

## Conformity of nurse prescribing to care needs: nurses' understanding

*Conformidade da prescrição de enfermagem às necessidades de cuidados: concepção de enfermeiros*  
*Conformidad de la prescripción de enfermería a las necesidades de atención: concepción de enfermeros*

Marília Silveira Faeda<sup>1</sup>, Márcia Galan Perroca<sup>II</sup>

<sup>1</sup> Hospital de Base de São José do Rio Preto, São José do Rio Preto, São Paulo, Brazil.

<sup>II</sup> Faculdade de Medicina de São José do Rio Preto, Department of Specialized Nursing, São José do Rio Preto, São Paulo, Brazil.

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### ABSTRACT

**Objective:** investigate the understanding of nurses on nurse prescribing conformity to the care needs of hospitalized patients and factors associated with that conformity. **Method:** a descriptive study, with a quantitative approach, was conducted at 20 in-patient units of a teaching hospital in the state of São Paulo. The participants (N = 139) answered a semi-structured questionnaire. **Results:** For 43 (30.9%) nurses, nurse prescribing is always in line with patients' care needs. The fields of body care and elimination, skin and mucosa care and investigation and monitoring were the most frequently addressed. **Conclusion:** in the perception of most nurses, nurse prescribing does not conform with patients' health needs. The establishment of strategies to improve prescribing quality is recommended, as well as the development of permanent qualification programs and the systematic use of instruments for assessment of patients' care demands regarding nursing.

**Descriptors:** Nursing Care; Nursing Process; Documentation; Patient Care Planning; Nursing Assessment.

### RESUMO

**Objetivo:** investigar a concepção de enfermeiros sobre a conformidade da prescrição de enfermagem às necessidades de cuidados de pacientes hospitalizados e fatores associados a esta conformidade. **Método:** estudo descritivo, com abordagem quantitativa, realizado em 20 unidades de internação de um hospital de ensino do estado de São Paulo. Os participantes (N = 139) responderam a um questionário semiestruturado. **Resultados:** para 43 (30,9%) enfermeiros, as prescrições de enfermagem encontram-se, sempre, alinhadas às necessidades cuidativas dos pacientes. As áreas de Cuidado Corporal e Eliminações, Cuidados com Pele e Mucosas e Investigação e Monitoramento foram as mais abordadas. **Conclusão:** na percepção da maioria dos enfermeiros não há conformidade da prescrição de enfermagem com as necessidades de cuidados dos pacientes. Recomenda-se a implementação de estratégias para aprimorar a qualidade das prescrições, bem como o desenvolvimento de programas de qualificação contínua e a utilização sistemática de instrumentos de avaliação da demanda de atenção do paciente em relação à enfermagem.

**Descritores:** Cuidados de Enfermagem; Processos de Enfermagem; Documentação; Planejamento de Assistência ao Paciente; Avaliação em Enfermagem.

### RESUMEN

**Objetivo:** investigar la concepción de enfermeros sobre conformidad de prescripción de enfermería a necesidades de atención de pacientes hospitalizados y factores asociados a tal conformidad. **Método:** estudio descriptivo, con abordaje cuantitativo, realizado en 20 unidades de internación de hospital de enseñanza del estado de São Paulo. Los participantes (N = 139) completaron cuestionario semiestructurado. **Resultados:** para 43 (30,9%) enfermeros, las prescripciones de enfermería estuvieron siempre alineadas a las necesidades de cuidado de los pacientes. Las áreas de Cuidado Corporal y Eliminaciones, Cuidado de Piel y Mucosas e Investigación y Monitoreo fueron las más abordadas. **Conclusión:** según visión de la mayoría de enfermeros, no hay conformidad de prescripción de enfermería con necesidades de atención de los pacientes. Se recomienda implementación de estrategias para mejorar la calidad de las prescripciones, cualquier otro desarrollo de programas de calificación continuada y utilización sistemática de instrumentos de evaluación de demanda de atención del paciente referentes a enfermería.

**Descriptor:** Atención de Enfermería; Procesos de Enfermería; Documentación; Planificación de Atención al Paciente; Evaluación en Enfermería.

