

# Where Do I Find the NYULMC Anticoagulation Reversal Guidelines?

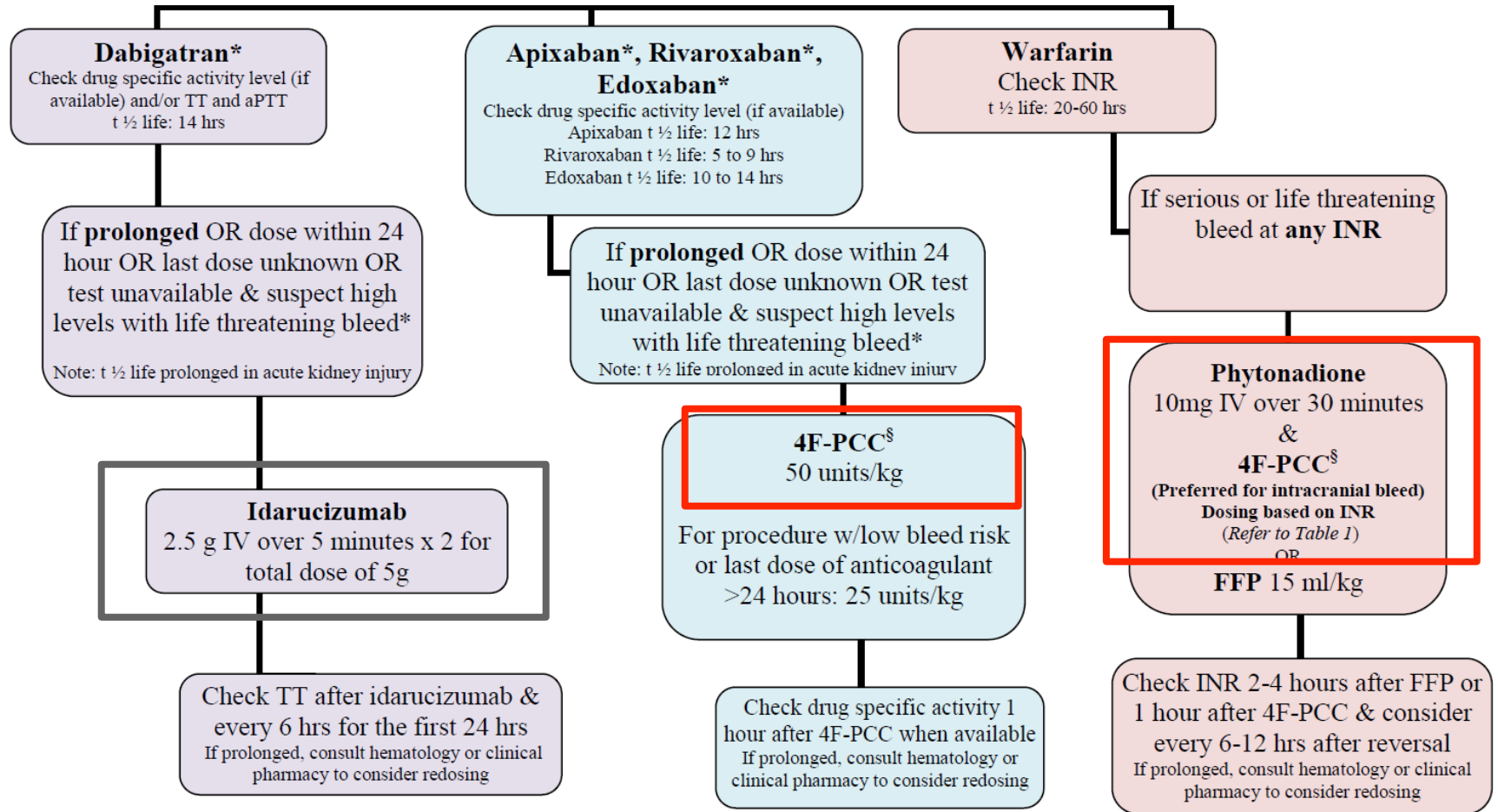
On the NYUMC Ellucid Website:  
<https://nyumc.ellucid.com/home>

The screenshot shows the search interface on the NYUMC Ellucid website. A search bar at the top contains the word "reversal" and a "Search" button. Below the search bar, a dropdown menu is open, showing "Advanced Search" selected. The search results are displayed under the heading "Document results 1 - 20 of 64 for reversal". A button labeled "Save Document(s) To Favorites" is visible. The first result is "Anticoagulation Reversal Guidelines", which is highlighted with a red arrow. Below this result, a "Manual:" section lists several documents: "Pharmacy Policy and Procedure Manual / Pharmacy Clinical Policies / Anticoagulation", "Stroke Policy and Procedure Manual / Stroke Protocols", "Pharmacy Policy and Procedure Manual / Pharmacy Clinical Policies / Critical Care, Adult", "NYU Lutheran", and "Venous Thromboembolic Center". The second result is "Recombinant Factor VIIa (rFVIIa) (NovoSeven) Off Label Dosing Guideline", with a "Manual:" section listing "Pharmacy Policy and Procedure Manual / Pharmacy Clinical Policies / Anticoagulation".

