SUPPORTING FACTORS OF THE IMPLEMENTATION OF CLINICAL PATHWAY APPROACH IN NURSING CARE

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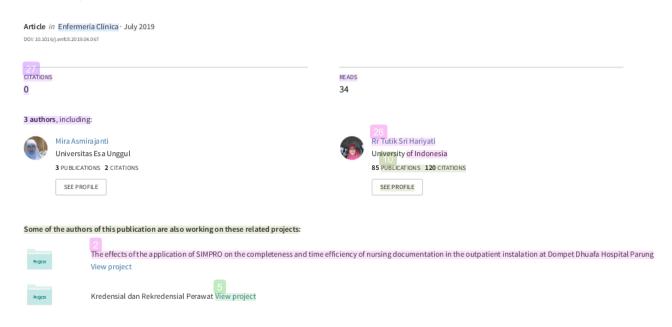
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Supporting factors of the implementation of clinical pathway approach in nursing care



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Abstract

Objective: Clinical pathways serve as the structured, standardized approach of the multidisciplinary health care planning to support the care implementation to achieve good patient outcome. This study aimed to identify the supporting factors and the nurses' expectation of the implementation of clinical pathway in nursing care at the hospital.

Methods: A quantitative, cross-sectional, descriptive study was conducted at a medical-surgical unit of a hospital in Jakarta Indonesia. Participants were 100 nurses with minimal one year work experience, selected using proportional purposive sampling method. Data were collected using questionnaire and were analyzed descriptively.

Results: The supporting factors of clinical pathway implementation in nursing care nursing consisted of nursing care management, human resource management, reward system management, equipment management, and information system management. The nursing care management factor was found to be of highest performance (90%), while the rest showed inadequate performances (24%, 14%, 39%, and 41%, respectively). Meanwhile, nurses expected to have improved nursing care information system (50%) and reward system (60%) to support the clinical pathway in nursing care.

Conclusions: Most supporting factors of the implementation of clinical pathway in nursing care were still suboptimal. Nurses' expectations on this issue also indicate the room for improvement. The clinical pathway can be implemented in nursing care by the support of the competent nurses, nursing care standard, fair reward system, adequate information system and equipment.

Key words

Supporting factors, Nursing care, Nurses' expectation, Clinical pathway

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Introduction Nurses at the hospital are on the front line of the health care service; therefore, hold the key role to provide excellent care. (1). A well-planned and systematically delivered nursing care throughout the care trajectory contributes to the patient outcomes. Nurses provide nursing care starting at the patient's admission to the ward to discharge. The process includes performing assessment, determining the nursing diagnosis, creating the nursing care plan, performing the intervention followed by the evaluation (2). This iterative process involves clinical decision making based on the responses of the patients/clients to their actual or

Nursing care should meet the standard which can be measured in a recommended timeframe (4). Clinical pathways serve as the structured, standardized approach of the multidisciplinary health care planning to support the care implementation to achieve good patient outcome (5). The clinical pathway can help increase the quality and timeliness of the nursing care for patients with specific diagnoses (6). It can also reduce neglect and redundant intervention, as well as maximizing the effectiveness and efficiency of the nursing care (6).

potential health problems (3).

A good quality nursing care require good management and well-motivated nurses to carry out the plan. Nurses need a clear and adequate policy with regards to the nursing care management (7). Apart from the policy and regulation, nurses' performance is also highly determined by their motivation (8). A study conducted at the critical care unit of a hospital in Indonesia showed that more than half of the nurses (52.6%) had lower levels of motivation and did not adhere to the nursing care standard operating procedures (57.9%) (9).

Skill and competence of the nurses are also the basic requirement of good quality nursing care to address the needs of the patients (10). A former study result indicated that the nurses' performance is significantly influenced by the nurses' competence (p < 0.001) and motivation (p < 0.001) (11). These two aspects, therefore, need a particular attention from the nursing manager.

