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#### Abstract

**OBJECTIVE:** The COVID-19 pandemic has greatly affected the health sector, specifically the speed of healthcare services in hospitals, such as nursing care. This was caused by the low ratio between the number of resources available and the number of cases handled, which makes the services suboptimal. One of the solutions to this problem is to implement a digital (mobile) nursing care information system. Therefore, this study aims to produce a digital (mobile) nursing information system model that is suitable for hospitals. **MATERIALS AND METHODS:** The RnD (research and development) method used in this study was carried out in three stages, namely analysis of information system needs, preparation of the model design, and trial of Mobile Nursing Care Plan Information System (MNCNIS). Preparation of the design was carried out with the FAST (Framework for Application of System Technique) approach. A total of 148 nurses were selected as respondents using the simple random sampling method. Data was then collected through interviews, focus group discussions, and questionnaires. Furthermore, MNCNIS was assessed with a system requirements analysis using the PIECES framework (Performance, Information, Economic, Control/Security, Efficiency, and Service). **RESULTS:** The T-test results showed that MNCNIS is more effective and appropriate compared to the conventional (manual) types. This was indicated by all the variables measured in the MNCNIS component, including assessment, nursing diagnosis and evaluation, planning, and implementation. Based on these findings, the model can be developed as a nursing care information system to improve the quality assurance of services rendered by nurses. **CONCLUSIONS:** A mobile plan information system can be implemented in nursing care to ensure satisfaction and quality assurance for services provided in hospitals.

#### Keywords

Nursing Care Plan, Information System, Mobile, Technology, Nursing Service

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