcopist professionals regarding colposcopic findings, diagnosis, and treatment of intraepithelial lesions is crucial; standardization of the colposcopic report may serve as a beneficial strategy for this purpose. Elaborate and validate the colposcopic report for screening intraepithelial lesions and cervical cancer using a committee of specialists. This validation study used the item-level content validity index (I-CVI) to verify the agreement of judges per item, and the scale-level content validity index (S-CVI) to determine the mean of the proportion of items classified as "no disagreement"; items with an I-CVI \geq 0.80 and S-CVI \geq 0.90 were considered approved. The binomial test was used to select the items that should be revised based on the p value of the proportion (rejecting the H₀ if p \leq 0.8); statistical significance was set at p $<$ 0.05. Results: Seven judges participated in this study. The 11 items of the Colposcopic Report were validated, but items classified as "disagreement" (1, 2, 5, and 9) or "neither agree nor disagree" (3, 10, and 11) were taken to a consensus meeting. Six of the seven judges of the first stage participated in the consensus meeting. Suggestions for modifying item nine were not accepted, and item 11 underwent a slight modification. The colposcopic report was validated and achieved greater reliability, suggesting its inclusion in the cancer information system.

Keywords: Cervical squamous intraepithelial lesions, Colposcopy, Early cancer detection, Validation study, Uterine cervical neoplasms

INTRODUCTION

Colposcopy is used to screen high-grade intraepithelial lesions and cervical cancer. Reviews and meta-analysis studies compared this method with other technologies, with sensitivity ranging from 58% to 100% and specificity from 29% to 96%.¹⁻³ The variation observed in these measurement properties may be due to the screening method used (cytology or high-risk human papillomavirus [HPV] test), the age of the patient, and the number of

biopsies performed; however, the colposcopy performance is considered high quality.⁴

The first nomenclature to describe colposcopy was proposed by Hinselmann in 1933.⁵ Then, several nomenclatures were described, and the most recent was developed in 2011 by the nomenclature committee of the International Federation of Cervical Pathology and Colposcopy (IFCPC). This committee recommends that the colposcopy should be evaluated according to the adequacy of the examination, visibility of the

squamocolumnar junction, and type of transformation zone (TZ). Also, the location of the lesion (inside or outside the TZ), the definition of the lesion size, and the location of cervical lesions should be considered.⁶

Based on a retrospective study, the standardization of the interpretation of the colposcopic findings promoted by the IFCPC improved the accuracy of colposcopic diagnosis.⁶ However, some findings need to be discussed to qualify the diagnosis of high-grade intraepithelial lesions, such as the staining presented by Lugol's solution.⁷

In 2021, the World Health Organization published guidelines for the screening and treating intraepithelial lesions and invasive cervical cancer; they recommended the use of the DNA of the HPV as the primary screening test instead of visual inspection with acetic acid or cytopathological examination; however, these recommendations are based on "screening, triage and, treatment" approaches. Among the definitions of good practice for diagnosing and treating cervical lesions, some prefer the "screening followed by treatment", while others prefer the "screening, triage, and treatment". In the latter approach, the decision to treat is based on a positive screening result, followed by a second positive screening test with or without a confirmed histopathological diagnosis; colposcopy stands out as essential in this approach.⁸

In Brazil, the decision to treat is usually based on the "screening, triage, and treatment" approach; however, comprehensive and uniform standardization for the Colposcopic Report is still being determined. Thus, the present study aimed to construct and validate the content of the Colposcopic Report based on the terminology proposed by the IFCPC (2011). This validation seeks to integrate the protocol for the screening of intraepithelial lesions and cervical cancer in the state of Pernambuco.

METHODS

This study was conducted to validate the content of the colposcopic report using a committee of specialists (judges). They were selected based on at least one of the following criteria: (i) having a specialist degree in cervical pathology or colposcopy, (ii) working in this specialty for at least twenty years (or both). These criteria correspond to the first two of the five proposed by Jasper (i) having skill or knowledge acquired through experience; (ii) having skill or knowledge acquired in a specialization course; (iii) approval in a specific test to identify experts; (iv) having a high classification as experts assigned by an authority; and (v) having special skills to participate in this type of study.⁹ The invitation letter, informed consent form, questions related to the professional profile (judge selection criteria), and the colposcopic report proposal were sent by e-mail.

