Time required for caring: an experience from the Nursing process

Abstract

Background: Nursing diagnoses are identified, in light of the NANDA, then by observation and monitoring of care interventions, the nursing time required for professional and auxiliary care is determined; understanding the real time, as a measurement parameter of the action and the ideal time contextualized with the complexity of care. The times are socialized and validated, with the nursing professionals, in the manner of expert judgment from the evidence; the time to perform each of the care interventions is redefined.

Objective to reveal the time required of nursing personnel to provide close attention to the needs of the human being, from the application of the Nursing Process.

Methods: Within the framework of an experience in practice, the time required for care is carried out, the Puerta C AM1 method is adopted, which contemplates the assessment, planning and diagnosis and implementing interventions, as well as the determination of the time for care and other actions of nursing actions, valuation is carried out with 43 care subjects hospitalized in a Health Institution of the First Level of Care.

Results: We identified 25 nursing diagnoses and 46 care actions carried out in a time of 440 minutes of which 31.2% by nursing professional and 68.8% by auxiliaries. However, if the actions are assigned according to the protocols, the time is increased to 593 minutes with a longer time for professional nursing care. Conclusion: It requires a longer time for nursing care actions if the needs of patients are valued and recognized, as well as actions to support care and service management. The Nursing Care Process is the method to calculate the nursing time for each patient, from the assessment, diagnosis, prioritization, planning, execution and evaluation of care actions.

Keywords: Nursing administration research, nursing care, patient-centred care, patient care planning, nursing process

Introduction

Know the nursing staff required for care, is one management challenges, since it must analyze progress scientists technological and discipline in the social, economic and political context in which people live, families and communities and the demands of social and health services. As Hurts expresses it, two have been identified methods for calculating nursing staff as professional judgment by experts, the method of nurses per occupied bed, the analysis of the dependence of the degree of complexity of care and quality of activities, task-timed activity method and, finally, those based on regression analysis. The method proposed here is done following the Nursing Process - PAE - complemented by the actions that support care. Today the challenge is greater when it is declared to the nursing, by organism s such as the World Health Organization and the International Council of Nursing - ICN- guarantor of the right to health and the achievement of the Sustainable Development Goals; is effective by providing quality care to people of all ages, and perform action ones of health promotion and disease prevention. WHO estimates that nurses and midwives account for almost half of all health workers worldwide. However, for all countries to achieve Sustainable Development Goal 3 on health and well-being, WHO estimates that by the year 2030 there will be an additional 9 million nurses and midwives around the world.

For its part Greenberg, PB, ratify the importance of having the right nursing staff to improve equity and access to health services, overcome the inequalities of the most vulnerable and excluded people, families and human groups, better serve populations in pandemic situations and natural disasters.

McHugh MD, Berez J, Small DS, confirm that hospitals with more nurses have less likely to readmissions and sanctions; Patterson confirms the part, it examines the literature on the proportion of nurse patients, to establish excellence in care and affirms that while using innovative strategies such as decreasing hospital stays, having a recruitment process with staff retention and having a long-term policy for the planning of the personnel.

In Colombia, Law 1164 of 2007 which establishes the provisions of human talent in health, places as a priority the regulation of an information system that integrates the levels and competencies of all health personnel, which equitably serves the population that requires their services. The Ministry of Health and Social Protection emphasizes the need to develop a system that includes demand analysis focused on the needs of the population; the characterization of the offer that dimensions, among others, the health personnel with their performance categories; and the incentive approach that is based on pertinent and truthful information.

In this sense, this work provides another look for the study, analysis and argument the coefficient of personal of professional and support from the context nurse, also seeks to answer the question of ¿How nurses are estimated to provide care from the needs of people, families and groups?
Methodology

Case study, adopts the Puerta C AM method, which includes assessment, planning, and implementing interventions and determination of the time care and other nursing actions; it is done from the valuation of 43 Care subjects hospitalized in the First Level Care Institution. Nursing diagnoses are identified, in light of the NANDA.

In addition, by observation and monitoring of care interventions, the nursing time required by category is determined: professional and auxiliary; understanding the real time, a measurement parameter of the action in minutes at the moment in which the record is observed and made; the ideal time involves a process where the information obtained is analyzed and monitored with the number of care subjects as needed, to adjust the time to a figure that is close to what is required to satisfy the need is. The reports are sent to the nursing directives to be taken into account in the instances where nursing care protocols and standards are determined.