CORRESPONDING AUTHOR

Marília Silveira Faeda

E-mail: [mafaeda@yahoo.com.br](mailto:mafaeda@yahoo.com.br)

## INTRODUCTION

The consolidation of care quality has been garnering interest in the nursing scenario. Its adequate assessment requires keeping record of a set of precise information on the health state of patients<sup>(1)</sup>. These documents support care planning<sup>(2)</sup> through nurse prescribing (NP).

In order for NP to be employed as an instrument to ensure patients' well-being and decrease harms resulting from lack of care<sup>(3)</sup>, it is important that its components be individualized and always up-to-date<sup>(4)</sup>. Difficulties for nurses to identify necessary information to instrumentalize the work process and nursing care cause, frequently, collection and retention of an information set that does not correspond to care needs<sup>(3)</sup>.

Studies have shown that there is lack of prescribing adequacy to patients' care needs<sup>(5)</sup>, in addition to them not being daily assessed and validated<sup>(6)</sup>. Frequently, this lack of adequacy results from lack of personnel for serving patients, from limited infrastructure for nursing practice or lack of engagement and/or lack of appreciation by these professionals when conducting the nursing process<sup>(6)</sup>. Still, other interfering factors that have been reported are work overload<sup>(4)</sup> and lack of use of instruments capable of supporting the identification of care areas in need of greater nursing attention<sup>(7)</sup>.

Although the incorporation of the Patient Classification Instrument happens slowly in the field of clinical and management practice<sup>(8)</sup>, it is of the utmost importance<sup>(8-10)</sup>. This tool supports the identification of patients' care needs and favors both planning and assessment of the care process<sup>(11)</sup>.

The electronic recording of prescriptions is positive, because it promotes care standardization<sup>(12)</sup>, data organization, directing nursing actions, and saves time<sup>(13)</sup>. However, it has also caused a number of problems, since the use of computer systems without employing clinical and critical thinking makes nursing actions automatic and repetitive, which interferes on decision making and care quality<sup>(14)</sup>.

Therefore, this study was conducted to investigate the nurses' understanding of nurse prescribing conformity to the care needs of hospitalized patients and factors associated with that conformity. It aims to answer the following questions: *Is nurse prescribing being performed according to patients' care needs? Which care practices are not being included? Which factors interfere in their creation?* Learning the perception of nurses on the factors involved in performing NP enables the definition of strategies for care that is centered on care needs.

## METHOD

### Ethical aspects

The investigation began after approval by the research ethics committee of the researched institution and signing of a free and informed consent form by the participants.

### Study design, setting and period

This descriptive quantitative study was conducted at a teaching hospital with extra capacity located in a city in the state of São Paulo, at 20 in-patient units, comprising two medical clinics,

two surgery clinics and 16 specialized units (cardiology/hematology (n = 1), palliative care (n = 1), infectious/parasitic diseases (n = 1), emergency (n = 2), gynecology/obstetrics (n = 1), neuro/orthopedics (n = 1), pediatrics (n = 3), transplantation (n = 1), intensive care (n = 5)). At this institution, nursing care is conducted through a Nursing Process and its stages are recorded in an electronic database, going through the stages of data collection, diagnosis, prescribing and evolution in nursing. Nursing diagnoses are used to support intervention selection in this field. Data were collected from February to June, 2015.

### Population or sample

All nurses who worked directly with patient care (n = 207) at the mentioned institution were contacted. A total of 139 (67.1%) agreed to participate.

### Study protocol

The professionals answered a semi-structured questionnaire comprising two parts:

1. *Professional profile and unit data*: demographic data (age and gender), professional (experience and qualification) and the units' characteristics (number of workers and prescribing occurrences per nurse, among others);
2. *Nurses' perception of prescribing*: aspects related to prescribing conformity to patients' care needs, nursing care that is usually included, satisfaction with the creation and quality of prescribing and facilitating and restrictive factors in their creation process. This part contained open-ended questions (how patient care needs are assessed; care aspects considered in the creation of NP; adequacy to care necessities) and three Likert scales (quality aspects; satisfaction level with time, quantity and form; and included care) with five points, with 33 frequency statements (options ranging from never to always) and satisfaction level (dissatisfied up to extremely satisfied).

