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ORIGINALES

Effective communication strategies among health professionals in Neonatology: An integrative review

Estratégias de comunicação efetiva entre profissionais de saúde em neonatologia: revisão integrativa

Estrategias de comunicación efectivas entre profesionales de la salud en neonatología

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ABSTRACT:

Objective: To identify strategies available in the scientific literature on effective communication among health professionals in Neonatology.

Methods: This is an integrative review carried out from April to August 2021, by consulting the following databases: BDEnf, LILACS, IBECS, MEDLINE/PUBMED, Scopus and Science Direct. Studies whose titles and abstracts were related to effective communication strategies among health professionals to promote safety in Neonatology were included, and duplicates and integrative/systematic/bibliographic/narrative reviews were excluded.

Results: The strategies aimed at promoting effective communication found in this review were SBAR, P.U.R.E and handoffs.

Conclusions: These strategies are configured as effective in improving communication between the multidisciplinary teams in Neonatology, reflecting positively on quality of care and on patient safety.

Keywords: Communication; Patient Safety; Neonatology; Health Personnel.

RESUMO:

Objetivo: Identificar estratégias disponíveis na literatura científica sobre a comunicação efetiva entre profissionais de saúde em neonatologia.

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Métodos: Trata-se de uma revisão integrativa realizada no período de abril a agosto de 2021, através de uma consulta nas seguintes bases de dados: BDEnf, LILACS, IBECS, MEDLINE/PUBMED, Scopus e Science Direct. Foram incluídos estudos cujos títulos e resumos estivessem relacionados a estratégias de comunicação efetiva entre profissionais de saúde para promoção da segurança em neonatologia e excluindo-se duplicados e revisões integrativas/sistemáticas/bibliográficas/narrativas. **Resultados:** As estratégias que visam promover uma comunicação eficaz encontrados nesta revisão foram SBAR, P.U.R.E e a passagem de plantão.

Conclusões: Essas estratégias se configuram como eficazes na melhoria da comunicação entre a equipe multidisciplinar em neonatologia, refletindo positivamente na qualidade da assistência e na segurança do paciente.

Palavras chave: Comunicação; Segurança do Paciente; Neonatologia; Pessoal de Saúde.

RESUMEN:

Objetivo: Identificar estrategias disponibles en la literatura científica sobre la comunicación efectiva entre profesionales de la salud en neonatología.

Métodos: Se trata de una revisión integradora realizada de abril a agosto de 2021, consultando las siguientes bases de datos: BDEnf, LILACS, IBECS, MEDLINE / PUBMED, Scopus y Science Direct. Se incluyeron estudios cuyos títulos y resúmenes estaban relacionados con estrategias de comunicación efectivas entre los profesionales de la salud para promover la seguridad en neonatología y se excluyeron los duplicados y las revisiones integrativas/sistemáticas/bibliográficas/narrativas. **Resultados:** Las estrategias dirigidas a promover la comunicación efectiva encontradas en esta revisión fueron SBAR, P.U.R.E y cambio de turno.

Conclusiones: Estas estrategias se configuran como efectivas en la mejora de la comunicación entre el equipo multidisciplinario en neonatología, reflejando positivamente la calidad de la atención y la seguridad del paciente.

Palabras clave: Comunicación; Seguridad del Paciente; Neonatología; Personal de Salud.

INTRODUCTION

Effective communication among health professionals is an indispensable factor to ensure patient safety in the health services⁽¹⁾, especially in the Neonatology scope⁽²⁾. The Ministry of Health, following the recommendations of the World Health Organization (WHO), through the World Alliance for Patient Safety, listed effective communication as the second international goal as a guarantee for quality in care and patient integrity within health units⁽³⁾.

When there is a deficit in communication, the possibility of professional errors increases and, as a consequence, the emergence of adverse events intensifies⁽²⁾. The Joint Commission research study that analyzed a total of 936 sentinel events during 2015 confirms that ineffective communication is the root cause in over 70% of the serious medical errors, including perinatal injuries and deaths^(4,5).

