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The Importance of Venous Thromboembolism Management in the Oncology Population.

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The Importance of Venous Thromboembolism Management in the Oncology Population Maura Price MSN, RN, OCN Lehigh Valley Health Network, Allentown, Pennsylvania

SIGNIFICANCE & BACKGROUND

- Venous thromboembolism (VTE) is defined as the development of a thrombus in the form of a deep vein thrombosis (DVT), a pulmonary embolism (PE), or a combination thereof (McCance et al., 2010).
- Due to the hypercoagulable state that occurs with malignancy, oncology patients are 4-7 times more likely to develop VTE than the general population
- VTE coupled with thrombocytopenia, a common toxicity experienced by patients undergoing chemotherapy or radiation, can make VTE management challenging
- Risks of anticoagulant administration versus anticoagulant holds during thrombocytopenia must be considered to ensure patient safety

PURPOSE

To fill a gap in knowledge regarding proper anticoagulant dosing and administration in the thrombocytopenic oncology patient

INTERVENTIONS

- A literature search was completed
- National guidelines for VTE management were reviewed and compared
- Guidelines were presented to Lehigh Valley Health Network's (LVHN) Cancer Committee
- Standard parameter for anticoagulant holds in the thrombocytopenic oncology patient was established
 - Unless contraindicated, anticoagulants can be safely administered to oncology patients with a platelet count of 50,000/ml or higher



Comparison of Guide

	NCCN	MD Anderson	ASCO	MSKCC	ESMO
Relative Anaticoagulation contraindications	Platelets <50,000/ml	Platelets <50,000/ml	Platelets <50,000/ml	*Platelets <25,000/ml	Platelets <50,000/ml
Absolute contraindications	Active bleeding- 2+ units transfused in 24 hours	Cerebral hemorrhage, hemorrhage in eye or vital organs, hgb drop of 2gm/ dL in 24 hours	Platelets <20,000/ml		

Soff, 2013; NCCN,m 2016, Lyman et al., 2015; Mandala, Falanga & Roila, 2011.

EVALUATION

- Education on VTE management in the oncology population was assigned to inpatient oncology nurses via LVHN's online learning system
- Nurses have voiced their appreciation for the education, review of guidelines, and establishment of a standard parameter for anticoagulant holds
- The education has led to decreased confusion over when to administer versus hold anticoagulants during thrombocytopenia

son of Risk Assessment Tools				
t Tool	Population Validated In			
del (RAM)	Surgical patientsGynecologic oncology patients			
el (RAM)	Hospitalized medical patients			
sment Model (RAM) Pomalidomide)	 Multiple Myeloma patients 			
Chemotherapy-	Surgical patients			

ines & Current Re	ecommendation	S

DISCUSSION

Proper VTE management in the oncology population can lead to:

- Decreased morbidity and mortality
- Reduced costs associated with VTE
- Positively impact quality of life and reduce chances of future VTE recurrence
- Decrease the overall incidence of VTE in the oncology population
- Assessment and evaluation of VTE risk in oncology patients is essential
- Plans to implement a validated VTE risk assessment tool into EPIC are underway at LVHN

References:

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