The questionnaire content was validated by five doctors of nursing and three nurses, who analyzed each item's objectivity, clarity and pertinence. Agreement varied from 95% to 98%, showing that the instrument is capable of measuring the concept at hand. After being answered at the pre-testing phase by 16 nurses who practiced direct patient care, it underwent internal confidence testing, which resulted in a Cronbach's Alpha of 0.80, considered good.

### Analysis of results and statistics

Data were analyzed using the software GraphPad Prism 5 (GraphPad Software Inc., San Diego, CA, USA), through the following methods: 1. Descriptive statistics presented as frequency, percentage, mean and standard deviation; 2. Unpaired t-test for mean comparison, adopting a significance level of 0.05; 3. Median, quarters (Q1 and Q3) and interquartile range (IR), calculated for the Likert scale, with scores of five and one to answers of higher and lower agreement, respectively.

## RESULTS

A total of 139 nurses participated in the study, mostly women 127 (83%) aged 31 (SD=21; variation 23-55). Mean time of professional practice was six years (SD = 5, variation 1-21) and mean time of practice at the researched unit was five years (SD = 4, variation 1-18). Nurses worked morning shifts (n = 72), afternoon shifts (n = 61) and night shifts (n = 6). As for professional qualification, two graduated in nursing, three underwent further training, 129 underwent *lato sensu* graduate programs (with the most frequent specialties being: urgency and emergency, pediatrics and neonatal, and ICU), two held master's degrees and one held a PhD degree in nursing.

**Table 1** – Distribution of nursing personnel by work shift and in-patient unit, São José do Rio Preto, São Paulo, Brazil, 2015

UNITS	Nurses/ shift M (SD)	Aides and technicians/shift M (SD)	Patients/ nurse/shift M (SD)
Medical clinic	2.3 (0.5)	7.5 (0.5)	33.9 (15.7)
Surgery clinic	2.3 (0.5)	7.0 (1.0)	26.7 (12.5)
Cardio/hematology	2.5 (0.8)	8.5 (0.5)	29.1 (8.2)
Palliative care	1.0 (0.0)	3.0 (0.0)	8.0 (0.0)
Infectious/parasitic diseases	1.0 (0.0)	5.0 (0.8)	18.0 (1.0)
Emergency	1.6 (0.7)	5.3 (2.6)	20.6 (8.1)
Gynecology/obstetrics	1.3 (0.5)	4.0 (0.0)	20.0 (5.6)
Neuro/orthopedics	1.3 (0.5)	5.0 (0.0)	16.7 (4.7)
Pediatrics	1.5 (0.7)	5.3 (0.5)	15.9 (6.3)
Transplantation	1.3 (0.5)	4.3 (0.5)	20.8 (5.9)
Intensive care	2.0 (0.8)	6.0 (1.0)	9.6 (0.8)
Total	1.6 (0.5)	5.5 (1.5)	19.9 (7.4)

Note: \* M(SD): Mean (standard deviation).

According to the nurses, the unit has a predominance of patients demanding intensive care (ICU), semi-intensive care (emergency, palliative care, cardio/hematology and neuro/orthopedics), intermediate care (medical clinic, infectious/parasitic diseases, pediatrics, transplantations and surgical clinics) and minimal care (gynecology/obstetrics).

The number of patients under care of a single nurse by work shift varied from eight in the palliative care unit to 33.9 (SD=15.7) at the medical clinic. There was a mean of 1.6

(SD=0.5, variation 1-1.25) nurses/shift and 5.5 (SD=1.5, variation 3.0-8.5) nursing aides/technicians per shift. (Table 1).

In relation to the frequency of NP, 109 (78.4%) nurses prescribed sometimes and 30 (21.6%) daily. The majority - 122 (87.8%) - reported prescribing generally in the night shift, whereas 121 (87.0%) were based on care needs assessments and 18 (13.0%) on symptoms presented by each health harm. To assess care demands related to nursing (there was more than one answer), there were 65 (47%) nursing visits, 24 (17%) subjective care complexity assessments, 18 (13%) medical diagnoses and 86 (62%) anamnesis at admission.

For 43 (30.9%) nurses, nurse prescribing is always in line with the patients' healing needs; for 72 (52.1%), this occurs only sometimes, whereas 24 (17%) believe they are not in line. Of the total sample, 121 (87.3%) claim that this inadequacy results from incorrect usage of digital prescribing features, such as copying, adding and deleting items.

