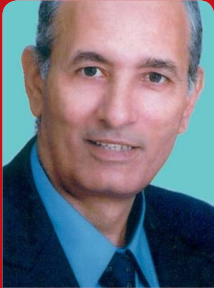


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Nurses' satisfaction with the use of Health Information System (HIS) in a Saudi tertiary care medical center

Introduction: The use of health information system is increasing and there is substantial evidence suggesting that the successful implementation of HIS in hospitals is significantly related to nurse's satisfaction and attitudes. In Saudi Arabia, no such studies according to the author's knowledge have addressed this topic.

Objectives: To describe nurses' attitudes and levels of satisfaction in using the medical center's information system during their clinical practices and to determine the importance HIS satisfaction domains among nurses in a Saudi tertiary care medical center.

Methodology: A cross sectional study on 445 nurses working in a Saudi tertiary care medical center was conducted from February to June 2012. A stratified random sample with proportional allocation was used to select the study sample. A questionnaire was used to collect data about attitudes, levels of satisfaction and perceptions towards hospital information system usage. Descriptive and analytical statistics i.e. t-test or Mann-Whitney test, ANOVA or Kruskal-Wallis, correlation and regression were used in the analysis. P value<0.05 was set as the significant level throughout the study.

Results: The total number of participants was 445 nurses filled the questionnaire. Female nurses significantly had higher mean satisfaction scores than males with respect to the use of HIS which makes them more efficient and effective in their work. In addition, the use of HIS decreases paper work and allow nurses to spend more time with their patients ($p<0.05$). The results also show that staff and charge nurses had the highest scores in their positive attitude than other nurses towards the use of HIS.

Conclusion: The study results may guide the health authorities' of that health center to develop HIS policies suiting the nurses' needs for patients' care.

Biography

Ahmed A Bahnassy is a Professor in Biostatistics in the College of Medicine, King Fahad Medical City. He has a vast experience in both teaching and research. He is teaching biostatistics, research methodology, advanced epidemiology and evidence based medicine. He has more than 150 published manuscripts in journals. He is a Statistical Editor in many journals including WHO.

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