



### Quick Reference – Improving CRRT Circuit Performance (COVID+ Patients) Pandemic RRT & RRT Surge Committee

Last updated: 4/6/2020

#### 1. Excellent CRRT access is of paramount

ensure dialysis vascular access appropriate length & tip at desired depth

### **EHC Acute Dialysis Vascular Access: Catheter Guidelines**

Catheter Length for Patient Height: Patient Height: 170-200cm (5'4" - 6'5") < 170 OR > 200cm 1st preference: RIGHT IJ Vein - 20cm 14F dual lumen RIGHT IJ Vein = (Hgt (in cm) / 10) + 1-2cm GOAL: Tip in RA or caval-atrial junction Tip in RA or caval-atrial junction 14F Dual Lumen 2<sup>nd</sup> preference: LEFT IJ vein – 24cm 14F dual lumen LEFT IJ vein = (Hgt (in cm) / 10) + 4-5cm Alternative 13F 24cm Trialysis Tip in RA or caval-Alternate: 13F 24cm Tip in RA or caval-atrial junction 14F Dual lumen atrial junction Trialysis catheter RIGHT or LEFT Femoral Vein – 24cm 14F dual lumen RIGHT or LEFT Femoral Vein – 24cm 14F dual lumen (alternate: 24 or 30cm 13F Trialysis catheter) (alternate: 24 or 30cm 13F Trialysis catheter) Shallow angle of insertion Shallow angle of insertion Subclavian Vein - 14F dual lumen Subclavian Vein - 14F dual lumen Tip in RA or caval-atrial R SCV = 20cm: L SCV = 24cm R SCV = 20cm: L SCV = 24cm Tip in RA or caval-atrial junction

2. CRRT anticoagulation is required in COVID+ patient (unless contraindicated)

#### CRRT Anticoagulation Guidelines – COVID-19

Goal: Maximize CRRT circuit survival in any patient running continuously to max 72 hrs

#### Regional Citrate Anticoagulation

 Standard EHC Citrate CRRT Protocol

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#### Low-standard Therapeutic Heparin

- Infuse <u>via pre-filter</u> <u>pigtail catheter</u> on CRRT machine
- Measure heparin levels <u>from patient</u> & adjust to based on heparin level target
- Stop citrate protocol

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#### Direct Thrombin Inhibitor

- Argatroban preferred
- · Bivalirudin alternative
- Infuse via systemic IV
- Adjust by PTT levels
- · Stop heparin infusion

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