Prevention of Venous Thromboembolism in Adult Patients With Cancer in the Acute Care Setting

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Patients with cancer face a multitude of potential complications related to the disease process and treatment of cancer. Some complications will result regardless of measures taken to prevent them, whereas others can be avoided through the use of adequate screening techniques and effective interventions implemented in advance of their occurrence. One of the most prominent of these latter complications is venous thromboembolism (VTE).

VTE is the second leading cause of death in patients with cancer and is associated with a two-fold increase in mortality (Lee & Khorana, 2011). To decrease the risk of VTE and associated mortality among adult patients with cancer, nurses in the acute care setting must be familiar with the pathophysiology of thrombosis, particularly as it pertains to patients with cancer. Recognition of the broad range of acute care settings where these patients might be encountered also is essential to ensuring that patients are adequately screened and receive prophylaxis for VTE. Those include hospitals, outpatient clinics, long-term acute care facilities, transitional care facilities, medical homes, and home healthcare settings. Nurses must also be familiar with VTE prevention, including pharmacologic and nonpharmacologic therapy. In addition, nurses must be able to effectively communicate this knowledge to patients to ensure compliance with prescribed VTE prophylaxis.

Pathophysiology of Venous Thromboembolism

Knowledge of the basic pathophysiology of VTE is essential to the development of effective prevention strategies. The primary