

PROCEEDING

the international conference on
Management of

& Innovation
technology



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Diponegoro University
JI Prof H. Soedharto, SH, Tembalang, Semarang
Phone : +62 24 7460017 fax : +62 24 7460017
email: icmit2010@undip.ac.id and icmit.undip@gmail.com
website : www.icmit2010.undip.ac.id

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Application of Nursing Process Documentation Nursing Information System in accordance with Internet-Based System Design Connection.

Sarah Ulliya, Agus Santoso

School of nursing Diponegoro University, s.ulliya @ undip.ac.id/ riksa03@yahoo.com,
School of nursing Diponegoro University, cakgus2005@yahoo.com

ABSTRACT-- Nursing documentation has a significant meaning from the legal aspects, quality assurance, communications, finance, education, research, and accreditation. So it is needed nursing management system for nursing documentation to make more effective, efficient, and appropriate standards. Nurses require a standard of documentation as a guide and direction to the storage and recording of the correct technique. According to development of Information Technology (IT), the nursing documentation move from traditional method with paper documentation to computerized documentation. School of nursing, Faculty of medicine Diponegoro university as an educational institution try to facilitate students to introduce computer-based nursing documentation, so we must create prototype of nursing documentation information systems through Internet-Based System Connection.

This prototype has been used by nursing students UNDIP to fulfill a subject. Students appreciate the reliability of the program, because it gives simplicity in documenting the clinical course of nursing duties in the form of nursing care with clinic algorithm system. It's just that the program is yet to be developed further, especially to improve the data in the master program. Trials are also still needed in several related hospitals and community health centers that exist so that one day this program could help nurses to make nursing documentation inn clinical setting.

Keywords: nursing documentation, computerized

A. INTRODUCTION

Nursing care is an important part in the implementation of hospital services. One of the nurse responsibilities in the implementation of nursing care is nursing care documentation. Nursing documentation is a confidential document that records all nursing services and client records can be interpreted as a business and legal records have many benefits and usefulness.

Standard terminology documentation nursing includes assessment, diagnosis, planning, implementation, and execution. But in practice the quality of nursing documentation is not in accordance with applicable standards. This was due to a lack of knowledge and perception of the importance of documenting nurses, nurse education levels low, a long time to record the documentation of nursing and the lack of reward to the documentation.

Whereas nursing documentation has significant

meaning when viewed from the legal aspects, quality assurance,

communications, finance, education, research, and accreditation. For that needed nursing management system relating to the documentation of nursing to make it more effective, efficient, and appropriate standards. Nurses require a standard of documentation as a guide and direction to the storage and recording of the correct technique.

Science and technology development in various fields very quickly, especially Information Technology (IT) in which all units of service using a computerized system. Field nursing course must follow the development of science and technology are good in service, education, management, and nursing research

But the phenomenon happening that left care services and developed slowly in the application of Information Technology on aspects of nursing documentation. During these nurses do documentation by recording or writing on the form that has been provided on the patients medical records. Use of the manual documentation system encountered some obstacles include: requiring a long time, lead to different perceptions, inefficient storage, records missing documentation, communication and decision making was not optimal.

As a result of these phenomena, the documentation of nursing are not effective and efficient so it does not fit the standard or it can be said only satisfy the element of quantity rather than quality. In fact the appropriate standard of nursing documentation will support the legal aspects of nursing practice and professionalism. so we need a nursing documentation system are more effective, efficient, and in accordance with the standards based on science and technology development. One solution is to create documentation of nursing with the media or material which is called Information Technology Management Information System for Nursing. Moreover, for the scope Hospital in Central Java were mostly already using Health Information System (medical) and the Administration, but for Nursing Management Information System can only be found in hospitals Banyumas. Though ideally Nursing Management Information System needs to synergistic and integrated with the Health Information System and the Administration on health care at the hospital.

