4-Prothrombin Complex Concentrate

20:28.16 - Hemostatics

PHARMACY PREPARATION:

- *Inspect all components for physical integrity. Do not use if any products or components appear damaged or broken*
- *Prior to reconstitution, ensure the lyophilized powder and diluent vials are at room temperature ((20°C to 25°C, 68°F to 77°F). This temperature should be maintained during reconstitution.*
- *Reconstitute using aseptic technique*
- *See reconstitution/infusion instructions in package insert*
- *Reconstitute with the manufacturer-provided vial using the manufacturer-provided transfer device.*
- *Reconstitute with 20 mL (500 unit vial) or 40 mL (1000 unit vial) of sterile water for injection provided by manufacturer*
- *Gently swirl (do not shake) until contents completely dissolve*
- *Resultant solution will contain 20-32 units of factor IX per mL depending on the product and the actual amount of factor IX contained in vial*
- *The transfer device MUST be inserted into the diluent vial first to maintain a vacuum*
- If more than one vial is required for a dose, may pool reconstituted contents of multiple vials; however, use separate unused transfer device/set to reconstitute each vial
- 4-PCC contains heparin. Do not use if patient has a history of HIT
- Discard partially used vials – for single use only

STABILITY:

- Use reconstituted solution within 4-8 hours depending on manufacturer.

ADMINISTRATION:

For DOAC (i.e. apixaban, rivaroxaban, edoxaban, betrixaban) reversal:
- Standard dose of 2000 units IV should be used
- Provider may order another dose of 4-PCC 2000 units if deemed clinically necessary

For warfarin reversal:
- Standard dose of 1500 units IV should be used
- Concurrent vitamin K 10 mg IV should be ordered
- Provider may order another dose of 4-PCC 500 units if deemed clinically necessary after the first administration of 4-PCC 1500 units and Vitamin K 10 mg

INFUSION:

- Infuse at 0.12 ml/kg/minute (maximum 8.4 ml/minute)
- Infuse through a dedicated line and do not mix with other products
- Record lot number in patient's profile