Among the main obstacles to effective communication are overvaluation of information of a clinical nature, crossing of messages regarding service information and personal information, lack of motivation⁽⁶⁾, lack of time, shortage of personnel, lack of standardization of the information, incompetence or lack of knowledge about the importance of such action⁽⁷⁾, excessive or reduced amount of information; limited opportunity for possible questions; inconsistent quality of information; omitting or passing on erroneous information; illegible records; and interruptions and distractions caused by the use of telephones, in addition to unnecessary interruptions by family members⁽⁸⁾.

In the scope of the neonatal intensive unit, it is also evident that the many noises from the monitors, delays and early departures of professionals, crying of the newborns, parallel conversations between professionals and complications with patients interfere in the process of effective communication between the health teams⁽⁹⁾.

Following this direction, the assistance provided to newborns, as it refers to a heterogeneous group, can be considered a significant challenge for health professionals with regard to effective and safe communication, with the need to invest in an organizational culture based on objectives and strategies with effective communication configurations⁽¹⁰⁾.

In order to overcome barriers that prevent Effective Communication among health professionals, a number of studies point to communication skills training programs, practical simulations and standardized ways to present the patient's information^(2.11). In addition to that, among the main tools to qualify communication are integration of the care team, practice of information double-check, use of computerized systems, systematic and judicious handoffs between professionals, multidisciplinary rounds, care transfer between sectors and regular team meetings⁽¹²⁾.

Given the understanding that effective communication is indispensable to ensure safety and quality of care, especially for newborns, in addition to favoring an environment with pleasant and respectful human relationships for the work process⁽¹³⁾, the objective was to identify strategies available in the scientific literature on effective communication among health professionals in Neonatology.

METHOD

The research method used was the integrative literature review, which covers the study of theoretical and empirical literature, as well as the mapping of studies with different methodological approaches⁽¹⁴⁾.

For developing this research, six stages were followed, described below: 1) Choice and definition of the topic and definition of a research hypothesis or question, 2) Sampling or search in the literature, definition of inclusion and exclusion criteria, 3) Organization and summarization of the information to be extracted from the studies selected and categorization of the studies, 4) Evaluation of the studies included in the review, 5) Interpretation of the results and suggestions for future research studies, and 6) Presentation of the review/knowledge synthesis⁽¹⁵⁾.

Stage 1, referring to the choice and definition of the theme and to the definition of a research hypothesis or question, was built and organized according to the PICo strategy (P - Population; I - Intervention/area of interest; Co - Context⁽¹⁶⁾, considering the following structure: P - Patient safety; I - Effective communication; Co - Neonatology. Thus, the following guiding question arose: "What effective communication strategies are used among health professionals in Neonatology?".

Stage 2 corresponds to sampling or search in the literature, and to definition of inclusion and exclusion criteria. For selecting the publications, the following inclusion criteria were established: primary studies, with no time frame, in Portuguese, English and Spanish, and which use strategies to improve communication among health

professionals in the neonatal unit. Book chapters, PhD theses, master's dissertations, case studies, experience reports, technical reports, editorials and the different types of reviews were excluded.

Stage 3 refers to the organization and summarization of the information to be extracted from the studies selected and the categorization of the studies. It is at this moment that a data collection instrument is used to gather and summarize the most important information to be extracted from the studies selected, and thus build a database that is easy to access and manage. A data collection instrument was developed using the following items: authors/year of publication, language, study objectives, type of study, level of evidence, main findings and gaps/limitations⁽¹⁵⁾.

The survey was carried out between April and August 2021. The search was carried out via the Coordination for the Improvement of Higher Level Personnel (*Coordenação de Aperfeiçoamento de Pessoal de Nível Superior*, CAPES) portal with access by the Federal University of Piauí (*Universidade Federal do Piauí*, UFPI) in the following databases: *Banco de Dados em Enfermagem* (BDEnf), *Literatura Latino-Americana e do Caribe em Ciências da Saúde* (LILACS) and *Índice Bibliográfico Español en Ciencias de la Salud* (IBECS) via *Biblioteca Virtual em Saúde* (BVS), Medical Literature Analysis and Retrieval System Online (MEDLINE) via the US National Library of Medicine (PUBMED), Scopus and Science Direct, both by Elsevier. Choice of these data was due to their academic-scientific relevance.