Nine specialists were invited, and seven participated in the validation, without needing to replace the loss based on

Pasquali's recommendation, which establishes a number of judges ranging from six to twenty.¹⁰

The colposcopic report comprises items: the macroscopic examination of the vulva and perianal region; overall assessment of colposcopy (conditions for examination); visibility of the squamocolumnar junction; TZ; abnormal colposcopic findings (location and grade 1 (minor) and grade 2 [major] findings); non-specific findings; Lugol's solution uptake; suspicion of invasion; and colposcopy referral.¹¹

The items were scored using the Likert scale¹¹ for non-disagreement: 2 points (no disagreement or totally agree), 1 point (agree), and 0 (neither agree nor disagree), and disagreement: -1 (disagree) and -2 (strongly disagree). The judges could write down their suggestions when the item was classified as "neither agree nor disagree", "disagree", or "strongly disagree".

The scale-level content validity index (S-CVI) was used to determine the mean of the proportion of items scored as "no disagreement" (S-CVI = sum of S-CVI/AVE points [scale-level content validity index, Average Calculation Method] divided by the total number of judges). An S-CVI ≥ 0.90 was considered approved in the validation.¹²

The item-level content validity index (I-CVI) was used to assess the degree of agreement among judges per item (i.e., the proportion of judges who scored positively or neutrally [no disagreement]). The mean proportion of "no disagreement" was calculated as the sum of "no disagreement" points divided by the total number of judges; the result was divided by the number of items. The item that obtained an I-CVI ≥ 0.80 was considered approved in the validation. The binomial test was used to select the items that should be revised or modified based on the p-value of the proportion (rejecting the H0 if $p \leq 0.8$); statistical significance was set at $p < 0.05$.¹⁰

To review, accept, or reject suggestions for modification on items classified as "disagreement" (1, 2, 5, and 9) or "neither agree nor disagree" (3, 10, and 11) in the first stage of this validation, a consensus meeting was held online on July 5, 2022.

Following Resolution 466/2012 of the National Health Council, this study was submitted to the research ethics committee of Hospital Agamenon Magalhães (CAAE: 63345522.8.0000.5197) and approved on 09/27/2022 (no. 1,814,698).

RESULTS

Four of the seven judges were women and all had worked as colposcopists for over twenty years.

Six of them held the title of qualification in lower genital tract pathology and colposcopy issued by the Associação Brasileira de Patologias do Trato Genital Inferior e

Colposcopia, which has the following prerequisites to take the title exam: present a medical graduation from a higher education institution approved by the Ministry of Education; complete a medical residency in gynecology and obstetrics at an official institution recognized by the Ministry of Education; having proof of an internship in pathology of the lower genital tract and colposcopy totaling 180 hours. The only judge without the qualification title in lower genital tract pathology and colposcopy met the requirements for taking the exam that granted this title, and participated in the study representing the health policy of women of the state of Pernambuco.

The mean of the proportion of items scored "no disagreement" (i.e., the S-CVI) was 0.94, evidencing that the Colposcopy Report was approved (Table 1). Also, the S-CVI/AVE values observed for 'no disagreement' were below ≥ 0.90 in only two out of the seven judges (judge 2=0.82 and judge 6=0.73). Table 2 shows that the mean proportion of "no disagreement" among the judges per item (I-CVI) was 0.93, which is above the acceptable validity coefficient (I-CVI ≥ 0.80). However, item 1 was not considered approved in the validation by the I-CVI (below 0.80). Nevertheless, the binomial test demonstrated that all 11 items were validated at a significance level of ≤ 0.05 .

Table 1: Proportion of judges not disagreeing with the items on the colposcopic report, and the respective scale content validity indices (S-CVI). Recife, Pernambuco, Brazil, 2022.

Judges	Disagreement		Not disagreement		Totally agree	Σn (%)	S-CVI/AVE (*)
	Strongly disagree	Disagree	Neither agree nor disagree	Agree			
1			5		6	11 (100.0)	1.00
2		2	2	3	4	9 (81.8)	0.82
3			1		10	11 (100.0)	1.00
4			1		10	11 (100.0)	1.00
5				1	10	11 (100.0)	1.00
6		3			8	8 (72.7)	0.73
7				1	10	11 (100.0)	1.00
							6.55
(**) S-CVI $6.55 \div 7 = 0.94$							

Source: Authors; S-CVI Validity Coefficient ≥ 0.90 ; (*) S-CVI/AVE (Scale-level Content Validity Index, Average Calculation Method); (**) S-CVI = Σ of S-CVI/AVE points \div No of judges.