When asked about facilitating factors for prescribing, participants mentioned: nursing visits 50 (38.2%); rounds 34 (24%); anamnesis 20 (14.4%); digital records 18 (12.3%); and communication among members of the multi-professional team 17 (11.1%). Regarding factors with a negative influence (restrictive), they mentioned: time available for prescribing 58 (42%); shift interruptions 32 (23%); work overload 30 (21.5%); excessive documentation and routines to follow 13 (9%); and underappreciation of nurse prescribing 6 (4.5%).

Nursing care practices observed in NP are presented in Table 2. Some items that call attention are anthropometric measurements, vital signs assessment, oxygen therapy, stoma care, peripheral venous puncture and skin and wounds 5 (5-5) each. Among the less prescribed procedures are assessment of effectiveness of administered drugs 1 (1-2) and feeding patients warm food 1 (1-1). The areas body care and elimination, skin and mucosa care and investigation and monitoring received the highest scores.

The nurses' degree of satisfaction demonstrated medians ranging from 5 (5-5) for description of care frequency, daily prescribing, provision of trustworthy data to 1 (1-3) for the amount of NP/shift and 1 (1-2) for time available for prescribing (Table 3).

The nurses' perception of the characteristics of NP ranged from 3 (0) for care description to 5 (0) for description of care frequency, daily prescribing and provision of trustworthy data. The lowest value 1 (0) was found for satisfaction with amount of NP/shift and time available for prescribing, and the highest values 5 (0) were obtained for digital prescribing at all units (Table 4).

**Table 2** – Frequency of nursing care practices mentioned in nurse prescribing according to the nurses' reports, São José do Rio Preto, São Paulo, Brazil, 2015

Care needs	Nurse prescribing	Md (Q1-Q3)
Investigation and monitoring	Anthropometric measurements	5 (5-5)
	Application of measurement scales (Braden, Morse and Glasgow)	3 (3-3)
	Vital signs verification	5 (5-5)
	Effectiveness assessment of administered drugs	1 (1-2)
	Oxygen therapy	5 (5-5)
	Clearing of air ways	3 (2-4)

To be continued

Table 2 (concluded)

Care needs	Nurse prescribing	Md (Q1-Q3)
Body care and elimination	Diaper change or placement of urinals	4 (4-5)
	Probe care	4 (4-4)
	Stoma care	5 (5-5)
	Peripheral and central venous puncture care	5 (5-5)
	Hygiene needs assistance	4 (4-4)
	Oral hygiene	3 (3-4)
Skin and mucosa care	Skin/wound care	5 (5-5)
	Lying position change every two hours	3 (3-4)
Nutrition and hydration	Water balance control - intake and output	4 (4-5)
	Feeding patient warm food	1 (1-1)
	Offering food for patients to feed themselves	3 (3-4)
Locomotion and activity	Walking three times/day or as prescribed	2 (2-2)
Therapy	Drug administration in the 30-minute period before or up to one hour after prescribed time	2 (1-3)
Emotional support	Emotional support to patient/family	3 (3-4)
Health education	Patient training on diseases, clinical-laboratory exams and diagnosis exams	2 (2-2)

Note: Md = Median; Q1-Q3 = Quartiles 1 and 3; Score 1 = lowest frequency; Score 5 = highest frequency.

**Table 3** – Aspects of prescribing and satisfaction of nurses according to the process of prescribing per work shift (medians and quartiles), São José do Rio Preto, São Paulo, Brazil, 2015

Variables	Morning Md (Q1-Q3)	Afternoon Md (Q1-Q3)	Night Md (Q1-Q3)	Total Md (Q1-Q3)
Characteristics				
Writing clarity	4 (4-4)	3 (3-4)	4 (4-4)	4 (4-4)
Care description	4 (3-4)	3 (3-3)	4 (3-4)	4 (3-4)
Care frequency	5 (5-5)	5 (5-5)	5 (5-5)	5 (5-5)
Daily prescribing	5 (5-5)	5 (5-5)	5 (5-5)	5 (5-5)
Trustworthy data	5 (5-5)	5 (5-5)	5 (4-5)	5 (5-5)
Satisfaction				
Quality	3 (3-3)	2 (1-3)	3 (2-3)	3 (3-3)
Amount of NP/shift	1 (1-3)	2 (1-3)	1 (1-1)	1 (1-3)
Time	1 (1-2)	1 (1-2)	1 (1-1)	1 (1-2)
Digitalization	5 (5-5)	5 (5-5)	5 (5-5)	5 (5-5)