The controlled descriptors used in the search are inserted in the Descriptors in Health Sciences (*Descritores em Ciências da Saúde*, DeCS) Database and in the Medical Subject Headings (MeSH). They are the following: "Patient Safety"; "Communication"; "Neonatology". The uncontrolled terms (keywords), synonyms of the controlled descriptors, were as follows: "Effective communication" and "*Comunicação efetiva*". It is emphasized that these terms were listed after an exhaustive analysis of synonyms and combinations that corresponded to the search content. To systematize sample collection, the Boolean operators "*OR*" and "*AND*" were used, opting for different search strategies, considering that the databases have different peculiarities and characteristics.

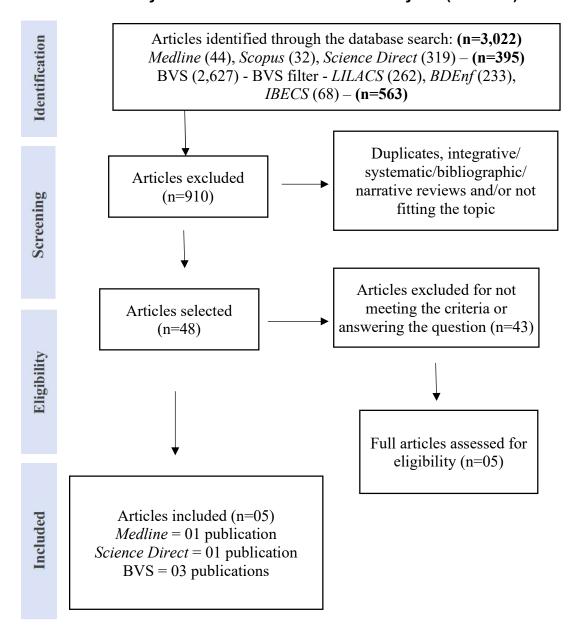
During the process of identification, selection and inclusion of primary studies, a total of 3,022 articles were identified. 395 publications were obtained in the MEDLINE, Scopus and Science Direct databases and 2,627 publications were from BVS. Of the 395 publications, 44 were found in the MEDLINE database, 32 in Scopus, and 319 in Science Direct. In BVS, due to the number of articles, it was decided to use the *LILACS* (262), *BDEnf* (233) and *IBECS* (68) filters, leaving 563 publications. Therefore, 958 publications were analyzed in this first stage.

Subsequently, selection was performed, considering, at first, as potentially eligible, the studies whose titles and abstracts were related to effective communication strategies among health professionals to promote safety in Neonatology and excluding duplicates and integrative/systematic/bibliographic/ narrative reviews; in this stage, 48 publications were chosen to be read in full, 16 in MEDLINE, five (5) in Scopus, 14 in Science Direct, three (3) in LILACS, two (2) in BDEnf, three (3) in IBECS and five (5) in LILACS and BDEnf.

For final selection, the studies were read in full and meticulously, verifying if they met the pre-established inclusion and exclusion criteria (MENDES; SILVEIRA; GALVÂO, 2008). Thus, 43 studies were excluded, leaving five (5) studies, one (1) in MEDLINE, one (1) in Science Direct and three (3) in BVS (LILACS/BDEnf -2; IBECS -1), which were included in the sample of this review.

The research was carried out independently by two reviewers, in order to guarantee methodological rigor and reliability of the results, in order to minimize probable systematic errors or measurement bias of the studies, due to failures in the interpretation of the results as well as in their design. For this, the proposed script was used in the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) methodology and is represented in the following flowchart.

Flowchart 1 - Search strategy for selecting the articles included in the review, considering the recommendations set forth in the Preferred Reprinting Items for Systematic Reviews and Meta-Analyses (PRISMA)



The level of evidence of the articles was determined according to the classification proposed by the Joanna Briggs Institute – JBI (2014): Level 1 - Experimental Projects (Level 1.a - Systematic review of Randomized Controlled Clinical Trials (RCCTs); Level 1.b - Systematic review of Randomized Clinical Trials (RCTs) and other study designs; Level 1.c - RCTs; Level 1.d - Pseudo-RCTs); Level 2 - Quasi-experimental designs (Level 2.a - Systematic review of quasi-experimental studies; Level 2.b - Systematic review of quasi-experimental designs and other smaller studies; Level 2.c - Prospective quasi-experimental controlled study; Level 2 .d - Pre-test - post-test or historical/retrospective control group study);

