



## Research/Technical Note

# Factors Affecting Implementation of Nursing Process Among Nurses Working in Governmental Hospitals, Oromia Region, Ethiopia, 2016: Cross Sectional Study

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**Abstract:** *Background:* Nursing process used in clinical practice worldwide to deliver quality individualized care to patients and lack of its application can reduce the quality of care. Nursing Process is a systematic problem-solving approach used to identify, prevent and treat actual or potential health problems and promote wellness. It has five steps- assessment, diagnosis, planning, implementation, and evaluation. Applying nursing process requires understanding of factors affecting its implementation from the perspective of nurses. Nursing process implementation could be highly influenced by different factors that can lead to poor quality of nursing care, disorganization of the service, conflicting roles, medication error, poor diseases prognosis, readmission, dissatisfaction with the care provided, and increased mortality. These problems are manageable if a nurse can properly implement nursing process. *Objective:* The main aim of this study was to assess factors affecting implementation of nursing process among nurses in governmental hospitals of Arsi Zone. *Materials and Methods:* A cross-sectional study was used to conduct on governmental hospitals in Arsi Zone from December- June 2016. Both quantitative and qualitative methods were used. All governmental hospitals in Arsi Zone was used since they were convenient for the study. Numbers of the participants were small, so all those who full fill inclusion criteria were participant in the study. Tools were given to nurse out of the study to check for its validity and adjustment was made according to the feedback obtained before actual data collection. Data was collected using self-administered questionnaire and in-depth interview. Data was analyzed using SPSS 21.0 version. *Result:* Findings revealed that organizational factors have the highest predictive value in the use of nursing process, followed by practice related factors. *Conclusion and Recommendation:* The result concluded that the organizational factors have the most important influence on the use of nursing process. It is recommended that the organization should fulfill needed materials which are necessary to provide nursing care. This will enhance nurses' ability to use nursing process to improve the quality of patient's care.

**Keywords:** Nursing Process, Nurses, Factors

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## 1. Introduction

Nursing process is one of the standardized nursing cares in which professional nurses are accountable and responsible. If professional nurses implement nursing process in standardized way, quality of nursing will be increased.

The nursing process is an organized and systematic process

of giving goal oriented and humanistic nursing care that is both effective and efficient.

It is consisting of five sequential and interrelated steps- Assessment, Diagnosis, Planning, Implementation, and Evaluation. Nursing Process is based on the assumption that professional nursing practice is interpersonal in nature. [1]

The nursing process is based on a nursing theory developed by Ida Jean Orlando. She developed this theory in the late

1950's as she observed nurses in action. All nursing personnel take part in the nursing process. The RN has the primary responsibility however. [2]

Implementation of the nursing process as identified in this Nursing Standard should allow for the delivery of quality nursing care within a systematic, goal-directed framework and a reasonable assurance that the individual's course along the health/illness continuum is predictable and progressive. [3] By providing quality care, safe and free of risk, it is understood that nurses make a nursing diagnosis assessment, elaborate the clinical evolution in every work shift, provide complex care demanding specific skills and knowledge, and manage technological equipment. [4]

The nurse practitioner's role involves responsibility for meeting the health care and nursing needs of individual patients, their families and significant others. This dominant role of nurses could be achieved by the proper application of the nursing process. [5]

Effective implementation of the nursing process leads to improved quality of care and stimulates the construction of theoretical and scientific knowledge based on the best clinical practice. [6] So this study attempts to find out factors that affect the implementation of the nursing process.

## 2. Methods and Materials

Health Institution based quantitative and qualitative study was conducted in three governmental hospitals of Arsi Zone Oromia reign from December to June 2016. A total of 111 BSc nurses were included in the study.

To select study participants', for quantitative study all BSc nurses in Arsi zone hospitals that were going to be included in the study was taken from the respective coordinator of nursing unit and head nurse. Data was collected from all who were fulfilling the inclusion criteria. Purposive sampling method was used for qualitative method.

For data collection structured questionnaire was used. Data was collected by self-administered questionnaire. Before the actual data collection, data collectors had two days training about the aim of the study and the content of the instrument.

There are two types of questionnaire for quantitative and qualitative. For quantitative method of data collection structured questionnaire was used. It includes five main parts about nurses 'socio demographics, organizational, knowledge of nursing process, attitude and skill of nurses. For qualitative aspect of the study, open-ended questions were prepared to guide an in-depth interview.

