

MECHANICAL CIRCULATORY SUPPORT (MCS)

LEFT VENTRICULAR ASSIST DEVICE (LVAD), (HEARTMATE II[™] OR HEARTMATE 3[™] (LVADS), ACUTE MCS (CENTRIMAG[™] PUMPS)

Effective October 1, 2024

REFERENCES

SEE IMPORTANT SAFETY INFORMATION REFERENCED WITHIN



MECHANICAL CIRCULATORY SUPPORT (MCS)

Effective October 1, 2024

INTRODUCTION

The Mechanical Circulatory Support (MCS) Coding Guide is intended to provide coding and reimbursement information for providers regarding the implantable HeartMate II[™] Left Ventricular Assist Device (LVAD), HeartMate 3[™] LVAD and the CentriMag[™] acute circulatory support system including the CentriMag[™] pump and the PediMag[™] pump procedures.

REIMBURSEMENT HOTLINE

In addition, Abbott offers a reimbursement hotline, which provides live coding and reimbursement information from dedicated reimbursement specialists. Coding and reimbursement support is available from 8 a.m. to 5 p.m. Central Time, Monday through Friday at (855) 569-6430 or hce@abbott.com. This guide and all supporting documents are available https://www.cardiovascular.abbott/us/en/ hcp/reimbursement/hf.html. Coding and reimbursement assistance is provided subject to the disclaimers set forth in this guide.

DISCLAIMER

This material and the information contained herein is for general information purposes only and is not intended, and does not constitute, legal, reimbursement, business, clinical, or other advice. Furthermore, it is not intended to and does not constitute a representation or guarantee of reimbursement, payment, or charge, or that reimbursement or other payment will be received. It is not intended to increase or maximize payment by any payer. Abbott makes no express or implied warranty or guarantee that the list of codes and narratives in this document is complete or error-free. Similarly, nothing in this document should be viewed as instructions for selecting any particular code, and Abbott does not advocate or warrant the appropriateness of the use of any particular code. The ultimate responsibility for coding and obtaining payment/ reimbursement remains with the customer. This includes the responsibility for accuracy and veracity of all coding and claims submitted to third-party payers. In addition, the customer should note that laws, regulations, and coverage policies are complex and are updated frequently and is subject to change without notice. The customer should check with its local carriers or intermediaries often and should consult with legal counsel or a financial, coding, or reimbursement specialist for any questions related to coding, billing, reimbursement, or any related issues. This material reproduces information for reference purposes only. It is not provided or authorized for marketing use.



PHYSICIAN CODING HOSPITAL INPATIENT - OUTPATIENT LVAD REPLACEMENT SUPPLY CODES LVAD SUPPLY HCPCS CROSSWALK

LEFT VENTRICULAR ASSIST DEVICE (LVAD)

HEARTMATE IITM OR HEARTMATE 3TM LVADS

Effective October 1, 2024



ADDITIONAL CODES	
	ADDITIONAL CODES

PAGE 3 OF 18



PHYSICIAN¹

CPT [‡]	DESCRIPT
CODE	

Left Ventricular Assist Device (LVAD) Procedures

LVAD IMPLANT*

Insertion of ventricular assist device, implantable, intracor 33979

LVAD REMOVAL

Removal of ventricular assist device, implantable, intracor 33980

LVAD REPLACEMENT

	placement of ventricular assist device pump(s); implant rdiopulmonary bypass
XXVXX	placement of ventricular assist device pump(s); implant rdiopulmonary bypass

LVAD INTERROGATION**

Interrogation of ventricular assist device (VAD), in person, (e.g., drivelines, alarms, power surges), review of device fur 93750 status, recovery), with programming, if performed, and rep

* Please note that LVAD implant, removal, and replacement procedures are restricted by Medicare to the inpatient hospital site of service.

It is incumbent upon the physician to determine which, if any modifiers should be used first.

REFERENCES

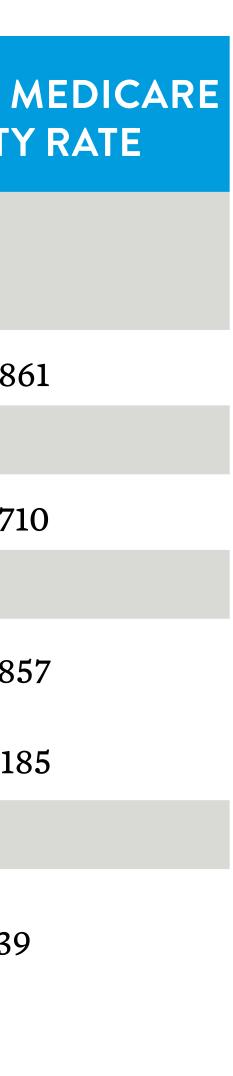
PHYSICIAN CODING | HOSPITAL INPATIENT - OUTPATIENT | LVAD REPLACEMENT SUPPLY CODES | LVAD SUPPLY HCPCS CROSSWALK | ADDITIONAL CODES

