ANTICOAGULATION USE SAFETY

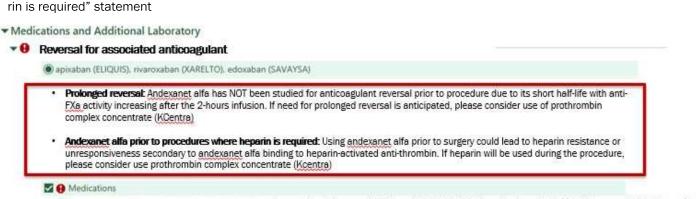
Patti Romeril, PharmD

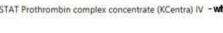
Anticoagulant Reversal for Emergent Surgery/Procedure Order Set

Current Houston Methodist practice for anticoagulant reversal agent ordering leaves room for variability with the options to select several standalone orders or multiple order sets. In order to streamline this process and minimize errors, the proposal to create a "reversal of anticoagulation proor to emergent procedure/surgery" order set" has been approved. A summary of the accepted changes are listed below along with visual aids to demonstrate the process of ordering within Epic.

Summary of Accepted Changes:

Reversal of apixaban, rivaroxaban, edoxaban: add "prolonged reversal" and "andexanet alfa prior to procedures when heparin is required" statement





Andexanet alfa (Andexxa®) infusion (RESTRICTED)-when prolonged reversal (>2 hours) NOT REQUIRED and/or heparin WILL NOT be used during procedure
STAT Prothrombin complex concentrate (KCentra) IV -when prolonged reversal (>2 hours) REQUIRED and/or heparin WILL be used during procedure



Fa Inhibitor	FXa Inhibitor Last Dose	Timing of FXa Inhibitor Last Dose Before Andexanet alfa Initiation	
		<8 Hours or Unknown	≥8 Hours
Apixaban	≤5 mg	Low dose	Low dose
	>5 mg or unknown	High dose	
Rivaroxaban	≤10 mg	Low dose	
	>10 mg or unknown	High dose	

High dose should also be used for patients ≤7 hours since last administration of treatment dose enoxaparin ≥ 1 mg/kg in a patient allergic to protamine.

O Low Dose Option

O High Dose Option

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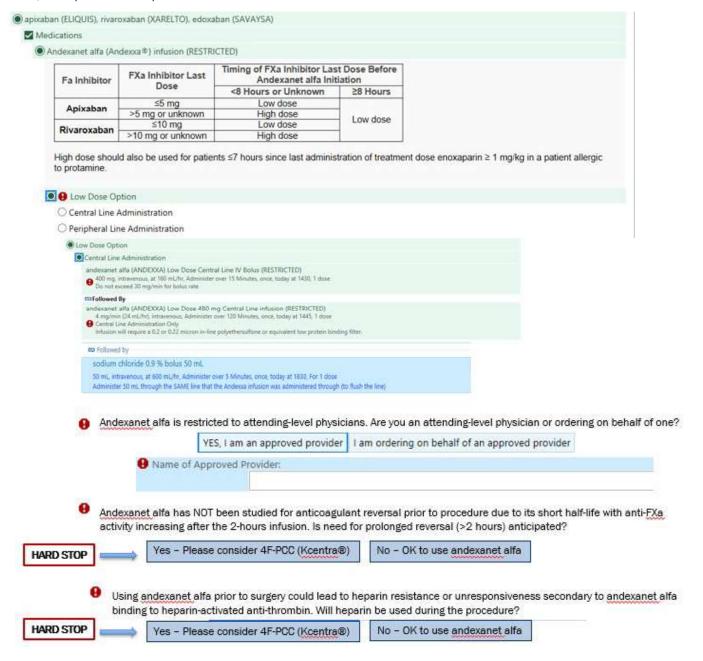


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Summary of Accepted Changes (cont.):

Reversal of apixaban, rivaroxaban, edoxaban: Andexanet alfa selection – add sodium chloride 0.9 bolus following administration; add specific order questions