The existence of the Management Information Systems Nursing documentation time can be faster, improve

motivation, do not use a lot of places, and as a practical means of learning for nurses because it can be a role model let alone the level of nurse education vary widely. So the documentation of nursing would be more efficient, effective, and appropriate standards to strengthen the legal aspects of nursing practice.

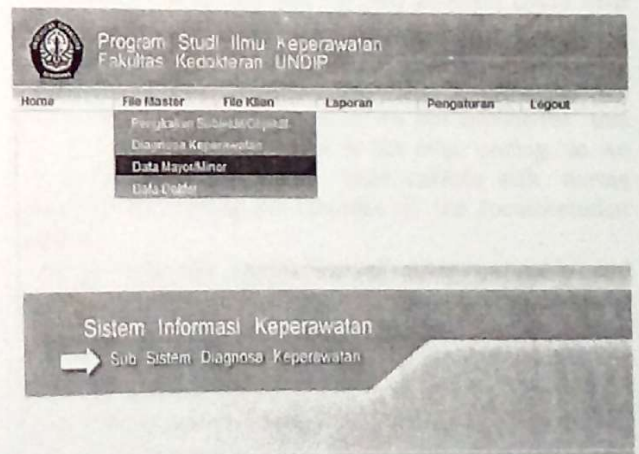
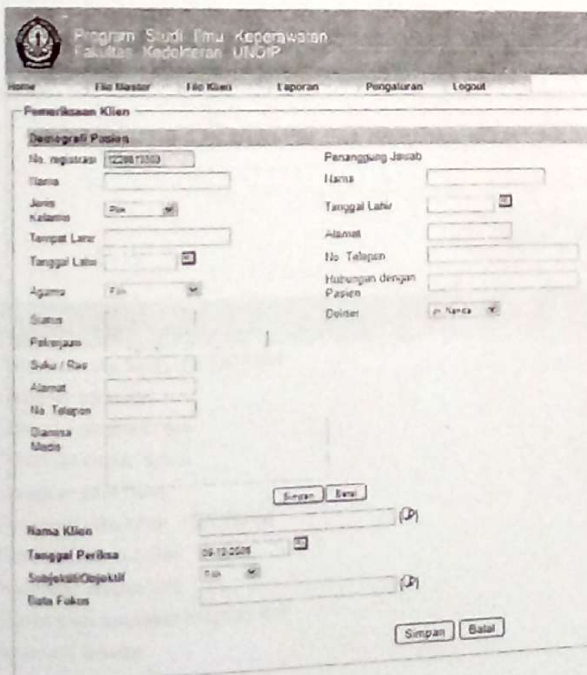
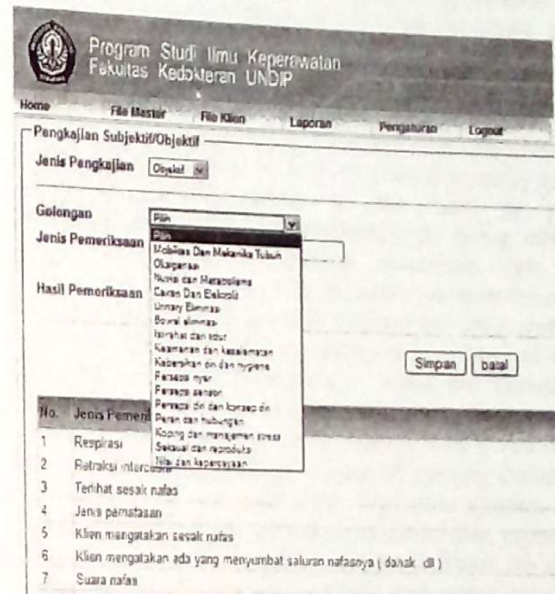
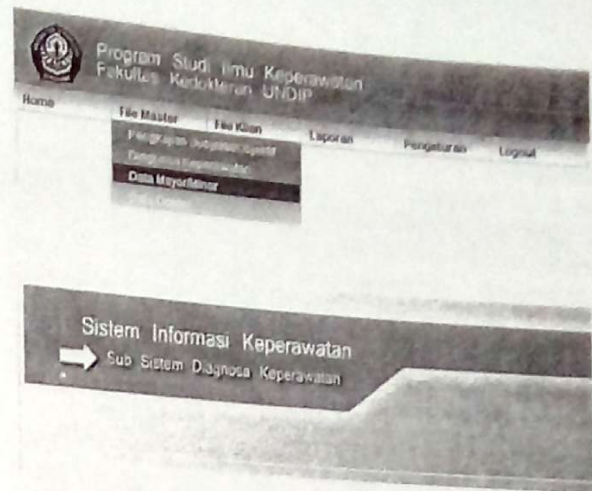
Nursing Management Information System also functions as a support system in nursing management systems, among others: improving communication, supervision, controlling, decision making, regulatory, and management. Quality Assurance can be done and ultimately improved health care, especially nursing can be increased.