The adopted method prioritizes central aspects of the Nursing Process -PAE- from the assessment, the formulation of the diagnoses and the plan of action or of the interventions. From the didactic the first moment includes, the recognition of the institutional and social context, documentary review, structured interviews regarding human talent policies, if required.

In a second moment, for fifteen weeks and in the time that a teacher and some students Course Management of nursing, University of Antioquia, develop their practice to the institution, the assessment to identify subjects care needs hospitalized; and determine the diagnoses and nursing and interventions required and the real and ideal time to execute them, and take into account the orientations of the NANDA.® Real time is understood as timed in each action and idealized time contextualized and according to nursing standards.

Besides, the actions of nursing professional and nursing assistant are identified for the support of care and the time in minutes required for each time it is performed. The study collects the contextualized particularities, according to the work load executed, the situation of the patients, or the complexity of the service, it is not a study of time particularities, according to the work load executed, the situation of the patients, or the complexity of the service, it is not a study of time contextualized and according to nursing standards.

The process analysis, interpretation, and validation of information is performed once reflection in applying the PAE, teacher and student interaction continues to verify the information and look consistencies or not the guidelines of nursing and health service: the attention processes, the operating norms, the evaluation indicators, the norms established in the institution and the socio-demographic and epidemiological comparison, in addition they analyze the discrepancies, departures, or separations in the results with the established in the institution.

Then socialization meetings and validation of the information are carried out with the nursing professionals, heads of the hospitalization service and the pertinent adjustments are made, if needed; diagnostics regarding nursing interventions demanded and required time nurse or nursing assistant. This method is called analysis by consensus from the evidence; it is a judgment of experts where they are immersed in the daily task of the subject investigated.

Results

The list below shows 25 nursing diagnoses identified with the 43 care subjects hospitalized at different times, during the fifteen weeks of the study. Allowing in the future to approach other studies with similar methodologies; it is clear that the results are applicable only to the subject of this study only care because you cannot make inferences in other areas, but if you can replicate the methodology in other institutions. They identify themselves 46 actions or interventions that conform to the NIC taxonomy made for the care of hospitalized people, See Table 1. It stipulates the total real time required by the nursing team to carry out the Actions, so by the time it is identified that provide auxiliary 68.9% and 31.1% the of professionals the time care, however it must take into account that some nursing actions not being performed and observed that are part the care plan, which means that it can vary the time and increases the requirement for staff, if they are carried out.

Table 1 Identified Diagnostics

| Identified diagnoses                                                                 | 1 |
|------------------------------------------------------------------------------------|---|
| Anxiety R/C unknown forecast                                                       | 2 |
| Anxiety R/C inability to work                                                      | 3 |
| Alteration of well-being R/C heartburn by regurgitation                             | 4 |
| Alteration of well-being R/C pain                                                  | 5 |
| High risk of alteration in self-care R/C deficit in the knowledge of the disease    | 6 |
| Medication, signs and symptoms of complications                                     | 7 |
| High risk of infection R/C invasive procedures                                     | 8 |
| Impairment of physical mobility R/C edema and pain                                  | 9 |
| Deficit of self-care R/C mobility limitations                                      | 10|
| Deficit Self-care R/C pain                                                         | 11|
| Intolerance to R/C activity or insufficient oxygenation S/A tissue hypoxia          | 12|
| Pulmonary congestion                                                               | 13|
| Ineffective airway cleaning R/C difficulty coughing                                | 14|
| Deficit due to fluid volume alteration R/C vomiting and diarrhea                   | 15|
| Decrease in gaseous exchange R/C increase in pulmonary secretions S/A infectious   | 16|
| Processes                                                                           | 17|
| Decrease in gaseous exchange R/C presence of pulmonary fluid S/A heart failure      | 18|
| Decrease in gas exchange R/C narrowing of the airway                               | 19|
| Decrease in cardiac output R/C decrease in the strength of cardiac contraction      | 20|
| Intolerance to activity due to fatigue and dyspnea R/C decreased cardiac output    | 21|
| Increase in extra vascular fluid R/C heart failure as a pump                       | 22|
| Decreased urinary output R/C renal failure due to decreased tissue irrigation S/A heart failure | 23|
| Risk of electrolyte imbalance R/C increase in the loss of ions and water in the urine | 24|
| Anxiety R/C term gestation                                                         | 25|
| Fear R/C possible loss of uterine content                                           | 26|
| Risk of alteration in cutaneous continuity R/C immobility                          | 27|
| Risk of electrolyte imbalance R/C increase in loss and decrease of inputs          | 28|
| Risk of electrolyte imbalance R/C lack of appetite                                 | 29|
Regarding the total ideal time to invest by the nursing team, in actions to be carried out for care, for one time or another, the situation shows that since it should be, it requires more time for nursing professionals to care, in a percentage of 67.8 unlike 31.1 that have in real time.