Furthermore, nursing care implementation should be supported with relevant equipment. Tools are used to help nurses performing specific tasks or activities (12). An analysis of the influence of the perception of the nursing management factors on the nurses' work satisfaction levels in a hospital in Semarang, Indonesia, revealed that only 35.1% of the health care equipment is up-to-date, 51.3% of the available health care equipment did not meet the service demand, 48.6% of the consumable items were not available while in need, and, nonetheless, 54.1% health care equipment was in good supply (13).

Technology such as health care informatics has also demonstrated its benefits to support nurses in providing nursing care. Prior studies found that the information system can improve the effectiveness and efficiency of the health care service (14). A study on the implementation of the electronic information system in nursing management in Finland suggested that such technology functioned as an important element of all work processes in health care service (15).

Another crucial aspect is relating to the reward system for nurses. A fair reward system for nurses' works should be warranted given the heavy work load and high risk of this profession (16). But in reality, the monetary reward for Indonesian nurses in particular is still considerably low (17).

Literatures have indicated that these aspects contributed to the nursing care in general. However, with regards to the implementation of the clinical pathway in nursing care in an Indonesian hospital setting, little is known about its supporting factors. This study, therefore, aimed to identify the supporting factors and the nurses' expectation of the implementation of

clinical pathway in nursing care at the hospital. **Methods** A quantitative, cross-sectional study was conducted at the medical surgical ward of a central hospital in Jakarta Indonesia. Recruited using the proportional purposive sampling method, a total of 100 nurses who had worked for more or equal to a year participated in the study. Data were collected during November 2016-January 2017 using instruments which have been tested for their validity and reliability. The obtained data were coded and put into the statistical software for the data analysis. Univariate analysis was performed to identify the frequency and proportion of the supporting factors and nurses' expectation of the clinical pathway implementation. This study

obtained an ethical clearance from the Ethical Committee of Faculty of Nursing, Universitas Indonesia.

Results The participants of this study were mostly female nurses (90%). Nearly half of the participants (49%) had worked for 1-5 years, while a slightly lower percentage (46%) had 6-10 work experience as a nurse. Only five percent were senior nurses with 16-20 years of work experience. Regarding educational background, the majority of the participants (92%) had diploma degree. Six participants had bachelor of nursing degree and two participants had bachelor degree majoring other subjects. As the nursing staffs, 77% of the participants were associate nurses while 23% of them were team leaders. The supporting factors and nurses' expectation in the nursing care implantation using clinical pathway approach are presented in table 1 and 2.

	Karakteristik			
Key Performance	No		Yes	
	\sum	%	Σ	%
Manajemen Asuhan Keperawatan	21	21	79	79
Manajemen Sumber Daya	14	14	86	86
Manusia	14	14	00	00
Manajemen Penghargaan	31	31	69	69
Manajemen Peralatan	45	45	55	55
Sistem Informasi	45	45	55	55

Table 1 illustrates the supporting factors of the implementation of clinical pathway approach in nursing care in terms of the human resource management, nursing care management, reward management, equipment management, and information system. The cutoff point was set at 50. The equipment management and information system management came up as the least improved performance indicators (55%).

Clinical pathway can be applied successfully in the nursing care if these key factors support the implementation. Clinical pathway informs the necessities of: (1) human resource to carry out the particular tasks, (2) the materials to provide the care service, (3) the identified intervention, aiming at effective and efficient nursing care service (18).

	Frekwensi			
Key Performance	Low		High	
	\sum	%	Σ	%
Information System in Nursing care	62	62	38	38
Reward System in Nursing Care	61	61	39	39

Nurses in this study had lower levels of expectation towards the usage of clinical pathway approach (table 2). Clinical pathway is also known as the care pathway of the standardized care process. Nurses perform monitoring, assessment, intervention, evaluation, along with support for the patients to achieve the desirable health outcomes (5). Nurses have the right to obtain a fair reward for their professional work (19). On the other hand, nurses are expected to advance their skills including skills in technology to provide a more efficient nursing care. However, technological advances should lay on the holistic and humanist principle of nursing care (20).

