

Culture of patient safety in hospital units of gynecology and obstetrics: a cross-sectional study

Cultura de segurança do paciente em unidades hospitalares de ginecologia e obstetrícia: estudo transversal

Cultura de seguridad del paciente en unidades hospitalarias de ginecología y obstetrícia: estudio transversal

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How to cite this article:

Carmo JMA, Mendoza IYQ, Goveia VR, Souza KV, Manzo BF, Guimarães GL. Culture of patient safety in hospital units of gynecology and obstetrics: a cross-sectional study. Rev Bras Enferm. 2020;73(5):e20190576. doi: <http://dx.doi.org/10.1590/0034-7167-2019-0576>

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EDITOR IN CHIEF: Antonio José de Almeida Filho
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Submission: 08-01-2019 **Approval:** 03-20-2020

ABSTRACT

Objectives: to assess the patient safety culture of the health team working in three maternity hospitals. **Methods:** observational, cross-sectional, comparative study. 301 professionals participated in the study. The Hospital Survey on Patient Safety Culture questionnaire validated in Brazil was used. For data analysis, it was considered a strong area in the patient safety culture when positive responses reached over 75%; and areas that need improvement when positive responses have reached less than 50%. To compare the results, standard deviation and thumb rule were used. **Results:** of the 12 dimensions of patient safety culture, none obtained a score above 75%, with nine dimensions scoring between 19% and 43% and three dimensions between 55% and 57%. **Conclusions:** no strong dimensions for safety culture were identified in the three maternity hospitals. It is believed that these results may contribute to the development of policies that promote a culture of safety in institutions.

Descriptors: Patient Safety; Organizational Culture; Hospital Gynecology and Obstetrics Unit; Cross-Sectional Studies; Patient Care Team.

RESUMO

Objetivos: avaliar a cultura de segurança do paciente da equipe de saúde que atua em três maternidades. **Métodos:** estudo observacional, transversal, comparativo. Participaram do estudo 301 profissionais. Utilizou-se o questionário *Hospital Survey on Patient Safety Culture* validado no Brasil. Para a análise dos dados, considerou-se área forte na cultura de segurança do paciente quando as respostas positivas atingiram acima de 75%; e áreas que precisam de melhorias quando as respostas positivas atingiram menos de 50%. Para a comparação dos resultados, empregou-se desvio-padrão e regra do polegar. **Resultados:** das 12 dimensões da cultura de segurança do paciente, nenhuma obteve escore acima de 75%, sendo nove dimensões com escore entre 19% e 43% e três dimensões entre 55% e 57%. **Conclusões:** não foram identificadas dimensões fortes para cultura de segurança nas três maternidades. Acredita-se que esses resultados possam contribuir na elaboração de políticas que promovam a cultura de segurança nas instituições.

Descritores: Segurança do Paciente; Cultura Organizacional; Unidade Hospitalar de Ginecologia e Obstetrícia; Estudos Transversais; Equipe de Assistência ao Paciente.

RESUMEN

Objetivos: evaluar la cultura de seguridad del paciente de la equipo de salud que actúa en tres maternidades. **Métodos:** estudio observacional, transversal, comparativo. Participaron del estudio 301 profesionales. Se ha utilizado el cuestionario *Hospital Survey on Patient Safety Culture* validado en Brasil. Para el análisis de los datos, ha sido considerado área fuerte en la cultura de seguridad del paciente cuando las respuestas positivas atingieron arriba de 75%; y áreas que precisan de mejorías cuando las respuestas positivas atingieron menos de 50%. Para la comparación de los resultados, se empleó desviación típica y regla del pulgar. **Resultados:** de las 12 dimensiones de la cultura de seguridad del paciente, ninguna obtuvo puntuación arriba de 75%, siendo nueve dimensiones con puntuación entre 19% y 43% y tres dimensiones entre 55% y 57%. **Conclusiones:** No han sido identificadas dimensiones fuertes para cultura de seguridad en las tres maternidades. Se cree que esos resultados puedan contribuir en la elaboración de políticas que promuevan la cultura de seguridad en las instituciones.