Note: NP = Nurse prescribing; Md = Median; Q1-Q3 = quartiles 1 and 3; Score 1 = lowest agreement; Score 5 = highest agreement.

**Table 4** – Aspects of prescribing and satisfaction of nurses according to prescribing processes per in-patient units - Md (IR) - São José do Rio Preto, São Paulo, Brazil, 2015

Variables	In-patient units										
	1	2	3	4	5	6	7	8	9	10	11
Characteristics											
Writing clarity	4 (0)	4 (0)	4 (0)	4 (1)	4 (0)	4 (0)	4 (0)	4 (1)	4 (0)	4 (0)	4 (0)
Care description	4 (1)	3 (0)	4 (1)	4 (0)	4 (1)	3 (0)	4 (1)	3 (0)	3 (0)	3 (0)	4 (0)
Care frequency	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)
Daily prescribing	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)
Trustworthy data	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (1)	5 (0)	5 (0)	5 (0)	5 (1)

To be continued

Table 4 (concluded)

Variables	In-patient units											
	1	2	3	4	5	6	7	8	9	10	11	
Satisfaction												
Quality	2 (0)	2(1)	3 (1)	3(0)	3 (0)	3 (1)	2(1)	3 (0)	3 (0)	3 (1)	3 (0)	
Amount of NP/shift	1 (1)	1 (0)	1 (2)	1 (2)	1 (1)	1 (1)	1 (2)	1 (0)	1 (0)	1 (1)	1 (1)	
Time available	1 (0)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)	1 (0)	1 (1)	1 (1)	1 (1)	1 (1)	
Digitalization	5 (0)	5 (0)	5 (1)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	5 (0)	

Note: IR = (Q3-Q1); Score 1 lowest agreement/satisfaction; Score 5 highest agreement/satisfaction; 1. Medical clinic; 2. Surgical clinic; 3. Cardio/hematology; 4. Palliative care; 5. Infectious/parasitic diseases; 6. Emergency; 7. Gynecology/obstetrics; 8. Neuro/orthopedics; 9. Pediatrics; 10. Transplantation; 11. Intensive care; NP = Nurse prescribing.

## DISCUSSION

The need to periodically monitor nursing records, including nurse prescribing, to find non-conformities and to establish correctional measures has been highlighted in literature<sup>(15)</sup>. This study verified the nurses' understanding of nurse prescribing adequacy to patients' needs, aiming to identify facilitating and restrictive factors. It found that only 30.9% of the studied professionals believed that they are always in line with the patients' healing needs. Studies concerning nursing documentation<sup>(3,6)</sup> usually analyze whether NP items are adequately filled in and do not investigate the satisfaction of needs, which hampers comparisons.

Work overload was mentioned by 30 (21.5%) nurses as a restrictive factor for that alignment, since it limits the time available to satisfy patient care demands. At the studied institution, night shift nurses are responsible for patient assessment and the unit's nurse prescribing. In addition to prescribing, they also monitor their co-workers activities. In this work shift there are, generally, admissions of patients with high time demands. Nurse prescribing divided in-between shifts or delegated to the night shift has been considered a choice that compromises quality, since it has been frequently conducted as a routine, with repeated interventions unrelated to patient needs<sup>(16)</sup>. Thus, the inadequacy of the night shift for creating NP is highlighted because of the lower number of professionals on-duty, in comparison to the other shifts, and the volume of activities to be completed. Lack of time was mentioned by 72% of nurses as cause for NP lacking in quality<sup>(6)</sup>.

The excessive amount of documents and routines to be conducted has also been identified in this study as interfering aspects in NP compliance to care needs. The high number of administrative activities demanded by institutions and the nurses' efforts to meet them take their focus away from patient care<sup>(17)</sup>.

