# **ECLS Cardiac Addendum Form** Extracorporeal Life Support Organization (ELSO)

### Cardiac Addendum ID:

Run Number: \_\_\_\_\_

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

Please refer to the ELSO Registry Cardiac Addenda Data Definitions (link to definition) for specific details regarding the fields collected.

### Cardiac Pre-ECLS Assessment

### Cardiac Symptoms Pre-ECMO

- \*NYHA or Ross Category (at hospital admission) (If ≥18 yrs then NYHA; If<18 yrs then Ross)
- \*SCAI Category (at hospital admission) Or □ Unknown

\_\_\_\_\_\*SCAI Category (immediately pre-ECMO) Or 🗆 Unknown

\_\_\_\_\_ Vasoactive Inotrope Score (4hrs prior to ECMO Cannulation)

### \*Pre-ECLS Cardiac Catheterization

Did the patient have a cardiac ca	theterization prior to ECMO:   Yes	🗆 No 🛛 Unknown
Date://	Time::	

ndication for Cath:	□ Diagnostic Only	□ Diagnostic and Interventional	□ Interventional Only
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### Purpose Diagnostic Cath (check all that apply):

□ Left Heart Cath □ Right Heart Cath □ Coronary Arteries Dilation or stent

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#### \*Coronary Intervention - artery balloon dilation or stent: (Mandatory only for adult congenital patients)

Left Main Coronary Artery (LMCA)
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- Left Anterior Descending (LAD)
- □ Right Coronary Artery (RCA)
- Circumflex Artery
- Diagonal Artery
- □ Posterior Descending Artery (PDA)

### Interventions Performed (check all that apply):

- Aortic Arch Balloon
- Aortic Arch Stent
- □ Aortic Valvuloplasty
- ASD Device Closure
- Atrial Septostomy/ Septoplasty/ Stent
- □ Creation of Potts Shunt
- □ Creation of Fontan Fenestration

Endomyocardial Biopsy
EP Arrhythmia Ablation
Mitral Clip
Occlusion of Aortopulmonary Collateral
Occlusion of Venous Collateral
PDA Device Closure
Percutaneous/Transcatheter Aortic Valve Implantation (TAVI)
Percutaneous Mitral Valve Clip
Percutaneous Mitral Valve Implantation
Percutaneous Pulmonic Valve Implantation
Placement for a right sided Impella device
Placement for a transaortic Impella device
Percutaneous of a Tandem Heart
$\square$ Placement of EKOS catheter or other direct thrombolytic catheters for Thrombus in Pulmonary Artery
Placement of IVC or SVC Stent
Placement of LA Cannula
Placement of MBTS Stent
Placement of PDA Stent
Placement of RV-PA Stent (incl sano)
Placement of Venous Stent (vertical vein, azygous, hemi-azygous)
Pulmonary Artery Balloon
Pulmonary Artery Stent
Pulmonary Valvuloplasty
Removal/aspiration of Thrombus in Pulmonary Artery
Removal/ Aspiration of Thrombus in Systemic Vein (including Glenn and Fontan)
SVC Balloon Dilation
Trans Myocardial Revascularization (TMR)
Transcatheter Mitral Valve Implantation
Transcatheter Pulmonic Valve Implantation
Transcatheter Tricuspid Valve Implantation
□ VSD Device Closure
Other:
Cardiac ECLS Indications

## \*Circumstances of ECMO Cannulation (select all that apply):

- $\hfill \Box$  Failure to Wean from CPB
- Emergent (ECPR or Fail to Salvage)
- Progression of Critical Illness Despite Established VAD/ Temporary Mechanical Circulatory Support / IABP Type of temporary or durable device: \_\_\_\_\_\_

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Date of implantation prior to ECMO: \_\_\_\_/\_\_\_\_/

### \*Precipitating Event (check predominant problem only ONE):

Low Cardiac Output: Left Ventricular Fail
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Low Cardiac Output: Right or Biventricular Failure

Low Cardiac Output: Not Specified

Combined Cardiac and Respiratory Failure

Cardiac Arrest: ECPR

🗌 Unknown

## \*Contributing Diagnoses within 4 hours prior to the precipitating event (check at least one):

$\Box$ Pulmonary Arterial Hypertension (mean PA pressure > 20 mmHg in the setting of normal LA pressure) $\Box$ Secondary Pulmonary Hypertension (mean PA pressure > 20 mmHg)		
$\Box$ Secondary Pulmonary Hypertension (mean PA pressure > 20 mmHg)		
Pulmonary Embolism (confirmed by imaging)		
$\Box$ Hypoxemia (persistent SpO <sub>2</sub> <60% leading to cannulation)		
□ Tamponade		
Low Cardiac Output – Left, Right or Biventricular Failure		
Post-Cardiotomy		
Arrhythmias		
<ul> <li>Acute Myocardial Infarction (or Acute Coronary Syndrome)</li> <li>Time from Onset of Chest Pain to Hospital Presentation: minutes</li> <li>Time from Presentation to Hospital to ECMO: minutes</li> </ul>		
$\Box$ Post Heart Transplant Graft Failure (if checked, select one below)		
Early graft failure < 24 hours or ECMO within 48 hours If early graft failure, list ischemic time: hours		
Late Graft Failure		
Unknown transplant date		
Ischemic Cardiomyopathy		
Chronic Heart failure (acute on chronic)		
$\square$ Non-Ischemic Cardiomyopathy (if checked, select type below that best represents)		
Dilated cardiomyopathy		
Hypertrophic Cardiomyopathy		
Restrictive Cardiomyopathy		
Stress Induced Cardiomyopathy (Takotsubo)		
Post-Partum Cardiomyopathy		
□ Other		
Myocarditis (proven or suspected)		
□ None Identified		

