Evaluation of a Medical Residency Program in Gynecology and Obstetrics

Avaliação de um Programa de Residência Médica em Ginecologia e Obstetrícia

ABSTRACT

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KEYWORDS

- Internship and Residency.

- Medical Education.

- Educational Assessment.
- Gynecology.
- Obstetrics.

Introduction: Medical residency in gynecology and obstetrics is unquestionably important in the training of physicians who choose this specialty of the Brazilian Ministries of Health and Education. However, studies evaluating these residency programs are scarce, especially regarding the reflexive qualitative aspects of the research. Therefore, this exploratory and descriptive study aimed to evaluate the current medical residency program in gynecology and obstetrics of the School of Medical and Health Sciences at Pontificia Universidade Católica de São Paulo (PUC-SP) using a quantitative and qualitative approach. Method: The methodology included a comparative curriculum analysis between the program recommended by the National Committee of Medical Residency until 2018 and the program offered by PUC-SP School of Medical and Health Sciences, as well as a selfadministered questionnaire completed by individuals who graduated between 2007 and 2018. Results: The most significant findings of the comparative curriculum analysis include discrepancies in the percentage arrangement of annual workload, indicating an overload of on-call duty hours, and unequal distribution of internships. The questionnaire response rate was 66% (41 of 62 participants). Most respondents were women (n=32, 78%), who worked mainly in the cities of Sorocaba (n=21, 43.7%) and São Paulo (n=10, 21%). Most medical graduates were partially satisfied with the program (n=34, 82.9%). Some responses also matched the findings of the comparative curriculum analysis, such as dissatisfaction with the number of gynecological surgical procedures performed (n=39, 95.1%). Regarding the content analysis of open-ended answers, categorized according to Bardin, the graduates appreciated activities in obstetrics, and the most relevant criticisms were related to fewer hours assigned to certain activities, especially those devoted to gynecological surgical practices and theoretical activities. Conclusions: Based on the findings, suggestions were proposed and accepted by the managers for changes that should have a positive impact on the medical residency program. This research contributes to the diagnostic evaluation of a traditional medical residency program in Brazil, proposes improvements, and uses reproducible methods, thus serving as a comparison basis for other studies so that advances can be made in the training of these specialists.

PALAVRAS-CHAVE

- Educação Médica.
- Internato e Residência.
- Avaliação Educacional.
- Ginecologia.
- Obstetrícia.

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RESUMO

Introdução: A residência médica em ginecologia e obstetrícia é indiscutivelmente importante para a capacitação dos médicos que optam por essa especialidade dos Ministérios da Saúde e da Educação. Entretanto, as pesquisas que avaliaram esses programas de residência são escassas, especialmente no que tange a aspectos reflexivos qualitativos. Assim, este estudo descritivo e exploratório, com abordagem quantitativa e qualitativa, buscou avaliar o programa atual de residência médica em ginecologia e obstetrícia da Faculdade de Ciências Médicas e da Saúde (FCMS) da Pontifícia Universidade Católica de São Paulo (PUC-SP). Método: Como metodologia, utilizou-se a análise curricular comparativa entre o programa preconizado pela Comissão Nacional de Residência Médica até 2018 e o programa oferecido pela FCMS da PUC-SP, além de questionários autoaplicáveis a egressos do período de 2007 a 2018. Resultados: Entre os achados mais importantes da análise curricular comparativa, estão divergências sobre a disposição percentual de carga horária anual, evidenciando sobrecarga em horas de plantão, e a distribuição não equilibrada de estágios. A taxa de retorno do questionário foi de 66% (41 dos 62 participantes). A maioria dos respondentes era do gênero feminino (n = 32, 78%), com atividade predominante nas cidades de Sorocaba (n = 21, 43,7%) e São Paulo (n = 10, 21%). Houve preponderância de satisfação parcial do egresso com o programa cursado (n = 34, 82,9%). Também foram observadas respostas que condizem com os achados da análise curricular comparativa, como a insatisfação com o número de procedimentos cirúrgicos ginecológicos realizados (n = 39, 95,1%). Em relação à análise de conteúdo das questões discursivas, categorizadas segundo Bardin, houve valorização das atividades em obstetrícia pelos egressos, e as críticas mais evidentes foram relacionadas à menor quantidade de horas para certas atividades, em especial àquelas dedicadas às práticas cirúrgicas ginecológicas e atividades teóricas. Conclusões: Com base nos achados, foram propostas e acatadas pelos gestores sugestões de mudanças que devem trazer impacto positivo ao programa da residência médica. Esta pesquisa contribui para a avaliação diagnóstica de um tradicional programa de residência médica, propõe melhorias e utiliza metodologia reprodutível, podendo, assim, servir de comparação para outros estudos, de modo que avanços possam ser estabelecidos na formação do especialista.