The questionnaire was pre tested for the relevance of dependent and independent variables to avoid any confusion during actual data collection period. The principal investigator was checked 5 (5%) nurses' response one week prior to the actual data collection period in Adama Medical college hospital, Adma.

Correlation analysis was used to see the association of independent with the dependent variable. Finally, the results were interpreted as statistically significant association if  $p < 0.05$  and 95% of CI, and some of the results was compared

with results of other studies available. Data from an in-depth interview was transcribed by arranging the record according to forwarded questions.

Letter of ethical clearance was obtained before the beginning of data collection from Arsi University College of health sciences research Publication office (RPO). Permission letter was provided to selected hospitals for proceeding data collection.

## 3. Results

### *Socio-demographic Characteristics of the Study Population*

Out of 82 sampled respondents were participate in the quantitative study during the study period a total of 43 (52.4%) were females and 39 (47.6%) were males. Fortify five (54.9%) of the respondents were in the age range from 25-29 years, 13 (42.2%) were in 20-24 years, 10 (12.2%) were 30-34 years and 6 (7.3%) were 35-39 years. Regarding Work experience twenty-seven (32.9%) of respondents had 5-9 years of work experience. (Table 1)

**Table 1.** Socio demographic characteristics of BSc nurses in governmental hospitals of Arsi Zone, Ethiopia, 2016.

Variables	Frequency	Percentage	
Sex	Female	43	52.4
	Male	39	47.6
	Total	82	100.0
Age	<20	1	1.2
	20-24	13	15.9
	25-29	45	54.9
	30-34	10	12.2
	35-39	6	7.3
	40-44	4	4.9
	45-49	2	2.4
	≥50	1	1.2
	Total	82	100.0
Work experience	< 1 year	19	23.2
	1 - 4 years	19	23.2
	5 - 9 year	27	32.9
	10 years and above	17	20.7
	Total	82	100.0
Institution /organization graduate from	Governmental	69	84.1
	NGO/Private	13	15.9
Current job title/ position	Total	82	100.0
	Head nurse	18	22.0
	Staff nurse	64	78.0
Department/ units giving service	Total	82	100.0
	Medical Ward	8	9.8
	Surgical Ward	16	19.5
	Gynaecology Ward	7	8.5
	Paediatrics Ward	13	15.9
	OPD/Emergency	20	24.4
	OPD	18	22.0
	Others	18	22.0
Total	82	100.0	

According to the current study, 56 (68.3%) of respondents were implemented nursing process in their hospital. Among the respondent, 47 (57.3%) of them known as there were

support from administration to implementation of nursing process and regarding the resource for implementation of nursing process 50 (61.0%) were not adequate. According to respondents nurse patient ratio 41 (50.0%) and time allocation 40 (48.8%) to implement the nursing process was not matches. Regarding appreciating feedback available 42 (51.2%) for the nursing process implementation was low. Sixty nine (84.1%) were working over time with low payment 54 (65.9%). (See table 2 below).

**Table 2.** Percentage distribution of organizational related factors affecting implementation of nursing process among nurses in governmental hospital of Arsi Zone, Ethiopia, 2016.

Variables		Numbers	Percentage
Hospital implement nursing process	Yes	56	68.3
	No	21	25.6
	I do not know	5	6.1
Administration support the implementation of nursing process	Yes	47	57.3
	No	21	25.6
	I do not know	14	17.1
Resource for implementation of nursing process adequate	Yes	22	26.8
	No	50	61.0
	I do not know	10	12.2
Nurse patient ratio optimal to implement the nursing process	Yes	34	41.5
	No	41	50.0
	I do not know	7	8.5
Allocated time sufficient to apply the nursing process	Yes	37	45.1
	No	40	48.8
	I do not know	5	6.1
Appreciating feedback available for the nursing process implementation	Yes	30	36.6
	No	42	51.2
	I do not know	10	12.2
worked over time	Yes	69	84.1
	No	13	15.9
	I do not know	7	8.5
Over time is with payment	Yes	54	65.9
	No	15	18.3
	I do not know	7	8.5
The payment enough	Yes	15	18.3
	No	54	65.9
	I do not know	7	8.5
The salary adequate	Yes	12	14.6
	No	70	85.4
	I do not know	7	8.5
School practice the implementation of nursing process	Yes	24	29.3
	No	51	62.2
	I do not know	7	8.5
Instructors practice the implementation nursing process	Yes	36	43.9
	No	39	47.6
	I do not know	7	8.5
Job training on nursing process	Yes	26	31.7
	No	56	68.3
	I do not know	7	8.5

