

# DRG Desk Reference

The ultimate resource for improving  
MS-DRG assignment practices

SAMPLE



2023

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## Diseases And Disorders Of The Circulatory System

### DRG 215 Other Heart Assist System Implant

RW 10.5584

#### Potential DRGs

001	Heart Transplant or Implant of Heart Assist System with MCC	28.9132
002	Heart Transplant or Implant of Heart Assist System without MCC	14.9701

DRG	PDx/SDx/Procedure	Tips
001	Insertion of implantable heart assist system or implantation of total internal biventricular heart replacement system	Review operative report carefully to determine extent of all procedures. Implantable ventricular assist devices are mechanical support devices attached to the native heart and can be internal or external.  A total artificial heart (TAH) is a surgically implantable biventricular support device that serves as a total replacement for both right and left ventricles of the failing heart. Both ICD-10-PCS procedure codes, 02RK0JZ Replacement of right ventricle with synthetic substitute, open approach, and 02RL0JZ Replacement of left ventricle with synthetic substitute, open approach, must be reported together to describe a biventricular heart replacement (artificial heart). The excision of the native ventricles is integral to the replacement procedure and is not reported separately.
	<b>OR</b>	
	Insertion of external heart assist system with removal of existing heart assist system (e.g. replacement, exchange)	Review operative report carefully to determine extent of all procedures. External (sometimes called percutaneous ventricular assist devices (pVADs) are generally placed through the femoral artery via catheter. Both insertion and removal must be performed for this DRG.
	<b>OR</b>	
	Removal and revision of heart assist system	Root operation Revision is correcting, to the extent possible, a portion of a malfunctioning device or the position of a displaced device. Removal must be performed in conjunction with revision for this DRG.
	<b>AND</b>	
	MCC condition	See appendix B.
002	Insertion of implantable heart assist system or implantation of total internal biventricular heart replacement system	See DRG 001.
	<b>OR</b>	
	Insertion of external heart assist system with removal of existing heart assist system (e.g. replacement, exchange)	See DRG 001.
	<b>OR</b>	
	Removal and revision of heart assist system	See DRG 001.

### DRG 216 Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with MCC

RW 10.0393

#### No Potential DRGs

### DRG 217 Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with CC

RW 6.4835

#### Potential DRGs

216	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with MCC	10.0393
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DRG	PDx/SDx/Procedure	Tips
216	MCC condition	See appendix B.

### DRG 218 Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization without CC/MCC

RW 6.1093

#### Potential DRGs

216	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with MCC	10.0393
217	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with CC	6.4835

DRG	PDx/SDx/Procedure	Tips
216	MCC condition	See appendix B.
217	CC condition	See appendix B.

## DRG 243 (Continued)

DRG	PDx/SDx/Procedure	Tips
228	Leadless pacemaker insertion, replacement, or revision	Review the operative report carefully. Leadless or transcatheter pacemakers do not require a subcutaneous pocket or a tunneled lead. The device is placed within the heart chamber (intracardiac), typically the right ventricle, via a peripheral vessel.
	<b>AND</b>	
	MCC condition	See appendix B.
229	Leadless pacemaker insertion	See DRG 228.
242	MCC condition	See appendix B.
258	Pacemaker device replacement - insertion with removal of old device	Review record for pacemaker replacement procedure. Two codes must be reported—both removal and insertion.
	<b>AND</b>	
	MCC condition	See appendix B.
260	Cardiac pacemaker revision procedure	Root operation Revision is defined as: "Correcting, to the extent possible, a malfunctioning or displaced device" and is coded when the objective of the procedure is to correct the position or function of a previously placed device, without taking the entire device out and putting in a whole new device in its place. Revision can include correcting a malfunctioning device by taking out and/or putting in part, but not all, of the device. Example of pacemaker revision would be adjustment of the position of pacemaker lead without removing or replacing the lead.
	<b>AND</b>	
	MCC condition	See appendix B.