INTRODUCTION

Medical residency (MR) is a postgraduate teaching modality aimed at training in supervised service in a specific medical area. The history of MR in Brazil had an irregular start, characterized by the creation of programs without standardization, exclusively meeting the needs of each institution and service. Following the movement of rights by resident physicians, the actions of the National Association of Resident Physicians (Associação Nacional de Médicos Residentes) and Brazilian Association of Medical Education (Associação Brasileira de Educação Médica) stand out, which played an essential role in the fight for the standardization and control of MR programs. ^{2,3}

With the creation of the National Medical Residency Commission (CNRM, Comissão Nacional de Residência Médica) in 1977⁴, residents started to be legislated, benefits were introduced in addition to fundamental labor rights.^{4,5} Law n. 6.9326 defined MR as the medical teaching modality that grants a specialist title in the medical area to the graduates of a program, acknowledged throughout the national territory.⁶

Currently, MR is considered a "gold standard" for lato sensu medical specialization.^{3,7} The regulation and supervision of these programs are coordinated by several hierarchical bodies, which are part of the Ministry of Education and Culture (MEC, Ministério da Educação e Cultura).³ For a program to be accredited in the CNRM, it must meet all necessary prerequisites, including a supervisor and a group of tutors under their coordination for the development of activities.^{4,7}

The perception of the need to make changes in professional training

to improve the Unified Health System (SUS)⁸ considered Gynecology and Obstetrics (GO) as one of the strategic programs⁸. Currently, in Brazil, GO is a basic area of knowledge and its Residency Program (GOMRP) has direct access and lasts 3 years.⁴ According to analyzes of distribution of MR programs in the country^{9,10}, in 2011, more than half of GOMRP (54.7%) are located in the Southeast Region^{9,10}. According to data provided by the MEC General Coordination of Health Residencies in 2017¹¹, there were, in the first semester of 2017, 93 GORMP accredited by CNRM, corresponding to 298 openings.

Historically, the MR in GO of the School of Medical and Health Sciences (FCMS, Faculdade de Ciências Médicas e da Saúde) of Pontifícia Universidade Católica de São Paulo (PUC-SP) started in 1972. After regulation and accreditation by CNRM in 1977, the Program received periodic approval according to the legislation¹² and, since its creation, until December 2018, 283 specialists were trained, currently having 08 accredited annual openings.

Despite the numerous positive aspects that MR can offer, it was possible to experience the reality that is sometimes distressing, stressful and even unsatisfactory in the face of expectations and anxieties in relation to the acquisition of knowledge, development of skills and attitudes in the course of daily practice. Therefore, this study aimed to evaluate, from the point of view of the medical graduates, the GOMRP of FCMS of PUC-SP and to compare it, in practice, with that recommended by the CNRM, in addition to assessing the graduates' profile, identifying and evaluating whether the program met their expectations.

MATERIAL AND METHODS

This is a descriptive and exploratory study with a quantitative and qualitative approach, the result of a professional master's degree in Education in Health Professions of FCMS of PUC-SP. It consisted of two stages: comparative document analysis and questionnaire application. The comparative document analysis was carried out between the GOMRP proposed by MEC, according to the minimum prerequisites stipulated in CNRM resolution 2/2006¹², with that offered by COREME of FCMS of PUC-SP¹³ in 2017. To compare the workload between programs, it was decided to calculate the number of hours worked by the residents of GOMRP of FCMS of PUC-SP13 during the year 2017. In that year, the program had a total of 20 residents, being 08 in the first year (R1), 05 in the second (R2) and 07 in the third (R3) year. The mean number of hours by the number of resident physicians was calculated for each year of training.

To calculate the total hours, the mean was taken of the hours dedicated by residents of each year. To compare the percentage of hours dedicated to each activity, by year of residency, the mean number of hours were calculated for each of the activities in the schedule and their percentage was stipulated in relation to the total mean hours worked in the year. To facilitate the comparison between percentages, the number found was rounded up to absolute values, as presented by the program proposed by MEC.

To obtain significant data regarding the studied GOMRP, it was decided to select, from the total of 283 GOMRP graduates of FCMS-PUC-SP from the residency program creation until 2018, the 62 possible participants who completed the program between 2007 and 2018. To meet the selection criteria and to avoid possible selection bias, the researcher was excluded from the sample. The discontinuity criterion was applied to participants who withdrew from this study at any time, and all those who agreed to participate signed the Free and Informed Consent (FIC) form, guaranteeing the confidentiality of their identities.

The main theme of the questionnaire was the impressions and evaluations of the GOMRP made by the graduates, totaling 40 closed and open questions, 28 on the main theme and 12 aimed at sociodemographic characterization. During the creation and before being applied, the questionnaire underwent orthographic and semantic analysis performed by a specialized professional. A pre-test was made available for suggestions and criticisms to three GO teachers (experts) from the same institution and to ten graduates not included in the research. The questionnaire was made available only after approval by the Research Ethics Committee and after the suggested corrections and agreed in the pre-test were performed.

The questionnaire was made available for 56 days on the GoogleForms® platform. All selected participants received email notifications, cell phone messages weekly, and telephone contact in the last week. A total of 41 individuals participated in the research, with a response rate of 66%, both considered of adequate sizes to guarantee the research statistical validity.¹⁴

For quantitative analysis of sociodemographic data, the program Stata 13.1° was used and for the crossing the data of closed responses the analysis software, chi-square tests and Fisher's exact test were used.

