

Based on the IMWG guidelines, what is the standard of care for patients receiving lenalidomide or thalidomide who are at high risk for venous thromboembolism (>2 risk factors)?

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1. Many patients receiving therapy with an immunomodulating agent for multiple myeloma (MM) may be at risk for developing venous thromboembolism (VTE)
 - a. Myeloma patients have a baseline tendency to develop hypercoagulable syndrome
 - b. Treatment with immunomodulating agents lenalidomide or thalidomide increases this risk
 - c. Risk increases further with
 - i. Addition of dexamethasone
 - ii. Higher doses of dexamethasone
 - iii. Addition of doxorubicin or alkylating agents
2. Clinical strategies exist to reduce the risk of VTE in patients with MM but vary with the patient's risk for developing thrombosis
 - a. Addition of anti-thrombotic agent such as aspirin at a low dose (85 or 100 mg)
 - i. The risk of thrombosis ranges from 2%-5%, depending on patient's risk group
 - b. Patients taking high-dose corticosteroids, on other chemotherapies, or who have other risk factors for thrombosis should use a more intense anticoagulation
 - i. RCTs have shown that low-molecular-weight heparin, e.g., enoxaparin, can reduce but not eliminate the risk of pulmonary embolism
 - ii. Approximately 1.5%-2% of patients receiving low-molecular-weight heparin can still suffer thromboembolisms
 - c. Individualizing anti-thrombotic therapy for each MM patient receiving lenalidomide or thalidomide is critical