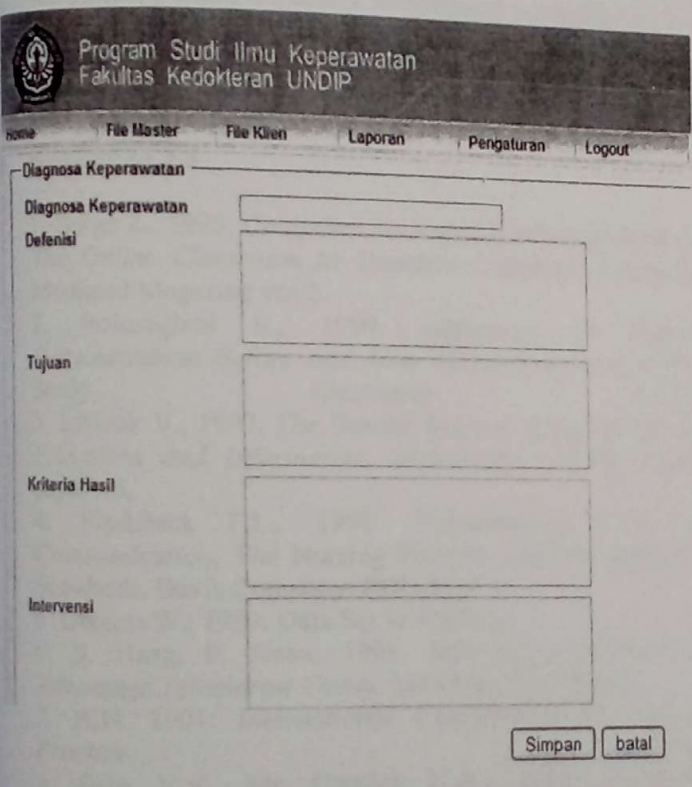
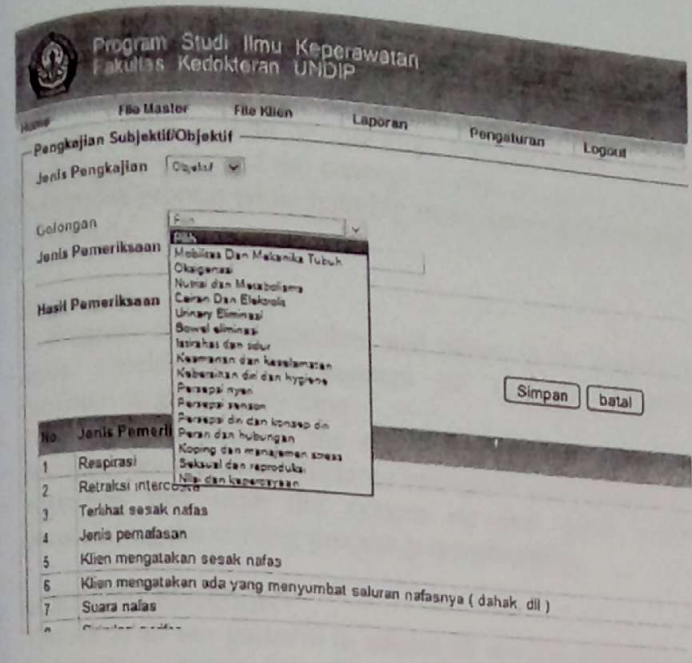
The data contained in the Nursing Management Information System also obtained more quickly, accurately, and specifically making it possible to be subject and the basis for conducting research in the field of treatment for the advancement of science and profession of nursing.