As for the discursive questions, the content analysis proposed by Bardin was used. 15,16 As recommended by this qualitative analysis technique, after the initial reading, all material was transcribed in full and extensively read for coding and transforming the content into recorded units. For a single question, several initial subcategories could

be present. Therefore, despite 41 respondents, it was possible to obtain more than 41 different subcategories that were grouped and described in valid, objective, consistent and pertinent categories. Finally, a reflexive interpretation of the findings was performed. The participants were listed according to the chronological order in which responses were sent, which made it possible to demonstrate some results in this work, maintaining the anonymity guaranteed in the FIC form.

RESULTS AND DISCUSSION

Document and comparative analysis

According to CNRM resolution 2/2006¹², a matrix of programmatic content was developed for each specialty of MR17. This Program was analyzed in comparison with the Internal Rules of the GOMRP of FCMS-PUCSP¹³ in its most current version. The proposed Program highlights the main objective to be achieved in the training of the resident physician in GO at the end of the programmatic course and its specific objectives. It covers the theoretical and practical activities in detail and their respective percentages to be dedicated in each year of residency. The document also recommends evaluation processes and sets out the minimum requirements to be offered.

In the section on the theoretical contents of the proposed Program, there is a description of the general and specific topics of greatest relevance to be addressed. Moreover, several topics are suggested for updating, as well as courses and other theoretical activities that the learner can carry out. In the section dedicated to each year of the residency, the document establishes the skills to be developed, demonstrating at the end, in a table, the percentage of hours to be used for each training. It is important to emphasize that there are no large numerical discrepancies in the division of hours dedicated to activities during all years.

In the first year of residency, the focus is on low-risk care, encompassing knowledge on primary prevention of gynecological diseases and promotion of women's health, in addition to normal pregnancypuerperal physiology, lactation and puerperal family planning. During R2, the focus of learning is the development of the GO sub-areas, with activities in specialized outpatient clinics and surgeries, beginning their training in gynecological oncology and in high-risk obstetrics. The largest percentage of time during the R3 year is devoted to the surgical room, in the training of more complex surgeries and in specialized gynecology outpatient clinics.

The FCMS-PUCSP document is more objective and practical, emphasizing important communications for the monitoring and training the resident throughout the year, such as appropriate clothing and documents necessary for certain procedures, such as surgical scheduling. Especially for residents from other higher education institutions, unfamiliar with the service's routines, it is important they receive these guidelines that facilitate their integration. The structure of the available woman's care sectors and services comprise all the prerequisites required by CNRM for their accreditation.

It can be observed that the FCMS regulation of PUC-SP does not emphasize the knowledge and technique to be acquired by the residents at the end of their training, showing only as the final result of the training the possibility of acquiring the completion certificate, without emphasizing the pedagogical objective, which is the guarantee of knowledge, skills and appropriate attitudes to work in the specialty. It is possible to observe a

certain hierarchical weight in the residents' functions, in which the R2 must "supervise the activities" of the R1 and interns during medical care. The R3, on the other hand, has the function of "clearing up doubts" of other physicians and academics. Therefore, there is a certain attenuation of the teacher/preceptor's role in these functions. The document allows the resident to behave as and be, in practice, the preceptor of the younger residents, without considering the importance of qualified supervision.

In the GOMRP of PUC-SP, the residents themselves participate in the organization of their schedules, mainly related to the on-duty schedule. Although the residents' role in these activities should be valued, as it makes them an integral and active part of the process of building their teaching and learning, it must be recalled that the area supervisor, together with COREME, is the only legal professional responsible for the accomplishment of the activities necessary for the residents' training, always based on CNRM Resolution 2/2006¹² or another that may replace it, and the content proposal offered.¹³

This same Resolution¹² leaves at the discretion of the COREME of each institution to choose the residents' evaluation method, whether oral, written, practical or performance tests per scale of attitudes, respecting the minimum quarterly frequency. The COREME at PUC-SP chose to evaluate the resident according to their attitudinal performance, including analysis of presentations at scientific meetings and activity frequency. However, there is no detailing of the instrument to be used, which places the institution in disagreement with what is recommended and provides a clear opportunity for improvement.

It is important to note that diversified assessment methods applied to the different actors involved in the teaching and learning process can provide different elements, which, together, provide a better perception of the cognitive, affective and psychomotor skills of those being assessed and those who are assessing. Peer-assessment of residents, self-assessment and feedback in this process are crucial for correcting directions.¹⁸

There is no mention of any type of evaluation of teachers/ preceptors in both analyzed documents. This demonstrates a lack of formal recognition of this activity, which is increasingly important for professional training. It is necessary to invest in pedagogical training and education for the educator who works directly with resident physicians. We must recognize the importance of this role as an educator as a strategy to improve residency programs, culminating in better medical care and patient well-being.¹⁹

Workload and activity arrangement

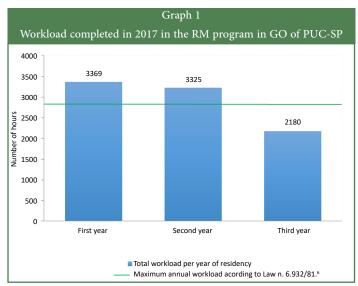
Law number 6,932/81⁶ establishes an annual workload of 2,880 hours, distributed within a limit of 60 hours per week, including 24 hours on duty. Based on it, the CNRM suggests a differentiated workload distribution for each year of residency, according to the degree of complexity of each required activity. The comparison between workload and activity arrangement is illustrated in Graphs 1 and 2.