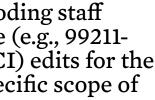
ON	WORK RVU	NATIONAL / FACILITY
orporeal, single ventricle	37.50	\$1,8
rporeal, single ventricle	33.50	\$1,72
table intracorporeal, single ventricle, without	37.86	\$1,8
table intracorporeal, single ventricle, with	44.54	\$2,13
n, with physician analysis of device parameters unction (e.g., flow and volume status, septum port	0.75	\$39

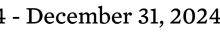
**Surgeons are able to bill for post implant visits and VAD interrogation starting the day after the VAD implantation, when documented appropriately, as there is a zero-day global period. Please consult your professional coding staff for documentation guidelines. This code is not reported with any of the surgical implantation codes (33975, 33976, 33976, 33981-33983), but is typically reported in conjunction with an evaluation and management visit code (e.g., 99211-99215) and is reimbursed in addition to the visit code. Documentation in the patient's chart must support both the level chosen for the visit as well as the VAD interrogation code. There are no Correct Coding Initiative (CCI) edits for the interrogation code. It can be billed once, per day, per patient, per specialty, if medical necessity is adequately documented. Nurse Practitioners should check both with their compliance department as well as their state-specific scope of

ACUTE MCS









PAGE 4 OF 18

services before independently billing for a VAD interrogation.



CODING AND REIMBURSEMENT FOR LVAD

HOSPITAL INPATIENT²

Effective Dates: October 1, 2024 - September 30, 2025

ICD-10-PCS DESCRIPTION

LEFT VENTRICULAR ASSIST DEVICE (LVAD) IMPLANT FOR HEARTMATE

Insertion of implantable heart assist system into heart 02HA0QZ

HOSPITAL OUTPATIENT⁸

Effective Dates: January 1, 2023 - December 31, 2023

CPT[‡] CODE

DESCRIPTION

LVAD INTERROGATION

Interrogation of ventricular assist device (VAD), in per analysis of device parameters (e.g., drivelines, alarms, power surges), review 93750 of device function (e.g., flow and volume status, septum status, recovery), with programming, if performed, and report

CMS restricts chronic and acute mechanical circulatory support procedures to the inpatient hospital site of service. Regardless of how many procedures are furnished, a single hospitalization receives a single MS-DRG payment. For Medicare beneficiaries, per CMS Program Transmittal 613, inpatient reimbursement for LVAD accessories and supplies is included in the MS-DRG payment to hospitals for the implant admission. Therefore, all accessories and supplies needed by LVAD patients during the inpatient stay and post-discharge at home should be included on the inpatient bill. Replacement accessories and supplies are payable in the physician office or hospital outpatient setting, and are not considered Durable Medical Equipment per CMS Program Transmittal 1159.

PHYSICIAN CODING | HOSPITAL INPATIENT - OUTPATIENT | LVAD REPLACEMENT SUPPLY CODES | LVAD SUPPLY HCPCS CROSSWALK | ADDITIONAL CODES

	TYPICAL MS-DRG ASSIGNMENT	NAT MEDIC
E II™ LVAD AND HEARTMA	TE 3™ LVAD	
rt, open approach	001 Heart transplant or implant of heart assist system with MCC 002 Heart transplant or implant of heart assist system without MCC	\$20 \$78
	APC	NAT MEDIC
erson, with physician		

5742



IONAL ARE RATE

00,461

78,427



\$92



LVAD REPLACEMENT SUPPLY AND ACCESSORY CODES⁴

HCPCS

DESCRIPTION

LVAD REPLACEMENT ACCESSORIES AN	D SUPPLIES -	HOSPITAL	OUTP/
---------------------------------	---------------------	----------	-------

	Q0477	Power module patient cable for use with electric or electric assist device, replacement only
	Q0478	Power adapter for use with electric or electric/pneumatic vehicle type
	Q0479	Power module for use with electric/pneumatic ventricular only
	Q0481	Microprocessor control unit for use with electric ventricul replacement only
	Q0483	Monitor/display module for use with electric ventricular as only
	Q0486	Monitor control cable for use with electric/pneumatic vent replacement only
(Q0489	Power pack base for use with electric/pneumatic ventricular replacement only
	Q0491	Emergency power source for use with electric/pneumatic v replacement only
	Q0495	Battery/power pack charger for use with electric or electric assist device, replacement only

*DMEPOS fee schedule is updated on a quarterly basis and providers are encouraged to check the most recent DMEPOS fee schedule on CMS's website. If you have a question on the most recent payment rates for your locality, please email VADReimbursement@abbott.com for more information. These HCPCS codes all have coverage and payment jurisdiction with the local Medicare Administrative Contractor (MAC); they do not have coverage and payment jurisdiction at the DMEMAC. The HCPCS codes listed above have a defined DMEPOS fee schedule payment rate with the exception of HCPCS Q0508 and Q0509 whose payment rate is based on individual consideration with the local Medicare contractor. HCPCS Q0508 and Q0509 will require an invoice and supporting documentation for payment consideration. The Medically Unlikely Edit (MUE) for HCPCS code Q0508 (usually reported for driveline stabilization systems) is "24" units for outpatient hospital providers. CMS is working to ensure the same MUE edit for Q0508 furnished by practitioners and we will provide an update when that becomes available. Q0509 is reported for anything provided for a Medicare patient who was not a Medicare beneficiary at the time of LVAD implant.

