

eAppendix: ICD9 and ICD10 diagnosis codes. The character “x” in code listings represents any character.

	ICD-9-CM	ICD-10-CM
Diagnosis		
Atrial fibrillation and flutter	427.3x (note: the entire tree of codes)	I48.x (note: the entire tree of codes)
Mitral or aortic valvular disease	394, 396	I05, I08.0, I08.1, I08.2, I08.3
valve surgery & procedures	Procedure codes 35.0x, 35.1x, 35.2x, 35.96, 35.97, 35.99	Procedure codes 02RJ, 02RF, 02RG, 02RH, 02QF, 02QG, 02QH, 02QJ CCI Procedure Codes: 1.HT.89, 1.HV.80, 1.HU.80, 1.HT.80, 1.HS.80, 1.HV.90 1.HU.90, 1.HT.90, 1.HS.90
Co-morbidities		
Ischemic Heart Disease	410, 411, 412, 413, 414, 429.2, V45.81, procedure codes 36.xx	I20-I25, procedure codes 0210, 0211, 0212, 0213 CCI Procedure codes: 1.IJ.76, 1.IJ.50, 1.IJ.57
MI	410, 412	I21, I22, I25.2
Angina	411.1, 413	I20
Peripheral vascular diseases (PAD, aneurysm, dissection, etc.)	440, 441, 442, 443, 447.1, 557.1, 557.9, procedure codes 39.22, 39.25, 39.26, 39.29, 39.50	I70, I71, I72, I73, I77.1, I79.0, K55.1, K55.8, K55.9, Z95.82x, Z95.9, procedure codes 031, 03Q, 041, 04Q CCI Procedure Codes: 1.KE.76, 1.KA.76, 1.ID.76, 1.IB.76, 1.IA.76, 1.ID.76, 1.IC.76, 1.JM.76, 1.JJ.76, 1.KT.76, 1.KR.76, 1.KE.76, 1.KG.76, 1.JM.76, 1.JK.76, 1.JX.76, 1.JY.76, 1.KA.50, 1.IB.50, 1.IA.50, 1.ID.50, 1.IC.50, 1.KE.50, 1.JJ.50, 1.JL.50, 1.KG.50, 1.KA.57, 1.IB.57, 1.ID.57, 1.IC.57, 1.KE.57, 1.KT.57, 1.KG.57, 1.JM.57
PAD	440, 443.9	I70, I73.9
Cerebrovascular disease	430-438, 362.3, procedure codes 38.12, 39.74	I60-64, I65-69, G45, G46, H34.x (x = 0, 1, 8, 9), procedure codes 031y, where y is any of [G, S, T, H, J, K, M, L, N], and

		03Qy, where y is any of [G, H, J, K, L, M, N, P, Q, R, S, T] CCI Procedure Codes: 1.ID.76, 1.JE.76, 1.JX.76, 1.JE.50, 1.JX.50, 1.JE.57, 1.JX.57, 1.JW.57, 1.JW.76, 1.JW.50
Ischemic Stroke	434	I63
TIA	435	G45
Intracranial Hemorrhage	430, 431, 432.x (x = 0, 1, 9)	I60, I61.x, I62.x (x = 0, 1, 9)
Systemic Embolism	444	I74
Heart Failure	428	I50
Hypertension	401-405	I10-I15
Diabetes	250	E10-E13
Chronic pulmonary disease	490 - 496, 500-505, 506.4, 508.1, 508.8	I27.8, I27.9, J40-J47, J60-J67, J68.4, J70.1, J70.3
Cancer	140-209, 230-234	C00 –C26, C30-41, C43-C58, C60 – C80, C81-96, D00-09
Dementia	290, 294.1, 294.2, 331.xx	F01, F02, F03, G30, G31
Peptic ulcer disease	530.2, 531, 532, 533, 534	K22.1, K25, K26, K27, K28
Chronic Kidney Disease	583, 584, 585, 586, 592, 593.9	N00-N23
Abnormal liver function tests	570-573, 574.x1	K70-K77