ECLS ECPR Addendum Form Extracorporeal Life Support Organization (ELSO)

Unique ID:

Run Number:

(Note: Unique ID is self-generated by the Registry. This is for your reference only to match forms)

Definition

ECPR is the application of rapid-deployment VA ECMO to provide circulatory support in patients in whom conventional cardiopulmonary resuscitation (CPR) is unsuccessful in achieving sustained return of spontaneous circulation (ROSC). Sustained ROSC is deemed to have occurred when chest compressions are not required for 20 consecutive minutes and signs of circulation persist.

Please refer to the ELSO Registry ECPR Addenda Data Definitions for specific details regarding the fields collected.

| Pre-Cardiopulmonary Arrest Precipitating Event | | | | | |
|--|--|--|--|--|--|
| Cardiac Non-Cardiac Unknown | | | | | |
| Antecedent Event (Present up to 4 hours before Arrest) | | | | | |
| Cardiac: 🗌 Ventricular Dysfunction 🔲 Vasoplegia 🗌 Cardiac Tamponade 🔲 Obstructive Shock 🔲 Arrhythmia | | | | | |
| Non Cardiac: 🛛 Hypoxemia 🔲 Hypercarbia/Respiratory Acidosis 🗌 Pulmonary Hemorrhage 🔲 Pneumothorax | | | | | |
| Neurological: D Impending Herniation Syndrome | | | | | |
| Toxic/Metabolic: 🗆 Metabolic Acidosis | | | | | |
| None Unknown | | | | | |
| Co-Morbid Conditions (Present up to 24 hours before Arrest) | | | | | |
| Cardiac: 🗌 ACS 🗌 CHD-Acyanotic 🗌 CHD-Cyanotic 🗌 CHF 🗌 CV Shock 🗌 Tamponade 🔲 Arrhythmia 🗌 PHN 🗌 PE | | | | | |
| Pulmonary: 🔲 Critical Airway Emergency 🗌 Mediastinal Mass 🔲 Obstructive Airways Disease 🔲 Lung Disease | | | | | |
| Neurological: 🗌 CNS-Non Stoke 🔲 Ischemic Stroke 🗌 Hemorrhagic Stroke 🔲 Spinal Cord Injury | | | | | |
| Toxic/Metabolic: 🔲 Chronic Renal Failure 🔲 Intoxication/Ingestion 🔲 Vitamin/Electrolyte Abnormality | | | | | |
| Infectious: Distributive Shock Deptic Shock | | | | | |
| Other: 🔲 Hemorrhage or Hypovolemic Shock 🔲 Major Trauma 🔲 Pregnancy/Delivery | | | | | |
| None Unknown | | | | | |
| Cardiopulmonary Arrest Event | | | | | |
| Location of Arrest: Out of Hospital [] (Select Site) Location of Arrest: In Hospital [] (Select Site) | | | | | |
| Home Public Place Ambulatory Medical Care Ambulatory/Outpatient ED Inpatient Ward | | | | | |
| Ambulance Transport Other HDU/Stepdown ICU (specify) Control to the provide the section of the section | | | | | |
| EMS On-Site? Bystander CPR? Bystander AED Use? Cath Lab Interventional Radiology OR PACU Delivery Room Other | | | | | |
| Witnessed Arrest?: Yes No Unknown Date/Time: | | | | | |
| | | | | | |