A drastic difference is perceived between the workload of the three years (Graph 1). When comparing the arrangement of R1 activities (Graph 2), it is clear there is an excessive number of hours dedicated to on-duty activities. In 2017, R1 completed an on-duty workload that was almost four times that recommended by CNRM. This is undoubtedly the most divergent activity in the comparison. There is also an important contrast in the activity "General and Ambulatory Surgical Center".

There are activities contemplated by the FCMS residency program at PUC-SP that are not included in the activities proposed for R1 by CNRM, such as "Distance Learning (DL)". This encompasses the practice of studying at home or using resources offered at the institution's library on specific illnesses, assigned to the residents by their supervisor, aiming to standardize and update care protocols for services that are internships areas in the program. This need resulted from failures observed by the preceptors and teachers in the standardization of conducts and protocols for medical care in SUS woman's care service, linked to the institution. This is a factor that hinders the learning of resident physicians, as it makes them subject to important variations in conducts without discussing the scientific basis for the different therapeutic options.

For R2 (Graph 2), there was again an overload of on-duty shifts, in addition to the higher percentage of hours allocated to the "Obstetric Center". It is also evident the contrast in the workload that is below the necessary for the practice in the "Specialized Ambulatory and Inpatient Unit: Gynecology". This activity is important to create the theoretical-practical background on several gynecological diseases, essential for the differential diagnosis and adequate follow-up for each patient, according to their particularities. It is possible to observe a lower workload for "Urgency/Emergency"; however, it is understood that the objectives of this activity are achieved during the on-duty skills in GO.

In the comparison of activities for R3, there is an important reduction in the number of hours on duty, even though it remained above the percentage proposed by CNRM (Graph 2). The low percentages for outpatient clinics specialized in GO, also present in previous years, remain evident in R3. A possible justification would be the reduced availability of hours for specialized outpatient clinics, especially in the gynecology area. There is a probability for the resident to learn and develop skills in the several specific sub-areas, but the frequency is low. Another important contrast is in the "operating room" activity, which does not reach the expected workload. One of the possible factors, and probably the one with the highest impact, is the insufficiency of material, structural and human resources to supply the required demand, both for the service and for the program.



Source: Study data. The author.

Workload completed by residents in Gynecology and Obstetrics at FCMS of PUCSP, in 2017. The line represents the workload limit stipulated by Law N. $6.932 / 81^6$.

A difference in the comparative of R3, which offers positive aspects to the institution, is the resident's opportunity to acquire experience in an optional internship in the several services and universities associated with the institution, also allowing the resident to acquire a new bond with the service, either national or international. This advantage makes it possible to improve knowledge of resident physicians' personal interest in a subspecialty, expanding their horizons and helping to stimulate study and research as previously demonstrated in other residency programs.²⁰

Questionnaire

Women (n = 32, 78%), aged between 28 and 34 years (n = 27, 65.8%), white (n = 37, 90.2%), with the specialty as an academic degree (n = 36, 87.8%) and working in a private hospital (n = 36, 87.8%), were the main characteristics of the respondents. The other sociodemographic findings are shown in Table 1.

The questions regarding satisfaction and dissatisfaction with the attended program showed that 82.9% (n = 34) were partially satisfied, showing that there are problems to be overcome. Table 2 shows the



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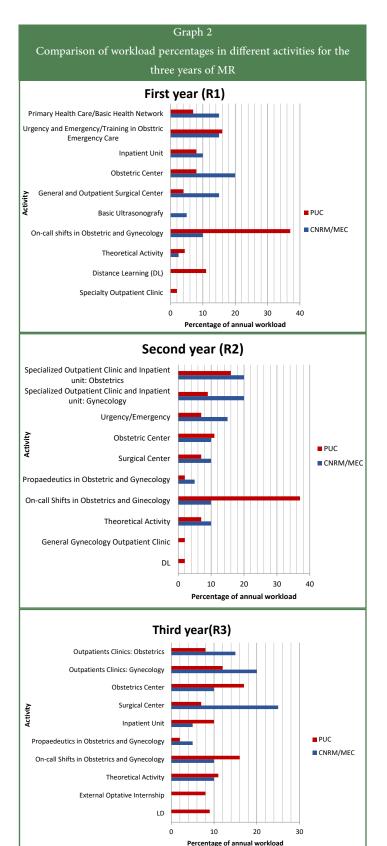


Table 1			
Contin	Continuation		
Characteristic	N	%	
City of work			
Sorocaba	21	51,2	
São Paulo	10	24,4	
Other cities in Brazil	10	24,4	
Academic Degree			
Specialist physician	36	87,8	
Latu Sensu Postgraduate Degree	4	9,8	
Master's Degree	1	2,4	
Personal Income			
R\$ 5 mil -R\$ 15 mil	20	48,8	
R\$ 15 mil -R\$ 25 mil	14	34,2	
R\$ 25 mil ou mais	7	17	
Work Activity			
Private Hospital	36	87,8	
Private Clinic	27	65,9	
Health Insurance Outpatient Clinic	26	63,4	
Public Hospital	21	51,2	
SUS Outpatient Clinic	17	41,5	
Teaching Hospital	11	26,8	

research quantitative results. The discursive analysis showed that 51.6% (n = 32) of the statements fit the category "Dissatisfaction with the program's practical performance" and 43.55% (n = 27) referred to "Dissatisfaction with the program organization and coordination". The qualitative analysis results of the open questions are shown in Table 3.

