PICU ECLS GOALS AND PARAMETERS DEFAULT QUICK REFERENCE

ECLS Flow

VA – Neonate 120-150 ml/kg/min

VA – Pediatric 80ml/kg/min VV – 80-100ml/kg/min

ACT 180-220 seconds

HCT ≤ 30

Platelets ≤ 50,000 mm³

Lactate ≥ 2 or increasing

SvO2 ≤ 75%

Fibrinogen ≤ 1.5 g/L

Anti-thrombin ≤ 0.5 unit

Plasma free Hb ≥ 0.5 g/L

Urine ≤ 1cc/kg/hr

Bleeding if $\geq 5 \text{cc/kg/hr}$

Unfractionated

Heparin

0.3 to $0.7 \mu g/ml$

Antithrombin (AT) dosing when a patient is on ECLS:

a. Dose calculation - Aim to correct to 120%:

Administered dose (units) = (120 – actual level as a percentage) * weight (kg) / 1.4 Sample for a measured level of 0.4 in a 4 kg baby:

Prescribed dose = (120-40)*4/1.4 = 230 units

- b. Give over 3 hours
- c. Heparin infusion decreased by 25% at <u>initiation of AT infusion</u> minimum heparin infusion rate of 10u/kg/hr.
- d. Monitor ACT's every 30 minutes until back within ordered range.