All items must have documentation of medical necessity for payment; if any item not under warranty is lost, stolen, or damaged prior to one year post discharge, the-RA modifier should be used.

LVAD REPLACEMENT SUPPLY CODES | LVAD SUPPLY HCPCS CROSSWALK | ADDITIONAL CODES PAGE1 ■ PAGE2

MEDICALLY UNLIKELY EDIT	DME SCH NATIC
G*	
1	
1	
1	\$2
1	\$
1	\$2
1	
1	\$
1	\$
1	\$
	G*

ACUTE MCS

POS FEE HEDULE ONAL AVG

\$910 \$216 \$14,071 \$17,131

522,104

\$345

\$19,163

\$1,303

\$4,924

PAGE 6 OF 18

CODING AND REIMBURSEMENT FOR LVAD

LVAD REPLACEMENT SUPPLY CODES⁴

HCPCS

DESCRIPTION

LVAD REPLACEMENT ACCESSORIES AND SUPPLIES - HOSPITAL OUTPA

Q0496	Battery, other than lithium-ion, for use with electric or elec assist device, replacement only
Q0497	Battery clips for use with electric or electric/pneumatic vere replacement only
Q0498	Holster for use with electric or electric/pneumatic ventric replacement only
Q0499	Belt/vest/bag for use to carry external peripheral compone assist device, replacement only
Q0501	Shower cover for use with electric or electric/pneumatic ventricular assist device, replacement only
Q0506	Lithium Ion battery for use with electric or electric/pneum device, replacement only
Q0508	Miscellaneous supply or accessory for use with any implan device
Q0509	Miscellaneous supply or accessory for use with implanted which payment was not made under Medicare Part A

*DMEPOS fee schedule is updated on a quarterly basis and providers are encouraged to check the most recent DMEPOS fee schedule on CMS's website. If you have a question on the most recent payment rates for your locality, please email VADReimbursement@abbott.com for more information. These HCPCS codes all have coverage and payment jurisdiction with the local Medicare Administrative Contractor (MAC); they do not have coverage and payment jurisdiction at the DMEMAC. The HCPCS codes listed above have a defined DMEPOS fee schedule payment rate with the exception of HCPCS Q0508 and Q0509 whose payment rate is based on individual consideration with the local Medicare contractor. HCPCS Q0508 and Q0509 will require an invoice and supporting documentation for payment consideration. The Medically Unlikely Edit (MUE) for HCPCS code Q0508 (usually reported for driveline stabilization systems) is "24" units for outpatient hospital providers. CMS is working to ensure the same MUE edit for Q0508 furnished by practitioners and we will provide an update when that becomes available. Q0509 is reported for anything provided for a Medicare patient who was not a Medicare beneficiary at the time of LVAD implant.

All items must have documentation of medical necessity for payment; if any item not under warranty is lost, stolen, or damaged prior to one year post discharge, the-RA modifier should be used.

LVAD REPLACEMENT SUPPLY CODES | LVAD SUPPLY HCPCS CROSSWALK | ADDITIONAL CODES PAGE1 ■ PAGE2

	MEDICALLY	DME SCH
	UNLIKELY EDIT	NATIO
ATIENT OR PHYSICIAN OFFICE SETT	'ING*	
ctric/pneumatic ventricular	1: physician's office 8: outpatient hospital	\$
entricular assist device,	2	Ç Y
cular assist device,	1	4
ents of any type ventricular	1	
	1	\$
natic ventricular assist	8	\$
nted ventricular assist	4: physician's office 24: outpatient hospital	Paid o
ventricular assist device for	2	Paid o

POS FEE **IEDULE DNALAVG**

\$1,767

\$552

\$606

\$197

\$602

\$1,007

on invoice

on invoice

PAGE 7 OF 18



CODING AND REIMBURSEMENT FOR LVAD

HEARTMATE II^M LVAD AND HEARTMATE 3^M LVAD SUPPLY AND ACCESSORY HCPCS CROSSWALK³

HEARTMATE II [™] LVAD	HEARTMATE 3 TM LVAD	DESCRIP
PART NUMBERS		
106762	106531US	Pocket Cor
106128	106128	Backup Bar
107754	107754	Mobile Pov
1340	1340	Power Mod
103426	103426	Power Mod
1286	1286	Display Mo
2865	2865	14V Batter
2465	2465	14V Batteri
104229, 30, 31	104229, 30, 31	HeartMate
104232	104232	HeartMate
104234	104234	HeartMate
1440	1440	Universal I

PHYSICIAN CODING | HOSPITAL INPATIENT - OUTPATIENT | LVAD REPLACEMENT SUPPLY CODES | LVAD SUPPLY HCPCS CROSSWALK | ADDITIONAL CODES PAGE1 ■ PAGE2

TION

ontroller including emergency back-up battery
attery for (11v) (for controller)
ower Unit™
odule
odule Patient Cable
Iodule
ry Clips (set of 2)
ries (set of 4)
e™ LVAD Holster Vest, (small, medium, large)
e™ LVAD Shower Bag
e™ LVAD Battery Holster
Battery Charger (UBC)

