# Medtronic

# Extracorporeal membrane oxygenation (ECMO)

2025 reimbursement reference guide

### Inpatient payment

The MS-DRG shown reflect possible MS-DRG assignments based on the procedural coding submitted.

#### **Definitions:**

- Veno-arterial ECMO: ECMO cannulation is done percutaneously via the peripheral vasculature system (e.g., femoral artery/vein). A venous cannula is placed in the right or left femoral vein for drainage and right or left femoral artery for infusion.
- Veno-venous ECMO: ECMO cannulation is done percutaneously via the peripheral vasculature system (e.g., femoral artery/vein). A venous cannula is placed in the right or left femoral vein for drainage and right or left femoral vein for infusion.
- Central ECMO: ECMO cannulation is done by open exposure via the central vasculature system (e.g., ascending aorta); usually achieved through a sternotomy.

## Hospital coding and payment

ECMO is reimbursed as an inpatient-only procedure.

ECMO duration	MS-DRG	MS-DRG description	FY2025 Medicare National Unadjusted Payment <sup>1</sup> (Eff. Oct. 1, 2024 to Sept. 30, 2025)
Continuous ECMO	003	ECMO or Trach with MV > 96 hrs or PDX exc. Face, mouth, and neck with Maj O.R.	\$152,947
Intraoperative ECMO†	Varies	Reimbursed as part of the principal surgical procedure MS-DRG	Varies

<sup>†</sup> Intraoperative use of ECMO is billed to capture services where ECMO is used during a procedure for intraprocedural support where the patient is only on ECMO for the duration of the procedure.

**ECMO reimbursement:** Reimbursement for the ECMO supplies (e.g., cannulae, oxygenator) is encompassed in the major procedures (e.g., extracorporeal membrane oxygenation, heart valve procedure, or CABG) in which the supplies are used.

#### Inpatient coding: ICD-10 PCS codes

Please refer to clinical documentation for appropriate ICD-10 PCS code selection.

Type of ECMO	ICD-10 PCS procedure code <sup>1</sup>	ICD-10 PCS code description <sup>1</sup>				
Continuous ECMO is used as life support by providing continual oxygenation to organs and tissues in patients with cardiopulmonary insufficiency.						
Central ECMO	5A1522F	Extracorporeal Oxygenation, Membrane, Central				
Veno-arterial extracorporeal membrane oxygenation (VA-ECMO)	5A1522G	Extracorporeal Oxygenation, Membrane, Peripheral Veno-arterial				
Veno-venous extracorporeal membrane oxygenation (VV-ECMO)	5A1522H	Extracorporeal Oxygenation, Membrane, Peripheral Veno-venous				
<b>Intraoperative ECMO</b> is used for circulatory support during an open duration of the procedure.	rative episode, e.g., i	in the OR or cardiac catheterization lab, only for the				
Intraoperative ECMO, Central	5A15A2F	Extracorporeal Oxygenation, Membrane, Central, Intraoperative				
Intraoperative VA-ECMO	5A15A2G	Extracorporeal Oxygenation, Membrane, Peripheral Veno-arterial, Intraoperative				
Intraoperative VV-ECMO	5A15A2H	Extracorporeal Oxygenation, Membrane, Peripheral Veno-venous, Intraoperative				

#### **HCPCS** coding (C-codes)

- There are no C-codes for ECMO supplies.
- The ECMO procedure is reimbursed as an inpatient-only procedure.

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#### Physician coding and payment

- There are multiple physician codes associated with the ECMO procedure that describe ECMO initiation, ECMO continuation, patient age, insertion site, removal, and repositioning of cannula.
- Refer to the CPT code book for guidelines on these codes.

CPT code	Description	2025 Medicare National Unadjusted Amount <sup>2</sup>	2025 work RVUs <sup>2</sup>	2025 total facility RVUs <sup>2</sup>		
Procedures involving extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician						
Initiation						
33946	ECMO/ECLS initiation veno-venous	\$294	6.0	9.1		
33947	ECMO/ECLS initiation veno-arterial	\$326	6.63	10.09		
Note: Initiation encompasses daily management and repositioning of cannulae. They may not be coded or reported separately by the same or						

**Note:** Initiation encompasses daily management and repositioning of cannulae. They may not be coded or reported separately by the same or a different physician on the same day as initiation.