Descriptorios: Seguridad del Paciente; Cultura Organizacional; Unidad Hospitalaria de Ginecología y Obstetrícia; Estudios Transversales; Equipo de Asistencia al Paciente.

INTRODUCTION

Patient safety is one of the pillars that support the quality of care worldwide and nationally. On the international stage, the World Alliance for Patient Safety proposes actions to address emerging patient safety problems⁽¹⁻²⁾. At the national level, the Ministry of Health published Ordinance No. 529/2013, which instituted the National Patient Safety Program (NPSP) and the National Health Surveillance Agency (ANVISA) emitted the Resolution of the Collegiate Directorate (RCD) No. 36/2013. Both constitute regulatory frameworks that allow the incorporation of pro-security actions into the Brazilian health pragmatics and fosters debate on the theme⁽³⁻⁴⁾.

It is known that health professionals are inserted in a social and scientific practice. As participants in a social practice, they belong to the world of culture, possessing beliefs, worldviews and values that guide action. There are values that people have in them, and others belonging to an institution that aims to promote them in order to stimulate behaviors⁽⁵⁻⁶⁾.

In this sense, any policy to intervene in professional practice, in the promotion, prevention, treatment and rehabilitation of health, should be focused on moving the health professional to criticism and reflection on action, with the objective of rectifying or ratifying the values that underlie its pragmatics and, thereby, reduce morbidity and mortality in patients caused by adverse events (AE). The culture of patient safety is conceptualized as a set of behaviors, attitudes, perceptions, beliefs and values of professionals in a health organization. Therefore, it is necessary to analyze and understand the AEs, signaling to the health systems, the necessary change in the patient safety culture⁽⁶⁻⁷⁾.

Assessing the culture of patient safety in organizations has become a necessity, especially in the obstetric area, since data in the scientific literature is scarce. This assessment will make it possible to identify the existence of strong areas and areas with opportunities for improvement, reveal trends over time and define specific interventions that will impact patient safety. In a report by the Joint Commission (2004), perinatal death sentinel events and accidents during childbirth that revealed safety flaws were analyzed. The contributing factors of perinatal death were identified and classified; in 47 cases, 72% being related to communication; 55% to organizational culture; 47% to team competence, among others⁽⁸⁾.

It is recognized that the period that involves the pregnancy-puerperal cycle has a mix of expectation, consolidation of dreams, joys and, often, sadness in the family and health professionals. Undesirable situation perpetrated by the professional's action, due to malpractice, imprudence or negligence, among others, expose the mother-child binomial to health impacts.

It is known that technological advances cannot, in isolation, sustain the improvement of maternal and neonatal mortality indicators. Therefore, assessing the patient safety culture in obstetric care is of fundamental importance. In obstetric practice and, notably, in the maternity scenario, obtaining better results requires complex care changes that depend on the continuous efforts of the health team members⁽⁹⁾. Therefore, this study presents the following research question: How is the culture of patient safety of the health team working in three maternity hospitals?

OBJECTIVES

To assess the patient safety culture of the health team working in three maternity hospitals.

METHODS

Ethical aspects

The research complied with Resolution No. 466/2012 and was approved by the Ethics and Research Committee of the Federal University of Minas Gerais, under Opinion No. 2,027,964.

Design, study location and period

It is an observational, transversal, comparative study – (benchmarking), supported by the Strengthening the Reporting of Observational Studies in Epidemiology (STROBE)⁽¹⁰⁾. Benchmarking is a management tool with a systematic and continuous process of measuring and comparing the practices of an organization with others, in order to obtain information and opportunities that can help to improve the performance level of the practices⁽¹¹⁾.

The study was carried out in three public maternity hospitals, with exclusive care for patients of the Unified Health System (UHS), located in the city of Belo Horizonte, Minas Gerais and all have a Patient Safety Center. The hospitals carry out teaching activities linked to health training. To preserve anonymity, the institutions received letters of the alphabet, namely: A, B and C. Data was collected from November 2016 to June 2017.