Table 2: Validation of the colposcopic report performed by 7 judges, and the respective content validity indices at item level (I-CVI). Recife, Pernambuco, Brazil, 2022.

Items	Not disagreement		I-CVI	P value (*)
	Total	%		
1: Macroscopic examination of the vulva and perianal region	5	71.4	0.714	0.00671 (**)
2: General evaluation of colposcopy	6	85.7	0.857	0.00805 (**)
3: Visibility of the squamocolumnar junction	7	100.0	1.000	0.00939 (**)
4: Transformation zone (TZ)	7	100.0	1.000	0.00939 (**)
5: Abnormal colposcopic findings (localization)	6	85.7	0.857	0.00805 (**)
6: Abnormal colposcopic findings Grade 1 (Minor)	7	100.0	1	0.00939 (**)
7: Abnormal colposcopic findings Grade 2 (Major)	7	100.0	1	0.00939 (**)
8: Non-specific findings	7	100.0	1	0.00939 (**)
9: Lugol's solution uptake	6	85.7	0.857	0.00805 (**)
10: Suspected invasion	7	100.0	1	0.00939 (**)
11: Colposcopy referral	7	100.0	1	0.00939 (**)
Mean: 0.93				

Source: Authors; Validity coefficient I-CVI ≥ 0.80 ; (*) Binominal test, using the p value of the proportion, rejecting H0 if $p \leq 0.8$; (**) Validated items, at significance level ≤ 0.05 . Mean = Σ points of disagreement (=72) \div No of judges (=7) \div No of items assessed (=11).

Despite this result, the decision was made to hold a consensus meeting to present the judges with suggestions for modifying items classified as "disagreement" (1, 2, 5 and 9) or "neither agree nor disagree" (3, 10 and 11). The consensus meeting was conducted online, and six out of the seven judges from the first stage participated. Among

the four items with "disagreement", only the changes suggested for item 9 were not accepted, and among the three in the neutral position, only item 11 underwent a slight modification (Table 2).

Figure 2 shows the validated Colposcopic Report.

