

# UED CODE ECMO PROCESS and MD RESPONSIBILITIES

## Inclusion Criteria for CODE ECMO

- Age <65
- No End Stage/Chronic Illness
- No known severe neurologic disability, poor baseline functional status
- No severe/uncontrollable bleeding
- Arrest IN ED, or EN ROUTE TO ED
  - <5 min NO FLOW TIME, <20 min TOTAL ARREST TIME
- Never in Asystole

**CALL 6-3266 OR OPERATOR TO PAGE OUT CODE ECMO, GIVE PATIENT LOCATION (UED RESUS BAY) AND CALLBACK NUMBER**

## ED ATTENDING RESPONSIBILITIES

1. PAGE CODE ECMO
2. DISCUSS CASE WITH ECMO ATTENDING, INTERFACE WITH ECMO TEAM ON ARRIVAL
3. MOVE PATIENT TO RESUS
4. INSTRUCT RESIDENT TO SECURE AIRWAY (IF NOT ALREADY SECURED) WHILE YOU RUN CODE
5. CONFIRM GOOD VASCULAR ACCESS
6. CONFIRM LUCAS DEVICE IN PLACE
7. SEND ECMO LABS (\*\*order set in process)
  - a. LACTIC ACID
  - b. ABG/VBG
  - c. COAGS
  - d. T&S
8. ENSURE HIGH QUALITY ACLS
  - a. NO LYTICS, everything else OK
9. ONCE CANNULATION HAS STARTED:
  - a. CONTINUOUS COMPRESSIONS, NO FURTHER PULSE CHECKS
    - i. PAUSE ONLY AS NEEDED FOR CANNULATION
  - b. NO FURTHER EPINEPHRINE
  - c. NO FURTHER SHOCKS
  - d. ALL OTHER DRUGS OK AS INDICATED
10. ADMINISTER 5000U IV HEPARIN ONCE WIRES ARE IN PLACE
11. HANG ALBUMIN UNLESS CONTRAINDICATED

## ED RESIDENT RESPONSIBILITIES

1. ESTABLISH AIRWAY (ETT PREFERRED)
2. MOVE TO PATIENT'S LEFT SIDE
  - a. ASSIST WITH ULTRASOUND OPERATION
  - b. ONCE VASCULAR ACCESS ESTABLISHED SWITCH TO CARDIAC PROBE, SUBCOSTAL VIEW
    - i. VISUALIZE WIRE IN IVC AS IT'S BEING ADVANCED
    - ii. VISUALIZE WIRE IN AORTA (OR NO SECOND WIRE IN IVC) AS IT'S BEING ADVANCED
3. CONSIDER CVL (IJ PREFERRED) IF FEASIBLE
4. PLACE R RADIAL A-LINE WHEN FEASIBLE

## **POST INITIATION OF ECMO**

1. ATTEMPT DEFIBRILLATION (if in shockable rhythm)
2. CXR
3. EKG
4. PAN-SCAN
5. CONSIDER CATH LAB FOR SUSPECTED ACUTE CORONARY OCCLUSION, THROMBECTOMY FOR SUSPECTED PTE
6. VENTILATOR TO MINIMAL SETTINGS
7. GENERAL POST ARREST CARE
  - a. Fluids, vasopressors, blood, abx, etc... as indicated
8. ADMIT TO APPROPRIATE UNIT