Sample, inclusion and exclusion criteria

The selection of participants took place by convenience sampling. The inclusion criterion was to work at the unit for at least six months. The exclusion criteria were (1) nurses with legal leave from the service, (2) having answered the same questionnaire in another study institution, (3) instruments that presented more than 10% of lost data. Following all the criteria, 301 health professionals participated in the survey.

Study protocol

The data collection instrument used was the Hospital Survey on Patient Safety Culture (HSOPSC) questionnaire, validated in Brazil by Reis⁽¹²⁾, which has 42 items distributed in 12 dimensions of patient safety culture (Chart 1).

Chart 1 - Dimensions of the HSOPSC patient safety culture, Belo Horizonte, Minas Gerais, Brazil, 2017

HSOPSC's patient safety culture dimensions
D1 – Teamwork within the units
D2 – Supervisors' patient safety promotion expectations and actions
D3 – Organizational learning
D4 – Feedback and communication about error
D5 – Communication opening
D6 – Staff adequacy
D7 – Non-punitive responses to mistakes

To be continued

Chart 1 (concluded)

HSOPSC's patient safety culture dimensions
D8 – Management support for patient safety
D9 – Teamwork between units
D10 – Duty shift or internal transfers
D11 – General perceptions of patient safety
D12 – Frequency of event notification

Note: HSOPSC - Hospital Survey on Patient Safety Culture.

There were five categorical variables, namely: (a) direct care to the patient; (b) time at the institution; (c) time in the obstetric unit; (d) number of hours worked per week in the hospital; (e) position or function. These variables were analyzed using the absolute and relative frequencies.

Analysis of results and statistics

For the analysis of the data, the criterion found in the literature was used, of an area is considered strong in the patient safety culture, when the evaluated items obtain above 75% of positive responses (totally agree/agree), or those whose negative sentences reach 75% of the negative responses (strongly disagree/disagree)⁽⁷⁾. The percentage established at 75% is arbitrary, and a higher or lower cut percentage can be chosen. The areas that need improvement are considered when the items evaluated obtain less than 50% positive responses. To calculate the percentages of positive responses to the dimensions, the number of positive responses to the items in the dimension was used, divided by the total number of valid responses (positive, neutral and negative) to the items in the dimension. The positive answers refer to the answers in which option 4 or 5 (totally agree/almost always/always agree) for positive questions, or 1 and 2 (strongly disagree/never or rarely) disagree for the questions asked in a negative way. The percentage established at 50% for areas that need improvement shows that, if half of the interviewees do not express positive opinions regarding a security problem, it is understood that there is room for improvement⁽⁷⁾.

To compare the results of the different dimensions of the patient safety culture, the methodology proposed by the Agency for Healthcare Research and Quality (AHRQ) was used, which recommends

comparative analysis based on the percentage of positive responses, the standard deviation and the rule of thumb (thumb rule). In order to compare the positive percentage scores of hospitals, standard deviation was used, which is a measure of dispersion or variability of results around the mean. The result indicates how much the score differs from the general average. When using a difference of 5% indicated by the rule of thumb, when the standard deviation of the general average of hospitals is equal to or greater than 5%, it is stated that there is a significant difference⁽¹³⁾.

RESULTS

301 professionals from the health team participated in the research, distributed as follows: 86, from hospital A; 111, from hospital B; and 104, from hospital C. According to the characterization of professionals working in the three maternity hospitals, most reported having direct contact with the patient (91.9%, in hospital A; 95.5%, in hospital B; and 97.1%, in hospital C). Regarding the length of experience in the institutions, as well as in the work units most reported having up to ten years of professional experience. As for the workday: in hospitals A and B, most professionals work up to 40 hours (64% and 52.3%); in hospital C, the workday exceeds 40 hours (68.3%). As for the item job / function, the predominant professional category in hospital A and B was the doctor (48.8% and 47.8%); and in hospital C, 64% of the professionals were nurses (Table 1).

The overall average score of the 12 dimensions of the patient safety culture was 40.7%. The general average in the maternity hospitals, the standard deviation and the benchmarking result are shown below, based on the positive responses of the professionals who participated in the study (Table 2).

