

PREARRIVAL TASKS

- ☐ **DECLUTTER:** Clear Resus 1 (if possible) & remove unnecessary equipment
- ☐ Assign ED roles – lanyards
- ☐ **CROWD CONTROL:** All non-essential people to leave resus
- ☐ Move ECMO Equipment trolley to foot of bed
- ☐ **TOE** in position: **right** side of patient & **Ultrasound** **left** side of patient
- ☐ Drugs ready- ACLS drugs and sedation
- ☐ **BRIEF** team

PHASE 1: PRE-CANNULATION

(Arrival to Drapes)

STOP CRITERIA ADDRESSED

- ☐ > 70 years old
- ☐ Unwitnessed arrest
- ☐ > 2 mins without BLS
- ☐ > 45 mins since initial arrest
- ☐ Initial rhythm asystole
- ☐ Organ failure or malignancy

If patient meets any of
these criteria: NO ECMO

Patient preparation

- ☐ Patient transferred from Ambulance trolley, commence prepping
- ☐ Start wall **TIMER**
- ☐ Establish **QUIET** and **CORDON** (signage, tape)
- ☐ Lead **RESUSCITATION**
- ☐ Monitoring applied (sats probe on right hand)
- ☐ Ensure secure airway and TOE inserted
- ☐ **CONFIRM** with TOE operator **LUCAS** in **CORRECT POSITION**
- ☐ Large bore IV access and arterial line inserted
- ☐ Circulation nurse prepares: adrenaline, sedation, paralysis and heparin PRN

PHASE 2: CANNULATION

(Drapes to ECMO Flow)

- ☐ **“ANNOUNCE change from standard ALS to e-CPR ALS”**
- ☐ Continuous LUCAS/CPR unless directed by team leader – Note EtCO₂
 - ☐ **NO charge of defib**
 - ☐ **NO administration of adrenaline**- unless directed by ED Team leader
- ☐ 5000 Units of **IV Heparin** - (usually when wires go in)
- ☐ LUCAS to be stopped momentarily whilst vessels being accessed

PHASE 3: On ECMO

(ECMO flows achieved)

- ☐ Pause LUCAS. Recheck rhythm
 - ☐ If VF/VT ☐ **defibrillation: provide 3 stacked shocks 200J**
- ☐ Post ECMO check:
 - ☐ Airway:
 - ☐ Check tube position, note ETCO₂
 - ☐ NG tube placed and suctioned
 - ☐ Breathing
 - ☐ Ventilation settings
 - ☐ Circulation
 - ☐ **12 lead ECG**
 - ☐ Right radial arterial line BP
 - ☐ Vasopressors/Inotropes: to maintain ejection by ICU
 - ☐ Disability
 - ☐ Sedation/Analgesia and paralysis
 - ☐ Exposure
 - ☐ Check temp – ensure temp not > 36°C
- ☐ Determine final **Disposition**