The many benefits that have been presented on nursing documentation based Nursing Management Information System and weaknesses of nursing documentation manually, then we attempt to develop a Nursing Management Information System in the hospital. Program information system development in hospitals are not yet sufficient and become the main requirement for simplicity and learning in documentation of nursing process for the nurses.

B. MATERIALS AND METHODS

Making nursing information system prototype design of technology-based clinical algorithm system internet connection, conducted by a team of nursing UNDIP with a programmer. By using the nursing process of assessment, nursing diagnosis, planning, implementations and evaluation. The process in this prototype use the theory in nursing, example NANDA.





No.	Diagnosa Keperawatan
1	Perubahan suhu tubuh - HIPERTERMII
2	Gangguan pola nafas
3	Gangguan pertukaran gas
4	Penurunan cardiac output
5	Gangguan Jalan Nafas
6	Perubahan suhu tubuh - HIPOTERMII
7	Kelebihan volume cairan
8	Kerusakan integrits kulit
9	Resiko tinggi kerusakan integritas kulit
10	Intoleransi aktivitas

C. RESULTS AND DISCUSSION

Nursing documentation becomes one of the indicators of quality nursing care that supports the quality of health services in hospitals or other health care arrangements. Clinical algorithm system has been designed by a team gives a positive impact on fast service, accurate and reliable. Quality of nursing documentation can be enhanced through computer-based documentation. According to Mahler, C, et al. nursing ward there are two significant developments in the quantity and quality of nursing process documentation, but there is a negative side associated with the content of care plans.

In the past, a paper based documentation often cause complaints from the nurses in the ward. It is causes make a nurse boring when writing all the nursing process for all patients. The nurses needs much time for make client's nursing documentations when caring for clients and quite tiring for the nurses.

The system of nursing clinical algorithms have a significant difference in the efficiency and effectiveness of nursing documentation. The system can also easily enhance interactive communication in the field of nursing organizations quickly and accurately by using additional support such as LAN network computer. Test results showed that system have convinced the nurse in the room to document the nursing process without too long and tiring. From the test result of this prototype in school of nursing Diponegoro University students, when the student learn SIM Nursing courses in the classroom. Many students appreciate the reliability this prototype was given the ease in documenting the clinical course of nursing duties in the form of nursing care with clinic algorithm system. It's just that the program is yet to be developed further, especially to improve the data in the master program. Tests are also still needed in several related hospitals and community health centers that exist so that one day this program could help nursing process documentation activities of nursing and community clinics. Currently the program has been added to the Web site menu www.keperawatan-undip.ac.id. We need to improve this prototype so we can applicative this program for nurses in hospital or the other setting. so we should improve this program must suitable with nurses need in clinical setting and facilities all the documentation function.

Along with the application of entrepreneurship and opportunities for implementation of these programs in several health care arrangements, then we predict that the program will be revised to give a big selling point and as one of the business opportunities in the field of health care systems development services and nursing in hospitals and health institutions other.

D. CONCLUSIONS AND SUGGESTIONS

Conclusion

1. Information system in nursing documentation can facilitate the documentation process for the nurses in the nursing ward.

2. Information system in nursing documentation also allows interactive communication between nurses in the ward with nursing leaders in the field of nursing
3. Information system in nursing documentation allows students to understand the concept of data management and the nursing process while learning basic nursing, clinics and community

Suggestion

1. Program clinical algorithm still needs to be developed again considering the concept of nursing diagnosis continues to grow every time
- To improve fluency in the access program, the need to develop more bandwidth is large enough in each health care institution that uses the system so that when you're documenting the nursing process more smoothly.

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