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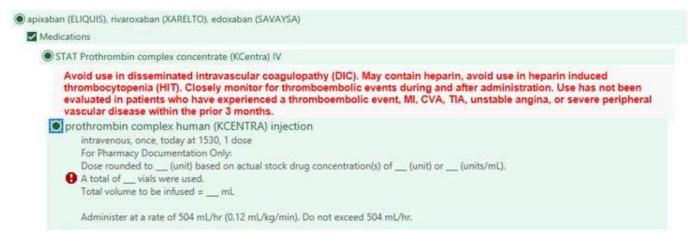


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Summary of Accepted Changes (cont.):

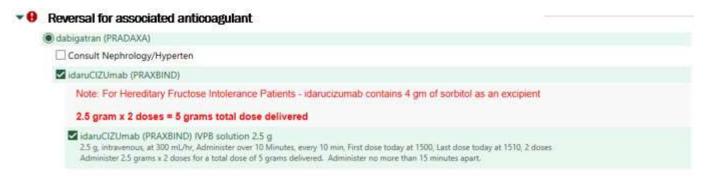
Reversal of apixaban, rivaroxaban. Edoxaban: Change Prothrombin complex concentrate dosing to 1,000 units and 2,000 units (default dose)



Recommended dosing:

Radio buttons for 1,000 units and 2,000 units – default selection 2,000 units

Removal of idarucizumab for dabigatran reversal standalone orders



Remove dabigatran as a standalone order



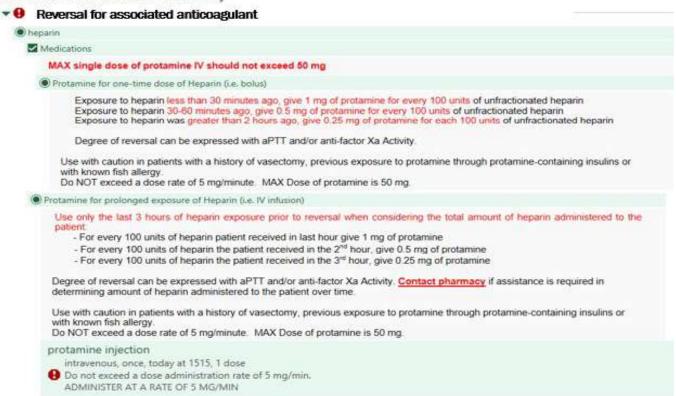
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Summary of Accepted Changes (cont.):

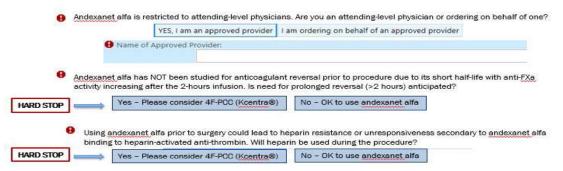
Removal of protamine for heparin reversal standalone orders

▼ Medications and Additional Laboratory



Remove protamine as a standalone order

Reversal of enoxaparin or dalteparin: refer to and examet alfa changes – same order questions and hard stops for prolonged reversal and heparin during procedure



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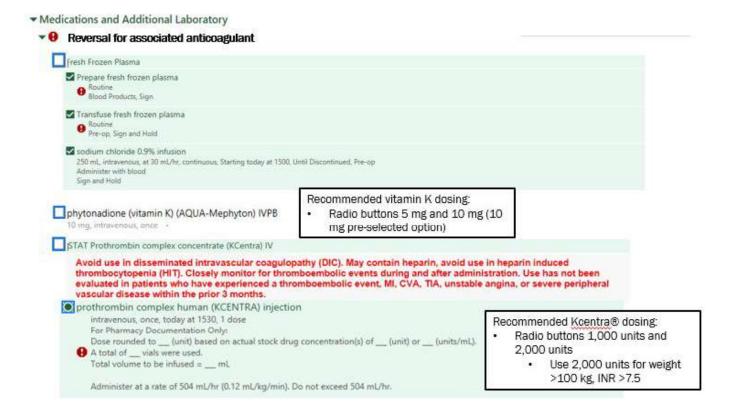


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Summary of Accepted Changes (cont.):

Reversal of warfarin: change phytonadione IV dosing to 5mg and 10mg (default dose); Change prothrombin complex human default dosing to 1,000 units and 2,000 units. Use 2,000 units for weight > 100kg, INR > 7.5



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