Level 3 - Observational - Analytical Projects (Level 3.a - Systematic review of comparable cohort studies; Level 3.b - Systematic review of comparable cohort and other lower study designs; Level 3.c - Cohort study with control group; Level 3.d - Case-controlled study; Level 3.e - Observational study without a control group); Level 4 - Observational - Descriptive Studies (Level 4.a - Systematic review of descriptive studies; Level 4.b - Cross-sectional study; Level 4.c - Case series; Level 4.d - Case study); and Level 5 - Experts' Opinion and Bench Research (Level 5.a - Systematic Review of Experts' Opinion; Level 5.b - Experts' Consensus; Level 5.c - Bench research/single expert opinion)⁽¹⁷⁾.

The studies included in the review were selected and analyzed with detail and rigor, in Stage 4, looking for explanations for divergent or contradictory results⁽¹⁸⁾. In Stage 5, Interpretation of the results and suggestions for future research studies, after a critical analysis of the studies, the reviewer performed an interpretation of the results, a comparison with theoretical knowledge, considerations, conclusions and implications arising from the integrative review. It corresponds to the phase of discussion of the results in conventional research^(15,18).

In Stage 6, presentation of the review/knowledge synthesis contains the elaboration of the document that should analyze the characteristics of the stages examined and the main results shown in the analysis of the articles included. In this way, a thorough review of all the articles chosen was carried out, which made it possible to interpret the data and, with that, provided a summary of the existing knowledge. In this integrative review, the analysis of the results was performed in a descriptive way, with a synthesis of each study included in the sample. Such data were grouped and organized in the order in which they were listed. The ethical and legal aspects were ensured, guaranteeing legitimacy of the authors, who were cited at all times when the articles were mentioned.

RESULTS AND DISCUSSION

The five articles selected are described below, with Chart 1 related to the variables of characterization of the studies: database, authors/year of publication, type of study, level of evidence and language; and Chart 2 with the following variables: study objectives, main findings, conclusion, gaps/limitations and strategy used to improve communication among health professionals.

Chart 1 - Characterization of the studies included in the sample.

Number	AUTHORS/YEAR	DATABASES	TYPE OF STUDY	LEVEL OF EVIDENCE	LANGUAGE
A1	Raymond M, Harisson MC/2014 ⁽¹⁹⁾	MEDLINE	Descriptive	4b	English
A2	Gephart SM, Cholette M/2012 ⁽²⁰⁾	SCIENCE DIRECT	Descriptive	4b	English
A3	Silva MF, Rocha PK, Echevarria- Guanillo ME, Bertoncello KCG, Souza S, Schneider KLK/2021 ⁽²¹⁾	BVS	Methodological	5b	Portuguese
A4	Biasibetti C, Rodrigues FA, Hoffmann LM, Vieira LB, Gerhardt LM, Wegner W/2020 ⁽²²⁾	BVS	Exploratory- descriptive and qualitative	4	Portuguese
A5	Silva MF, Anders JC, Rocha PK, Silva MOV, Souza S, Carneiro ES/2017 ⁽⁸⁾	BVS	Exploratory- descriptive and qualitative	4	Portuguese

It was evidenced that the studies are indexed in three databases, most of them in BVS (n=3; 60%), published in 2012 and 2021 (n=1; 20% each year), descriptive study type (n=4; 80%), with level of evidence 4 (n=4; 80%) and in the Portuguese language (n=3; 60%).

The reduced number of studies included in this review can be justified by the scarcity of research studies on the theme of effective communication among health professionals carried out in a Neonatology environment, which shows that this topic should be disseminated in studies of this nature; in addition to that, the levels of evidence identified show lack of studies with strong scientific evidence.

Chart 2 – Main characteristics of the studies included in the sample.