Regarding the knowledge assessment of nurses few of respondents 16 (19.5%) have answered the correct for nursing theorists who was developed nursing process and majority of them 66 (80.5%) have wrongly answered. Sixty one (74.4%) have answered correctly what the nurse should do one at the first step of nursing process and the rest of them 21 (25.6%) have wrongly answered. More than half of respondents 41 (50%) answered human response towards physiological disturbance is the focus of Gordon approach which is the correct answer whereas the remaining 41 (50%) have wrongly answered. Fifty six 56 (68.3%) of respondents have correctly answered as nursing diagnosis for a problem to be manifested in the future is potential nursing diagnosis while the remaining 26 (31.7%) have wrongly answered. Fifty one (62.2%)

respondents have chosen the correct answer that the major difference between nursing diagnosis and medical diagnosis is the focus of nursing diagnosis towards human response than the disease process while 31 (37.8%) of them answered wrongly. Twenty one (25.6%) of respondents have chosen the correct answer that was, data base of the patient could not be recorded in the planning phase of nursing process where as the remaining 61 (74.4%) of respondents have wrongly answered. Forty three 43 (52.4%) of respondents correctly answered that implementing the proposed interventions in the planning phase is the expected activity to be performed in the implementation phase of nursing process and 39 (47.6%) have wrongly answered. (Table 3).

**Table 3.** Percentage distribution of nurses' knowledge about nursing process among nurses in governmental hospitals of Arsi Zone, Ethiopia, 2016.

Knowledge area	Correct Answer No (%)	Incorrect Answer No (%)
The nursing theorists who was developed nursing process	16 (19.5%)	66 (80.5%)
A nurse should do one at the first step of nursing process	61 (74.4%)	21 (25.6%)
The Gordon approach is directly targeted	41 (50.0%)	41 (50.0%)
Nursing diagnosis is better to solve a patient's problem with diabetes mellitus chronic complication in the future	56 (68.3%)	26 (31.7%)
Nursing process different from medical approach	51 (62.2%)	31 (37.8%)
One is not included under activities to be performed in planning phase of nursing process	21 (25.6%)	61 (74.4%)
In implementation step of nursing process a nurse is expected to perform	43 (52.4%)	39 (47.6%)
One could not be a guide for evaluation of nurse's performance in nursing process	38 (46.3%)	44 (53.7%)
Identify the problem, etiology and sign/symptom	59 (72.0%)	23 (28.0%)
Steps of nursing process in order.	68 (82.9%)	14 (17.1%)

As it is shown in the table below 16 (19.5%) of respondents were highly knowledgeable and 39 (47.6%) were moderately knowledgeable while 27 (32.9%) had poor knowledge.

**Table 4.** Percentage distribution on level of knowledge among nurses working in governmental hospitals of Arsi zone, Ethiopia, 2016.

Level of knowledge of respondents	Frequency	Percentage
Highly Knowledgeable	16	19.5
Moderately Knowledgeable	39	47.6
Low Knowledgeable	27	32.9
Total	82	100.

Thirty five (42.7%) of the respondents agreed and 22 (26.8%) strongly agreed while few of them 10 (12.2%) were disagree that the nursing process works well in practice. Twenty nine (35.4%) of the respondents agreed and 16 (19.5%) strongly agreed as nursing process can be used in any settings. Around 30 (36.6%) of the respondents agreed and 22 (26.8%) where disagree as there is no enough time to apply nursing

process during pt care. Around 21 (25.6%) of the respondents have no willingness to apply the nursing process” (Table 5) agreed and 19 (23.2%) disagreed to the statement “nurse staffs

**Table 5.** Percentage distribution of application of Attitude among nurses on caring patients in governmental hospitals of Arsi Zone, Ethiopia, 2016.