Daily management					
33948	ECMO/ECLS, daily management, each day, veno-venous	\$228	4.73	7.04	
33949	ECMO/ECLS, daily management, each day, veno-arterial	\$222	4.6	6.87	

Note: Daily overall management may be coded and reported separately from E/M codes.

Insertion of cannulae				
33951	ECMO/ECLS, insertion peripheral cannula(e), percutaneous, birth-5 years	\$401	8.15	12.39
33952	ECMO/ECLS, insertion peripheral cannula(e), percutaneous, 6+ years	\$405	8.15	12.51
33953	ECMO/ECLS, insertion peripheral cannula(e), open, birth-5 years	\$447	9.11	13.82
33954	ECMO/ECLS, insertion peripheral cannula(e), open, 6+ years	\$452	9.11	13.98
33955	ECMO/ECLS, insertion central cannula(e) by sternotomy/thoracotomy, birth-5 years	\$781	16.0	24.15
33956	ECMO/ECLS, insertion central cannula(e), by sternotomy/thoracotomy, 6+ years	\$791	16.0	24.46

Note: Replacement of cannulae in the same vessel is coded and reported using the insertion codes only.

Repositioning of cannulae					
33957	ECMO/ECLS, reposition peripheral cannula(e), percutaneous, birth-5 years	\$175	3.51	5.4	
33958	ECMO/ECLS, reposition peripheral cannula(e), percutaneous, 6+ years	\$175	3.51	5.4	
33959	ECMO/ECLS, reposition peripheral cannula(e), open, birth-5 years	\$222	4.47	6.85	
33962	ECMO/ECLS, reposition peripheral cannula(e), open, 6+ years	\$222	4.47	6.85	
33963	ECMO/ECLS, reposition central cannula(e) by sternotomy/thoracotomy, birth-5 years	\$441	9.0	13.64	
33964	ECMO/ECLS, reposition central cannula(e) by sternotomy/thoracotomy, 6+ years	\$465	9.5	14.38	

**Note:** The repositioning codes include fluoroscopic guidance. Repositioning may not be coded or reported separately when performed at the same session as cannulae insertion.

Removal of cannulae					
33965	ECMO/ECLS, removal peripheral cannula(e), percutaneous, birth-5 years	\$175	3.51	5.4	
33966	ECMO/ECLS, removal peripheral cannula(e), percutaneous, 6+ years	\$225	4.5	6.95	
33969	ECMO/ECLS, removal peripheral cannula(e), open, birth-5 years	\$257	5.22	7.94	
33984	ECMO/ECLS, removal peripheral cannula(e), open, 6+ years	\$269	5.46	8.33	
33985	ECMO/ECLS, removal central cannula(e) by sternotomy/thoracotomy, birth-5 years	\$484	9.89	14.97	
33986	ECMO/ECLS, removal central cannula(e) by sternotomy/thoracotomy, 6+ years	\$498	10.0	15.41	

Note: In cannulae replacement, removal can be coded separately with insertion if they involve two different vessels.

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1. FY 2025 IPPS Final Rule Home Page, Centers for Medicare & Medicaid Services, Available at: https://www.cms.gov/medicare/payment/ prospective-payment-systems/acute-inpatient-pps/fy-2025-ipps-final-rule-home-page. Accessed on December 3, 2024. 2. CY 2025 payment was calculated with the Conversion Factor (CF) of\$32.3465. CMS CY 2025 Medicare Physician Fee Schedule Final Rule. Available at: https://www.federalregister.gov/public-inspection/2024-25382/medicare-and-medicaid-programs-calendar-year-2025-paymentpolicies-under-the-physician-fee-schedule. Accessed on November 24, 2024. CMS may make adjustments to any or all of the data inputs from time to time without notice.

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