<p>Items with "disagreement" in the opinion of one of the judges.</p> <p>Item 1</p> <p>Before validation: Macroscopic examination of the vulva and perianal region. <input type="checkbox"/> No changes suggestive of HPV-induced lesions <input type="checkbox"/> With alterations suggestive of HPV-induced lesions: <input type="checkbox"/> Suggestive of condylomatosis <input type="checkbox"/> Suggestive of vulvar, perineal, or perianal intraepithelial lesion.</p> <p>After validation: Macroscopic examination of the vulva and perianal region. <input type="checkbox"/> Without changes <input type="checkbox"/> With changes</p> <p>Judge 1 and 3 "Neither agree nor disagree" Suggestion Judge 1: Lack of expertise in judging the Lichen suggestion. Suggestion Judge 3: We can't overburden those who have no training and who are willing to contribute to the Ladinum of the cervix, to be knowledgeable about abnormalities of the vulva. They are different places and require different skills.</p> <p>Judge 2 and 6 "Disagree" Suggestion Judge 2: I think it's important to describe whether or not there is a lesion on the perineal vulva, especially so that a diagnosis and treatment can be sought. It shouldn't say whether or not it's suggestive of HPV, because not everyone has mastered the diagnosis of vulvar lesions. Suggestion Judge 6: I disagree with giving details of injuries. I think it should just be with or without changes.</p>		<p>Before validation:</p> <p>General evaluation of colposcopy. <input type="checkbox"/> Adequate <input type="checkbox"/> Inadequate: <input type="checkbox"/> Intense bleeding <input type="checkbox"/> Intense inflammation <input type="checkbox"/> Scar <input type="checkbox"/> Cervix not visualized</p> <p>After validation:</p> <p>General evaluation of colposcopy <input type="checkbox"/> Adequate <input type="checkbox"/> Inadequate: <input type="checkbox"/> Intense bleeding <input type="checkbox"/> Intense inflammation <input type="checkbox"/> Scar <input type="checkbox"/> Intense atrophy</p> <p>Judge 6 "Disagree" Suggestion: The protocol does not include hysterectomized women, so do not include a non-visualized cervix.</p>	
	<p>Before validation:</p> <p>Abnormal colposcopic findings (localization) <input type="checkbox"/> Cervix <input type="checkbox"/> Inside the TZ <input type="checkbox"/> Outside the TZ <input type="checkbox"/> Vagina <input type="checkbox"/> Cervix and vagina</p> <p>No. of quadrants involved: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4</p>		
<p>Item 5</p> <p>After validation: Abnormal colposcopic findings (localization) <input type="checkbox"/> Cervix <input type="checkbox"/> Inside the TZ <input type="checkbox"/> Outside the TZ <input type="checkbox"/> Vagina No. of quadrants involved: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4</p> <p>Judge 1 "Neither agree nor disagree" Suggestion: you can remove "cervix and vagina"</p> <p>Judge 2 "Disagree" Suggestion: I would put the location according to "the time on the clock" and the size of the lesion in %.</p>	<p>Item 9</p> <p>No change: Lugol's solution uptake <input type="checkbox"/> Positive (stained) <input type="checkbox"/> Negative (not stained) Schiller test: <input type="checkbox"/> Negative <input type="checkbox"/> Positive</p> <p>Judge 1, 2 and 4 "Neither agree nor disagree" Suggestion Judge 1: Add light iodine Suggestion Judge 4: Check the possibility of adding the "partially positive" field for lugol solution uptake. This is usually used in patients with atrophic epithelium or other benign findings that make uptake partial.</p> <p>Judge 6 "Disagree" Suggestion: The description of iodine could be more detailed.</p>	<p>Items without "disagree", but where one of the judges answered "Neither agree nor disagree".</p> <p>Item 3</p> <p>No change: Visibility of the squamocolumnar junction <input type="checkbox"/> Completely visible <input type="checkbox"/> Partially visible <input type="checkbox"/> Not visible</p> <p>Judge 1 "Neither agree nor disagree" Suggestion: partially visible (in the channel)</p> <p>Item 10</p> <p>No change: Suspected invasion. <input type="checkbox"/> Atypical vessels <input type="checkbox"/> Additional signs: fragile vessels, uneven surface, exophytic lesion, necrosis, ulceration (necrotic), tumor/gross neoplasm. Judge 2 "Neither agree nor disagree" Suggestion: add an option for each additional signal.</p> <p>Item 11</p> <p>Before validation: Colposcopy referral Biopsy performed: <input type="checkbox"/> Yes <input type="checkbox"/> No Location of the biopsy: <input type="checkbox"/> Cervix <input type="checkbox"/> Vagina <input type="checkbox"/> Cervix and vagina <input type="checkbox"/> EZT* indicated without prior biopsy (see and treat)</p> <p>After validation: Conduct performed Biopsy performed: <input type="checkbox"/> Yes <input type="checkbox"/> No Location of the biopsy: <input type="checkbox"/> Cervix <input type="checkbox"/> Vagina <input type="checkbox"/> EZT performed without prior biopsy (see and treat).</p> <p>Judge 1 "Neither agree nor disagree" Suggestion: remove the "cervix and vagina" option.</p>	

Figure 1 (A-E): Decisions from the consensus meeting (2nd stage of this validation) of the Colposcopic Report whose response from one or more judges was "neither agree nor disagree", "disagree", or "totally disagree". Recife, Pernambuco, 2022.

Secretaria Estadual de Saúde de Pernambuco

Colposcopic Report

Health establishment: _____ CNES: _____
Patient name: _____
CPI: _____ SUS card: _____

Macroscopic examination of the vulva and perianal region
☐ Without changes
☐ With changes

General evaluation of colposcopy
☐ Adequate
☐ Inadequate:
☐ Intense bleeding ☐ Intense inflammation
☐ Scar ☐ Intense atrophy

Visibility of squamocolumnar junction
☐ Completely visible
☐ Partially visible
☐ Not visible

Transformation zone (TZ)
☐ Type 1 ☐ Type 2 ☐ Type 3

Normal colposcopic findings
☐ Miscellaneous
☐ Congenital transformation zone
☐ Condyloma
☐ Polyp (ectocervical/endocervical)
☐ Inflammation
☐ Stenosis
☐ Congenital anomaly
☐ Post-treatment sequelae
☐ Suggestive of endometriosis