Attitude area	Strongly agree No (%)	Agree No (%)	Disagree No (%)	Strongly disagree No (%)	I don't know No (%)
The nursing process works well in practice	22 (26.8%)	35 (42.7%)	10 (12.2%)	5 (6.1%)	10 (12.2%)
The nursing process can be used in any settings	16 (19.5%)	29 (35.4%)	12 (14.6%)	12 (14.6%)	13 (15.9%)
There is no enough time to apply Nursing process during pt care	19 (23.2%)	23 (28.0%)	22 (26.8%)	11 (13.4%)	7 (8.5%)
The Nursing process simplifies the awareness of needs	25 (30.5%)	30 (36.6%)	11 (13.4%)	4 (4.9%)	12 (14.6%)
I'm ready for the implementation of nursing process	32 (39.0%)	23 (28.0%)	7 (8.5%)	7 (8.5%)	13 (15.9%)
Nursing process enables to provide quality nursing care to pts	38 (46.3%)	18 (22.0%)	10 (12.2%)	7 (8.5%)	9 (11.0%)
I'm willing implement nursing process during pt care	24 (29.3%)	34 (41.5%)	9 (11.0%)	3 (3.7%)	12 (14.6%)
Nursing process is a waste of time	12 (14.6%)	12 (14.6%)	19 (23.2%)	32 (39.0%)	7 (8.5%)
I'm fed up with hearing about the nursing process	14 (17.1%)	24 (29.3%)	14 (17.1%)	25 (30.5%)	5 (6.1%)
The nursing process involves too much of paper work	15 (18.3%)	24 (29.3%)	22 (26.8%)	11 (13.4%)	10 (12.2%)
I think introduction of NP will cause a problem	10 (12.2%)	17 (20.7%)	29 (35.4%)	20 (24.4%)	6 (7.3%)
I think the nursing staff have no willingness implement to nursing process	14 (17.1%)	21 (25.6%)	19 (23.2%)	18 (22.0%)	10 (12.2%)
I think the staff will never accept the nursing process	13 (15.9%)	10 (12.2%)	21 (25.6%)	24 (29.3%)	14 (17.1%)

Regarding the ability to follow the steps of nursing process during provision of care (as shown in table 6) thirty seven (45.1%) of the respondents were use always while 23 (28.0%) used sometime. Fifty (61.0%) always ability to developed nursing diagnosis from assessment while 22 (26.8%) able develop sometime. fifty (69.5%) always able to safely

administer medicine and other therapies. Forty nine (59.8%) respondents have practiced always the principles of health and safety, including moving and handling, infection control; essential first aid and emergency first aid and emergency procedures very much where as 19 (23.2%) were practiced it Sometimes.

**Table 6.** Percentage distribution of application of Practices among nurses on caring patients in governmental hospitals of Arsi Zone, Ethiopia, 2016.

Practices area	Not at all No (%)	Sometimes No (%)	Undecided No (%)	Always No (%)
Ability to follow the steps of nursing process during provision of care	14 (17.1%)	23 (28.0%)	8 (9.8%)	37 (45.1%)
Ability to developed nursing diagnosis from your assessment	3 (3.7%)	22 (26.8%)	7 (8.5%)	50 (61.0%)
Ability to arranged in order of priority of problem statements	5 (6.1%)	27 (32.9%)	7 (8.5%)	43 (52.4%)
Identified and documented nursing interventions in the care plan	8 (9.8%)	17 (20.7%)	14 (17.1%)	43 (52.4%)
Maintenance of patient dignity, privacy and confidentiality	8 (9.8%)	24 (29.3%)	6 (7.3%)	44 (53.7%)
Ability to practice principles of health and safety	3 (3.7%)	19 (23.2%)	11 (13.4%)	49 (59.8%)
Safely administer medicine and other therapies	6 (7.3%)	17 (20.7%)	2 (2.4%)	57 (69.5%)
Objective measures of patient progress towards the identified goals	6 (7.3%)	21 (25.6%)	18 (22.0%)	37 (45.1%)
The care plans used both day and night as a basis for giving care	7 (8.5%)	25 (30.5%)	11 (13.4%)	39 (47.6%)
The evaluation recorded in the care plans or progress notes	9 (11.0%)	15 (18.3%)	11 (13.4%)	47 (57.3%)