Likewise, the actions of support for care show, See Table 2, a greater participation of the nursing professional especially in the planning of care, the preparation of the Kardex and the medication card. Now, the ward secretary invests more time in the operational management for the acquisition of the resources and the return of the same, in which 60 minutes are spent at a time in the latter.

For their part, the nursing assistants participate with their time in the realization of actions that involve the professional and the secretary of the service. The time found for cleaning the unit is striking; 30 minutes at a time. Table 3

Table 2 Nursing actions by personnel category and average time in minutes performed only. First level hospital

| Actions                                                   | Real Time per patient | Ideal time per patient |
|-----------------------------------------------------------|-----------------------|------------------------|
|                                                           | Professional | Assistant | Professional | Assistant |
| 1 Attend the changes manifested by the Newborn            | -          | 25        | 25           |             |
| 2 Apply oral and intramuscular medications                 | -          | 10*       |             | 10*        |
| 3 Assist in the feeding                                    | -          | 10        |             | 14*        |
| 4 Assist in the change of position every 2 hours           | -          | 5         |             | 10*        |
| 5 Apply lotion or cream on the skin every 12 hours        | -          | 5         |             | 10*        |
| 6 Apply Blood Products                                    | -          | 7         | 30           | 0          |
| 7 Bathe the Newborn                                       | -          | 20        |             | 20         |
| 8 Perform bladder catheterization                         | 11         | 15        | 11           | 10         |
| 9 Channel veins                                            | -          | 8         | 5            | 10         |
| 10 Make cures and skin care                               | 15         | 15        | 30           | 15         |
| 11 Educate and inform the family about care               | 12         | 10        | 12           | 12         |
| 12 Perform Postural drainage                              | this activity was not observed | this activity was not observed | 20 |             |
| 13 Perform Glucometry                                     | 5*         | 2*        | 5*           | 2*         |
| 14 Teach the risks of immobility                          | 3          |           | this activity was not observed | 5 | 5 |
| 15 Perform Electrocardiograms                             | 8          | -         |              | 10         |
| 16 Teach about wandering                                  | 5          | 5         | 10           | 5          |
| 17 Evaluate feeding patterns and fluid intake             | 10         | -         | 10           | -          |
| 18 Teach about the disease, the treatment and the objectives to improve the state of health. | 12 | 10 | 15 | 10 |
| 19 Teach protective measures to prevent falls.            | 3*         | 5*        | 15*          | 15*        |
| 20 Teach breathing exercises                              | 8          | -         | 8            | 5*         |
| 21 Encourage participation in self-care activities.       | 7*         | 5*        | 15*          | 5*         |
| 22 Facilitate the exposure of feelings through active listening, questions and reflection. | 5 | 5 | 15 | 5 |
| 23 Assess pressure points on the skin.                    | 5          | 3         | 5*           | 5*         |
| 24 Make the entry to the person                           | 10         | 14        | 15           | 10         |
| 25 Gastric naso catheterization                           | 7          | 7         | 10           | 5          |
| 26 Perform enema                                           | -          | 15        |              | 15         |
| 27 Massage bony prominences                               | -          | 5         |              | 5*         |
| 28 Perform Fetal Monitoring                               | -          | 30        | 30*          |             |
| 29 Make Nebulisation                                      | -          | 12*       | -            | 12*        |
| 30 Apply intravenous therapy                              | -          | 10        |              | 20*        |

Citation: Cataño AMP, Noreña DLG. Time required for caring: an experience from the Nursing process. Nurse Care Open Acces. 2018;5(4):258-263. DOI: 10.15406/ncoaj.2018.05.00157
Table continued...