The participants' notes showed the importance of using medical practice aimed at learning, with discussion of cases and stimulating clinical reasoning in an integrated and complex manner, essential instruments for the development of professional skills during medical residency.²¹ In a literature review, Botti²¹ states that the offer of assorted clinical opportunities, leading the learner to associate their knowledge to practice and avoiding automatism with training in cognitive attributes alone, are some of the most important tools for building quality clinical reasoning during MR. ²¹

When asked about giving up during the MR, 41.5% (n = 17) of the interviewees answered that they had thought about quitting (Table 2). This shows that many of the graduates faced difficulties that they considered significant enough to rethink their stay in the program. The qualitative analysis showed characteristics considered negative by the graduates, such as "Physical wear", with 57.14% (n = 16) of the observations considered the most important one. The increased number of hours spent on duty certainly has a negative impact on the resident. Emotional wear represented 25% (n = 7) of the statements found for the question. Studies have shown that the residency program, in itself, is a source of tension and stress for the resident. The rates of burnout, depression, irritability and anxiety are higher among physicians during the residency period. 23

Table 2		
Results of the quantitative analysis of	of objective q	uestions
Торіс	N	%
Satisfaction with the attended Program		
Partially satisfied	34	83
Fully satisfied	6	14,6
Unsatisfied	1	2,4
The program was previously presented		
Yes, partially	19	46,3
No	12	29,3
Yes, fully	10	24,4
The evaluation methods were previously presen	nted	
There was not any type of evaluation	19	46,3
No	12	29,3
Yes, partially	8	19,5
Yes, fully	2	4,9
Thought about giving up the during the course	:	
No	24	58,5
Yes	17	41,5
There was Preceptor / Teacher with the residen	t during a pat	ient treatment
Majority of times	23	56,1
Sometimes	14	34,1
Always	4	9,8
There was educational guidance during case di	scussion	
Majority of times	23	56,1
Sometimes	15	36,6
Always	2	4,9
Never	1	2,4
There was a post-duty resting period		
Sometimes	17	41,5
Majority of times	11	26,7
Never	9	22
Always	4	9,8
There was a weekly theoretical activity during	the course	
Sometimes	17	41,5
Always	14	34,1
Majority of times	8	19,5
Never	2	4,9
The residents were participating in theoretical activities		
Sometimes	19	46,3
Majority of times	18	43,9
Always	2	4,9
Never	2	4,9

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Table 2			
Continuation			
Topic	N	%	
Avarege hours of weekly theoretical activity			
2h	17	41,5	
4h	10	24,4	
1h	7	17,1	
3h	5	12,1	
0h	2	4,9	
Were you offered learning opportunities with diagnose/treat obstetrics & gynecology patho		at help	
Sometimes	33	80,5	
Never	6	14,6	
Majority of times	2	4,9	
Always	0	0	
Considered the number of obstetric procedure	res appropriate f	for learning	
Yes	37	90,2	
No	4	9,8	
Considered the number of gynecological pro	cedures appropr	riate for learning	
No	39	95,1	
Yes	2	4,9	
Had any incentive for Scientific researches du	iring the progra	m	
Never	22	53,6	
Sometimes	17	41,5	
Majority of times	2	4,9	
Always	0	0	
Had any article published in a journal during	the Program		
No	38	92,7	
Yes	3	7,3	
Had any article published in a journal after fi	nishing the Pro	gram	
No	34	82,9	
Yes	7	17,1	
Had any article/research presented in a scientific event during the Program			
No	28	68,3	
Yes	13	31,7	
Had any article/research presented in a scientific event after finishing the program			
No	32	78	
Yes	9	22	

Table 3		
Qualitative analysis of the questionnaire disc	cursive respon	ses
Categories to each topic	Number of affirmations	%
Satisfaction with the attended Program		
Dissatisfaction with the program's practical performance	32	51,61
Dissatisfaction with the program's organization and coordination	27	43,55
Fully satisfied with the residency training	3	4,84
Reasons for thinking about leaving the program		
Physical stress	16	57,14
Emotional stress	7	25
Incompatibility between expectations and the reality found	5	17,86
Presence of a Preceptor / Teacher with the resident duri	ng a patient trea	atment
No monitoring during medical treatment, giving autonomy to the resident	9	42,86
Medical treatment monitored only by the oldest resident	6	28,57
Present in most activities, except at the on-call shifts	3	14,29
Present in most activities, except at the outpatient clinics	3	14,29
Educational guidance during case discussion with the	Teacher / Prece	eptor
Focus of the discussion was only for resolution of the shift	5	62,5
Opportunity made available only by a few teachers/preceptors	3	37,5
Participation or not of residents in theoretical activities	es	
Forbidden by the preceptors / On-call chiefs	16	80
Lack of interest in the class topic by the resident	3	15
Hierarchical position	1	5
Were you offered learning opportunities with technologiagnose/treat obstetrics & gynecology pathologies	ogies that help	
Poor structure of the program / hospital for the activities	12	63,16
Limited material availability for these activities	5	26,32
Poor faculty availability for these activities	2	10,53
Reasons for considering surgical procedures as appropriate for learning during the Program	priate or inappr	opriate
Few training opportunities in the Program schedule	25	62,5
Surgical cancellations	11	27,5
Small number of Teachers / Preceptors available for these activities	4	10
Reasons for the frequency of scientific research stimulation during the Program found		
Lack of encouragement from Preceptors / Teachers	5	83,33
The interest always came from the resident	1	16,67

