Discoveries of Distinction

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The Effect of Data-Entry Template Design and Anesthesia Provider Workload on Documentation Accuracy, Documentation Efficiency, and User-Satisfaction

This study used observational data collection and psychometric instruments (for perceived workload and user satisfaction) at three hospitals that each used different methods of data-entry for perioperative documentation (auto-filling with unstructured data, computer-assisted data selection with semi-structured documentation, and paper-based documentation). Documentation quality is important because the information is used to guide clinical decision making and can have an impact on patient safety/outcomes. Nurse anesthetists at each hospital (N=30) were observed completing documentation on routine abdominal surgical cases. Auto-filling with default values that have to be manually corrected had the lowest documentation quality because the default values were often not corrected. Computer-assisted data entry (drop-down boxes, radio buttons, etc.) had the highest documentation quality and efficiency. Paper-based documentation had the highest perceived workload. There was a large effect size correlation (r = .67, P < .001) between perceived workload and the time spent documenting. Using default values or forcing clinicians to document during patient care events resulted in poor documentation quality.

Primary Author Affiliation
The University of Alabama at Birmingham (UAB) School of Nursing, Acute, Chronic & Continuing Care Department, Birmingham, Ala.

Primary Author:
Bryan Anthony Wilbanks, PhD, DNP, CRNA

Coauthors:
Eta Berner, EdD; Gregory Alexander, PhD, RN; Andres Azuero, PhD; Patricia Patrician, PhD, RN, FAAN; and Jacqueline Moss, PhD, RN, FAAN

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