There were seven dimensions with a significant difference between the three maternities, respectively: "Teamwork within the units", 48%, 64% and 60% (± 8); "Supervisor's expectations and actions", 60%, 67% and 44% (± 12); Feedback and communication about errors", 30%, 43% and 38% (± 7); Openness to communication", 41%, 44% and 33% (± 6); "Internal transfers and duty shifts", 38%, 47% and 43% (± 5); "General perception of patient safety", 33%, 41% and 30% (± 6); "Frequency of reported events", 30%, 23% and 39% (± 8).

Table 1 - Work characteristics of the health team at the three maternity hospitals, Belo Horizonte, Minas Gerais, Brazil, 2017

Characterization of the health team		HA (N = 86)		HB (N = 111)		HC (N = 104)		Total (N = 301)	
		N	%	N	%	N	%	N	%
Contact with the patient	Yes	79	91.9	106	95.5	101	97.1	286	95.0
	No	07	8.1	05	4.5	03	2.9	15	5.0
Time in institution (years)	Up to 10 years	60	69.8	110	99.0	85	81.7	255	84.7
	From 11 to 20 years	16	18.6	01	1.0	18	17.3	35	11.6
	21 or more	10	11.6	-	-	01	1.0	11	3.7
Time in obstetric unit (years)	Up to 10 years	62	72.1	107	96.4	83	79.8	252	83.7
	From 11 to 20 years	16	18.6	04	3.6	18	17.3	38	12.6
	21 or more	08	9.3	-	-	03	2.9	11	3.6
Working hours (week)	Up to 40 h	55	64.0	58	52.3	33	31.7	146	48.5
	More than 40 h	31	36.0	53	47.7	71	68.3	155	51.5
Office or function	Nursing Assistant/Technician	25	29.0	33	29.7	16	15.4	74	24.6
	Nurse	08	9.4	13	11.7	67	64.4	88	29.2
	Doctor	42	48.8	53	47.8	19	18.3	114	37.9
	Others	11	12.8	12	9.9	02	2.0	25	8.3

Table 2 - Evaluation of the dimensions of patient safety culture in the three maternity hospitals, Belo Horizonte, Minas Gerais, Brazil, 2017

Dimension	H1		H2		H3		Geral		Diference ≥ 5%
	μ*	σ**	μ*	σ**	μ*	σ**	μ*	σ**	
Teamwork within the units	48	11	64	15	60	14	57	±8	Sim
Supervisor's expectations and actions	60	13	67	13	44	10	57	±12	Sim
Organizational learning / continuous improvement	53	20	59	7	54	8	55	±3	Não
Error feedback and communication	30	8	43	5	38	3	37	±7	Sim
Opening for communication	41	17	44	12	33	16	39	±6	Sim
Staff	41	20	43	17	37	23	40	±3	Não
Non-punitive response to error	15	7	20	7	22	8	19	±4	Não
Hospital management support for patient safety	43	7	40	5	41	2	41	±2	Não
Teamwork between units	33	8	36	4	37	8	35	±2	Não
Internal transfers and on-call passes	38	9	47	12	43	2	43	±5	Sim
General perception of patient safety	33	20	41	14	30	13	35	±6	Sim
Frequency of reported events	30	23	23	5	39	2	31	±8	Sim

Note: * Percentage average of positive responses for items in this dimension; **Standard deviation.

DISCUSSION

The results of the study showed that the majority of professionals from the three maternity units reported having direct contact with the patient, which denotes the proximity and the intrinsic relationships that these workers maintain with the patients.

As for the time of professional practice at the institution and working in the area, most professionals were up to ten years old. It is recognized that the short time of work in a given area can compromise patient safety. However, if there is a recognition that the topic of "patient safety" is a fundamental value on the part of professionals, the theme can be addressed and the pragmatics will not suffer harmful influences on the levels of safety⁽¹⁴⁾.

Regarding the workday, in two maternities, was less than 40 hours a week, in the third was higher than this value. It is known that in the national scenario the workday is guaranteed by the Federal Constitution, maximum of eight hours per day and 44 hours per week. Alternative models can be made as long as filed by collective agreement such as a 12-hour working day for 36 hours of rest. Participants in safety culture research at a Malaysian general hospital reported a workload of more than 60 hours per week. Long and uninterrupted hours can negatively impact the patient's safe care by altering the professional's psychological and physical functioning⁽¹⁵⁻¹⁷⁾.

Regarding position or function, in hospital C, most participants are nurses. This result is attributed to the institutional policy of hospital C, as a model unit of the Stork Network for the training of human resources in obstetric nursing. In the area of Health, the nursing career constitutes half of the workforce and nurses have been appointed as the main responsible for coordinating teams at different levels of care⁽¹⁸⁾.

The general score of safety culture in the three maternities surveyed was 40.7%. Of the 12 dimensions, nine are identified with a percentage of positive responses below 50%. Although the researched institutions have their patient safety centers, the findings do not reflect the incorporation of the "patient safety" value with the respondents. These results are inferior to those found in other studies, such as the one performed in a general hospital in Malaysia⁽¹⁷⁾, (50.1%) and in the AHRQ teaching hospital database, whose overall safety culture average was 63%⁽¹²⁾. Considering that, among the results found in this study, more

than half of the answers were negative for the safety culture, it is assumed that there is a need for improvements.

The dimension "expectations and actions of the supervisor" obtained the greatest significant difference (± 12), considered the most worrying according to the responses of the professionals of the three maternities. In hospital C, the dimension that presented the lowest percentage of positive responses was (44%), much lower than data found in other studies, in which hospitals presented 65% and 67% of positive responses⁽¹⁹⁻²⁰⁾, as well as the teaching hospitals of AHRQ which presented 77%⁽¹³⁾. In this dimension, the professionals consider that chief supervisors are not concerned with issues related to patient safety, which reveals a critical situation for hospital administration.

The promotion of a safety culture must be the responsibility and priority of everyone, especially professionals who occupy positions in the institutional hierarchy. They set the goals and plan policies that aim to promote the value of patient safety. On the other hand, supervisors conduct day-to-day work processes. If managers are not committed to promoting a patient safety culture, it is unlikely that health team members will feel committed and responsible for patient safety⁽²¹⁾. On the other hand, the authors of a study carried out in Finland identified that hospital managers seriously consider actions that can improve patient safety⁽²⁰⁾.

Regarding the dimension "Teamwork within the units", there was a significant difference between the professionals of the three maternities (± 8). The percentage of positive responses was better for hospitals B (64%) and C (60%) when compared to hospital A (48%). These results reveal that there is little cooperation for working together, especially among professionals from hospital A. A similar result was found in a study carried out in two hospitals, one in Brazil and the other in Portugal⁽²²⁾. Therefore, in order to build co-responsibility of those involved in patient safety, individual and parceled work for the articulated and integrated must be substituted⁽²³⁾. The results of teaching hospitals revealed in the AHRQ report are far superior to those mentioned above, in which 80% reveal a strong safety culture for this dimension⁽¹³⁾.

"Frequency of reported events" was another dimension that showed a significant difference (± 8), among professionals from the three maternity hospitals with percentages of 30% in hospital A; 23%, hospital B; and 39%, hospital C. It is observed

that in the three institutions the percentage error notification is low. This may be happening due to the lack of instruments for reporting adverse events and by the culture of institutional "silence". It is noteworthy that nurses from hospital B reported errors less frequently. The literature points out that the team's lack of knowledge or lack of understanding that any professional is subject to error can trigger feelings of shame, guilt and fear for this person, which can be aggravated by the punitive culture, prevalent in the institutions under study and contribute to the omission of failures⁽²⁴⁾.

Another dimension that revealed a significant difference between professionals was "Feedback and communication about errors" (± 8), whose percentage of positive responses was 30% for hospital A, 43% and 38% for hospitals B and C, respectively. This result, similar to that found in the scientific literature⁽²²⁾ shows that the different professionals working in these units have little feedback on the process of handling reported errors.