Association of implementation of nursing process Regarding association of implementation of nursing process with selected variables with correlation analyses as shown in table 7 there is no association with socio-demographic characteristics. There is association of implementation of nursing process with some of the organizational factors. Hospital administration support has correlation, for implementation of nursing process (r=. 494\*\*,.000 Correlation is significant at the 0.01 level (2-tailed)). Nurse patient ratio has association (r=.366\*\*;.001; Correlation is

significant at the 0.01 level (2-tailed).) Time sufficient, feedback available, adequacy of school practice and adequacy of training from instructor was significantly associated with implementation of nursing process r=.378\*\*,. 236\*,. 236\*,. 227\*,. 354\*\*) respectively. (Table 7) Regarding association of implementation of nursing process with factors related to knowledge and attitude; there is no association. But one of the practice related factor; the ability to follow the steps of nursing process has an association with implementation of nursing process. (r=.047).

**Table 7.** Association of implementation of nursing process by selected variables among nurses working in selected governmental hospitals of Arsi Zone, Ethiopia, 2016.

VARIABLES	IMPLEMENT NURSING PROCESS		
	Pearson Correlation	Sig. (2-tailed)	Level of significant
<b>SOCIO-DEMOGRAPHIC</b>			
Sex	.010	.926	
Age	-.195	.079	
Work experience	-.113	.312	
Institution from gradated	.061	.588	
<b>ORGANIZATIONAL FACTORS</b>			
Support from administration	.494**	.000	** . Correlation is significant at the 0.01 level (2-tailed).

VARIABLES	IMPLEMENT NURSING PROCESS		
	Pearson Correlation	Sig. (2-tailed)	Level of significant
<b>SOCIO-DEMOGRAPHIC</b>			
Allocation of resource	.018	.872	
Nurse patient ratio	.366**	.001	** Correlation is significant at the 0.01 level (2-tailed).
Time sufficient	.378**	.000	** Correlation is significant at the 0.01 level (2-tailed).
Feedback available	.236*	.033	* Correlation is significant at the 0.05 level (2-tailed).
Salary adequate	-.084	.450	
Adequacy of School practice	.227*	.041	* Correlation is significant at the 0.05 level (2-tailed).
Adequacy training from instructor	.354**	.001	** Correlation is significant at the 0.01 level (2-tailed).
Job training	.212	.056	
<b>KNOWLEDGE FACTORS</b>			
Level of knowledge	.110	.324	
<b>ATTITUDE FACTORS</b>			
Works well in practice	.055	.625	
Enables to provide quality nursing care	-.073	.515	
Nursing process is a waste of time	-.010	.926	
Never accept the nursing process	-.048	.670	
<b>SKILL FACTORS</b>			
Ability to follow the steps of NP	-.220*	.047	* Correlation is significant at the 0.05 level (2-tailed).
Ability to developed nursing diagnosis	-.195	.079	

The data collected from interviewees was summarized thematically by identifying the core ideas they have responded. The whole information is summarized into three themes.

#### Organizational Factors

Most of interviewees have described that hospital's environment was not suitable for implementation of nursing process. Hospitals were not able to afford supplies needed for caring. For example, nursing process formats were not available. The available format was not the correct format to register all the components of nursing process. Low nurse to patient ratio was the other problem that participants were described. Nurses were obligated to care for many patients beyond their capacity. In the contrary they were not obligated to record their activities in a formal way. Simply they were allowed to perform their activities following the instruction of physicians. Higher officials were not informed the role of nurses and the benefit of nursing process on the patients 'outcome. They were only working for the successful accomplishment of medical services leaving nursing services apart. Low salary and duty payments created negligence among most of nurse to enforce nursing process. Knowledge

Most of the respondents agreed that knowledge is a determinant factor that could influence implementation of nursing process. Some respondents believed that nurses have obtained adequate amount of knowledge for caring their patients. But as nurses stayed for long time without implementing nursing process their knowledge might be depreciated.

#### Attitude and skills

Most of the respondents described that nurses were not committed to implement nursing process. There were several reasons that make nurses to become negligent about their responsibility. The first reason was their experience. From their experience they were recording their activities and fighting for the betterment of nursing but nothing was changed rather the value of nursing was declining. The second reason was absence of recognition for the highly devoted nurses. They were advocating for the patient from the beginning

history of nursing in Ethiopia yet they were not considered as they could contribute anything for the health of the country. The third reason was poor payment.

