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Patient and quality of care associated metrics in team-based care models in military intensive care units**Melissa Wilson**

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Health care systems are facing an increased demand for intensive care coupled with a shortage of intensivist trained physicians in the United States. Recognizing that patients improve with around the clock intensivist coverage, health care organizations are adopting health care models that expand these traditional physician intensivist models. Institutions are incorporating Acute Care Nurse Practitioners (ACNPs) into team based care models to intercede for patient care in Intensive Care Units (ICUs). While military hospitals have begun to adopt these team based care models, no studies have addressed outcomes of ACNPs in the ICUs. The purpose of this study is to identify patient and quality of care outcome measures utilizing a team-based care model in military ICUs. The aims include the following: (1) Identify if outcomes of care utilized to establish ACNP-associated metrics exist within military ICUs, (2) Identify the incidence of the outcomes identified in aim 1 within a military treatment hospital unit utilizing a team-based care model to those within a military treatment hospital utilizing the traditional care model, and (3) Describe the association between the incidence of outcomes identified in aims 1 and 2 with comparable civilian units. A retrospective review of medical records was conducted of all patients admitted to either medical, surgical or trauma ICUs at one military medical center for the 12 months prior to study initiation. The facility selected currently utilizes a traditional physician based model of care in one ICU and a team based model in the other ICU. A review of literature was completed to identify clinical outcome measures to examine patient and quality care outcomes of intensive care patients.

Biography

Melissa Wilson is currently a Nurse Scientist for the Department of Aeromedical Research, United States Air Force School of Aerospace Medicine (USAFSAM) at Wright Patterson Air Force Base in Dayton, Ohio. She is leading research in the areas of moral distress in aeromedical health care practitioners, pain management, provider type in military services and the use of health technologies in aeromedical transport. She is also currently building two mobile apps for use in military patient care environments in collaboration with the Defense Health Agency. Prior to her current role with USAFSAM, she most recently comes from an academic institution where she was the Associate Director of Nursing and an Assistant Professor for nine years. In addition to her role at the university, she was practicing as an Advanced Practice Nurse and still maintains board certification as a Clinical Nurse Specialist.

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