HCPCS

Q0481 Q0506 Q0479 Q0479 Q0477 Q0483 Q0497 Q0506 Q0498 Q0501 Q0498 Q0495

PAGE 8 OF 18



CODING AND REIMBURSEMENT FOR LVAD

HEARTMATE II^M LVAD AND HEARTMATE 3^M LVAD SUPPLY AND ACCESSORY HCPCS CROSSWALK³

HEARTMATE II [™] LVAD	HEARTMATE 3 TM LVAD	DESCRI
PART NUMBERS		
 1260	1260	HeartMa
 100760	NA	HeartMa
104233	104233	ΤΤοονέδασ
106449	106449	– HeartMa
NA	NA	Driveline

PHYSICIAN CODING | HOSPITAL INPATIENT - OUTPATIENT | LVAD REPLACEMENT SUPPLY CODES | LVAD SUPPLY HCPCS CROSSWALK | ADDITIONAL CODES PAGE1 ■ PAGE2

IPTION

late[™] LVAD Travel Bag

[ate II[™] LVAD Stabilization Belts

[ate[™] LVAD Consolidated Bag, (right, left)

ne Management System (e.g., dressings)



HCPCS

Q0508

Q0508

Q0499

Q0508

ICD-10-CM DIAGNOSIS CODES⁵

Diagnosis codes are used by both hospitals and physicians to document the medical necessity of the procedure. For Mechanical Circulatory Support patients, there are many possible diagnosis code scenarios and a wide variety of possible combinations. The limited diagnosis list is not meant to be an exhaustive representation of the diagnosis options for the procedure. It is always the responsibility of health care providers to choose the most appropriate diagnosis code(s) representative of the patient's clinical condition. The customer should check with their local carriers or intermediaries and should consult with legal counsel or a financial, coding or reimbursement specialist for coding, reimbursement or billing questions related to ICD-10-CM diagnosis codes.

ICD-10-CM DESCRIPTION

ICD CODES THAT MAY APPLY

I23.0 - I23.9	Certain current complications following ST elevatio (STEMI) and non-ST elevation (NSTEMI) myocard infarction (within the 28 day period)
I50.1 - I50.9	Heart failure
I97.0	Postcardiotomy syndrome
 I97.110	Postprocedural cardiac insufficiency following cardi surgery
I97.120	Postprocedural cardiac arrest following cardiac surg
I97.130	Postprocedural heart failure following cardiac surge

PHYSICIAN CODING | HOSPITAL INPATIENT - OUTPATIENT | LVAD REPLACEMENT SUPPLY CODES | LVAD SUPPLY HCPCS CROSSWALK | ADDITIONAL CODES

	ICD-10CM	DESCRIPTION
	ICD CODES THA	AT MAY APPLY
on lial	I97.190	Other postprocedural cardiac functional disturbar following cardiac surgery
	R57.0	Cardiogenic shock
	T82.897	Other specified complication of cardiac prosthetic implants and grafts
iac	T86.298	Other complications of heart transplant
gery	Z76.82	Awaiting organ transplant status (awaiting heart t
ery	Z95.811	Presence of heart assist device

ACUTE MCS

DIAGNOSIS ■ HM[™]3 LVAD

inces

c devices.

transplant)

PAGE 10 OF 18

COVERAGE FOR HEARTMATE 3[™] LVAD

The HeartMate 3TM Left Ventricular Assist System is indicated for providing short- and long-term mechanical circulatory support (e.g., as bridge to transplant or myocardial recovery, or destination therapy) in adult and pediatric patients with advanced refractory left ventricular heart failure and with an appropriate body surface area.

On December 1, 2020, the Centers for Medicare and Medicaid Services (CMS) finalized NCD 20.9.1 for Ventricular Assist Devices (VADs) to remove the pre-implant designations (bridge-to-transplant and destination therapy) in favor of one central criteria for qualification of VAD candidacy for the purposes of coverage and payment. The patient criteria leverage the clinical evidence supported by the MOMENTUM 3 clinical trial. Specifically, the patient criteria for VAD coverage are the following:

- Have New York Heart Association (NYHA) Class IV heart failure; and
- Have a left ventricular ejection fraction (LVEF) \leq 25%; and
- Are inotrope dependent OR

have a Cardiac Index (CI) < 2.2 L/min/m2, while not on inotropes, and also meet one of the following: • Are on optimal medical management (OMM), based on current heart failure practice guidelines for at least 45 out of the last 60 days and are failing to

- respond; or
- support for at least 7 days.

The facility requirements of NCD 20.9.1 remain the same, and facilities performing VAD implants for short or long-term mechanical circulatory support need to have accreditation from an approved CMS certifying body and maintain an appropriate multi-disciplinary team to support VAD procedures.

NCD 20.9.1 that reflect the updated changes as of December 1, 2020 is effective for dates of service on and after December 1, 2020.

To access the full NCD 20.9.1 updated on December 1, 2020 and the associated CMS analysis, please click here.

Most commercial payer policies reflect similar guidance as the Medicare NCD, but it is important that providers and institutions check their payer policies and seek prior authorization to ensure appropriate adherence to their LVAD coverage criteria especially in light of the December 1, 2020 NCD update. Medicare Advantage Plans are required to align with the coverage criteria in NCD 20.9.1 based on the latest December 1, 2020 update.

PHYSICIAN CODING | HOSPITAL INPATIENT - OUTPATIENT | LVAD REPLACEMENT SUPPLY CODES | LVAD SUPPLY HCPCS CROSSWALK | ADDITIONAL CODES

• Have advanced heart failure for at least 14 days and are dependent on an intra-aortic balloon pump (IABP) or similar temporary mechanical circulatory

ACUTE MCS

DIAGNOSIS ■ HM[™]3 LVAD

PAGE 11 OF 18



ACUTE MECHANICAL CIRCULATORY SUPPORT

Effective October 1, 2024





PHYSICIAN CODING HOSPITAL INPATIENT ADDITIONAL CODES

SEE IMPORTANT SAFETY INFORMATION REFERENCED WITHIN

PAGE 12 OF 18

CODING AND REIMBURSEMENT FOR ACUTE MCS PROCEDURES

PHYSICIAN¹

CPT [‡] CODE	DESCRIPTION
ACUTE N	ACS SYSTEM IMPLANT
33975	Insertion of ventricular assist device; extracorporeal, single
33976	Insertion of ventricular assist device; extracorporeal, biven
ACUTE N	ACS SYSTEM REMOVAL
33977	Removal of ventricular assist device; extracorporeal, single
33978	Removal of ventricular assist device; extracorporeal, biven
ACUTE /	MCS SYSTEM REPLACEMENT
33981	Replacement of extracorporeal ventricular assist device; size each pump

The CPT[‡] codes above describe possible surgeon services in the hospital inpatient setting where the Acute MCS system procedure (e.g., CentriMag[™] Pumps) occurs. These services are restricted to the inpatient hospital site of service.

PMA approval for 30-day use of CentriMag[™] System components include: CentriMag[™] Pump, CentriMag[™] Console, CentriMag[™] Motor, Mag Monitor, flow probe, and CentriMag[™] Drainage Cannula and CentriMag[™] Return Cannula. Optional accessories include: CentriMag[™] System Cart, CentriMag[™] System Transporter and Pressure Transducer. PMA approval for 30-day use of CentriMag[™] System excludes: PediMag[™] Blood Pump.

It is incumbent upon the physician to determine which, if any modifiers should be used first.

HOSPITAL INPATIENT PHYSICIAN CODING

	WORK RVU	NATIONAL MEDICA FACILITY
le ventricle	25.00	\$1,249
ntricular	30.75	\$1,508
e ventricle	20.86	\$1,078
ntricular	25.00	\$1,270
ingle or biventricular, pump(s), single or	16.11	\$790

Effective Dates: January 1, 2024- December 31, 2024

ACUTE MCS

ADDITIONAL CODES

ARE RATE

PAGE 13 OF 18



CODING AND REIMBURSEMENT FOR ACUTE MCS PROCEDURES

HOSPITAL INPATIENT² EXTERNAL ASSIST DEVICE SHORT-TERM HEART ASSIST SYSTEM

ICD-10 PCS CODE⁴

DESCRIPTIO

CHOOSE THE APPROPRIATE ICD-10 PROCEDURE CODE BASED ON CL

Insertion of Short-term External Heart Assist System in 02HA0RZ*

CHOOSE THE APPROPRIATE ICD-10 PROCEDURE CODE BASED ON DU

Assistance with cardiac output using other pump, inter-5A02116

Assistance with cardiac output using other pump, continuous 5A02216

*The CentrimagTM Blood Pump is listed as a Short term external heart assist system in the heart and great vessels in the 2024 ICD-10 PCS code set under Appendix C: Device Key. It is important to document and code the CentrimagTM Acute Circulatory Support System as an external heart assist device with the appropriate approach, even if other concomitant procedures are performed.

According to the CMS manuals, the transferring hospital receives a per diem, prorated from the expected MS-DRG. The per diem is derived from the MS-DRG's average length of stay when the transferring facility submits a claim to Medicare with the discharge status code of 02, "discharged/transferred to another short term general hospital for inpatient care." The geometric mean length of stay (LOS) and arithmetic mean LOS in FY2024 for MS-DRG 215 are 5.0 and 9.0 days, respectively.

The second hospital can expect full MS-DRG payment, even if the MS-DRG assignment turns out to be different from the transferring hospital. Hospital-specific factors-such as an ownership relations between the transferring and receiving hospital-could affect payment.

Refer to the CMS Hospital Manual language on "Transfers" in Chapter 3 Section 40.2.4 of the CMS Claims Processing Manual.

