

# Management of Elevated INR

PROTIME	32.9 ▲
INR	3.4 📄

\*2018 American Society of Hematology (ASH) Guidelines and American College of Chest Physicians Guidelines (ACCP)

- **Urgent surgery requirement (same-day reversal) or serious bleeding and INR > 2.0**
  - Hold Warfarin
  - 4-factor Prothrombin complex concentrate (PCC) + IV Vitamin K (10 mg Vitamin K IV by slow IV infusion)
  - Vitamin K repeated every 12 hours as needed
- **Surgery needed and INR > 2.0**
  - Same-day-surgery
    - Hold Warfarin, Vitamin K administered + 4-factor PCC
  - Surgery can wait 24 hours
    - Hold warfarin, administer Vitamin K (usually oral) *without* a PCC
- **Oral vitamin K1- phytonadione (2.5 mg PO)**
  - Onset of action- 6-10 hours
  - INR values return to normal - 24-48 hrs
  - 1-time dose (may be repeated in 12-24hrs)
- **IV Vitamin K**
  - Onset of action - 1-2 hours
  - INR values normalize in 12-14 hours
  - May re-dose in 6-8 hrs if needed