## DRG 244 Permanent Cardiac Pacemaker Implant without CC/MCC

RW 2.0633

## Potential DRGs

222	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction/Heart Failure/Shock with MCC	7.9510
223	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction/Heart Failure/Shock without MCC	5.7986
224	Cardiac Defibrillator Implant with Cardiac Catheterization without Acute Myocardial Infarction/Heart Failure/Shock with MCC	7.5191
225	Cardiac Defibrillator Implant with Cardiac Catheterization without Acute Myocardial Infarction/Heart Failure/Shock without MCC	5.6178
226	Cardiac Defibrillator Implant without Cardiac Catheterization with MCC	6.5650
227	Cardiac Defibrillator Implant without Cardiac Catheterization without MCC	5.2121
228	Other Cardiothoracic Procedures with MCC	5.3303
229	Other Cardiothoracic Procedures without MCC	3.4412
242	Permanent Cardiac Pacemaker Implant with MCC	3.7276
243	Permanent Cardiac Pacemaker Implant with CC	2.5185
258	Cardiac Pacemaker Device Replacement with MCC	3.1681
260	Cardiac Pacemaker Revision Except Device Replacement with MCC	3.5673

DRG	PDx/SDx/Procedure	Tips
222	Cardiac defibrillator implant	Two codes must be reported—both the generator and lead(s) are inserted.
	<b>AND</b>	
	Hypertensive heart and kidney disease with heart failure	According to the ICD-10-CM guidelines the classification presumes a causal relationship between hypertension and heart and kidney involvement, as these terms are linked by the term "with" in the alphabetic index (either under a main term or subterm). Heart and kidney disease should be coded as related to hypertension unless the documentation clearly states the conditions are unrelated, in which case they may be coded separately. These conditions do not require provider documentation linking them to hypertension.
	Acute myocardial infarction, initial episode of care	A code from category I22 Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction, is to be used when a patient who has suffered a type 1 or unspecified AMI has a new AMI within the 4-week time frame of the initial AMI. A code from category I22 must be used in conjunction with a code from category I21. The sequencing of the I22 and I21 codes depends on the circumstances of the encounter.  Do not assign code I22 for subsequent myocardial infarctions other than type 1 or unspecified. For subsequent type 2 AMI, assign only code I21.A1. For subsequent type 4 or type 5 AMI, assign only code I21.A9.  If a subsequent myocardial infarction of one type occurs within 4 weeks of a myocardial infarction of a different type, assign the appropriate codes from category I21 to identify each type. Do not assign a code from I22. Codes from category I22 should be assigned only if both the initial and subsequent myocardial infarctions are type 1 or unspecified.
	Heart failure, all types	Code first underlying cause.
	Shock, cardiogenic or unspecified	
	<b>AND</b>	
	Cardiac catheterization (right, left, bilateral) for measurement of cardiac sampling and pressure, or with angiocardiology (coronary angiography)	
	<b>AND</b>	
	MCC condition	See appendix B.