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R1 Strengths Delivery care 35 70 Large volume of patient care 12 24 Good learning in urgency and emergency 3 6 R2 Strengths Learning in Obstetric subspecialties 25 48,08 Personal and professional development 9 17,31 Learning in Gynecology subspecialties 6 11,54 Workload reduction in comparison to the previous year 5 9,62 Surgical Learning 4 7,69 There were no strengths to be mentioned 3 5,77 R3 Strengths Middle and High-complexity surgical procedures 20 35,71 Obstetric practice 13 23,21 Subspecialty practice in Obstetrics and Gynecology 12 21,43 Personal and professional development 6 10,71 There were no strengths to be mentioned 3 5,36 Workload reduction in comparison to the previous year 2 R1 weaknesses Lack of monitoring, supervision and guidance by preceptorship / faculty 12 Little dedication to theoretical support during the year 14 Lack of practice in ambulatory gynecology 12 Lack of obstetric practice in primary care 2 3,08 Lack of obstetric practice in primary care 2 3,08 Lack of obstetric practice in primary care 2 3,08 Lack of obstetric practice in primary care 2 3,08 Lack of obstetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 2 3,08 Lack of ostetric practice in primary care 3 4 Lack of ostetric practice in primary care 3 5 Little surgical practice 4 6,6	Table 3			
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	There were no strengths to be mentioned	1	1,67	

Continue...

Table 3			
Continuation			
Categories to each topic	Number of affirmations	%	
R3 weaknesses			
Little surgical practice	19	32,76	
Little gynecolgy practice	15	25,86	
Lack of organization of the program's schedule	9	15,52	
Little dedication to theoretical support during the year	8	13,79	
Lack of supervision and guidance by the preceptorship / faculty	7	12,07	
Improvement suggestions given by the participants			
Improve the program structure and organization	59	45,38	
Add educational planning with emphasis on learning for each year	26	20	
Increase stimulation and scientific production with the participation of teachers, preceptors, residents and students	21	16,15	
Pedagogical training and updating of the preceptorship / faculty working in the services of the program	15	11,54	
Incorporating constructive feedback and assessment techniques	7	5,38	
No suggestions for change	2	1,54	

The term "Moral harassment" recorded by participant number 11 deserves to be highlighted. Despite the infrequent result, evidence shows that moral harassment is commonly found in the hospital environment and in MR programs.²⁴ If there was a specific question about harassment during the course in this research, it would be possible to verify a higher number than the one found. Its definition is difficult due to possible interpretations of a great diversity of abusive acts and behaviors. Moral harassment often occurs in closed institutional settings, with an asymmetric hierarchical prevalence, where its actions are commonly carried out in silence. 24,25 And, considering the MR environment, this silencing occurs in both actors (abuser and abused).

The interest of the trainee physicians in ensuring greater opportunities for practice and better teaching by their tutors places them in a situation of greater vulnerability, and they may be susceptible to abusive actions and conduct them in a reserved manner, in order to preserve their learning. This can have an impact on the professional's future, as shown by evidence proving the greater tendency to psychiatric disorders and patient abuse among those harassed professionals.²⁵ On other occasions, the feeling of having the obligation to present themselves as infallible professionals can cause feelings such as frustration and anguish to the preceptor, which are often projected during the teaching process, camouflaged as demands and criticisms to the resident.²⁵ The mechanisms involved in abusive relationships in the medical environment and, especially in MR, are certainly more extensive, and a deeper assessment of these mechanisms is of the utmost importance.²⁵

The questions about the program structure and organization showed that the lack of prior formal program presentation, either partial or in full, recorded an accumulated percentage of 75.5% (n = 31) of the interviewees (Table 2). Not offering the possibility for the residents to know, understand and clarify doubts about the program can generate feelings such as anguish, fear and frustration, impacting their performance and quality of life. Almost half (41.5%, n = 17) of the graduates said they had rested after the on-duty shift a few times. A possible explanation for this finding is the fact that the norm was considered mandatory as of its publication, in 2011²⁷, and this result can be attributed to the participants who attended the program before this date. Moreover, possible replacements of residents who leave gaps in care activities could have been a reason why graduates failed to fulfill their rest hours.