C	Chart 2 – Main characteristics of the studies included in the sample.						
Number	Study objectives	Main findings	Conclusion	Gaps/Limitations	Strategy used		
1	To determine the effectiveness of adopting the SBAR communication tool in Neonatology in South Africa.	Most of the staff agreed that SBAR assisted in communication, trust, and quality of patient care. There was qualitative evidence that SBAR led to greater readiness in the care of patients with acute diseases.	Adoption of SBAR was associated with an improvement in communication among the professionals and in the quality and safety of patient care in Neonatology.	record(s) and time constraints.	Use of the SBAR technique to standardize information.		
2	To describe how the P.U.R.E. process works and how the teamwork strategies, group skills training and structured communication techniques complement it.	It was evidenced that the team believes that the program has a positive result and influence on	The P.U.R.E. tool unveiled clear and effective communication in the clinical practice.	More research studies are needed to identify whether structured communication and training of the team among the disciplines and units are effective.	The P.U.R.E. tool		
3	To build and semantically validate a safe communication tool to	The SBAR technique was the most used to structure communication among the health professionals in pediatric units.	that a standardized and validated instrument has	It is also believed that the instrument built and semantically validated needs to go through the clinical validation process to be used in the professional practice, as this was the first phase of the instrument's validation.	Use of the SBAR technique to standardize information.		
4	To know the perception of the multiprofessional team regarding the patient safety actions in pediatric	It was evidenced that verifying and passing on information instantly, face-to-face discussion with all those	The multiprofession al team identified and reported several patient safety actions	Conduction in only one institution and non-participation of at least one representative of each	Checking and passing on information instantly; discussion meetings		

	hospitalizations.	involved in the care provided, approach to effective communication in health courses, communication	that exert an influence on communication in pediatric hospitalizations.	incompleteness in the findings, as there was no	with those involved in the care provided.
		techniques in the care transfer and evolution of the information in the patient's medical record contributed to		representation of all the health professional categories of the units surveyed.	
		effective communication in Pediatrics.			
5	To describe the communication process in the transfer between pediatric emergency and the hospitalization care unit and its implications for pediatric patient safety.	Two categories emerged from the data: handoff in the patient transfer process and its interface with communication and factors that interfere with communication during handoff.	Need for a handoff carried out between the teams, with relevant information about the child's condition, thus achieving safe care.	The study limitations are linked to the fact that they deal with the reality of only one institution and, therefore, it is not possible to generalize the results.	Handoff

The studies that comprised this review evidenced that the effective SBAR (Situation, Background, Assessment and Recommendation) communication strategy is the most used to improve care in the hospital environment (n=2; 40%).

Adoption of the SBAR tool is associated with an improvement in communication among the professionals and in the quality and safety of patient care in Neonatology (A1), in addition to being an important standardized and validated instrument for promoting effective communication among health professionals in pediatric units (A3)^(19,21).

SBAR (Situation, Background/Context, Assessment and Recommendation) is a standardized communication tool recommended by the Joint Commission, the Agency for Healthcare Research and Quality (AHRQ), the Institute for Health Care Improvement (IHI), the World Health Organization (WHO) and the United Kingdom National Health Service. It is a structured method for communicating critical information that requires immediate attention and action, contributing to effective management escalation and increased patient safety in Neonatology, reducing the barrier to effective communication across different hierarchies and staff levels, and acting as a reminder that encourages prior preparation for communication⁽¹⁹⁾.

It was originally developed to be implemented in acute health care settings with the intention of improving nurse-physician communication; however, it has also been shown to improve communication among other health professionals. Thus, other specialties adhered to use of the tool, such as Anesthesia, Surgery, Obstetrics, Emergency, Intensive Care, Pediatrics and Neonatology⁽⁴⁾.

A narrative review with studies that used the SBAR communication tool among health professionals in a health care setting also agrees that it is a reliable and validated communication tool that has shown a reduction in adverse events in a hospital setting, improved communication among health professionals and promoted patient safety. It also states that it was developed to structure conversations between physicians and nurses about situations that require immediate attention⁽⁴⁾.

An Italian study corroborates that using the SBAR tool in a hospital environment improves transfer of the patients' information between professionals from the multidisciplinary team and that it can be useful in monitoring the impact on patient safety, thus improving communication⁽²³⁾.

Other effective communication strategies among health professionals in the hospital environment were also mentioned in this review (n=1; 20% each strategy), such as P.U.R.E. (Purposeful, Unambiguous, Respectful, Effective) – $A2^{(20)}$, verifying and passing on information instantly – $A4^{(22)}$ and handoffs – $A5^{(8)}$.