It might be asked, in this practice scenario, how it is possible for nurses to individually monitor patients for identification of needs and prescribing that is adequate for care. Knowledge of clinical conditions, establishment of bonds between patients/families and active participation in the planning and execution of the care process are all crucial to make the assessment process more efficient<sup>(7)</sup>.

The low appreciation given to NP, although mentioned by few participants, is a worrying element. It seems that the professionals have not been acting proactively, with aims to

individualized care that guarantees precise interventions for unique nursing care<sup>(6)</sup>. It is necessary for health institutions to promote nurses' awareness on the importance of NP creation and to establish qualification programs so that the nursing process happens correctly.

Although the documents concerning systematization of nursing care are in digital form at the researched institution, which favors work focus, the participating nurses believe that the previous day's prescribing is reproduced without updates and, therefore, care needs are partially satisfied. Therefore, digital records are revealed as tools that do not force daily assessments of patients' needs and clinical assessment of their health state, which makes this important process fragile and mechanic. Priority interventions for each diagnosis are not defined, and established diagnoses, which should accordingly base the prescribing, are not considered, taking NP away from the real care needs of patients.

When nurses input the nursing actions into the computer system using the copy and paste feature, there is the possibility of including non-validated data on patients' statuses. Failure to use clinical thinking influences decision making and interferes in care quality<sup>(14)</sup>. However, if correctly employed, digital records make it possible to direct nursing action<sup>(18)</sup> and frequently review care plans and necessary changes<sup>(19)</sup>, aspects that favor communication in multi-disciplinary teams, clinical thinking and relevant decision making<sup>(20)</sup>.

Nurses reported that they assess care demands through nursing visits, subjective assessments of care complexity, medical diagnoses and anamnesis during admission. The systematic use of tools to detect patient care needs, such as the Patient Classification Instrument, has been widely recommended<sup>(8-9,11)</sup>. Although the Patient Classification Instrument has been originally created to help calculate nursing personnel, it is a powerful tool to guide nurses' decisions when planning care<sup>(8-9)</sup>. It was found that assessments conducted employing this instrument reached further areas of care when compared to those in which the instrument was not used<sup>(7)</sup>.

These study's findings reveal that care involving health education for patients/families, walking and assessment of drug effectiveness is being rarely prescribed. Lack of attention for certain care areas by the nursing team, such as educational actions, walking assistance and body care, has been reported<sup>(21)</sup>. Body care, however, was mentioned by nurses as one of the areas most frequently addressed by NP. However, it is

important to emphasize that, in isolation, NP does not guarantee the performance of a given care action.

Nurses' satisfaction was noticed regarding the provision of trustworthy data and the digital form of NP. These aspects, however, are ambiguous. High agreement for both was found, whereas only 18% of professionals believe that the digital system is a facilitator for NP and, also that only 30.9% consider they are in line with patients' care needs. The high amount of prescribing per nurse and shift, the little time to do them and their final quality were pointed as factors that generate dissatisfaction.

Thus, the authors suggest the implementation of strategies to strengthen facilitating factors and minimize restrictive ones, such as a new outlook from nursing managers on prescribing distribution per nurse and per shift as a way to favor nurse/patient interaction<sup>(22)</sup>, the use of critical thinking (nursing diagnosis) and decision making centered on patient care needs through the use of instruments.

To obtain quality nurse prescribing, some hospitals have adopted measures to identify and improve situations that interfere in the execution and documentation of care, such as the

creation of medical records analysis commissions, audits and qualification programs focused on the systematization of nursing care<sup>(6)</sup>. However, it is necessary to also assess prescribing conformity according to patient care demands, an aspect that has not always been contemplated.

A limiting factor for this study was the fact that it was conducted at a single hospital institution, whose care context and work process can differ from other healthcare settings. Although there was not total adherence from the nurses, the findings represent the perception of most of them (67.1%). Further studies are recommended to broaden knowledge on this theme.

## CONCLUSION

In the perception of most nurses, nurse prescribing does not conform to patients' health needs. In order for nurses to offer care centered on real or potential health problems, in addition to patient safety, strategies such as permanent qualification programs, as well as the systematic use of instruments for assessment of patient care needs concerning nursing should be implemented.

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