PHYSICIAN CODING HOSPITAL INPATIENT PAGE1 ■ PAGE2

DN	TYPICAL MS-DRG ASSIGNMENT	NATIONA MEDICARE R
INICAL TYPE		
into Heart, Open Approach		
URATION OR SUPPORT TYPE	001 w/MCC	\$200,461
rmittent	002 w/o MCC	\$78,427
tinuous		

Effective Dates: October 1, 2024 - September 30, 2025





ADDITIONAL CODES

ACUTE MCS



CODING AND REIMBURSEMENT FOR ACUTE MECHANICAL CIRCULATORY SUPPORT SYSTEM

HOSPITAL INPATIENT²

INTRAOPERATIVE SHORT-TERM EXTERNAL HEART ASSIST SYSTEM*

ICD-10 PCS CODE ⁴	DESCRIPTION	USE OF CARDIAC CATHETERIZATION	TYPICAL MS-DRG ASSIGNMENT	NAT MEDIC
CHOOSE THE APP	ROPRIATE ICD-10 PROCEDURE CODE BASED ON APPROACH AND SUPPORT TYPE			
CHOOSE THE A	APPROPRIATE ICD-10 PROCEDURE CODE BASED ON APPROACH TYPE		216 w/MCC	\$68
	Insertion of Short-term External Heart Assist System in Heart	Yes	217 w/CC	\$4:
02HA0RJ*	and Great Vessels, Intraoperative, Open Approach		218 w/out CC/MCC	\$42
CHOOSE THE	APPROPRIATE ICD-10 PROCEDURE CODE BASED ON SUPPORT TYPE			
5A02116	Assistance with cardiac output using other pump, intermittent		219 w/MCC	\$55
5A02216	Assistance with cardiac output using other pump, continuous	No	220 w/CC	\$32
			221 w/out MCC	\$32

ICD-10 PCS CODE ⁴	DESCRIPTION	USE OF CARDIAC CATHETERIZATION	TYPICAL MS-DRG ASSIGNMENT	NAT MEDIC
CHOOSE THE APP	PROPRIATE ICD-10 PROCEDURE CODE BASED ON APPROACH AND SUPPORT TYPE			
CHOOSE THE /	APPROPRIATE ICD-10 PROCEDURE CODE BASED ON APPROACH TYPE		216 w/MCC	\$6
	Insertion of Short-term External Heart Assist System in Heart	Yes	217 w/CC	C \$4:
02HA0RJ*	and Great Vessels, Intraoperative, Open Approach		218 w/out CC/MCC	\$42
CHOOSE THE	E APPROPRIATE ICD-10 PROCEDURE CODE BASED ON SUPPORT TYPE			
5A02116	Assistance with cardiac output using other pump, intermittent		219 w/MCC	\$5
	No 220 w/ CC		220 w/ CC	\$3
5A02216	Assistance with cardiac output using other pump, continuous		221 w/out MCC	\$3.

*The qualifier "intraoperative" was added effective October 1, 2017 (FY 2018) to the procedure codes describing the insertion of short-term external heart assist system procedures to distinguish between procedures where the device was only used intraoperatively and was removed at the conclusion of the procedure versus procedures where the device was not removed at the conclusion of the procedure and for which that qualifier would not be reported."

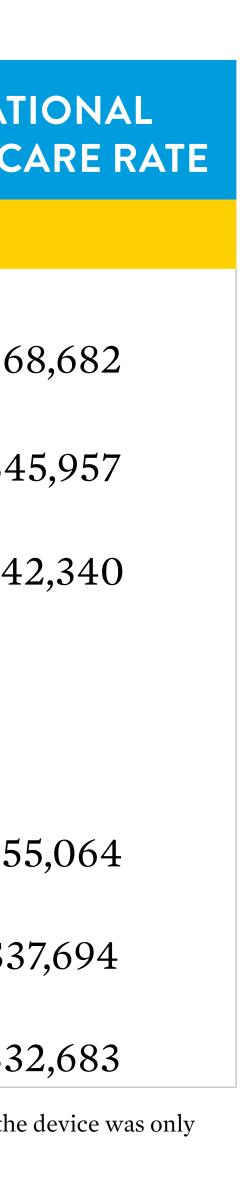
Insertion approach and Support type do not take into consideration the utilization of cardiac catheterization. Cardiac Catheterization should be separately coded as appropriate and supported by the clinical documentation.

PHYSICIAN CODING HOSPITAL INPATIENT PAGE1 ■ PAGE2

Effective Dates: October 1, 2024 - September 30, 2025



ADDITIONAL CODES



PAGE 15 OF 18

CODING AND REIMBURSEMENT FOR ACUTE MCS PROCEDURES

ICD-10-CM DIAGNOSIS CODES⁵

Diagnosis codes are used by both hospitals and physicians to document the medical necessity of the procedure. For Mechanical Circulatory Support patients, there are many possible diagnosis code scenarios and a wide variety of possible combinations. The limited list represented below is not meant to be an exhaustive representation of diagnosis options for the procedure. It is always the responsibility of health care providers to choose the most appropriate diagnosis code(s) representative of the patients' clinical condition. The customer should check with their local carriers or intermediaries and should consult with legal counsel or a financial, coding or reimbursement specialist for coding, reimbursement or billing questions related to ICD-10-CM diagnosis codes.