# Appendix B: Numeric Lists of CCs and MCCs

## Numeric CC List

A00.0	A18.12	A36.1	A51.49	A77.8	B02.23	B40.2	B60.2	B97.34	C37	C49.A2
A00.1	A18.13	A36.2	A52.00	A77.9	B02.29	B40.3	B65.0	B97.35	C38.0	C49.A3
A00.9	A18.14	A36.3	A52.01	A78	B02.30	B40.7	B65.1	C15.3	C38.1	C49.A4
A01.00	A18.15	A36.81	A52.02	A79.0	B02.31	B40.81	B65.2	C15.4	C38.2	C49.A5
A01.01	A18.16	A36.82	A52.03	A79.1	B02.32	B40.89	B65.3	C15.5	C38.3	C49.A9
A01.02	A18.17	A36.83	A52.04	A79.81	B02.33	B40.9	B65.8	C15.8	C38.4	C56.1
A01.03	A18.18	A36.84	A52.05	A79.82	B02.34	B41.0	B65.9	C15.9	C38.8	C56.2
A01.04	A18.2	A36.85	A52.06	A79.89	B02.39	B41.7	B66.0	C16.0	C40.00	C56.3
A01.05	A18.32	A36.86	A52.09	A79.9	B02.7	B41.8	B66.1	C16.1	C40.01	C56.9
A01.09	A18.39	A36.89	A52.10	A81.00	B02.8	B41.9	B66.2	C16.2	C40.02	C64.1
A01.1	A18.4	A36.9	A52.11	A81.01	B03	B44.1	B66.3	C16.3	C40.10	C64.2
A01.2	A18.50	A37.00	A52.12	A81.09	B04	B44.2	B66.4	C16.4	C40.11	C64.9
A01.3	A18.51	A37.10	A52.15	A81.1	B05.1	B44.7	B66.5	C16.5	C40.12	C65.1
A01.4	A18.52	A37.80	A52.16	A81.2	B05.4	B44.81	B66.8	C16.6	C40.20	C65.2
A01.4	A18.53	A37.90	A52.17	A81.81	B05.81	B44.89	B67.0	C16.8	C40.21	C65.9
A02.0	A18.54	A38.0	A52.19	A81.82	B05.89	B44.9	B67.1	C16.9	C40.22	C66.1
A02.23	A18.59	A38.1	A52.2	A81.83	B06.00	B45.0	B67.2	C17.0	C40.30	C66.2
A02.24	A18.6	A38.8	A52.3	A81.89	B06.02	B45.2	B67.31	C17.1	C40.31	C66.9
A02.25	A18.7	A38.9	A52.71	A81.9	B06.09	B45.3	B67.32	C17.2	C40.32	C68.0
A02.29	A18.81	A39.82	A52.72	A82.0	B06.81	B45.7	B67.39	C17.3	C40.80	C68.1
A02.8	A18.82	A39.83	A52.73	A82.1	B06.82	B45.8	B67.4	C17.8	C40.81	C68.8
A02.9	A18.83	A39.84	A52.74	A82.9	B06.89	B45.9	B67.5	C17.9	C40.82	C68.9
A03.0	A18.84	A39.89	A52.75	A85.0	B08.3	B47.0	B67.61	C18.0	C40.90	C70.0
A04.0	A18.85	A39.9	A52.76	A85.1	B08.71	B47.1	B67.69	C18.1	C40.91	C70.1
A04.1	A18.89	A42.0	A52.77	A85.8	B15.9	B47.9	B67.7	C18.2	C40.92	C70.9
A04.2	A21.0	A42.1	A52.78	A86	B16.1	B48.2	B67.8	C18.3	C41.0	C71.0
A04.3	A21.1	A42.2	A52.79	A87.0	B16.9	B48.3	B67.90	C18.4	C41.1	C71.1
A04.4	A21.2	A42.81	A54.00	A87.1	B17.0	B48.4	B67.99	C18.5	C41.2	C71.2
A04.5	A21.3	A42.82	A54.01	A87.2	B17.10	B48.8	B68.0	C18.6	C41.3	C71.3
A04.6	A21.7	A42.89	A54.02	A87.8	B17.2	B49	B68.1	C18.7	C41.4	C71.4
A04.71	A21.8	A42.9	A54.03	A87.9	B17.8	B50.0	B68.9	C18.8	C41.9	C71.5
A04.72	A21.8	A42.9	A54.03	A87.9	B17.8	B50.0	B68.9	C18.8	C41.9	C71.5
A04.8	A21.9	A43.0	A54.09	A88.0	B17.9	B50.8	B69.0	C18.9	C45.0	C71.6
A04.9	A22.0	A43.1	A54.1	A88.8	B18.0	B51.0	B69.1	C19	C45.1	C71.7
A05.0	A22.2	A43.8	A54.21	A89	B18.1	B51.8	B69.81	C20	C45.2	C71.8
A05.1	A22.8	A43.9	A54.22	A90	B18.8	B51.9	B69.89	C21.0	C46.0	C71.9
A05.2	A22.9	A44.0	A54.23	A91	B18.9	B52.0	B69.9	C21.1	C46.1	C72.0
A05.3	A23.8	A44.1	A54.24	A92.0	B19.10	B52.8	B70.0	C21.2	C46.2	C72.1
A05.4	A23.9	A44.8	A54.29	A92.1	B19.9	B52.9	B70.1	C21.8	C46.3	C72.20
A05.5	A24.0	A44.9	A54.30	A92.2	B20	B53.0	B71.0	C22.0	C46.4	C72.21
A05.8	A24.1	A48.51	A54.31	A92.4	B25.1	B53.1	B71.1	C22.1	C46.50	C72.22
A06.0	A24.2	A48.52	A54.32	A92.5	B25.3	B53.8	B71.8	C22.2	C46.51	C72.30
A06.1	A24.3	A50.01	A54.33	A92.8	B25.9	B54	B72	C22.3	C46.52	C72.31
A06.2	A24.9	A50.02	A54.39	A92.9	B26.0	B55.0	B73.00	C22.4	C46.7	C72.32
A06.3	A25.0	A50.03	A54.40	A93.0	B26.3	B55.1	B73.01	C22.7	C46.9	C72.40
A06.81	A25.1	A50.04	A54.41	A93.1	B26.81	B55.2	B73.02	C22.8	C47.0	C72.41
A06.82	A25.9	A50.05	A54.42	A93.2	B26.82	B55.9	B73.09	C22.9	C47.10	C72.42
A06.89	A27.0	A50.06	A54.43	A93.8	B26.83	B56.0	B73.1	C23	C47.11	C72.50
A07.1	A27.89	A50.07	A54.49	A94	B26.84	B56.1	B74.0	C24.0	C47.12	C72.59
A07.2	A27.9	A50.08	A54.52	A95.0	B26.85	B56.9	B74.1	C24.1	C47.20	C72.9
A07.3	A28.0	A50.09	A54.83	A95.1	B26.89	B57.0	B74.2	C24.8	C47.21	C74.00
A07.4	A28.1	A50.2	A54.84	A95.9	B33.1	B57.1	B74.3	C24.9	C47.22	C74.01
A07.8	A28.2	A50.30	A54.85	A96.0	B33.20	B57.2	B74.4	C25.0	C47.3	C74.02
A07.9	A28.8	A50.31	A54.89	A96.1	B33.21	B57.30	B74.8	C25.1	C47.4	C74.10
A08.0	A28.9	A50.32	A54.9	A96.8	B33.22	B57.31	B74.9	C25.2	C47.5	C74.11
A08.11	A30.0	A50.39	A68.0	A96.9	B33.23	B57.32	B75	C25.3	C47.6	C74.12
A08.19	A30.1	A50.40	A68.1	A98.0	B33.4	B57.39	B76.0	C25.4	C47.8	C74.90
A08.2	A30.2	A50.43	A68.9	A98.1	B34.3	B57.40	B76.1	C25.7	C47.9	C74.91
A08.31	A30.3	A50.44	A69.1	A98.2	B37.0	B57.41	B76.8	C25.8	C48.0	C74.92
A08.32	A30.4	A50.45	A69.20	A98.5	B37.41	B57.42	B76.9	C25.9	C48.1	C75.0
A08.39	A30.5	A50.49	A69.21	A98.8	B37.49	B57.49	B77.0	C33	C48.2	C75.1
A09	A30.8	A50.51	A69.22	A99	B37.81	B57.5	B77.89	C34.00	C48.8	C75.2
A15.0	A30.9	A50.52	A69.23	B00.2	B37.82	B58.00	B77.9	C34.01	C49.0	C75.3
A15.4	A31.0	A50.53	A69.29	B00.50	B37.83	B58.01	B78.0	C34.02	C49.10	C75.4
A15.5	A31.1	A50.54	A70	B00.51	B37.84	B58.09	B78.7	C34.10	C49.11	C75.5
A15.6	A31.2	A50.55	A75.0	B00.52	B37.89	B58.1	B78.9	C34.11	C49.12	C75.8
A15.7	A31.8	A50.56	A75.1	B00.53	B38.0	B58.82	B79	C34.12	C49.20	C75.9
A15.8	A31.9	A50.57	A75.2	B00.59	B38.1	B58.83	B80	C34.2	C49.21	C77.0
A15.9	A32.0	A50.59	A75.3	B00.81	B38.2	B58.89	B81.0	C34.30	C49.22	C77.1
A17.9	A32.11	A51.31	A75.9	B00.89	B38.3	B58.9	B81.1	C34.31	C49.3	C77.2
A18.01	A32.12	A51.32	A77.0	B01.0	B38.7	B60.00	B81.2	C34.32	C49.4	C77.3
A18.02	A32.81	A51.39	A77.1	B01.81	B38.81	B60.01	B81.3	C34.80	C49.5	C77.4
A18.03	A32.82	A51.42	A77.2	B01.89	B38.89	B60.02	B81.4	C34.81	C49.6	C77.5
A18.09	A32.89	A51.43	A77.3	B01.9	B38.9	B60.03	B81.8	C34.82	C49.8	C77.8
A18.10	A32.9	A51.44	A77.40	B02.0	B39.3	B60.09	B82.0	C34.90	C49.9	C77.9
A18.11	A34	A51.45	A77.41	B02.21	B40.0	B60.10	B97.21	C34.91	C49.A0	C78.00
	A36.0	A51.46	A77.49	B02.22	B40.1	B60.19	B97.33	C34.92	C49.A1	C78.01