Mitigating VTE in Soldiers From Operation Iraqi Freedom and Operation Enduring Freedom

To the Editor:

We read with great interest the recent article by Holley et al in CHEST (September 2013) detailing the nature of VTE in combat soldiers. We previously published the first report to our knowledge in this same population and agree that application of prophylaxis in injured soldiers is often limited by bleeding risk, anatomic location of injury, and discontinuity in care arising from surgical or logistical interventions. Although it is encouraging that Holley et al noted a reduction in VTE events with higher doses of enoxaparin (in contrast to our data), it is somewhat contradictory that missed dosing did not appear to influence VTE rates.

In our opinion, two developments have markedly impacted the care of patients injured in the recent conflicts in Afghanistan and Iraq: an increase in the incidence and profundity of penetrating injury and the impressive capability for expedited aeromedical evacuation. The emergence of the latter has decreased the time from in-theater injury to stateside ICU for injured American soldiers to <48 h in some instances. This places lengthy transport of the injured (flight times ≥8 h) within the time period when VTE develops and prophylaxis is likely most essential, and the vagaries of wartime transport may compromise administration of prophylaxis. Moreover, the conditions of hypobaric hypoxia seen with air travel may increase risk of VTE independently of risk associated with prolonged immobility, further increasing the propensity of these patients to develop clots. Although this hypobaric risk may be mitigated by low-molecular-weight heparin, and aggressive thromboprophylaxis in the trauma setting is certainly justifiable, as Holley et al note, the absence of data from the evacuation period remains problematic in developing a tailored and evidence-based approach to VTE prevention in this population.

References


Response

To the Editor:

We appreciate the comments from Dr Jackson and colleagues regarding our recent article. Although they state that they recorded relevant variables during their chart review, they do not report

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