Using Technology to Assist Nurses in Preventing Pressure Ulcers: A Mixed Method Study

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ABSTRACT

Problem/Rationale:

“A number of contributing or confounding factors are also associated with pressure ulcers; the significance of these factors is yet to be elucidated”. (npuap.org 2014). The development of a pressure ulcer can lead to catastrophic outcomes for a patient in the Acute Care setting. Pressure ulcers are one of the quality indicators CMS is monitoring and affects reimbursement to a facility if not documented present on admission. Multiple risk factors contribute to the development of pressure ulcers identified in the literature. These risk factors consist of some of the following: time/ischemia, peak pressure, nutrition, metabolic factors, and weight/height distribution. The nurses are the first line of defense for the patient.

The Continuous Bedside Pressure Mapping (CBPM) system (MAP™ System) is a pressure-sensing mat and a control unit that provides digital imaging of peak pressures. CBPM can be used in assisting nursing staff in proper positioning of patients to reduce the occurrence of pressure ulcer development. The purpose of this proposed study is to test the effectiveness of the use of the CBPM system in assisting nursing care in a sample of ICU patients at risk for pressure ulcer development.

Research Aims

Quantitative: To demonstrate that the use of CBPM reduces the development of pressure ulcers.

Qualitative: To explore nurses’ perception of how CBPM impacts their provision of patient care.

Stakeholder engagement

A focus on the nurse/stakeholder and their perception of how the CPBM can provide assistance with patient care in preventing pressure ulcers

Research Design: An explanatory sequential mixed method design will be used. The occurrence of Pressure Ulcer development on high risk patients who have been placed on CPBM during their ICU stay will be measured. Staff nurses who provided care for these patients will be individually interviewed.

No handouts were provided for this presentation:

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