



Medtronic

Secondary Inpatient Diagnosis Coding for Medicare Cases

CRDM Procedures Effective 10-1-2008

The first section of this document reflects the top secondary diagnosis codes associated with Cardiac Rhythm Disease Management (CRDM) procedures for Inpatient Hospital Medicare claims for FY 2007.¹ Codes that are indicated with an "X" are categorized as an MCC or CC per Medicare. The second section reflects additional secondary diagnosis codes which may be common for various CRDM procedures.

This document reflects the top secondary diagnosis codes associated with Cardiac Rhythm Disease Management procedures for Inpatient Hospital Medicare claims for FY 2008.¹

These coding suggestions do not replace seeking coding advice from the payer and/or your own coding staff. The ultimate responsibility for correct coding lies with the provider of services. Please contact your local payer for interpretation of the appropriate codes to use for specific procedures. Medtronic makes no guarantee that the use of this information will prevent differences of opinion or disputes with Medicare or other third party payers as to the correct form of billing or the amount that will be paid to providers of service.

ICD-9-CM Diagnosis Code	Brief Description	MCC ²	CC ³
Disorders of thyroid gland (240-246)			
244.9	Unspecified hypothyroidism		
Diseases of other endocrine glands (249-259)			
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled		
Other metabolic and immunity disorders (270-279)			
272.0	Pure hypercholesterolemia		
272.4	Other and unspecified hyperlipidemia		
274.9	Gout, unspecified		
276.1	Hyposmolality and/or hyponatremia		X
276.51	Dehydration		
276.7	Hyperpotassemia		
276.8	Hypopotassemia		
278.00	Obesity, unspecified		
Diseases of the blood and blood-forming organs (280-289)			
285.9	Unspecified anemia		
287.5	Unspecified thrombocytopenia		
Organic and psychotic conditions (290-294)			
294.10	Dementia in conditions classified elsewhere without behavioral disturbance		
294.8	Other persistent mental disorders due to conditions classified elsewhere		
Neurotic disorders, personality disorders, and other nonpsychotic mental disorders (300-316)			
300.00	Anxiety state, unspecified		
305.1	Nondependent tobacco use disorder		
311	Depressive disorder, not elsewhere classified		
Inflammatory diseases of the central nervous system (320-326)			
327.23	Obstructive sleep apnea (adult) (pediatric)		

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ICD-9-CM Diagnosis Code	Brief Description	MCC ²	CC ³
Hereditary and degenerative diseases of the central nervous system (330-337)			
331.0	Alzheimer's disease		
Disorders of the eye and adnexa (360-379)			
365.9	Unspecified glaucoma		
Chronic rheumatic heart disease (393-398)			
396.3	Mitral valve insufficiency and aortic valve insufficiency		
397.0	Diseases of tricuspid valve		
Hypertensive disease (401-405)			
401.9	Unspecified essential hypertension		
402.90	Unspecified hypertensive heart disease without heart failure		
402.91	Unspecified hypertensive heart disease with heart failure		
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease		
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease		X
Ischemic heart disease (410-414)			
411.1	Intermediate coronary syndrome		X
412	Old myocardial infarction		
413.9	Other and unspecified angina pectoris		
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft		
414.01	Coronary atherosclerosis of native coronary artery		
414.02	Coronary atherosclerosis of autologous vein bypass graft		X
414.8	Other specified forms of chronic ischemic heart disease		
Diseases of pulmonary circulation (415-417)			
416.8	Other chronic pulmonary heart diseases		
Other forms of heart disease (420-429)			
424.0	Mitral valve disorders		
424.1	Aortic valve disorders		
425.4	Other primary cardiomyopathies		X
426.0	Atrioventricular block, complete		X
426.11	First degree atrioventricular block		
426.13	Other second degree atrioventricular block		
426.3	Other left bundle branch block		
426.4	Right bundle branch block		

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ICD-9-CM Diagnosis Code	Brief Description	MCC ²	CC ³
427.0	Paroxysmal supraventricular tachycardia		X
427.1	Paroxysmal ventricular tachycardia		X
427.31	Atrial fibrillation		
427.32	Atrial flutter		X
427.41	Ventricular fibrillation	X	
427.5 ⁴	Cardiac arrest	X	
427.69	Other premature beats		
427.81	Sinoatrial node dysfunction		
427.89	Other specified cardiac dysrhythmias		
428.0	Congestive heart failure, unspecified		
428.30	Unspecified diastolic heart failure		X
Cerebrovascular disease (430-438)			
433.10	Occlusion and stenosis of carotid artery without mention of cerebral infarction		
Diseases of arteries, arterioles, and capillaries (440-449)			
443.9	Unspecified peripheral vascular disease		
Diseases of veins and lymphatics, and other diseases of circulatory system (451-459)			
458.9	Unspecified hypotension		
Pneumonia and influenza (480-488)			
486	Pneumonia, organism unspecified	X	
Chronic obstructive pulmonary disease and allied conditions (490-496)			
491.21	Obstructive chronic bronchitis, with (acute) exacerbation		
493.20	Chronic obstructive asthma, unspecified		
493.90	Asthma, unspecified		
496	Chronic airway obstruction, not elsewhere classified		
Other diseases of respiratory system (510-519)			
511.9	Unspecified pleural effusion		X
512.1	Iatrogenic pneumothorax		X
518.0	Pulmonary collapse		X
518.81	Acute respiratory failure	X	
Diseases of esophagus, stomach, and duodenum (530-538)			
530.81	Esophageal reflux		
Nephritis, nephrotic syndrome, and nephrosis (580-589)			
584.9	Unspecified acute renal failure	X	
585.3	Chronic kidney disease, Stage III (moderate)		