A large majority (n = 33, 80.5%) reported having received training with auxiliary technologies in the diagnosis and treatment of diseases in GO, such as ultrasound, hysteroscopy and stereotaxy, only a few times. The qualitative analysis showed a prevalence (63.16%, n = 12) of discursive responses for "Deficient structuring of the program for the activities" (Table 3). The transcribed response: "We had no internship program for these types of exams. Only in R3 we followed breast biopsies, for example." (Participant N. 20) exemplifies the structural difficulty. Because they are increasingly more frequent in the routine of large services, especially in high-complexity teaching hospitals, the basic teaching of these technologies is necessary, especially regarding theoretical knowledge. It is after this initial contact that the physician, after completing the specialization, can choose to go deeper into specific training that adds knowledge to their training, such as lato sensu courses proposed by some institutions.²⁸

When assessing whether the number of surgical procedures was adequate for their training, it was found that 90.2% (n = 37) considered it appropriate only for obstetric ones. The majority (n = 39, 95.1%) revealed an inappropriate frequency of gynecological surgeries for learning (Table 2). When analyzing the justifications for this question, it was observed that 62.5% (n = 25) refer to "Few training opportunities in the program's schedule" (Table 3). This result gains strength when compared to the findings in the comparative analysis of the distribution of activities, confirming the statement. In addition to "Surgical impediments" (27.5%, n = 11), the two justifications accumulate 90% (n = 36) of the statements. The transcribed phrase "Little workload in gynecology surgery. Surgery cancellations were frequent." (Participant N. 23) shows the reality faced by the majority.

When asked about their evaluation of the residency, almost half of respondents (n = 19, 46.3%) said they did not have any type of assessment during the course. A possible justification for this result would be the residents' lack of knowledge about the instruments used by the program, described in the regulation, and the fact they may have been submitted to evaluation (of frequency or behavior and attitude) without realizing it. Another possible explanation would be the scarcity of qualified professionals, especially among field preceptors, who are not always motivated or trained to carry out evaluation processes with feedback.

The large number of hours on duty in the program means that the onduty professional often acts as a preceptor and, despite having specialized professional training and experience in the practice of medicine, they do not have the pedagogical knowledge necessary to adequately perform supervisory, correction, teaching and evaluation tasks of the resident physician. The lack of preparedness for the functions, added to the lack of communication and supervision by the institution, make the teachinglearning process outdated and devalued. 29,30

It is understandable to note that the majority of the 30 respondents who answered they had been evaluated had neither summative (n = 27, 90%) nor formative (n = 21, 70%) evaluations, since the program does not require other evaluation methods in addition to attitudinal performance and frequency. Another important result is found in the question about feedback, which demonstrated significant fragility, after revealing that 83% (n = 25) of those who answered they had been evaluated did not have any type of feedback.

The importance of the presence of evaluation in the development of skills and knowledge is well known.^{29,30} What should be reflected on are the assessment methods used in MR programs today. It is necessary to know the advantages and disadvantages of the different methods³⁰ to use the most adequate one for each skill to be evaluated. According to Nunes et al.31, the resident must be evaluated in a multidimensional way, from knowledge and practical performance to the ability to communicate/relate with patients; knowing how to work as a team; with responsibility, ethics, social commitment and in accordance with health policies.³⁰

When assessing the practice, 56.1% of the graduates (n = 23) considered that the monitoring by a teacher or preceptor during medical care happened most of the times. The qualitative analysis showed that 42.86% (n = 9) of the statements comprise the category "Care without monitoring, giving autonomy to the resident," followed by "Care accompanied only by the oldest resident," with 28.57% (n = 5) of the observations. It is possible to perceive the strength of the hierarchy in the medical practice environment in this program, being evident both by its rules and by the graduates' clippings, as follows:

"In R1, which is when we are learning, the closest to us is the R2. The boss is often made inaccessible with the excuse of hierarchy and, thus goes the first and most important year of specialist training." (Participant N.19)

It was found that 56.1% (n = 23) of the participants stated that educational guidance, during medical care, occurred most of the time and 36.6% (n = 15) reported a lower frequency (sometimes). Most of the justifications (n = 5, 62.5%) were included in the category "Focus of the discussion was only on the progress of the service". Evidence shows that the great demands for care and workload are the main obstacles faced by teachers in a MR program.31 These aspects, added to the low acknowledgement of the profession, with consequent low remuneration, precarious working conditions, and constant challenge in arousing the curiosity and interest in the trainee culminate in disappointments in the exercise of the profession that discourage the professional.³¹

When analyzing the frequency of theoretical activities, it was found that 41.5% (n = 17) of the interviewees considered that they happened only a few times (Table 2). When asked whether graduates participated in theoretical activities, 46.3% (n = 19) answered yes, sometimes.

The discursive analysis for the justification disclosed a predominance (n = 16, 80%) of the observations for "Prohibition of teaching/ preceptorship" (Table 3). Therefore, it can be observed that the theoretical activities come second, being carried out on special occasions (permission from the preceptorship/faculty, subject of interest for the resident and favorable hierarchical position). It is understood that the essence of the MR program is the practical action, but one must remember the importance of associating theory with exercise as the basis for improving clinical reasoning and medical expertise.²¹ This analysis makes it understandable the variety of weekly workloads found among the interviewees (Table 2).

When assessing the stimulus to scientific production during the program, 53.7% (n=22) of the interviewees reported it was null ("never"). In a cross-analysis with data obtained in "academic degree," there was no significance (p=0.107). However, it is possible to notice a certain tendency, among those graduates whose stimulus to conduct research was reduced or nonexistent, to not progress to other specialists' titles. The discursive analysis revealed that only one observation (16.67%) mentioned the resident's interest as a factor that caused little stimulus to research, and 83.33% (n=5) referred to the category "Little stimulus on the part of preceptors/teachers" (Table 3).

