

Abstract 121**Category:** Informatics**TITLE:** Use of electronic and paper-based standardized nursing care plans in a Nigerian teaching hospital.**AUTHORS:** Adereti, C.S., Olaogun, A.A., Olagunju, O.E., Afolabi, E.A., & Ayamolowo, S.J.**Introduction/problem statement:**

Use of electronic nursing documentation and standardized nursing care plans (SNCPs) is new in Nigeria. This study compared the quality of documentation using paper and electronic-based SNCPs in a Nigerian setting.

Methods:

A quasi-experimental pretest-posttest design was adopted. Using a multi-stage sampling, two medical wards were purposely selected into electronic and paper-based groups, respectively. Four hundred and six (406) nursing documents were assessed. The SNCPs were developed using identified nursing diagnosis labels. Nurses were trained to plan and document care using electronic and paper-based SNCPs. Data was collected before, three-, and six-months after intervention using the Quality of Nursing Diagnoses, Interventions, and Outcomes (Q-DIO) instrument, and analyzed with SPSS version 20.

Results and discussion:

Result revealed poor quality documentation of the phases of the nursing process in both wards prior to the intervention (paper, 34.46 ± 14.91 , electronic, 25.15 ± 11.97) with subsequent improvement after intervention. There was a statistically significant difference between the quality of documentation in the two groups at the three time periods (pretest: $p=0.001$, posttest 1: $p=0.001$, posttest 2: $p=0.001$) with higher Q-DIO scores in the electronic group at post intervention. Improvement in paper documentation was not statistically significant ($p=0.0656$). Nurses' readiness and involvement are needed for effective integration of the new innovation.

Impact on the discipline:

This study provided capacity building for nurses on SNLs and SNCPs used for quality documentation, and provided empirical information on electronic and paper SNCPs use in a developing nation, which may guide successful implementation of electronic health records (EHRs) in Nigeria and in sub-Saharan Africa. Adequate training and support for nurses are needed for successful implementation of EHRs.