	ICD-10-CM	DESCRIPTION
ICD CODES THAT MAY APPLY		AT MAY APPLY
	I23.0 - I23.9	Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocard infarction (within the 28 day period)
	I50.1 - I50.9	Heart failure
	I97.0	Postcardiotomy syndrome
	I97.110	Postprocedural cardiac insufficiency following cardissurgery
	I97.120	Postprocedural cardiac arrest following cardiac surg
	I97.130	Postprocedural heart failure following cardiac surge

PMA approval for 30-day use of CentriMag[™] System components include: CentriMag[™] Pump, CentriMag[™] Console, CentriMag[™] Motor, Mag Monitor, flow probe, and CentriMag[™] Drainage Cannula and CentriMag[™] Return Cannula. Optional accessories include: CentriMag[™] System Cart, CentriMag[™] System Transporter and Pressure Transducer. PMA approval for 30-day use of CentriMag[™] System excludes: PediMag[™] Blood Pump.

ADDITIONAL CODES PHYSICIAN CODING HOSPITAL INPATIENT

	ICD-10-CM	DESCRIPTION
	ICD CODES THA	T MAY APPLY
on lial	I97.190	Other postprocedural cardiac functional disturba following cardiac surgery
	R57.0	Cardiogenic shock
	T82.897	Other specified complication of cardiac prosthet implants and grafts
iac	T86.298	Other complications of heart transplant
gery	Z76.82	Awaiting organ transplant status (awaiting heart
ery	Z95.811	Presence of heart assist device



ances

etic devices,

t transplant)

PAGE 16 OF 18



IMPORTANT SAFETY INFORMATION

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

HeartMate 3[™] LVAS Indications: The HeartMate 3[™] Left Ventricular Assist System is indicated for providing short- and long-term mechanical circulatory support (e.g., as bridge to transplant or myocardial recovery, or destination therapy) in adult and pediatric patients with advanced refractory left ventricular heart failure and with an appropriate body surface area.

HeartMate II[™] LVAS Indications: The HeartMate II[™] Left Ventricular Assist System is indicated for use as a "bridge to transplantation" for cardiac transplant candidates who are at risk of imminent death from non-reversible left ventricle failure. It is also indicated for use in patients with New York Heart Association (NYHA) Class IIIB or IV end-stage left ventricular failure, who have received optimal medical therapy for at least 45 of the last 60 days, and who are not candidates for cardiac transplantation. The HeartMate II Left Ventricular Assist System is intended for use both inside and outside of the hospital, or for transportation of Left Ventricular Assist Device patients via ground ambulance, airplane, or helicopter.

HeartMate 3[™] and HeartMate II[™] LVAS Contraindications: The HeartMate 3 and HeartMate II Left Ventricular Assist Systems are contraindicated for patients who cannot tolerate, or who are allergic to, anticoagulation therapy.

HeartMate 3[™] and HeartMate II[™] LVAS Adverse Events: Adverse events that may be associated with the use of the HeartMate 3 or HeartMate II Left Ventricular Assist System are listed below: death, bleeding, cardiac arrhythmia, localized infection, right heart failure, respiratory failure, device malfunctions, driveline infection, renal dysfunction, sepsis, stroke, other neurological event (not stroke-related), hepatic dysfunction, psychiatric episode, venous thromboembolism, hypertension, arterial non-central nervous system (CNS) thromboembolism, pericardial fluid collection, pump pocket or pseudo pocket infection, myocardial infarction, wound dehiscence, hemolysis (not associated with suspected device thrombosis) and possible pump thrombosis.

IMPORTANT SAFETY INFORMATION

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

CentriMag™ Circulatory Support System Indications [PMA Approval; 30-day use]: Temporary circulatory support for up to 30 days for one or both sides of the heart to treat post-cardiotomy patients who fail to wean from cardiopulmonary bypass, providing a bridge to decision when it is unclear whether the patient's heart will recover or whether the patient will need alternative, longer-term therapy.

CentriMag[™] Circulatory Support System Contraindications [PMA Approval; 30-day use]: The CentriMag[™] Circulatory Support System is contraindicated for use as a cardiotomy suction device. The system is also contraindicated for patients who are unable or unwilling to be treated with an appropriate anticoagulant such as Heparin or a comparable alternative.

CentriMag™ Circulatory Support System Adverse Events [PMA Approval; 30-day use]: Adverse events that may be associated with mechanical circulatory support can include, but are not limited to, the following: bleeding on device support, hemolysis, infection, renal failure/dysfunction/complication, respiratory dysfunction, hepatic dysfunction, cardia arrhythmias (atrial or ventricular), thromboembolism (venous and arterial non-CNS), hypotension, hypertension, device malfunction or failure, psychiatric events, right heart failure, and death.

Humanitarian Device Statement: Caution: Humanitarian Device. The CentriMag Circulatory Support System is authorized by Federal Law for temporary circulatory support for up to 30 days for patients in cardiogenic shock due to right ventricular failure. The effectiveness of this device for this use has not been demonstrated.

CentriMag™ RVAS Indications [Humanitarian Exemption Device (HDE) Approval; 30-day use]: The CentriMag Circulatory Support System is intended to provide temporary circulatory support for up to 30 days for patients in cardiogenic shock due to acute right ventricular failure.

CentriMag™ RVAS Contraindications [Humanitarian Exemption Device (HDE) Approval; 30-day use]: The CentriMag Circulatory Support System is contraindicated for use as a cardiotomy suction device. The system is also contraindicated for patients who are unable or unwilling to be treated with an appropriate anticoagulant such as Heparin or a comparable alternative.

