



Evaluating Protocol Adherence During Anti-Inhibitor Coagulant Complex Administration for Reversal of Xa Inhibitors for Life-Threatening Bleeding



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Introduction

Anti-inhibitor coagulant complex (FEIBA®) contains the coagulation factors II, VIIa, IX, and X. FEIBA® is FDA approved for controlling bleeding in patients with hemophilia. Rivaroxaban, apixaban, and edoxaban are Factor Xa (Fxa) inhibitors with no currently FDA approved reversal agent. Evidence from ex vivo studies by Marlu et al¹ and Levi et al² demonstrated that FEIBA® may work to reverse the anticoagulant effect induced by these agents, but these studies only utilized blood samples drawn from healthy volunteers exposed to rivaroxaban. FEIBA® also has been shown to improve coagulation assays, although this has not been proven in large, randomized controlled trials in patients with life-threatening bleeding. How FEIBA's effect on coagulation assays correlates to clinically significant reversal is unknown at this time as no randomized, controlled trials with FEIBA® in patients with life-threatening bleeding have been conducted. The purpose of our study is to examine the FEIBA® administration protocol at Allegheny General Hospital. Our protocol utilizes a 20units/kg dosing strategy adapted from the original Marlu study¹, with the dose of FEIBA® given rounded to the nearest vial size. Our institution's protocol for FEIBA administration for life-threatening bleeding in patients taking FXa inhibitors is as follows:

