

NCD:	20.9.1		
NCD Title:	Ventricular Assist Devices		
IOM:	http://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/downloads/ncd103c1_Part1.pdf		
NCD Link:	http://www.cms.gov/medicare-coverage-database/details/ncd-details.aspx?NCDId=360&ver=1		
ICD-9-CM		ICD-10 CM	ICD-10 DX Description
		I09.81	Rheumatic heart failure
		I11.0	Hypertensive heart disease with heart failure
	This dx code list/translation was approved by CMS/Coverage. It may or may not be a complete list of covered indications/dx codes for this NCD policy. As this policy indicates, individual A/B MACs within their jurisdictions have the discretion to cover additional indications/dx codes they deem reasonable and necessary under section 1862(a)(1)(A) of the Social Security Act.	I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
		I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease
		I20.0	Unstable angina
		I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery
		I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery
		I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall
		I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery
		I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall
		I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery
		I21.29	ST elevation (STEMI) myocardial infarction involving other sites
		I21.3	ST elevation (STEMI) myocardial infarction of unspecified site
		I21.4	Non-ST elevation (NSTEMI) myocardial infarction
		I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall
		I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall
		I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction
		I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites
		I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site
		I24.0	Acute coronary thrombosis not resulting in myocardial infarction
		I24.1	Dressler's syndrome
		I24.8	Other forms of acute ischemic heart disease
		I24.9	Acute ischemic heart disease, unspecified
		I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris
		I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris
		I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm
		I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris
		I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris
		I25.5	Ischemic cardiomyopathy
		I25.6	Silent myocardial ischemia
		I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris
		I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm

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		I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris
		I25.709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris
		I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris
		I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm
		I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris
		I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris
		I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris
		I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm
		I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris
		I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris
		I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris
		I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm
		I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris
		I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris
		I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina
		I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm
		I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris
		I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris
		I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina
		I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm
		I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris
		I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris
		I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris
		I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm
		I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris

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	I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris
	I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris
	I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris
	I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris
	I25.89	Other forms of chronic ischemic heart disease
	I25.9	Chronic ischemic heart disease, unspecified
	I34.0	Nonrheumatic mitral (valve) insufficiency
	I34.1	Nonrheumatic mitral (valve) prolapse
	I34.2	Nonrheumatic mitral (valve) stenosis
	I34.8	Other nonrheumatic mitral valve disorders
	I34.9	Nonrheumatic mitral valve disorder, unspecified
	I35.0	Nonrheumatic aortic (valve) stenosis
	I35.1	Nonrheumatic aortic (valve) insufficiency
	I35.2	Nonrheumatic aortic (valve) stenosis with insufficiency
	I35.8	Other nonrheumatic aortic valve disorders
	I35.9	Nonrheumatic aortic valve disorder, unspecified
	I36.0	Nonrheumatic tricuspid (valve) stenosis
	I36.1	Nonrheumatic tricuspid (valve) insufficiency
	I36.2	Nonrheumatic tricuspid (valve) stenosis with insufficiency
	I36.8	Other nonrheumatic tricuspid valve disorders
	I36.9	Nonrheumatic tricuspid valve disorder, unspecified
	I37.0	Nonrheumatic pulmonary valve stenosis
	I37.1	Nonrheumatic pulmonary valve insufficiency
	I37.2	Nonrheumatic pulmonary valve stenosis with insufficiency
	I37.8	Other nonrheumatic pulmonary valve disorders
	I37.9	Nonrheumatic pulmonary valve disorder, unspecified
	I38	Endocarditis, valve unspecified
	I39	Endocarditis and heart valve disorders in diseases classified elsewhere
	I42.0	Dilated cardiomyopathy
	I42.2	Other hypertrophic cardiomyopathy
	I42.3	Endomyocardial (eosinophilic) disease
	I42.4	Endocardial fibroelastosis
	I42.5	Other restrictive cardiomyopathy
	I42.6	Alcoholic cardiomyopathy
	I42.7	Cardiomyopathy due to drug and external agent
	I42.8	Other cardiomyopathies
	I42.9	Cardiomyopathy, unspecified
	I43	Cardiomyopathy in diseases classified elsewhere
	I46.2	Cardiac arrest due to underlying cardiac condition
	I46.8	Cardiac arrest due to other underlying condition
	I46.9	Cardiac arrest, cause unspecified
	I47.0	Re-entry ventricular arrhythmia
	I47.1	Supraventricular tachycardia
	I47.2	Ventricular tachycardia
	I47.9	Paroxysmal tachycardia, unspecified
	I48.0	Atrial fibrillation
	I48.1	Atrial flutter
	I49.01	Ventricular fibrillation

ICD-9-CM	ICD-10 CM	ICD-10 DX Description
	I49.02	Ventricular flutter
	I49.1	Atrial premature depolarization
	I49.2	Junctional premature depolarization
	I49.3	Ventricular premature depolarization
	I49.40	Unspecified premature depolarization
	I49.49	Other premature depolarization
	I49.5	Sick sinus syndrome
	I49.8	Other specified cardiac arrhythmias
	I49.9	Cardiac arrhythmia, unspecified
	I50.1	Left ventricular failure
	I50.20	Unspecified systolic (congestive) heart failure
	I50.21	Acute systolic (congestive) heart failure
	I50.22	Chronic systolic (congestive) heart failure
	I50.23	Acute on chronic systolic (congestive) heart failure
	I50.30	Unspecified diastolic (congestive) heart failure
	I50.31	Acute diastolic (congestive) heart failure
	I50.32	Chronic diastolic (congestive) heart failure
	I50.33	Acute on chronic diastolic (congestive) heart failure
	I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure
	I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure
	I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure
	I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
	I50.9	Heart failure, unspecified
	I51.4	Myocarditis, unspecified
	I51.9	Heart disease, unspecified
	I52	Other heart disorders in diseases classified elsewhere
	I97.0	Postcardiotomy syndrome
	I97.110	Postprocedural cardiac insufficiency following cardiac surgery
	I97.111	Postprocedural cardiac insufficiency following other surgery
	I97.120	Postprocedural cardiac arrest following cardiac surgery
	I97.121	Postprocedural cardiac arrest following other surgery
	I97.130	Postprocedural heart failure following cardiac surgery
	I97.131	Postprocedural heart failure following other surgery
	I97.190	Other postprocedural cardiac functional disturbances following cardiac surgery
	I97.191	Other postprocedural cardiac functional disturbances following other surgery
	I97.710	Intraoperative cardiac arrest during cardiac surgery
	I97.711	Intraoperative cardiac arrest during other surgery
	I97.790	Other intraoperative cardiac functional disturbances during cardiac surgery
	I97.791	Other intraoperative cardiac functional disturbances during other surgery
	I97.88	Other intraoperative complications of the circulatory system, not elsewhere classified
	I97.89	Other postprocedural complications and disorders of the circulatory system, not elsewhere classified
	M32.11	Endocarditis in systemic lupus erythematosus
	R00.1	Bradycardia, unspecified
	R57.0	Cardiogenic shock
	T82.221A	Breakdown (mechanical) of biological heart valve graft, initial encounter
	T82.222A	Displacement of biological heart valve graft, initial encounter
	T82.223A	Leakage of biological heart valve graft, initial encounter
	T82.228A	Other mechanical complication of biological heart valve graft, initial encounter

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	T82.512A	Breakdown (mechanical) of artificial heart, initial encounter
	T82.514A	Breakdown (mechanical) of infusion catheter, initial encounter
	T82.518A	Breakdown (mechanical) of other cardiac and vascular devices and implants, initial encounter
	T82.519A	Breakdown (mechanical) of unspecified cardiac and vascular devices and implants, initial encounter
	T82.522A	Displacement of artificial heart, initial encounter
	T82.524A	Displacement of infusion catheter, initial encounter
	T82.528A	Displacement of other cardiac and vascular devices and implants, initial encounter
	T82.529A	Displacement of unspecified cardiac and vascular devices and implants, initial encounter
	T82.532A	Leakage of artificial heart, initial encounter
	T82.534A	Leakage of infusion catheter, initial encounter
	T82.538A	Leakage of other cardiac and vascular devices and implants, initial encounter
	T82.539A	Leakage of unspecified cardiac and vascular devices and implants, initial encounter
	T82.592A	Other mechanical complication of artificial heart, initial encounter
	T82.594A	Other mechanical complication of infusion catheter, initial encounter
	T82.598A	Other mechanical complication of other cardiac and vascular devices and implants, initial encounter
	T82.599A	Other mechanical complication of unspecified cardiac and vascular devices and implants, initial encounter
	T86.20	Unspecified complication of heart transplant
	T86.21	Heart transplant rejection
	T86.22	Heart transplant failure
	T86.23	Heart transplant infection
	T86.290	Cardiac allograft vasculopathy
	T86.298	Other complications of heart transplant
	T86.30	Unspecified complication of heart-lung transplant
	T86.31	Heart-lung transplant rejection
	T86.32	Heart-lung transplant failure
	T86.33	Heart-lung transplant infection
	T86.39	Other complications of heart-lung transplant
	Z48.21	Encounter for aftercare following heart transplant
	Z48.280	Encounter for aftercare following heart-lung transplant
	Z94.1	Heart transplant status
	Z94.3	Heart and lungs transplant status
	Z95.9	Presence of cardiac and vascular implant and graft, unspecified

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ICD-9	ICD-9 Px Description	ICD-10 PCS	ICD-10 PCS Description
			VADs (NCD 20.9.1)
		02HA0QZ	Insertion of Implantable Heart Assist System into Heart, Open Approach
		02PA0QZ	Removal of Implantable Heart Assist System from Heart, Open Approach
		02WA0QZ	Revision of Implantable Heart Assist System in Heart, Open Approach

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Part A	Rule Description Part A	Proposed HCPCS/CPT Part A	Frequency Limitations	TOB (Part A)	Revenue Code Part A	Modifier Part A	Provider Specialty	MSN Message Part A	CARC Message Part A	RARC Message Part A
Part A	<p>A/MACs: Effective for services performed on or after 10/18/93, VADs used for support of blood circulation post-cardiotomy are covered only if they have received approval from the Food and Drug Administration (FDA) for that purpose, and the VADs are used according to the FDA-approved labeling instructions.</p> <p>A/MACs: Effective for services performed on or after 1/22/96, VADs used for bridge-to-transplant are covered only if they have received approval from the FDA for that purpose, and the VADs are used according to the FDA-approved labeling instructions. All of the criteria mentioned in NCD must be fulfilled in order for Medicare coverage to be provided for a VAD used as a bridge-to-transplant.</p> <p>A/MACs: Effective for services performed on or after 10/1/03 (facility criteria updated 10/30/13, patient selection criteria updated 11/9/10), VADs as destination therapy using the criteria described in NCD 20.9.1 are covered.</p> <p>NOTE: There might be other uses of VADs and Related Supplies besides those mentioned in NCD.</p>	N/A (see applicable ICD-10-PCS codes)	N/A	N/A	N/A	N/A	N/A	15.20	50	N386
Part A	<p>A/MACs shall reject all other indications for the use of VADs not otherwise listed as non-covered, except in the context of Category B investigational device exemption clinical trials (42 CFR 405) or as a routine cost in clinical trials defined under section 310.1 of the NCD Manual.</p> <p>NOTE: NCD does not address coverage of VADs for right ventricular support, biventricular support, use in patients under the age of 18, or use in patients with complex congenital heart disease and that coverage for items and services under section 1862(a)(1)(A) in these situations will be made by local MACs within their respective jurisdictions.</p>		N/A	N/A	N/A	N/A	N/A	15.20	50	N386

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Part B	Rule Description Part B	Proposed HCPCS/CPT Part B	Frequency Limitations	POS (Part B)	n/a	Modifier Part B	Provider Specialty	Proposed MSN Message Part B	Proposed CARC Message Part B	Proposed RARC Message Part B
Part B	<p>B/MACs: Effective for services performed on or after 10/18/93, VADs used for support of blood circulation post-cardiotomy are covered only if they have received approval from the FDA) for that purpose, and the VADs are used according to the FDA-approved labeling instructions.</p> <p>B/MACs: Effective for services performed on or after 1/22/96, VADs used for bridge-to-transplant are covered only if they have received approval from the FDA for that purpose, and the VADs are used according to the FDA-approved labeling instructions. All of the criteria mentioned in NCD must be fulfilled in order for Medicare coverage to be provided for a VAD used as a bridge-to-transplant.</p> <p>B/MACs: Effective for services performed on or after 10/1/03 (facility criteria effective 10/1/13, patient selection criteria updated 11/9/10), VADs as destination therapy using the criteria described in NCD 20.9.1 are covered.</p> <p>-NOTE: There might be other uses of VADs and Related Supplies besides those mentioned in NCD.</p> <p>Please refer to CR 7888 dated December 21, 2012 for further claim instructions regarding Q0508 & Q0509.</p>	<p>VADs=</p> <p>33979-33980;</p> <p>33982-33983</p> <p>VAD related supplies=</p> <p>Q0480-Q0506,</p> <p>Q0508 & Q0509</p>	N/A	N/A	N/A	N/A	N/A	15.20	50	N386
Part B	<p>B/MACs: Shall reject all other indications for the use of VADs not otherwise listed as non-covered, except in the context of Category B investigational device exemption clinical trials (42 CFR 405) or as a routine cost in clinical trials defined under section 310.1 of the NCD Manual.</p> <p>NOTE: NCD does not address coverage of VADs for right ventricular support, biventricular support, use in patients under the age of 18, or use in patients with complex congenital heart disease and that coverage for items and services under section 1862(a)(1)(A) in these situations will be made by local MACs within their respective jurisdictions.</p>		N/A	N/A	N/A	N/A	N/A	15.20	50	N386
Date		Revision History								

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10/07/2014	Removed congenital ICDs from ICD Dx tab as those are at contractor's discretion. Removed biventricular, percutaneous, external heart assist system /VADs related PCS and CPT codes as that is not the scope of this NCD. Removed invalid CPT codes-0048T, 0050T. Added new HCPCS Q0508 & Q0509 effective 4/1/2013. Updated date for facility criteria. Updated NCD link.								
02/07/2014	New spreadsheet created based on CR8803. Contractor discretion language added to dx code tab. Removed shared system responsibility.								