CentriMag™ Blood Pump with CentriMag™ Acute Circulatory Support System for ECMO Indications [ECMO, 510(k) Clearance; >6-hour use]: The CentriMag™ Blood Pump for use with CentriMag™ Acute Circulatory Support System (Motor, Monitor, Console, and Flow Probes) is indicated for controlling blood flow as part of an extracorporeal membrane oxygenation (ECMO) circuit. ECMO is intended to provide assisted extracorporeal circulation and physiologic gas exchange of the patients' blood for adult patients with acute respiratory failure and/or acute cardiopulmonary failure, where other available treatment options have failed, and continued clinical deterioration is expected or the risk of death is imminent.

CentriMag™ Blood Pump with CentriMag™ Acute Circulatory Support System for ECMO Contraindications [ECMO, 510(k) Clearance; >6-hour use]: The CentriMag[™] System is contraindicated for use as a cardiotomy suction device. The System is also contraindicated for patients who are unable or unwilling to be treated with an appropriate anticoagulant such as Heparin or a comparable alternative.

PediMag[™] **Blood Pump Indications for Use [510(k) Clearance; 6-hour use]:** The PediMag Blood Pump is indicated for use with the CentriMag Circulatory Support System console and motor to pump blood through the extracorporeal bypass circuit for extracorporeal circulatory support for periods appropriate to cardiopulmonary bypass (up to six hours) for surgical procedures such as mitral valve reoperation. It is also indicated for use in extracorporeal support systems (for periods up to six hours) **not requiring complete cardiopulmonary bypass (e.g. valvuloplasty, circulatory support during mitral valve reoperation, surgery of the vena cava or aorta, liver transplants etc.).**

PediMag™ Blood Pump Contraindications [510(k) Clearance; 6-hour use]: The PediMag Blood Pump is contraindicated for use as a cardiotomy suction device. The CentriMag Circulatory Support System is contraindicated for use as a cardiotomy suction device. The system is also contraindicated for patients who are unable or unwilling to be treated with an appropriate anticoagulant such as Heparin or a comparable alternative.

ACUTE MCS

Abbott

HEALTH ECONOMICS & REIMBURSEMENT

REFERENCES

- regulation-notices/cms-1784-f
- page
- HCPCS Release and Code Sets: https://www.cms.gov/medicare/coding/hcpcsreleasecodesets 3.
- DMEPOS Fee schedule 2024: https://www.cms.gov/medicare/payment/fee-schedules/dmepos/dmepos-fee-schedule/dme24 4.
- 2025 ICD-10-CM: https://www.cms.gov/medicare/coding-billing/icd-10-codes/2025-icd-10-cm 5.
- CMS Alpha-Numeric Index HCPS code set: https://www.cms.gov/Medicare/Coding/HCPCSReleaseCodeSets/Alpha-Numeric-HCPCS 6.
- 7. medicare-program-proposed-hospital-inpatient-prospective-payment-systems-for-acute-care-hospitals
- 8. outpatient/regulations-notices/cms-1786-fc
- 9. NCD 20.9.1 Ventricular Devices: https://www.cms.gov/medicare-coverage-database/view/ncd.aspx?NCDId=360
- 10. When to Bill and When Not to Bill, that is the Question Zero-Day Global Period: https://www.codapedia.com/articlePrint.cfm?id=2110
- 11. CMS Manual System Transmittal 1159: https://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/Downloads/R1159OTN.pdf
- 12. Medically Unlike Edits (MUEs) Home Page. U.S. Centers for Medicare and Medicaid Services. DME Supplier Services MUE Table: https://www.cms.gov/medicare/coding-billing/national-correct-coding-initiative-ncci-edits/medicare-ncci-medically-unlikely-edits

Information contained herein for **DISTRIBUTION** in the US ONLY.

Abbott

One St. Jude Medical Dr., St. Paul, MN 55117, USA, Tel: 1 651 756 2000

TM Indicates a trademark of the Abbott group of companies. *‡* Indicates a third party trademark, which is property of its respective owner.

www.cardiovascular.abbott

©2024 Abbott. All rights reserved. MAT-1901164 v12.0 | Item approved for U.S. use only.

REFERENCES

1. Physician Prospective Payment-Final rule with Comment Period and Final CY2024 Payment Rates. CMS-1784F: https://www.cms.gov/medicare-fee-service-payment/physicianfeesched/pfs-federal-

CMS_2025_Hospital Inpatient Prospective Payment-Final Rule Home Page CMS-1808-F: https://www.cms.gov/medicare/payment/prospective-payment-systems/acute-inpatient-pps/fy-2025-ipps-final-rule-home-

Federal Register_FY2024_Medicare Program; Hospital Inpatient Prospective Payment Systems for Acute Care Hospitals Proposed Rule: https://www.federalregister.gov/documents/2023/05/01/2023-07389/

Hospital Outpatient Prospective Payment-CY2024 Notice of Final Rulemaking with Comment Period (NFRM). CMS-1786-FC: https://www.cms.gov/medicare/payment/prospective-payment-systems/hospital-

ACUTE MCS

