CITRATE PROTOCOL

MONITOR AND ADJUST

- ionized Ca\(^{2+}\) every 6 hr
- bag levels

If outside normal range, adjust with Ca infusion using the TITRATION PROTOCOL from Powerchart.

Follow alerts and prompts on screen for all bag changes.

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HEPARIN PROTOCOL

MONITOR AND ADJUST

- **Heparin levels** per protocol: If outside normal range, adjust with Heparin infusion using the TITRATION PROTOCOL from Powerchart.

- **Bag levels**: Follow alerts and prompts on screen for all bag changes.

CATHETER LENGTH GUIDELINES

**Patient Height: 170-200cm (5’4” – 6’5”)**

- **RIGHT IJ Vein** – 20cm 14F dual lumen
  - Goal: Tip in RA or caval-atrial junction

- **LEFT IJ vein** – 24cm 14F dual lumen
  - Tip in RA or caval-atrial junction
  - Alternative: 13F 24cm Triulyx catheter

- **RIGHT or LEFT Femoral Vein** – 24cm 14F dual lumen
  - (alternate: 24 or 30cm 13F Trialyx catheter)
  - Shallow angle of insertion

- **Subclavian Vein** - 14F dual lumen
  - R SCV = 20cm; L SCV = 24cm
  - Tip in RA or caval-atrial junction

**Patient Height: < 170 or > 200cm**

- **RIGHT IJ Vein** = \((\text{Hgt (in cm)} / 10) + 1-2\)cm
  - Tip in RA or caval-atrial junction
  - 14F Dual Lumen

- **LEFT IJ vein** = \((\text{Hgt (in cm)} / 10) + 4-5\)cm
  - Tip in RA or caval-atrial junction
  - Alternative: 13F 24cm Trialyx catheter

- **RIGHT or LEFT Femoral Vein** – 24cm 14F dual lumen
  - (alternate: 24 or 30cm 13F Trialyx catheter)
  - Shallow angle of insertion

- **Subclavian Vein** - 14F dual lumen
  - R SCV = 20cm; L SCV = 24cm
  - Tip in RA or caval-atrial junction

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