Abnormal colposcopic findings (localization)
☐ Cervix ☐ Inside TZ ☐ Outside TZ
☐ Vagina
No. of quadrants involved: ☐ 1 ☐ 2 ☐ 3 ☐ 4

Grade 1 (Minor)
☐ Thinness acetowhite epithelium, irregular or geographic
☐ Fine mosaic, irregular or geographic border
☐ Fine punctation, irregular or geographic edge

Grade 2 (Major)
☐ Dense acetowhite epithelium
☐ Rapid onset acetowhiteness
☐ Thickened glandular openings
☐ Coarse mosaic
☐ Coarse punctation
☐ Demarcated border
☐ Inner mosaic sign
☐ Crest sign (raised)

Not specific
☐ Leukoplakia (leucosis, hyperkeratosis)
☐ Erosion

Lugol's solution uptake
☐ Positive (stained) ☐ Negative (not stained)
Schiller test: ☐ Negative ☐ Positive

Suspected invasion
☐ Atypical vessels
☐ Additional signs: fragile vessels, uneven surface, exophytic lesion, necrosis, ulceration (necrotic), tumor/gross neoplasm

Comments and additional information:

Conduct performed
Biopsy performed: ☐ Yes ☐ No
Location of the biopsy:
☐ Cervix ☐ Vagina
☐ EZT performed without prior biopsy (see and treat)

Responsible for the report: _____ (name and stamp)
Date of colposcopy: _____

Adapted from HCPC: screening, Rio 2011

UTERO E VIDA PROGRAM - Qualification of the line of care for cervical cancer control

Figure 2: Colposcopic Report validated on 07/05/2022. Recife-Pernambuco-Brazil.

DISCUSSION

The validation of the colposcopic report ensured greater reliability to this tool, which will be integrated into the protocol for screening intraepithelial lesions and cervical cancer; this evaluation will be important to reduce mortality in Pernambuco. Studies have been increasingly using methodologies to develop and validate content in healthcare, either as an educational technology or to promote individualized care. For instance, we developed and validated educational booklets for self-care at home after gynecologic surgeries and for palliative care at home after hospital discharge;^{13,14} and instruments for assessing self-perceived health in adults, recognizing clinical deterioration in hospitalized children, and evaluating hospital infection control programs.¹⁵⁻¹⁷

In 2019, the American Society for Colposcopy and Cervical Pathology (ASCCP) released guidelines based on high-grade lesion risk management, which was different from those previously adopted and was based on algorithms focused on outcomes¹⁸. Within this perspective, the colposcopic report evaluates abnormal findings, the type of TZ and visibility of the squamocolumnar junction, and Lugol's solution uptake, potentially providing future insights into high-grade lesion risk management and monitoring the quality of colposcopies performed.

The Brazilian guidelines for cervical cancer screening recommend using the colposcopic terminology of IFCPC (2011).^{6,8,19} This recommendation has been incorporated into the colposcopy report, contributing to the standardization of this information tool that will monitor the quality of colposcopy.

Previous studies did not use a colposcopy database registered in the Unified Health System information system, and the data presented are only quantitative.²⁰ A national study used qualitative colposcopy data based on the terminology proposed by the IFCPC (2011); however, data were collected in a private information system.²¹

In the Cancer Information System (SISCAN), information from a colposcopic report is only described in cases that present colposcopic alterations that trigger a biopsy, as part of the "Histopathological Examination Request - Cervix", aiming to provide clinical support for the histopathological diagnosis. Even in these cases, no Colposcopic Reports were issued, limiting access to the data of these women regarding colposcopy.¹⁷ Therefore, the Colposcopy Report must be incorporated into SISCAN to standardize data, facilitate local and inter-federative studies, provide training for healthcare professionals, and standardize the procedure. Valls et al used a protocol of colposcopy in women who had detectable high-risk HPV; the tool presented a good performance for detecting intraepithelial lesions and cervical cancer.⁴

CONCLUSION

The colposcopic report was validated and achieved greater reliability, suggesting its inclusion in the cancer information system. The standardization of the colposcopy report will allow public managers to adjust their decision-making regarding clinical management based on monitoring the quality of the service provided; the colposcopy will be a diagnostic method. For this purpose, colposcopy needs to be evaluated quantitatively and qualitatively, as do the other procedures that comprise cervical cancer care.

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