| Management of Cardiopulmo | onary Arrest | t | | | |
|---|---|---|---|--|--|
| Date/Time CPR Commenced: | | | Total CPR Time Prior to ECLS: minutes | | |
| Multiple Arrests during prior 24 | hours? | Yes 🗌 No | | | |
| ROSC at any time after CPR a | nd prior to E(| CLS? 🗌 Ye | es 🗌 No | | |
| Did the patient have a pulse at | the time of c | annulation? | Yes No | | |
| Compression Method Used and | d Time: | | | | |
| Standard for minutes | | | | | |
| Automatic Compressor for minutes | | | | | |
| Open Chest CPR for min | nutes | | | | |
| | | | | | |
| Initial Pulseless Rhythm: Asy | | Iseless Electric | | | |
| Ventricular Tachycardia - no puls | e 🗌 Unki | nown – Shocka | able 🗌 Unknown – Non Shockable | | |
| | | _ | | | |
| DC Cardioversion or Defibrillati | | | ber of Shocks: Unknown | | |
| | | | lectrical Activity 🔲 High Degree AV Block 🔲 Sinus Rhythm | | |
| | | | ular Fibrillation 🔲 Ventricular Tachycardia - no pulse 🗌 Unknown | | |
| Medications During Arrest: | Epinephrine – N | lumber of Dose | es Vasopressin – Number of Doses | | |
| Adenosine Amiodarone [| Atropine | Calcium Cho | oride/Gluconate 🗌 Dobutamine 🗌 Dopamine 🔲 Flumazenil | | |
| 🗌 Glucagon 🔲 Glucose 🗌 Lid | locaine 🗌 Ma | agnesium |] Milrinone 🗌 Naloxone 🗌 Norepinephrine | | |
| 🗌 Procainamide 🔲 Phenylephrine 🔲 Sodium Bicarbonate 🗌 No Medications | | | | | |
| Cardiac Pacing During CPA: 🔲 Temporary Cardiac Pacing 🗌 No Attempt at Pacing 🗌 Unknown | | | | | |
| 🗌 Transcutaneous 🔄 Transvenous 📄 Epicardial 📄 PPM In Situ | | | | | |
| Circulation: Quality of CPR | | | | | |
| End tidal CO2 Monitoring | 🗌 Yes | 🗌 No | ETCO2 closest to ECLS Flow Start: | | |
| Invasive Arterial Access | 🗌 Yes | 🗌 No | DPB closest to ECLS Flow Start: | | |
| Cerebral NIRS | 🗌 Yes | 🗌 No | NIRS closest to ECLS Flow Start: | | |
| CPR Feedback Device | 🗌 Yes | | | | |
| | | 🗌 No | Rate of compressions Delivered: | | |
| Signs of Life prior to ECLS | 🗌 Yes | | Rate of compressions Delivered: No, was neuromuscular blockade in use: | | |
| Signs of Life prior to ECLS Cannulation and Circuit Deta | | | | | |
| | ails | □ No If | | | |
| Cannulation and Circuit Deta Location of Cannulation: Out of H | a ils Hospital 🗌 (S | □ No If I Select Site) | No, was neuromuscular blockade in use: Yes No | | |
| Cannulation and Circuit Deta Location of Cannulation: Out of H | a ils Hospital | □ No If I Select Site) | No, was neuromuscular blockade in use: Yes No Location of Cannulation: In Hospital (Select Site) Ambulatory/Outpatient ED Inpatient Ward HDU/Stepdown ICU (specify) | | |
| Cannulation and Circuit Deta Location of Cannulation: Out of Home Home | a ils Hospital | □ No If I Select Site) | No, was neuromuscular blockade in use: Yes No Location of Cannulation: In Hospital (Select Site) Ambulatory/Outpatient ED Inpatient Ward HDU/Stepdown ICU (specify) | | |
| Cannulation and Circuit Deta Location of Cannulation: Out of Home Home | a ils Hospital | □ No If I Select Site) | No, was neuromuscular blockade in use: Yes No Location of Cannulation: In Hospital (Select Site) Ambulatory/Outpatient ED Inpatient Ward HDU/Stepdown ICU (specify) | | |
| Cannulation and Circuit Deta Location of Cannulation: Out of H Home Public Place Ambulance/Transport Other | ails Hospital [] (S] Ambulatory M r | □ No If I Select Site) Iedical Care | No, was neuromuscular blockade in use: Yes No Location of Cannulation: In Hospital (Select Site) Ambulatory/Outpatient ED Inpatient Ward HDU/Stepdown ICU (specify) Cath Lab Interventional Radiology OR PACU Delivery Room Other | | |
| Cannulation and Circuit Deta Location of Cannulation: Out of Home Home | ails Hospital (S Ambulatory M r | □ No If I Select Site) Iedical Care | No, was neuromuscular blockade in use: Yes No Location of Cannulation: In Hospital (Select Site) Ambulatory/Outpatient ED Inpatient Ward HDU/Stepdown ICU (specify) Cath Lab Interventional Radiology OR PACU Delivery Room Other | | |

| Early Post ECPR Management (Within 24 hours of cannulation) | | | | | |
|---|--------------------------------|-----------------------|--|--|--|
| Neurology: EEG Monitoring: standard continuous Intracranial Imaging: Cranial US CT No neurologic investigations post-ECPR | | | | | |
| Temp Management: 🔲 Targeted 32-34°C 🗌 Targeted normothermia 36-37.5°C 🗌 Targeted 32-36°C | | | | | |
| □ No Target □ Unknown | | | | | |
| Highest Temp in first 24 hours | Lowest Temp in first 24 hours: | | | | |
| □ < 32 °C □ 32-<34°C □ 34-<35°C □ 35-<36°C | | □ 32-<34°C □ 34-<35°C | | | |
| □ 36-37.5°C □ 37.6-38.5°C □ >38.5°C □ Unknown | ☐ 35-<36°C ☐ 36-37.5°C | ☐ 37.6-38.5°C | | | |
| First Blood Gas Post ECPR (Closest to intiation or | < 6 hours post initiatior | ו) | | | |
| Patient Arterial Blood Gas Post ECPR: Yes |] No | | | | |
| Date/Time: | | | | | |
| pH: pCO ₂ : pO ₂ : HCO ₃ : _ | SaO ₂ : | Lactate | | | |
| | | Lactate Unknown | | | |
| | | | | | |
| Venous Blood Gas (please select the box if only VBC | <mark>is available)</mark> | | | | |
| Date/Time: | | | | | |
| pH: pCO ₂ : pO ₂ : HCO ₃ : _ | SaO ₂ : | Lactate | | | |
| Post ECPR Review | | | | | |
| Was a debriefing held by the inter-disciplinary team Post ECPR: 🗌 No 🗌 Yes | | | | | |
| If yes, in what timeframe? 🗌 within 24 hours | | | | | |
| \Box If > 24 hours was it within 1 month? | | | | | |
| ☐ If > 1 month was it within 3 months? | | | | | |
| Neurological Assessment at Discharge | | | | | |
| Did the patient have a functional performance assessment by Cerebral Performance Category (CPC) for patients >18yo; or by Pediatric Cerebral Performance Category for patients < 18 yo? | | | | | |
| | | | | | |
| | ategory for patients < 18 | | | | |