MMC GUIDELINE FOR REVERSAL OF WARFARIN-ASSOCIATED MAJOR/LIFE-THREATENING BLEEDING**

MAJOR/LIFE-THREATENING BLEEDING*

Yes

WITHIN 30 MINUTES
Massive Transfusion Coag Panel STAT (if no recent INR)
Vitamin K 2.5 to 5 mg IV STAT

If potential for massive transfusion exists, initiate massive transfusion protocol (call 662-2121)

***Definition of major bleeding:** Symptomatic bleeding in a critical area or organ, such as intracranial, intraspinal, intraocular, retroperitoneal, intraarticular or pericardial, or intramuscular with compartment syndrome, and/or acute bleeding requiring transfusion of >2 units of packed red blood cells.

****Exclusions**: patients with arterial or venous thromboembolic events within previous 3 months (stroke, VTE, MI, etc.), urgent reversal for surgery in the absence of major bleeding, coagulopathy secondary to liver disease, disseminated intravascular coagulation (DIC), acute bleeding not due to warfarin, heparin-induced thrombocytopenia (HIT)

CNS Related Bleeding (Goal INR ≤1.5)

Kcentra (4-factor PCC) Dosing:
INR 1.6-1.9: 15 units/kg (max 1500 units)
INR ≥2.0: 25 units/kg (max 2500 units)

If potential for massive transfusion exists, initiate massive transfusion protocol (call 662-2121)

30 minutes post dose:
Massive Transfusion Coag Panel
STAT

INR >1.5:
- Consider hematology/blood bank input
- Consider FFP
- INR q 60 min until ≤2
- Consider additional dose of Kcentra 10 units/kg (1 vial)

Non-CNS Major Bleeding (Goal INR ≤2.0)

Kcentra (4-factor PCC) Dosing:
INR <4.0: 15 units/kg (max 1500 units)
INR ≥4.0: 25 units/kg (max 2500 units)

If potential for massive transfusion exists, initiate massive transfusion protocol (call 662-2121)

30 minutes post dose:
Massive Transfusion Coag Panel
STAT

INR >2.0 AND continued bleeding:
- Consider hematology/blood bank input
- Consider FFP
- INR q 60 min until ≤2
- Consider additional dose of Kcentra 10 units/kg (1 vial)

Other coagulation abnormalities?

Yes

Fibrinogen <100 mg/dL:
Transfuse cryoprecipitate 1 unit per 10kg
Platelets <100,000:
Transfuse 1 pheresis unit of platelets

Repeat INR at 6 and 12-24 hours