One way to identify the factors that influence the occurrence of adverse events is through their analysis. More in-depth knowledge about events at the unit can help to improve the quality of care provided⁽²⁵⁻²⁶⁾. An intervention study evaluated the safety culture before and after the educational intervention and reached important results, since reporting errors helped in identifying opportunities for improvement, in understanding risk situations and in learning to prevent similar occurrences⁽²⁰⁾.

The dimension "Opening for communication" revealed a significant difference between the professionals of the three maternity hospitals (± 6), with percentages of positive responses ranging from 33% to 44%. In this dimension, the professionals of the institutions realized that there is little freedom to report situations that can affect patient safety. Superior results were found in the study by Tomazoni⁽²⁷⁾, in which nurses and doctors obtained 55% positive responses for this dimension. In AHRQ teaching hospitals, the score for this dimension was 62%⁽¹³⁾. The communication process deserves extra attention by the leaders of hospital organizations. Currently, open and transparent communication becomes a challenge for leaders in their daily lives; however, it must be incorporated as an indispensable element in conducting the work⁽²⁸⁾.

Significant difference between the professionals of the three maternity hospitals was also observed in the dimension "General perception of patient safety" (± 6), whose percentages of positive responses ranged from 30% to 41%. A study carried out in a psychiatric hospital found similar results, (42%)⁽²⁰⁾, but AHRQ teaching hospitals reported a general perception of patient safety above those values, 63%⁽¹³⁾. According to these results, professionals recognize that the systems are not efficient to prevent errors. Factors such as fatigue, overwork, insufficient staff, unsafe procedures and systems can compromise patient safety⁽²⁹⁾.

The dimension "Internal transfers and duty shifts" presented a significant difference between professionals (± 5), whose percentages of positive responses were less than 50% in the three institutions. These results confirm the communication problems already evidenced in this study. Similar results were found by Jye et al (2019)⁽¹⁷⁾, the authors justified the low score due to the complexity of tertiary care and the consequent increase in

workload. Among AHRQ American teaching hospitals, the score for this dimension was 45%⁽¹³⁾. Data from a study carried out in a Finnish psychiatric hospital report an even lower score for this dimension of 35%⁽²⁰⁾.

Information during internal transfers and shift changes are one of the main ways to promote continuity of patient care. If there is a failure, the flows may be compromised and the continuity of care exposed to errors with the patient. This consideration confirms the scientific literature when reporting the experience of a hospital in the southern region of Brazil, whose results show that important information about patient care is often lost during shift changes. Still, the referred study highlights that the problems of this type do not happen only between the teams of different sectors, but also, between those of the same unit⁽²⁶⁾.

The culture of safety in midwifery is emerging and should encourage health professionals to adopt a proactive approach to prevent failures in the care process. It is suggested to use the results of the present study to create educational strategies aimed at the gradual change in the safety culture among health professionals.

Study limitations

The study's selection process is considered a limitation of convenience, which can certainly impact the representativeness of professionals from participating institutions. Another limitation is the scarcity of studies that evaluate safety culture in the area of obstetrics, a fact that made it difficult to compare data.

Contributions to the area

The results of this study reveal the areas that need improvement in the patient safety culture at the three institutions. Therefore, such information may serve for managers to develop intervention plans to improve these areas and, consequently, obtain better care results. In addition, evaluating the safety culture allows the development of future research that measures the impact of the implemented measures.

CONCLUSIONS

When evaluating the safety culture, it is stated that no strong dimensions for the patient safety culture were identified in the three maternity hospitals. Several factors may be acting synergistically to maintain this situation on the part of the professionals who work in the maternity hospitals participating in the study, highlighting: poor communication between the shifts; the errors little used to promote a safety culture among professionals; the underreporting of adverse events; the difficulty for team work; managers and supervisors with reduced aptitude and acceptance of the "patient safety" theme; and the perception of professionals that measures for patient safety are not valued by the institution. It is believed that the study can provide elements for the reflection of health professionals and assist them in the elaboration of policies that promote in the institutional culture, of which they are subject, the insertion of the "patient safety" value, allowing their pragmatic care to be successful and safe.

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