The nursing process is a widely accepted method and has been suggested as a scientific method to guide procedures and qualify nursing care. In Ethiopia, quality of health care was poor and to improve the quality of health service, application of nursing process may contribute a lot. [9] Regarding resources related factors, this study revealed that 50 (61.0%) of nurses agreed upon several resources' barriers, which included inadequate staff in the unit, lack of specified nursing care document and education budget, insufficient equipment and absence of supplies and materials. These results were in line with the previous studies. Another most challenging factor was nurses to patient's ratio in which one nurse giving care for more patients in their hospital. Half 41 (50%) of the respondent said that the nurse to patient ratio was not optimal to apply the nursing process; whereas only 37 (45.1) said that the allocated time was sufficient. There is lack of time to apply the nursing process. Forty 40 (48.8%) of the respondents believes that as there is shortage of time to implement nursing process.

Forty two (51%) of the respondents said that there is no available appreciating feedback for the nursing process implementation. Majority of the nurses 69 (84.1%) worked over time with payment 54 (65.9%) which was not enough payment 54 (65.9%). This is with lower than research conducted in Addis Abeba city hospitals which is Only 9 (5.7%) of the respondents were satisfied with the over time payment where as 148 (94.3%) were not satisfied with the payment. [7]

Sixteen 16 (19.5%) of respondents were highly knowledgeable and 39 (47.6%) were moderately knowledgeable while 27 (32.9%) had not knowledgeable. These results were almost in line with study conducted at College of Medicine and Health Sciences, Arbaminch University, Arbaminch, Ethiopia in which 23.34% of respondents were highly knowledgeable and 44.9% were moderately knowledgeable while 31.63% had not

knowledgeable. [5] According to both the qualitative and quantitative findings nurses of the study sites have positive attitude towards the nursing process. A survey on the attitudes of nurses toward the nursing record revealed that Nursing process enables to provide quality nursing care to pts. Thirty seven (45.1%) of respondents reported that they followed the nursing process in the provision of care to their clients. This is lower than research conducted in Bale zone hospitals which was 52.1% of respondents reported that they followed the nursing process in the provision of care to their clients. (15) Fifty seven (69.5%) respondents were safely administer medicine and other therapies very much but 6 (7.3%) were not at all administered. This is somewhat similar with research conducted in Addis Abeba which was 57.8% respondents were safely administer medicine and other therapies very much but 1.6%) were not at all administered. [7]

This study showed that organizational factor influence the implementation of nursing process more than other variables. One of the biggest problems currently facing the nursing profession is that of implementing the nursing process was lack of equipment's, formats for formulating nursing care plan and lack of administration supports were identified. Practice factor ranks the second highest predictive value in the use of nursing process but currently, many institutions do not use nursing process for the care of their clients. Lack of application of the nursing process as a standard of care can reduce job satisfaction, incorrect evaluation, reduction in the quality of care, neglecting of some of the authorities to this field, devaluation of this profession by nurses themselves and their excessive dependency to the physicians, indisputable obedience, doing routine activities without thinking, conducting one dimensional care, reduce in patients independence and costing heavy expenses due to doing repeated acts.

It is well known that nursing process implementation is very essential to maintain nursing as profession. The following measures should be taken to minimize the burdensome of factors affecting implementation of nursing process. In order to achieve quality health care service, quality nursing care is the key element and to fill this demand application of the nursing process have a significant role, but in practice application of the nursing process is not well developed. Based on these facts the principal investigator would like to give the following recommendations:

1. Hospitals should provide the appropriate supply of instruments for nursing care.
2. Hospital managements including the medical directors should be enlightened on the benefits of the process in terms of patients' outcome. This will enhance regular supply of the needed materials for the practice of the nursing process and motivate the staff nurses.
3. Hospital officials should get the right information about nursing.
4. Health facilities must provide in-service education or periodical training to update the knowledge of nursing

process.

5. There should be regular supervision of nurses by head nurse / matron
6. Change the training/practice system to make nursing a well recognized profession by the society and professionals themselves.

## List of Abbreviations

BSC: Bachelor of Science  
 NANDA: North America Nursing Diagnosis Association  
 NP: Nursing Process  
 OPD: Outpatient department  
 RN: Registered Nurses  
 SPSS: Statistical Package for Social Science

## Conflict of Interests

The authors declare that there is no conflict of interests regarding the publication of this paper.

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