| Actions | Real Time per patient | Ideal time per patient |
|---------|-----------------------|------------------------|
| 31      | Measure ingestion and elimination of liquids | 5 | 5 |
| 32      | Weigh daily | 3 | 3 |
| 33      | Perform passive exercises. | It is not observed | 15 |
| 34      | Apply Respiratory Therapy | this activity was not observed | 15 |
| 35      | Take laboratory tests | 3 | 7 | 10 * |
| 36      | Use physical measures, massages to increase well-being. | this activity was not observed | 5 | 15 |
| 37      | Assess the general condition and follow-up of care | 6 | 15* | 5* |
| 38      | Assess the pain and apply the therapy. | 5 | 10 * | 5* |
| 39      | Value tolerance to activity. | 2 | 5* | 2* |
| 40      | Assess vascular and neurological involvement | 2 | 10 * | 2* |
| 41      | Rate sleep patterns | 2 | 5* | 2* |
| 42      | Monitor side effects of medications | 3 | 10 * | 2* |
| 43      | Assess Vital signs. | 6 * | 4* | 6 * |
| 44      | Analyze test results and communicate abnormalities | 3* | - | 5* |
| 45      | Rate signs of infection. | 3 | 5* | 5* |
| 46      | Assess the mental state: restlessness, coherence and alertness. | 3 | 5* | 2* |
| Total time in minutes | 137 | 303 | 402 | 191 |
| Total time in hours | 31.1 | 68.9 | 67.8 | 32.2 |

*Time for an action, if repeated several times in 24 hours, multiply by the number that is repeated

Table 3 Nursing care support* and time in minutes for each time according to personnel category, Hospitalization service. First level

| Actions                                             | Time in minutes |
|-----------------------------------------------------|-----------------|
|                                                     | Nurse | Assistant | Secretary |
| Deliver turn, each participant                      | 20    | 20        | 20        |
| To assign activities                                | 7     | -         | -         |
| Attend the person during the medical round          | 20    | -         | -         |
| Prepare and update the Kardex and records           | 83    | -         | -         |
| Update of medication cards (Audit)                  | 80    | -         | -         |
| Update care plans (PAE included)                    | 91    | -         | -         |
| Perform round of Nursing , per shift                | 20    | 20        | -         |
| Request diets                                       | 15    | -         | 46        |
| Process specialized laboratory exams.               | -     | -         | 15        |
| Verify the existence of resources                   | -     | -         | 15        |
| Request missing resources                           | -     | -         | 60        |
| Request medications for patients                    | 15    | -         | 120       |
| Make a refund of the existence of resources         | 10    | -         | 60        |
| Send requests to pharmacy                           | -     | 6         | 6         |
| Perform process of inter consultations and referrals | 10    | -         | 20        |
| Confirm the exit of the subject of care             | 5     | 5         | 5         |
| Review Clinical History.                            | 8     | 8         | 8         |
| Perform and monitor billing regulated               | 2     | 3         | 40        |
| Report administrative paperwork about graduation     | 15    | 10        | -         |

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Table continued...

| Actions                                      | Time in minutes |
|----------------------------------------------|-----------------|
| Registrar subject egress care                | 5               |
| Carry out terminal cleaning of the unit      | -30             |
| Review inventories                           | 15              |
| To elaborate Other records: Hours worked, daily patient census, delivery diary | 20               |
| Total time in minutes                        | 441             |
| Total Time in Hours                          | 7.35            |

Note: *Not all actions are included: support for care or for management, research and education*

**Discussion**

The methods to estimate the time required for nursing actions, have this ongoing discussion do in practice in nursing and has become the cornerstone of management by favouring the an assignation of the personnel for the provision of the care. In this direction Hurst K, quoted by Gaviria N⁴ provides, to have a method to know the s nursing activities and time, it is a reality that nurses should lead to a systematic planning of care, identifying needs and actions that can be predicted and monitored in day to day and that their results can be corroborated in other contexts. In line, this study assumes Nursing Process –PAC-, as the method for setting the times required care from the language and the international classification of nursing practice, which favours a job that can be applied in various contexts and ensure quality care.

Andrea B,¹⁵ Bruyneel L. et al.⁶ & Hanrahan NP et al.⁷ Neff DF et al.¹⁸ agree in affirming that achieving greater training, retention and maintenance of an adequate number of nursing staff for to confront better than the health level of the population in general. The difference in Colombia care is provided by the auxiliary staff with less training, have a high turnover of staff and flexibility in the type of contract makes more problematic the situation to achieve the ideal care while focusing on necessitates the patient and their families. In the study, the ideal time is doubled for the nursing professional, today in the Health Services Enabling Resolution 2003 of 2014,¹⁷ there is no national standard for the number of nurses ; auxiliary, professional and/or specialist per patient . What it leaves to the free interpretation of public and private employers.