### Cannulation Details

### \*Cannulation Location (choose one of the following):

- General inpatient Ward
- High Dependency Unit (HDU)/ Step Down Unit/ Intermediate Care Unit

□ Intensive Care Setting (Check one below):

- Adult Medicine ICU
- Adult Surgical ICU
- □ Mixed ICU
- Adult Cardiac or Cardiothoracic Unit (CICU/CVICU/CTICU)
- Adult Coronary Care Unit (CCU)
- Pediatric Intensive Care Unit (PICU)
- Pediatric Cardiac Intensive Care Unit (CICU)
- □ Neonatal Intensive Care Unit (NICU)

### $\Box$ Cardiac Catheterization Lab

- Diagnostic or Intervention Suite (other than Cardiac Cath Lab)
- □ Operating Room
- Post-Anesthesia Recovery Unit (PACU)
- Delivery Room
- □ Other Inpatient Setting

### LV Decompression Procedures (select all that apply) and add date of procedure, if known:

- □ Atrial Septostomy
- LA Vent
- 🗌 LV Vent
- 🗌 PA Vent
- □ Intra-Aortic Balloon Pump
- Transaortic Valve impella
- L-VAD
- 🗆 R-VAD
- □ Other

#### Rationale for Decompression on ECLS (select one):

- □ Institutional Routine
- Progressive Pulmonary Edema on CXR
- □ Lack of Native Ejection
- Decreased Pulse Pressure on Arterial Waveform
- Evidence of Ischemia
- 🗌 Other

Cardiac Surgical Procedures

### \*Was there a cardiac procedure during the admission: $\Box$ Yes $\Box$ No

### Type (Check all that apply):

□ Surgical Procedure at Bedside

- $\Box$  Surgical Procedure in OR
- □ Cardiac Catheterization Procedure

🗌 None

□ Other: \_\_\_\_\_

### \*Did the patient have a surgical intervention during this admission: Yes No

If yes, please include the following for INDEX procedure. See ELSO cardiac procedure list in supporting documents):

ELSO Cardiac Procedure Code:		
Date:// Time::		
Cardiac surgery on CPB:  Ves No		
CPB Runs Total: runs		
Cross clamp time: minutes		
CPB time: minutes Returned to ICU with open sternum:		
Duplicate this page as required for multiple changes		
Cardiac Catheterization		
Did the patient have a cardiac catheterization during, or after ECMO de-cannulation?  Yes INO		
#1 During ECLS:  or After ECMO de-cannulation:		
Date/, Time: Type of procedure:  Diagnostic Diagnostic/Interventional Interventional Only		
Purpose: 🗌 Left Heart Cath 🔲 Right Heart Cath 🔲 Coronary Arteries		
#2 During ECLS: 🗆 or After ECMO de-cannulation: 🗆		
Date, Time: Type of procedure: Diagnostic Diagnostic/Interventional Diagnostic/Interventional Only		
Purpose: 🗌 Left Heart Cath 🔲 Right Heart Cath 🔲 Coronary Arteries		
#3 During ECLS:  O or After ECMO de-cannulation:		
Date, Time: Type of procedure: Diagnostic Diagnostic/Interventional Diagnostic/Interventional Only		
Purpose:  Left Heart Cath  Right Heart Cath  Coronary Arteries		
Purpose for Interventional (check all that apply):		
Atrial Septostomy/ Septoplasty/ Stent		
Placement of LA Cannula		
Placement of MBTS Stent		

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□ Placement of RV-PA	Stent (incl sano)
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Placement of PDA Stent

Aortic Valvuloplasty

Pulmonary Valvuloplasty

Aortic Arch Balloon

Aortic Arch Stent

Pulmonary Artery Balloon

Pulmonary Artery Stent

Transcatheter Aortic Valve Implantation (TAVI)

Percutaneous Mitral Valve Clip

Percutaneous Mitral Valve Implantation

□ Occlusion of Aortopulmonary Collateral

Occlusion of Venous Collateral

□ Removal/ Aspiration of Thrombus in Systemic Vein (including Glenn)

SVC Balloon Dilation

Trans Myocardial Revascularization (TMR)

□ Transcatheter Mitral Clip

□ Transcatheter Mitral Valve Implantation

□ Transcatheter Pulmonic Valve Implantation

□ Transcatheter Tricuspid Valve Implantation

□ Placement of IVC or SVC Stent

□ Placement of Venous Stent (vertical vein, azygous, hemi-azygous)

Endomyocardial Biopsy

ASD Device Closure

□ VSD Device Closure

DA Device Closure

Creation of Potts Shunt

EP Arrhythmia Ablation

Other

\*Coronary Intervention - artery balloon dilation or stent: (Mandatory only for adult congenital patients)

🛛 Left main

Left Anterior Descending (LAD)

□ Right Coronary Artery

Circumflex

Diagonal

Posterior Descending Artery (PDA)

\*Mandatory fields if "Coronary Arteries" selected for Diagnostic/Interventional or Interventional

Duplicate this page as required for multiple changes

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