Guidelines for Elevated INR Adapted from TSG

No Significant Bleeding

INR > 3.0 but < 5.0

Lower the dose or omit a dose

Monitor more frequently and resume with adjusted dose when INR returns to therapeutic range.

INR > 5.0 but < 9.0

Omit the next one or two doses

Monitor more frequently and resume with adjusted dose when INR returns to therapeutic range.

<u>OR</u>

Omit dose and give vitamin K (1 to 2.5mg) orally especially if patient has increased risk of bleeding

IF MORE RAPID REVERSAL BECAUSE PATIENT REQUIRES URGENT SURGERY

Vitamin K (< 5.0mg) orally and expect INR to decrease in 24 hours, if still high give additional Vitamin K (1 to 2 mg) orally.

INR > 9.0

Hold warfarin and give higher dose of Vitamin K (2.5-5mg) orally and expect INR will reduce substantially in 24 to 48 hours.

Monitor INR more frequently

Give additional Vitamin K if necessary and resume with adjusted dose when INR returns to a therapeutic range.

Bleeding

FOR SERIOUS BLEEDING AT ANY ELEVATION OF INR

Hold warfarin

Vitamin K (10mg by infusion)

FFD

Prothrombin Complex Concentrates

Recombinant Factor VIIa

Can repeat Vitamin K if needed

FOR LIFE-THREATENING BLEEDING

Hold warfarin

FFP

Prothrombin Complex Concentrates

Recombinant Factor VIIa

Vitamin K (10mg by slow IV infusion)

Repeat if necessary

POTENTIAL ORDERS BASED ON CHEST 2008 RECOMMENDATIONS:

IF INR greater than upper limit of target range but less than 5:

If no evidence of bleeding:

Hold warfarin

Consider Vitamin K 2.5 mg orally

Restart warfarin at original dose once INR in therapeutic range.

If rapid reversal required

Discontinue warfarin

Vitamin K 2.5 mg orally once

IF INR is 5-8.9:

If no evidence of bleeding:

Hold warfarin

Consider giving Vitamin K 2.5 mg orally

Restart warfarin at adjusted dose once INR in therapeutic range.

If rapid reversal required:

Discontinue warfarin

Give Vitamin K 2.5 mg orally once.

IF INR greater than 9:

If no evidence of bleeding:

Hold warfarin until INR in therapeutic range.

Give Vitamin K 5mg orally.

Restart warfarin at adjusted dose once INR in therapeutic range.

If rapid reversal required:

Discontinue warfarin

Consider Vitamin K 10mg slow IV infusion once.

Repeat INR in 8 hours and give Vitamin K based on value

Consider 4 units FFP

IF any INR value with serious or life threatening bleeding:

Discontinue warfarin

Vitamin K 10 mg slow IV infusion once.

4 units FFP

Recombinant Factor VIIa if suspected ICH