Adult Patients with Massive Hemorrhage: Tips for Anticoagulant Reversal

**Warfarin**
- Prothrombin complex concentrate (Octaplex® or Beriplex®) 2000 units IV over 10 min
- Vitamin K 10 mg IV over 10 min

**Dabigatran (Pradaxa®)**
- Idarucizumab (Praxbind®) 2.5 g IV twice (total 5 g) over 10 min

**Rivaroxaban (Xarelto®)**
- Prothrombin complex concentrate (Octaplex® or Beriplex®) 2000 units IV over 10 min
- Repeat at 1 hour if still bleeding

**Apixaban (Eliquis®)**
- Edoxaban (Lixiana®)

**Heparin**
- Unfractionated Heparin (UFH)
  - 1 mg per 100 units of UFH administered within past 4 hours
  - 25 mg IV will reverse heparin infusions running at a rate of approx. 1,500 units/hour

- Low Molecular Weight Heparin (LMWH)
  - If administered within 8 hours: 1 mg of protamine per 100 units anti-Xa or 1 mg per 1 mg of enoxaparin
  - If administered more than 8 hours ago: 0.5 mg of protamine per 100 units anti-Xa or 0.5 mg per 1 mg of enoxaparin

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