Falls are a major concern for patients with acute myeloid leukemia who are admitted to the hospital for induction chemotherapy. Patients with cancer are at risk for rapidly changing health status and, therefore, need a different kind of fall surveillance than those in other inpatient units. Fall risk most likely will change throughout an inpatient’s stay. Oncology nurses can start addressing this issue by reviewing the documented data of falls in this patient population.

R.W., a 46-year-old man, was newly diagnosed with acute myeloid leukemia (AML). He stated that he was shocked to discover he had leukemia because he was a tri-athlete and always had been in good health. R.W. was admitted to the inpatient oncology unit for 7 + 3 induction chemotherapy (ICT), which contains a combination of daunorubicin and cytarabine (Kohrt & Coutre, 2008).

He tolerated the chemotherapy fairly well and maintained a high activity level during the treatment. He frequently walked laps around the unit and was provided a stationary bike in his room for structured exercise. The staff praised him for his enthusiasm and energy. R.W. took pride in his ability to maintain his athleticism and, most importantly, in his ability to care for himself. However, in the days following his last dose of chemotherapy, R.W. noticed that he moved a bit slower and became more tired after fewer laps. As an independent person who valued his physical stamina, R.W. did not focus on his diminishing endurance capacity.

One night, R.W. needed to use the bathroom. He rose from the bed, walked to the bathroom, and en route, he stumbled as his legs went out from under him. A nearby nurse heard the crash and rushed into R.W.’s room. R.W. had fallen and hit his head, so the nurse called for help. The team arrived, assessed his condition, and ordered appropriate diagnostic tests to rule out head trauma. R.W. had a mild concussion that prolonged his stay in the hospital and complicated his recovery.

Kristin Filler, BS, RN, is a doctoral nursing student and graduate research assistant, Debra Lynch Kelly, BS, RN, is a project director, and Debra Lyon, RN, PhD, FNP, is an associate professor and chair, all in the Department of Family and Community Health Nursing at Virginia Commonwealth University in Richmond. The authors take full responsibility for the content of the article. The authors did not receive honoraria for this work. No financial relationships relevant to the content of this article have been disclosed by the authors or editorial staff.

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altered by ICT. These falls may have different characteristics than those seen on other medical units because fall risk depreciates in patients with cancer and is linked directly to the course of therapy. Therefore, strategies for fall prevention among patients with cancer may require different assessment modalities and preventive strategies. However, a paucity of research exists involving fall risk in this population, so more research is needed.

To date, physical functioning has had limited empirical study during and following cancer treatment (2009–2013 Oncology Nursing Society Research Agenda Team, 2009). Consequently, the Oncology Nursing Society’s 2009–2013 research agenda highlights the need for greater attention to impaired physical functioning in inpatients with cancer because of its relation to risk for injurious falls (2009–2013 Oncology Nursing Society Research Agenda Team, 2009). Inpatient falls can result in significant physical, psychological, and economic consequences. With the increased attention of the Joint Commission International (2009) and the National Quality Forum’s (2009) requirements, falls have adverse economic consequences because facilities are not reimbursed for additional medical costs related to falls. Although inpatient falls are known to have certain risk factors (e.g., mental status changes, delirium, functional impairment), risk of falls in inpatient oncology settings may have additional factors that are relevant for consideration by oncology nurses (Inouye, Brown, & Tinetti, 2009; O’Connell, Cockayne, Wellman, & Baker, 2005). Studies have identified that changes in treatment practices, such as combined modality treatment regimens and treating older adult patients with these modalities, may result in increased fall risks (Amemiya et al., 2007; Bylow et al., 2008; Given, Given, Sikorski, & Hadar, 2007; Goodwin, 2007; Snyder et al., 2008). The effect of the clinical and health variables related to fall outcomes requires additional analysis in patients with cancer. Based on descriptive studies, interventions will need to be developed and tested to decrease the risk and occurrence of falls.

Assessment Strategies

Although psychometrically validated scales exist to assess fall risk, most lack specificity and sensitivity, resulting in low predictive power (Lovallo, Rolandi, Rossetti, & Lusignani, 2010). More than half of all falls are related to elimination needs and impaired gait (Capone, Albert, Bena, & Morrison, 2010). Fall risk assessment at baseline may not be accurate throughout the course of treatment because of physical deterioration over the course of treatment. The policy decision to deny hospital reimbursements in cases where injurious falls have occurred provides an additional reason for more research into this area (Neergaard, 2008).

Nursing care for patients with cancer needs to consider increased fall risks. Patients with cancer are at risk for rapidly changing health status and, therefore, need a different kind of fall surveillance than those in other inpatient units. Oncology nurses can begin by reviewing the documented data of falls in this patient population. Based on that information, evidenced-based oncology-specific guidelines for patients with cancer receiving intensive ICT throughout treatment will need to be developed and tested, as fall risk changes throughout the inpatient stay.

Conclusion

Inpatient falls are a major concern among those with AML being treated with ICT. This population is unique from others in the hospital setting because their fall-risk status changes throughout the course of treatment. No fall risk assessment tools exist with specificity or sensitivity for this unique population. Oncology nurses should begin to look at the data and develop evidence-based assessment guidelines, as patient safety is the goal.

Author Contact: Debra Lyon, RN, PhD, FNP, can be reached at delyon@vcu.edu, with copy to editor at CIONEeditor@ons.org.

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