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ICD-9-CM Diagnosis Code	Brief Description	MCC ²	CC ³
585.6	End stage renal disease	X	
585.9	Chronic kidney disease, unspecified		
Other diseases of urinary system (590-599)			
593.9	Unspecified disorder of kidney and ureter		
599.0 ⁵	Urinary tract infection, site not specified		X
Diseases of male genital organs (600-608)			
600.00	Hypertrophy (benign) of prostate without urinary obstruction and other lower urinary tract symptoms [LUTS]		
Arthropathies and related disorders (710-719)			
715.90	Osteoarthritis, unspecified whether generalized or localized, unspecified site		
716.90	Unspecified arthropathy, site unspecified		
Osteopathies, chondropathies, and acquired musculoskeletal deformities (730-739)			
733.00	Unspecified osteoporosis		
Symptoms (780-799)			
780.2	Syncope and collapse		
780.39	Other convulsions		
780.57	Unspecified sleep apnea		
799.02	Hypoxemia		
Complications of surgical and medical care, not elsewhere classified (996-999)			
996.01	Mechanical complication due to cardiac pacemaker (electrode)		X
996.72	Other complications due to other cardiac device, implant, and graft		X
998.12	Hematoma complicating a procedure		X
Persons with potential health hazards related to personal and family history (V10-V19)			
V10.3	Personal history of malignant neoplasm of breast		
V10.46	Personal history of malignant neoplasm of prostate		
V12.51	Personal history of venous thrombosis and embolism		
V12.59	Personal history of other diseases of circulatory system		
V15.82	Personal history of tobacco use, presenting hazards to health		
V17.3	Family history of ischemic heart disease		

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ICD-9-CM Diagnosis Code	Brief Description	MCC ²	CC ³
Persons with a condition influencing their health status (V40-V49)			
V43.3	Heart valve replaced by other means		
V43.65	Knee joint replacement by other means		
V45.01	Cardiac pacemaker in situ		
V45.1 ⁶	Renal dialysis status		
V45.81	Postprocedural aortocoronary bypass status		
V45.82	Postprocedural percutaneous transluminal coronary angioplasty status		
Person encountering health services for specific procedures and aftercare (V50-V59)			
V58.61	Encounter for long-term (current) use of anticoagulants		
V58.66	Long-term (current) use of aspirin		
V58.67	Long-term (current) use of insulin		
V58.69	Encounter for long-term (current) use of other medications		

Other Common Secondary Diagnosis Codes for Various CRDM Procedures

ICD-9-CM Diagnosis Code	Brief Description	MCC ²	CC ³
402.01	Malignant hypertensive heart disease with heart failure		X
402.11	Benign hypertensive heart disease with heart failure		
402.91	Unspecified hypertensive heart disease with heart failure		
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified		X
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease		X
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified		X
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease		X
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified		X
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease		X

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ICD-9-CM Diagnosis Code	Brief Description	MCC ²	CC ³
425.1	Hypertrophic obstructive cardiomyopathy		X
426.82	Long QT syndrome		
428.1	Left heart failure		X
428.20	Unspecified systolic heart failure		X
428.21	Acute systolic heart failure	X	
428.22	Chronic systolic heart failure		X
428.23	Acute on chronic systolic heart failure	X	
428.31	Acute diastolic heart failure	X	
428.32	Chronic diastolic heart failure		X
428.33	Acute on chronic diastolic heart failure	X	
428.40	Unspecified combined systolic and diastolic heart failure		X
428.41	Acute combined systolic and diastolic heart failure	X	
428.42	Chronic combined systolic and diastolic heart failure		X
428.43	Acute on chronic combined systolic and diastolic heart failure	X	
428.9	Unspecified heart failure		

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Other available information:

A detailed and searchable MCC/CC file can be found at www.medtronic.com/crdmreimbursement.

References

- ¹ The MedPAR 2007 section is based on the analysis of the top 100 most commonly billed secondary diagnosis associated with CRDM cases.
- ² MCC: Major complication or comorbidity.
- ³ CC: Complication or comorbidity. The full listing of MCCs (table 6I) and CCs (table 6J) can be found at: <http://www.cms.hhs.gov/AcutelnpatientPPS/FFD/list.asp#TopOfPage>.
- ⁴ Diagnoses codes 427.41 (Ventricular fibrillation), 427.5 (Cardiac arrest), 785.51 (Cardiogenic shock), 785.59 (Other shock without mention of trauma) and 799.1 (Respiratory arrest) are assigned as a major CC only for patients discharged alive, otherwise they will be assigned as a non CC.
- ⁵ Beginning October 1, 2008, Medicare can no longer assign an inpatient hospital discharge to a higher paying MS-DRG if a selected Hospital Acquired Condition (HAC) is not present on admission [Page 48472 *Federal Register*/Vol. 73, No. 161/Tuesday, August 19, 2008]. Catheter-Associated Urinary Tract Infection (UTI), diagnosis code 996.64, is listed as a HAC and this list also excludes diagnosis code 599.0 from acting as a CC [Page 48491 *Federal Register*/Vol. 73, No. 161/Tuesday, August 19, 2008].
- ⁶ This diagnosis code is invalid effective October 1, 2008.

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