Tailoring Education to Perceived Fall Risk in Hospitalized Patients With Cancer: A Randomized, Controlled Trial

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Background: Patients with cancer carry a higher risk for falls, potentially resulting in increased morbidity, mortality, and financial costs, as well as lower quality of life. Few evidence-based interventions are tailored to the patient’s perception of risk for falls.

Objectives: This study aimed to determine the effect of tailored, nurse-delivered interventions as compared to a control group on patient perception of risk for falls, confidence in fall prevention, and willingness to ask for assistance.

Methods: A two-group, prospective, randomized, controlled design was used to test the intervention in a convenience sample of 91 patients on an adult bone marrow transplantation unit. The intervention consisted of video and printed education tailored to the nurse’s risk assessment and the patient’s perception of risk. Patient’s self-reported perception, confidence, and willingness were measured at three time points: after consent within 24 hours of admission and at 24 and 72 hours after consent. The analysis consisted of a paired McNemar’s test stratified by intervention versus control group to examine differences between the groups.

Findings: About one-third of patients perceived themselves to be at low risk for falls despite a nurse rating of high risk. A statistically significant difference existed in the proportion of patients who perceived themselves to be at high risk for falls pre- and postintervention (p = 0.01). Results suggest that tailoring education to the patients’ perceived risk for falls can help patients become more aware of fall risk.

Key words: cancer; fall prevention; hospitalized falls; falls intervention

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Falls in hospitalized patients are associated with poorer quality of life, greater disability, longer hospital stay, increased resource use, and greater risk of institutionalization (Hill et al., 2009). Falls are devastating to patients, family members, providers, and the healthcare system, with 34% of falls leading to injury (Fisher, Davis, McLean, & Le Couteur, 2005). Falls are defined as an unplanned descent to the floor that results from physiologic or environmental reasons and may occur with or without injury (Press Ganey Associates, Inc., 2015). The national average is 3.34 falls per 1,000 patient care days (Press Ganey Associates, Inc., 2015). During the past year, the falls rate on the inpatient bone marrow transplantation unit at the Seidman Cancer Center of University Hospitals Case Medical Center in Cleveland, Ohio, was an average of 3.2 per 1,000 patient care days. Of particular concern was that 8 of the 24 falls on the bone marrow transplantation unit in 2013 led to injury, which required additional treatment.