Rothenberg MB, et al.¹⁸ corroborate how a cost-effective safety intervention is related by the proportion of nurse-patient staff, analyze the institutional profitability by comparing the proportions of nurse-patient from 8: 1 to 4: 1, the ratio being eight patients per nurse. Less expensive, but with the patient’s mortality higher. The authors conclude that a patient safety intervention, has to do with patient to nurse ratios of 4: 1 it is reasonably profitable and more accepted. The construction of instruments that allow to know the nursing activities and the time required, are important but authors such as agree that these only reach to capture 40% of nursing work given its complexity and diversity in the context where it is provided ; Therefore , from the Nursing Care Process, the real time for care can be visualized, which, added to the inventory of time to carry out actions supporting care, education, research and management, can lead to standards where the time required to perform all the functions required by professional work is determined. Thorsell et al.¹⁹ an analysis of Time In Care Needs (TIC-n) determines that dependency care to support the functions of everyday life, by decreasing the capacity of mobility and activity in older adults, makes it requires a longer time The actions of care to deal with the company, communication and other forms of assistance and support are not, visible and today require systematization.

On the other hand and added to the one exposed, it is good to hear the voice of the International Council of Nurses ICN²⁰ in two senses, clarifies in the first place that the experiences show that greater training of nursing staff results in better results associated with the quality of health services in general and the satisfaction of patients and their families with care. And as a second, the ICN²⁰ he states that there are demands from nurses who have been considered responsible for providing care. The issue of responsibility focuses on aspects of care that encompass the person and the team. Therefore, whatever the situation (that is, the context in which the errors occur), the nurse is responsible. Thus, reliable staffing is a critical element for nurses because it influences their ability to provide appropriate care. Responsibility increases in clinical contexts in which infrastructure and personnel are inadequate. Jaramillo M²¹ he says “in the System Colombiano of Health professionals, particularly nurses construct and reconstruct their values, principles and meanings, amid an uncertain and unstable context, where the accompaniment and address of the state bodies is focused more on the formulation of regulations and the control of resources that in job stability, training and hiring to establish safe and healthy working conditions”. Even more, Alcaraz LG et al.¹² reinforce. With regard to what nurses do in adult hospital wards, they point out three problems: the first has to do with training ; the second is the lack of knowledge of administrators, auditors and managers of health companies, about the purpose of nursing, its implications for well-being and life, and hospital costs, privileging the work of the nurse in the role of administrator of health rooms or services and the co adjuvant of other institutional administrative processes; and the third is the lack of a well-paid job offer. From the everyday, care is given in the midst of contrasts and contradictions; On the one hand, there are certainties in the face of the pressing need that a reliable nursing staff is a condition to save lives and guarantee the quality of care in health services; on the other hand, nursing work is not visible and hidden in both are assigned multiple functions from the administrative as well as secretarial, maintenance and billing actions that displace the real care essence of the profession. Therefore, among other arguments can be concluded, it is mandatory to recover the time for care and to perform all the functions that must fulfill the nursing staff in order to offer a quality and safe care as provided by the Patient Safety Policy in Colombia affirmation that deserves to join the voices of the nursing staff, of the caregivers, their families, the associations, the academy, in shouts that are raised before the health management bodies. And as a closure, the ICN²⁰ guidelines are accepted for the year 2014 where he reiterates²² greater well-trained human resources of nursing + good work environment = quality health care. This simple equation, based on evidence, if applied globally or locally in
the health system, is fundamental to understanding how to make the most of this vital resource that is nursing.”

While the method allows us to have an approach from the subject of careful implementation of the SAP, identified the limitation related to the determination of time and the care support actions and those carried out for the funcionamiento service as meetings, participation in various committees and projects laboration of management team and nursing education to internal and external customers, research, among others. For future studies is recommended that experience should be systematic daily and for a prudent period to ensure take possible changes that may occur over time, in terms of type of subjects care, their needs, their expectations and the requirements for the management of the service and the institution, and the demands of context from the political, economic, social and environmental, in its dynamic and historical dimension that affects the provision of nursing human talent. It is expected that at the end of a period, a year, for example, with the wealth of data obtained, regularities and precisions can be concluded in order to establish standards for care from the average time required for nursing, by category of personnel, to perform all the care interventions. While studies are inconclusive, but of value to show a reality that requires more hours spied research to perform all the care interventions. Studies to determine the times required nursing, permit evaluate the care process and establish improvement placement towards quality, also from the theoretical knew rare can look and recovering interventionist actions I care as a construction with the other and for the other it is intentional and contextualized.

Acknowledgments
None.

Conflict of interest
The author declares that there is no conflict of interest.

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Citation: Cataño AMP, Noreña DLG. Time required for caring: an experience from the Nursing process. Nurse Care Open Acces. 2018;5(4):258–263.
DOI: 10.15406/ncoaj.2018.05.00157