P.U.R.E. is an acronym used to facilitate the communication process in the perinatal and neonatal environment and professional development, having the following meaning: Purpose – It is defined as a goal that is desired towards which an action is carried out; Unambiguous – Containing direct and clear words; Respectful – Treatment that shows honor, proper acceptance and courtesy; and Effective – Accurate communication between sender and receiver. P.U.R.E. intends to ensure that the message is delivered, understood, received and acted upon by professionals; in addition to that, it recognizes the contributions of each team member who uses it. It is a flexible approach that can incorporate other communication tools such as SBAR⁽²⁰⁾.

The P.U.R.E. strategy was also used in the study by Veltman and Larison⁽²⁴⁾, who identified communication failures as a significant cause of adverse outcomes in Obstetrics, emphasizing the importance of this strategy to conduct and monitor structured communications and existing relationships between the professionals. The participants on this study identified the importance of this team-building strategy as a positive force in improving communication in their unit.

In addition to this strategy, two studies were also cited that brought effective communication as an indispensable resource for patient safety, using, for this, handoffs in communication between the health professionals^(8.22).

A study emphasized handoff in the patient transfer process and its interface with communication and the factors that interfere with communication during this activity. With the results, it was observed that the consequences arising from failures in communication among hospital units and among teams can seriously compromise patient safety, causing a break in the continuity of care and treatment offered, highlighting the importance of communication as continuity of the care provided to the patient⁽⁸⁾.

Through Ordinance No. 529, the Ministry of Health instituted the National Patient Safety Program, which aims at promoting actions targeted at improving health care safety, including communication in the environment of the health services. (25). Effective communication is an indispensable strategy to ensure patient safety and the main facilitators of effective communication are verifying and instantly passing on information, face-to-face discussion with all those involved in the care provided, an approach to effective communication in health courses, communication techniques in care transfer and evolution of the information in the patient's medical record (22).

Among these failures, noise, excessive or reduced amount of information, limited opportunity for possible questions, inconsistent quality of information, omission or passing on of erroneous information, non-use of standardization, illegible records, interruptions and distractions caused by the use of telephones or by family members⁽⁸⁾ stand out.

A study pointed out failure of communication and its standardization among health professionals, as well as the inadequate recording of information in the patient's medical record, as barriers to effective communication. In addition, they mentioned the following among the main tools to qualify communication and integration of the care team: practice of information double-check, use of computerized systems, systematic and judicious handoffs among professionals, multidisciplinary rounds, care transfer between sectors and regular team meetings⁽¹²⁾.

Some of the strategies used by the professionals to improve communication are as follows: planning of periodic meetings, focusing on performance assessments and feedback with the entire multidisciplinary team to point out problems in search of solutions. In addition to that, the team's recognition of destructive behaviors and openness to dialog were also cited as strategies for effective communication⁽¹³⁾.

These tools cited in the literature are part of the proposals for improvements in effective communication among health professionals in several studies found in the initial search; however, few studies apply this approach to the Neonatology area, which justifies the importance of this integrative review. Furthermore, although using different strategies to improve communication among health professionals, the results above point to the need to use standardized instruments as strategies for effective communication among them.

CONCLUSION

Based on the scientific production presented in the *corpus* of this research, although there is an incipient number of studies on the theme involving effective communication strategies among health professionals in Neonatology, these strategies are configured as effective in improving communication among the multidisciplinary team members, especially when it comes to critically-ill patients.

Based on this premise, it is worth highlighting the strategies that aim at promoting effective communication found in this review, namely: SBAR, P.U.R.E. and handoffs. Thus, it reinforces the use of validated strategies, as they have psychometric properties.

Therefore, the magnitude regarding the use of standardized information through instruments is understandable, as it is proven effective for effective communication in health services, especially in Neonatology, positively reflecting on care quality and on patient safety.

It is therefore suggested to elaborate a standardized instrument of the checklist type that may come to be used as a tool to promote and sensitize health professionals as to the importance of effective communication in the Neonatology service. The strategies listed above will enable the creation of possible items that will compose the checklist for effective communication among health professionals.

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