# 4-factor PCC (Kcentra®) Indications

- Reversal of oral anticoagulants in severe/life-threatening bleeding or the need for urgent surgery/procedure
  - Warfarin (Coumadin®)
  - Apixaban (Eliquis®)
  - Rivaroxaban (Xarelto®)
  - Edoxaban (Savaysa®)
- Severe/Life-threatening bleeding:
  - Intracranial hemorrhage (ICH)
  - Critical site bleed (retroperitoneal, intra-spinal, intra-articular)
  - Actual or impending hemodynamic compromise (massive GI bleed)
  - Clinically overt bleeding with drop in Hgb > 2g/dL or administration of > 2 units PRBCs

# Reversal of Oral Anticoagulants



**Direct Antidote  
available &  
stocked**

**NO Direct Antidote  
Use Kcentra®**

**Use Kcentra® plus  
IV Vitamin K**

# Warfarin Reversal

## Search for “Kcentra” in Epic Facility List:

✔ Accept

∨  
prothrombin complex concentrate (PCC) (KCENTRA) for Urgent/Emergent Reversal of Anticoagulation

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\*4F-PCC (KCENTRA) contains heparin, avoid use in patients with history of heparin induced thrombocytopenia (HIT)  
**\*Phytonadione (Vitamin K) 10 mg/50 mL over 30 minutes should be administered in all patients that receive 4F-PCC (KCENTRA) for WARFARIN reversal.**  
\*Use cautiously in patients with new cardiac or cerebral stents or thromboembolic event in past 3 months due to the risk of clotting. Avoid in patients with chronic bleeds or in preparation for non-urgent surgery.

<input type="checkbox"/> Warfarin reversal INR 2 to less than 4 25 Units/kg, Intravenous, Once	} Dose based on initial INR
<input type="checkbox"/> Warfarin reversal INR 4-6 35 Units/kg, Intravenous, Once	
<input type="checkbox"/> Warfarin reversal INR greater than 6 50 Units/kg, Intravenous, Once	

POCT INR  
Routine, ONE TIME, 60 minutes after 4F-PCC (KCENTRA) given

**Repeat INR after Kcentra dose**

# Warfarin Reversal

## Alternative dosing options for Neuro/Neurosurgery:

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Neuro/Neurosurgery: Warfarin associated intracranial hemorrhage or life threatening bleed or plan for neurosurgical intervention with INR 1.5 to 4

35 Units/kg, Intravenous, Once

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Neuro/Neurosurgery: Warfarin associated intracranial hemorrhage or life threatening bleed or plan for neurosurgical intervention with INR greater than 4 or INR unknown

50 Units/kg, Intravenous, Once

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Neuro/Neurosurgery: Intraoperative dose, for sustained bleeding after 35 units/kg given

15 Units/kg, Intravenous, Once

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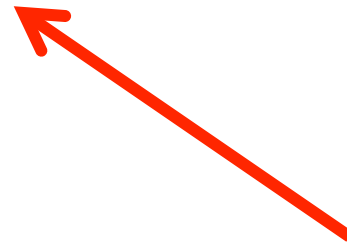
POCT INR

Routine, ONE TIME, 60 minutes after 4F-PCC (KCENTRA) given

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# Warfarin Reversal

Name	Type	Dose	Route	Frequency	Drug Cost	Test Cost	Pref List	P.
cyanocobalamin (vitamin B-12) injection 1000 mcg/mL (LA-1		1,000 mcg	IntraMuscular	Once			IP NYU LM	
phytonadione ((AQUA-MEPHYTON) IVPB (VITAMIN K)			Intravenous	Once			IP NYU LM	
phytonadione (MEPHYTON) tablet 5 mg		5 mg	Oral	Once			IP NYU LM	
phytonadione (VITAMIN K) for Urgent/Emergent reversal							IP NYU RX	



**Do not forget to put in separate order for IV Vitamin K!**

# Rivaroxaban (Xarelto<sup>®</sup>), Apixaban (Eliquis<sup>®</sup>), and Edoxaban (Savaysa<sup>®</sup>) Reversal

\*Dabigatran (Pradaxa<sup>®</sup>) now has a direct antidote available; do not use Kcentra<sup>®</sup> to reverse dabigatran (listed below) unless idarucizumab (Praxbind<sup>®</sup>) is unavailable

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Non-life-threatening target specific oral anticoagulant reversal (Apixaban, Edoxaban, Rivaroxaban, Dabigatran) OR Reversal for procedure with low bleeding risk

25 Units/kg, Intravenous, Once

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Serious or life threatening bleed with target specific oral anticoagulant reversal (Apixaban, Edoxaban, Rivaroxaban, Dabigatran) OR Reversal for procedure with very high bleed risk

50 Units/kg, Intravenous, Once

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## No INR monitoring required

# Kcentra® Reconstitution



## [Kcentra Mix2vial® Reconstitution Video](#)

**Click on link above to play video  
(you must be viewing these slides in  
“slideshow” mode for hyperlink to work)**



# NYU Lutheran Specific Process:

<p>Where is Kcentra® located?</p>	<ul style="list-style-type: none"><li>• In Omnicell refrigerator in several locations (ED-A side, ED CT scan; 3<sup>rd</sup> floor CT scan)</li><li>• Stocked as 500 unit kits (Epic will automatically round dose to nearest 500 units)</li></ul>
<p>How is Kcentra® administered?</p>	<ul style="list-style-type: none"><li>• <b><i>May only be administered by Physician/NP/PA</i></b></li><li>• Each 500 unit dose after reconstitution will be drawn into a syringe (total volume = 20 mL)</li><li>• <b><u>Each syringe of 500 units (20mL) to be given slow IV push over 3 minutes</u></b> (to adhere to the MAXIMUM administration rate of 8.4 mL/min)</li></ul>
<p>What should be monitored?</p>	<ul style="list-style-type: none"><li>• PT/INR for warfarin reversal</li><li>• CBC every 6 hours</li><li>• Signs of infusion-related reaction (fever, chills, HA, N/V, flushing, tingling, dyspnea)</li><li>• Signs/Symptoms of thromboembolic events</li></ul>