

Team Leader

Respiratory

Airway Doctor/
TEE

US

Role

- ECPR Inclusion/Exclusion (back of card)
- Setup Room
- Allocate roles (with ECPR team/P1)

Pre-ECPR Phase

1. Standard ACLS
2. Apply LUCAS (no ventilator)
3. Expose groin, stop LUCAS (max 1 min) during needle for femoral A/V access
4. Contact Cardiology/CT Surgery (if ECPR pt)

ECPR Phase

1. "Cannulation phase, NO more defibrillation"
2. NO CXR or additional procedures
3. Guidewire insertion & confirmation
4. Stop resuscitation if NOT on ECMO with adequate flow by 60 minutes after initial arrest.

CPR

Meds

P1
Arterial

P2
Venous

Scribe

ECMO
Circuit
Perfusion

Code/ECMO
Cart

Code/Team
Leader

Code Leader

Respiratory

Airway Doctor

US

Role

- ECPR Inclusion/Exclusion (back of card)
- Setup Room
- Check role allocation

Clinical

1. Check CPR quality (EtCO₂, DBP>20, TEE)
2. Confirm Lucas placement
3. Check ventilation rate
4. Run ACLS

CPR

Meds

P1
Arterial

P2
Venous

Scribe

Code Cart

Code/Team
Leader

ECPR Inclusion criteria:

- Age < 75
- Witnessed arrest or CPR within 5 minutes
- High quality ACLS for 20 minutes
- ETCO₂ >10mmHg

ECPR Relative exclusion:

- Active malignancy with estimated survival <1 yr
- Severe peripheral vascular disease
- Chronic respiratory failure (COPD on home O₂)
- Advanced chronic liver disease
- Acute aortic dissection
- Severe aortic valve regurgitation
- Current intracranial hemorrhage
- Witnessed CPR > 60 min (in the absence of ROSC)

E-CPR cards

1. Team Leader
2. Code Leader
3. Cannulator 1 – Arterial cannulation, venous assist
4. Cannulator 2 – Venous cannulation, arterial assist
5. Sonographer - prepare U/S machine, confirm guidewire position
6. Perfusion - prepare ECMO circuit
7. Resus RN/Meds

ACLS cards

- | | |
|-------------------------|----------------|
| 1. Team/Code Leader | 9. Sonographer |
| 2. Airway doctor | 10. Scribe |
| 3. Respiratory | 11. Pharmacy |
| 4. CPR 1 | |
| 5. CPR 2 | |
| 6. Resus RN/Meds | |
| 7. P1 (arterial access) | |
| 8. P2 (venous access) | |

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| 8. P2 (venous access) | |

Scribe



Sonographer

US

Role

- Cardiac activity eval
- Procedural assist

Procedure

1. Prepare ultrasound machine
2. Assist in applying sterile US sleeve
3. Assess cardiac function

P2
CVC

P1
a-line

Code Cart

Team
Leader

Scribe



Pharmacy



**Resus
Nurse**

P1: A-Line Access

US

Role

- Remove clothes (left side)
- Place IO access (if necessary)
- Perform US guided femoral a-line
- Assist P2 with femoral venous line

Procedure

1. Open 20g femoral a-line kit or if ECPR candidate 16g catheter kit.
2. Sterile prep left femoral area
3. Identify SFA and CFA
4. Perform US guided femoral arterial access in CFA

P2

P1
A-line

Code Cart

Code/Team
Leader

P2: Venous Access

US

Role

- Remove clothes (right side)
- Assist P1 with arterial access
- Perform venous CVC insertion

Procedure

1. Choose resuscitation line or Triple lumen CVC
2. Open Femoral CVC box
3. Sterile prep groin
4. Prepare US probe in sleeve
5. Identify CFV
6. Perform US guided CVC access after arterial line placed.

P2

P1
arterial

Code Cart

Code/Team
Leader



CPR 2

- Place patient on monitor
- Prepare LUCAS



Meds Resus Nurse

Airway / TEE

Respiratory

Airway Doctor

US

Role

- Confirm airway if already in place with VL
- If no airway, set up airway box, suction, BVM
- Intubate patient if no ROSC after 10-15 min
- Manage TEE with Team Leader if able

Clinical

1. Confirm airway with EtCO₂
2. RR < 12 breaths/min
3. Insert TEE probe once airway protected
4. Obtain mid-esophageal 4-chamber view
5. Confirm CPR adequacy

CPR

Meds

P1
Arterial

P2
Venous

Scribe

Code Cart

Code/Team
Leader

CPR 1
- Compressions (2 min)
- FSG