The low number of discursive answers to this question made it difficult to discuss them; however, related studies^{32,33} show discouraging factors for academic practice, such as bureaucratic issues related to research, insufficient research training time and financial issues. Among the factors that were important in the choice of academic career are the admiration for the professors-advisors, the teaching experiences lived with the medical students and having presented works at scientific events. Knowing the factors that can stimulate and limit medical practice in research during residency is an important strategy to strengthen the scientific environment of an institution^{32,33} despite the questionable period during MR as being ideal for scientific work practice, considering the great demand for specialized technical learning required from the resident, especially in the first year of the program.

The vast majority of graduates did not publish any scientific articles in a journal during (n = 38, 92.7%) or after the end of the program (n = 34, 82.9%). Similar results were found for the presentation of scientific papers at events in the area (Table 2). These data can indicate the profile of the professional trained by this program, being more focused on the job market than on research.

The qualitative results on the strengths of the program revealed that obstetric activities have great relevance for learning during the three years of MR. Despite negative statements about excessive on-duty hours and its consequences, this characteristic was used by the graduates, so that the intense obstetric practice became the main strength of the program (Table 3). Learning in subspecialties is valued in R2 and R3, as well as personal and professional development. There is good use of the activities in the operating room in the third year (35.71%), even though the workload is considered lower than that proposed by CNRM (Table 3).

The weaknesses most frequently pointed out by the graduates were "Lack of follow-up, supervision and guidance by the preceptor/teacher" in R1, and statements about "Little surgical practice" and "Little practice in outpatient gynecology" were more evident in the last two years. It was also observed a lower percentage, however relevant, for the categories "Lack of organization of the program schedule," "Little dedication to theoretical support during the year" and "Lack of supervision and guidance of the preceptorship/faculty" in R3. These three categories are related to the main activities assigned to the program coordination. These results disclose an important structural diagnosis of the program and can be used as a guide for possible adjustments in the future.

The analysis of the discursive responses on suggestions for change (Table 3) showed that 45.38% (n=59) of the observations were related to "Improving program structure and organization". The differences found in the workload arrangement for the activities of each year, as compared to that proposed by CNRM, and the extensive on-duty workload observed

in the first and second years are in line with these findings and reflect administrative obstacles. In "Educational planning with emphasis on learning for each year" (n = 26, 20%) there were suggestions that referred to the appreciation of the resident's learning above the service progress such as the transcript: "Better distributed hours, theoretical classes, evaluation tests, more present staff and interested in contributing to teaching". (Participant N. 31).

With these statements, graduates try to show the importance of educational dedication in their training and how it has been neglected in some way during their experience in the program. The category "Increase stimulation and scientific production with the joint participation of teachers, preceptors, residents and students", with 16.15% (n=21) of the observations, shows that although the majority of the interviewees did not present scientific productions, these activities are considered important. The "Pedagogical training and updating of the preceptorship that works in the services included in the program" accumulated 11.54% (n=15) of the observations and constitutes a fundamental strategy for the best success in the resident teaching-learning process. Providing adequate tools for the transmission of knowledge and practical training, important for an educator, increases the likelihood of success in the development and acquisition of medical expertise in the specialty. 31,21

CONCLUSIONS

The comparative analysis of the distribution of activities allowed a better mapping of the assessed Program, showing positive characteristics, such as the presence of an elective training and dedication to studies on care protocols. However, there are aspects that are potentially harmful to learning, such as excessive on-duty hours and deficits in hours dedicated to certain activities, such as a surgical center and a specialty outpatient clinic. The suggestion is that some topics be revised, such as redistributing the workload and instituting evaluations for students and educators, so that improvements in the quality of teaching and specialist training can be achieved.

Although the percentage of respondents (66%) made it possible to validate the results, we recognize that the number of participants who answered the questionnaire (41) was a limiting factor for the acquisition of even more significant results, mainly for obtaining cross-data. It was possible to reflect on aspects that impact the training of specialists. Perhaps larger studies can bring more information to further the discussion about aspects that cause positive and negative impressions on graduates, such as relationships between colleagues, educators, health service employees and their patients, as well as on medical, ethical and legal challenges brought on by the specialty.

The absence of an analysis and discussion on whether or not to acquire the title of specialist provided by the Brazilian Federation of Gynecology and Obstetrics (FEBRASGO), as well as information on performance, pass and fail rates, represents a limitation of this study as these data could possibly provide additional information on the graduate's professional profile. As the exam is acknowledged at a national level and has a large repertoire of evaluations over the years, its data could potentially provide subsidies that would guide the creation of strategies to improve women's health care, in addition to assisting in the search for improvement in the teaching of residency programs.

Based on the findings, suggestions for changes were proposed and

accepted by the managers, which should have a positive impact on the residency teaching. This research contributes to the diagnostic evaluation of a traditional medical residency program, proposes improvements and uses a reproducible methodology; therefore, it can be used as a comparison for others, so that advances can be established in the training of specialists.

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Article critical review: Cibele Isaac Saad Rodrigues Article final approval: Cibele Isaac Saad Rodrigues

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CONFLICT OF INTERESTS

The authors declare no conflicts of interest.

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