Discussion The characteristics of the participants in this study were dominated by female associate nurses with diploma degree and had 1-5 years of work experience. Nurses in this period of nursing career are the direct providers of nursing care and need continuing professional education. In providing nursing care, nurses need motivation, direction, control, and evaluation from the nursing managers to deliver good quality nursing care.

The supporting factors of the nursing care implementation The study findings showed that the supporting factors of the clinical pathway implementation in nursing care are good. Nursing care comprises the interactions between the nurse and the client, as well as the environment, to fulfill the needs of the client and

to improve the client's ability and independence in taking care of him/herself (21). Nursing care can be conducted using the nursing process approach guided by the nursing standard and ethics in the scope of nurses' responsibility (22). The nursing care approach needs effective management to improve the quality of care.

The results of this present study also showed that the supporting factor of the clinical pathway implementation related to the human resource management is yet suboptimal. Nurses working at the hospital work in shifts to provide 24 hour- nursing care for the patients (23). Another prior study mentioned that nurses play a crucial role to deliver the nursing care for the patients. Staff nurses should be managed in the management framework which encompasses organizing, directing, controlling, actuating, development, compensation or reward system, integration, retention, discipline, and suspension (22). Through optimal nursing management, it is expected that the patients can receive optimal nursing care and health care service, and have reduced the length of stay at the hospital.

The reward system as a supporting factor of the implementation of clinical pathway approach in nursing care was also shown to be inadequate in this study. Reward and autonomy were pinpointed as the most important contributors of the nurses' work satisfaction, according to a prior study (24). Work satisfaction is of high importance to drive nurses' enthusiasm, creativity, and motivation to work (25). Good

work satisfaction will improve the performance of nurses and will eventually impact the nursing care, leading to patient satisfaction. Nurses' work satisfaction can also be influenced by the availability of the equipment in the ward (26).

The equipment management was also shown to be less optimal as the supporting factor for the usage of clinical pathway in this study. Another study suggested that equipment supports the implementation of nursing care to maintain patient safety (27). Nurses should keep up with the new equipment with advanced technology for more efficient and effective, including cost-effective, nursing care (28).

With regards to the information system, this study results indicated that this supporting factor need to be improved for a better implementation of clinical pathway. Information system can assist nurses to obtain and manage the information related to the number and condition of the patients, the number of staffs, the occupied rooms, turn-over time, the total cost of patient care, and financial compensation or remuneration of the nurses (29). Health information system is the clinical documentation tool underpinning the development of the independent nursing care plan and pathway for clinical decision making, medication management, patient safety, and effective resource management (27). Nursing managers hold an important role to develop the nursing information system to have an integrated nursing care service and to enhance patient satisfaction and cost-effectiveness of care.

Nurses' expectation The current study findings showed that the nurses' expectation for the nursing information system and reward system were still not optimal since the results were only around the average. A former study mentioned that nurses have an important role in making integrated health care change with the

assumption that all nurse manager create changes in all health care domains (30). The information system is utilized to determine the outcome and to protect the information database of the institution's activities and equipment (31). Nurses as the health care professional who provide nursing care with their unique skills and competences, in reality, are not quite appreciated in the society (10). Therefore, nurses should improve their public image, self-concept and professional identity to increase their roles in the society.

Conclusion The implementation of clinical pathway in nursing care must be supported by competent human resources, fair reward system, and adequate management of equipment and information system. The findings of the present study lead to the conclusion that the nursing care management as one of the supporting factors of the clinical pathway implementation in nursing care has shown positive result, while the other factors supporting (human resource management, reward management, equipment and information system management) still need improvement. Nurses' expectation pertinent to nursing care information system and reward system in using the clinical pathway approach in nursing care is also need to be enhanced.

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